
Department of Chemistry
Pavanatma College, Murickassery
Idukki-685604

Curriculum Framework



Academic Year 2018 – 2019

Table of Contents

1	General and Analytical Chemistry	1
1.1	Course Overview	1
1.2	Curriculum Structure	2
1.3	Evaluation Methods	2
1.4	Course Outcome	3
1.5	CO – PO Mapping	3
1.6	CO – PSO Mapping	3
2	Theoretical and Inorganic Chemistry	4
2.1	Course Overview	4
2.2	Curriculum Structure	5
2.3	Evaluation Methods	5
2.4	Course Outcome	6
2.5	CO – PO Mapping	6
2.6	CO – PSO Mapping	6
3	Organic Chemistry I	7
3.1	Course Overview	7
3.2	Curriculum Structure	8
3.3	Evaluation Methods	8

3.4	Course Outcome	9
3.5	CO – PO Mapping	9
3.6	CO – PSO Mapping	9
4	Organic Chemistry II	10
4.1	Course Overview	10
4.2	Curriculum Structure	11
4.3	Evaluation Methods	11
4.4	Course Outcome	11
4.5	CO – PO Mapping	12
4.6	CO – PSO Mapping	12
5	Environment Ecology and Human Rights	13
5.1	Course Overview	13
5.2	Curriculum Structure	14
5.3	Evaluation Methods	14
5.4	Course Outcome	15
5.5	CO – PO Mapping	15
5.6	CO – PSO Mapping	15
6	Organic Chemistry III	16
6.1	Course Overview	16
6.2	Curriculum Structure	17
6.3	Evaluation Methods	17
6.4	Course Outcome	18
6.5	CO – PO Mapping	18
6.6	CO – PSO Mapping	18
7	Physical Chemistry I	19
7.1	Course Overview	19
7.2	Curriculum Structure	20

7.3	Evaluation Methods	20
7.4	Course Outcome	20
7.5	CO – PO Mapping	21
7.6	CO – PSO Mapping	21
8	Physical Chemistry II	22
8.1	Course Overview	22
8.2	Curriculum Structure	23
8.3	Evaluation Methods	23
8.4	Course Outcome	23
8.5	CO – PO Mapping	24
8.6	CO – PSO Mapping	24
9	Chemistry in Everyday Life	25
9.1	Course Overview	25
9.2	Curriculum Structure	26
9.3	Evaluation Methods	26
9.4	Course Outcome	27
9.5	CO – PO Mapping	27
9.6	CO – PSO Mapping	28
10	Inorganic Chemistry	29
10.1	Course Overview	29
10.2	Curriculum Structure	30
10.3	Evaluation Methods	30
10.4	Course Outcome	31
10.5	CO – PO Mapping	31
10.6	CO – PSO Mapping	31
11	Organic Chemistry IV	32
11.1	Course Overview	32

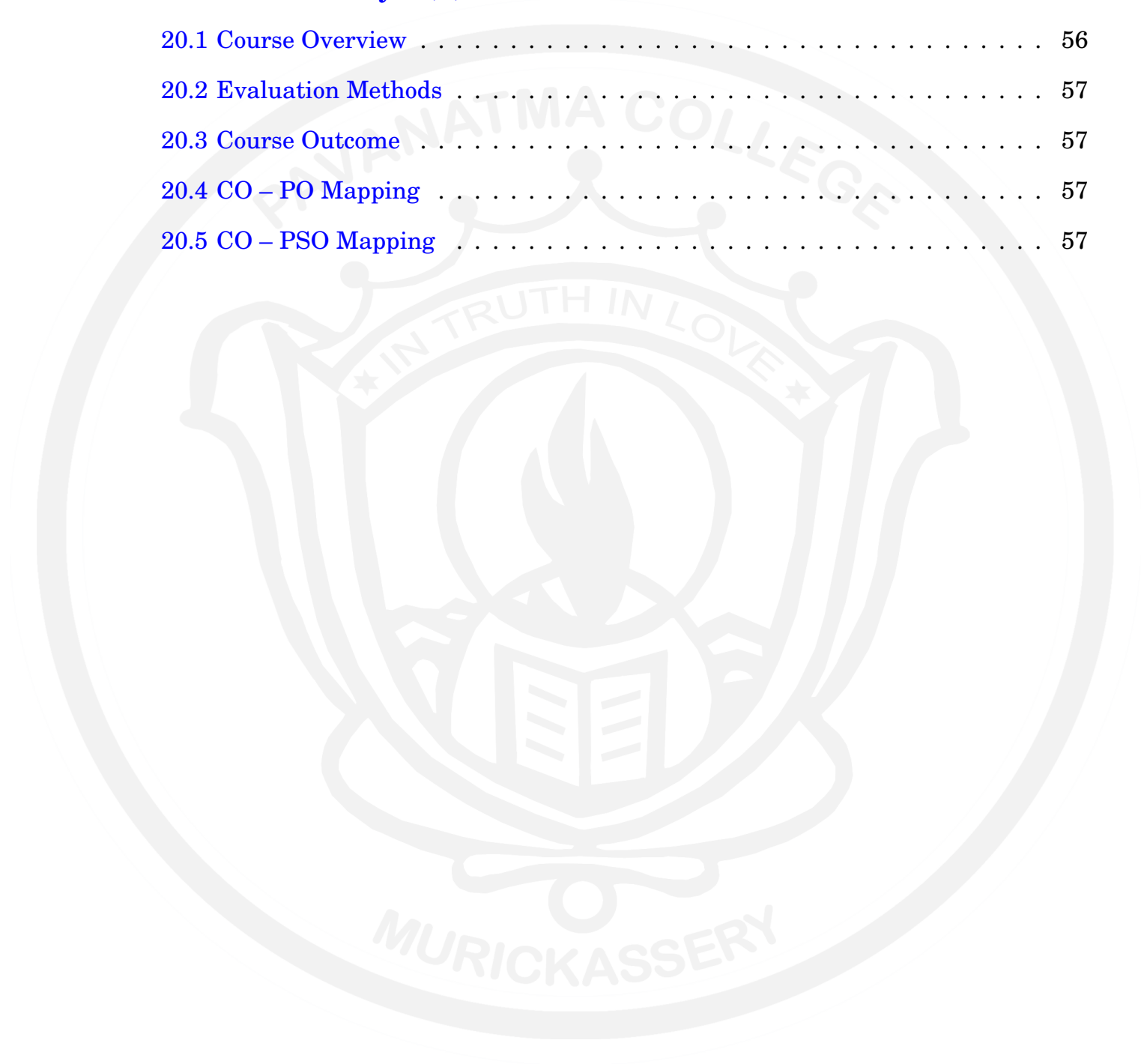
11.2 Curriculum Structure	33
11.3 Evaluation Methods	33
11.4 Course Outcome	34
11.5 CO – PO Mapping	34
11.6 CO – PSO Mapping	34
12 Physical Chemistry III	35
12.1 Course Overview	35
12.2 Curriculum Structure	36
12.3 Evaluation Methods	36
12.4 Course Outcome	37
12.5 CO – PO Mapping	37
12.6 CO – PSO Mapping	38
13 Physical Chemistry IV	39
13.1 Course Overview	39
13.2 Curriculum Structure	40
13.3 Evaluation Methods	40
13.4 Course Outcome	41
13.5 CO – PO Mapping	41
13.6 CO – PSO Mapping	42
14 Soil and Agricultural Chemistry	43
14.1 Course Overview	43
14.2 Curriculum Structure	44
14.3 Evaluation Methods	44
14.4 Course Outcome	44
14.5 CO – PO Mapping	45
14.6 CO – PSO Mapping	45

15 Volumetric Analysis(P)	46
15.1 Course Overview	46
15.2 Evaluation Methods	47
15.3 Course Outcome	47
15.4 CO – PO Mapping	47
15.5 CO – PSO Mapping	47
16 Qualitative Organic Analysis(P)	48
16.1 Course Overview	48
16.2 Evaluation Methods	49
16.3 Course Outcome	49
16.4 CO – PO Mapping	49
16.5 CO – PSO Mapping	49
17 Qualitative Inorganic Analysis(P)	50
17.1 Course Overview	50
17.2 Evaluation Methods	51
17.3 Course Outcome	51
17.4 CO – PO Mapping	51
17.5 CO – PSO Mapping	51
18 Organic Preparations and Basic Laboratory Techniques(P)	52
18.1 Course Overview	52
18.2 Evaluation Methods	53
18.3 Course Outcome	53
18.4 CO – PO Mapping	53
18.5 CO – PSO Mapping	53
19 Physical Chemistry Practicals(P)	54
19.1 Course Overview	54
19.2 Evaluation Methods	55

19.3 Course Outcome	55
19.4 CO – PO Mapping	55
19.5 CO – PSO Mapping	55

20 Gravimetric Analysis(P) 56

20.1 Course Overview	56
20.2 Evaluation Methods	57
20.3 Course Outcome	57
20.4 CO – PO Mapping	57
20.5 CO – PSO Mapping	57



General and Analytical Chemistry

1.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	CH1CRT01
4	Credit	2
5	Duration of External Examination	3 hours
6	External Assessment	60
7	Internal Assessment	15
8	Total hours	36
9	Hours per Week	2
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	2
13	Assessment Test	8 (2 × 4 = 8)

1.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	methodology of Chemistry	Chalk and talk, ICT	7
2	Periodic Table and Periodic Properties	Chalk and talk	5
3	Analytical Methods in Chemistry	Chalk and talk	12
4	Chromatographic Methods	Powerpoint Presentation	7
5	Evaluation of Analytical Data	Problem Solving	5

1.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

1.4 Course Outcome

CO-1	Students may get a concept of atom models and basic principles
CO-2	Students will acquire concept of periodic classification of elements and their periodic properties
CO-3	Students will acquire concept of different types of bonding and molecular structure.
CO-4	Students will acquire concept of different types of nuclear models and nuclear reactions and their applications.

1.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	2	0	0	0	0	0	2	0
CO-2	2	0	2	0	0	0	0	0	1	0
CO-3	1	0	2	2	0	0	0	0	0	0
CO-4	0	2	0	0	0	0	2	0	0	0

1.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	3	1	1	0	0	0
CO-2	3	2	0	0	0	0
CO-3	1	3	0	0	0	0
CO-4	2	3	0	0	0	0

Theoretical and Inorganic Chemistry**2.1 Course Overview**

1	Course	Core
2	Course Type	Theory
3	Course Code	CH2CRT02
4	Credit	2
5	Duration of External Examination	3 hours
6	External Assessment	60
7	Internal Assessment	15
8	Total hours	36
9	Hours per Week	2
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	2
13	Assessment Test	8 (2 × 4 = 8)

2.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Atomic Structure	Chalk and talk	6
2	Chemical Bonding I	Chalk and talk	9
3	Chemical Bonding II	Chalk and talk	9
4	Chemistry of s and p Block Elements	Chalk and Talk	3
5	Chemistry of d and f Block elements	Chalk and Talk	9

2.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

2.4 Course Outcome

CO-1	Students may get a concept of atom models and basic principles
CO-2	Students will acquire concept of periodic classification of elements and their periodic properties.
CO-3	Students will acquire concept of different types of bonding and molecular structure.
CO-4	Students will acquire concept of different types of nuclear models and nuclear reactions and their applications.

2.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	0	1	0	0	0	0	0	0	0
CO-2	3	0	1	2	0	0	0	0	0	0
CO-3	2	0	2	0	0	0	0	0	0	0
CO-4	1	0	3	3	0	0	0	0	0	0

2.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	3	0	0	0	0	0
CO-2	2	0	0	0	0	0
CO-3	2	2	1	0	0	0
CO-4	0	1	0	0	0	0

Organic Chemistry I**3.1 Course Overview**

1	Course	Core
2	Course Type	Theory
3	Course Code	CH3CRT03
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	60
7	Internal Assessment	15
8	Total hours	54
9	Hours per Week	3
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	2
13	Assessment Test	8 (2 × 4 = 8)

3.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Fundamentals of organic Chemistry	Chalk and talk, ICT	8
2	Stereochemistry	Chalk and talk ,ICT	15
3	Aliphatic Hydrocarbons and Alkyl Halides	Chalk and talk	12
4	Aromatic Hydrocarbons and Aryl Halides	Chalk and Talk	15
5	Pericyclic Reactions	Chalk and Talk	4

3.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

3.4 Course Outcome

CO-1	Students may get a concept about the classification and nomenclature of organic compounds.
CO-2	"Students will acquire concept of fundamentals of organic reaction mechanism, aromaticity and stereochemistry"
CO-3	Students will acquire concept of understanding and studying organic reactions.
CO-4	Students will get exposure to various emerging new areas of organic chemistry like nanochemistry.

3.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	0	0	0	0	3	0	0	0
CO-2	2	0	0	2	0	0	0	0	0	0
CO-3	0	0	0	2	0	0	2	0	0	0
CO-4	0	0	0	0	0	0	3	0	1	0

3.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	2	2	0	0	0	0
CO-2	2	3	0	0	0	0
CO-3	0	3	0	2	0	0
CO-4	0	0	0	2	0	0

Organic Chemistry II**4.1 Course Overview**

1	Course	Core
2	Course Type	Theory
3	Course Code	CH4CRT04
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	60
7	Internal Assessment	15
8	Total hours	54
9	Hours per Week	3
10	Number of Modules	3
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	2
13	Assessment Test	8 (2 × 4 = 8)

4.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Alcohols, Phenols and Ethers	Chalk and talk, ICT	16
2	Aldehydes and Ketones	Chalk and talk, ICT	20
3	Carboxylic acid, sulphonic acids and their Derivatives	Chalk and talk	18

4.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

4.4 Course Outcome

CO-1	"Students may get a concept about the chemistry of alcohols, phenols, carboxylic acids, derivatives of Carboxylic acids, Sulphonic acids, carbonyl compounds, poly nuclear hydrocarbons, active methylene compounds and Grignard reagents."
CO-2	Students will get exposure to understand and study Organic reaction mechanisms

4.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	0	0	1	0	0	0	2	1
CO-2	0	2	0	1	0	3	2	1	0	0

4.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	3	2	1	0	0	0
CO-2	3	2	1	0	0	0

Environment Ecology and Human Rights**5.1 Course Overview**

1	Course	Core
2	Course Type	Theory
3	Course Code	CH5CRT05
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	60
7	Internal Assessment	15
8	Total hours	72
9	Hours per Week	4
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	2
13	Assessment Test	8 (2 × 4 = 8)

5.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Introduction to Environmental Studies: Natural Resources	Chalk and talk	10
2	Environment: Pollution and Social Issues	Chalk and talk	18
3	Population and Environmental Issues	Chalk and talk	8
4	Ecological Chemistry	Chalk and talk	18
5	Human Rights	Chalk and Talk	18

5.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

5.4 Course Outcome

CO-1	Students will understand about the natural resources in our environment
CO-2	Students will acquire the knowledge of social and environmental issues arises from population growth and pollution
CO-3	Students will study the definition and scope of ecological chemistry
CO-4	Students will understand the rights of human beings

5.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	3	1	3	0	0	0	3	0	0
CO-2	0	3	1	3	0	0	0	3	0	0
CO-3	0	3	1	3	0	0	0	3	0	0
CO-4	0	3	1	3	0	0	0	3	0	0

5.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	2	0	0	3	1	0
CO-2	2	0	0	3	1	0
CO-3	3	0	0	3	1	0
CO-4	2	0	0	3	1	0

Organic Chemistry III**6.1 Course Overview**

1	Course	Core
2	Course Type	Theory
3	Course Code	CH5CRT06
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	60
7	Internal Assessment	15
8	Total hours	54
9	Hours per Week	3
10	Number of Modules	7
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	2
13	Assessment Test	8 (2 × 4 = 8)

6.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Nitrogen Containing Compounds	Chalk and talk	15
2	Heterocyclic Compounds	Chalk and talk	8
3	Active Methylene Compounds	Chalk and talk	5
4	Drugs	Chalk and talk	11
5	Dyes	Chalk and Talk	5
6	Polymers	Chalk and Talk	4
7	Null	Null	6

6.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

6.4 Course Outcome

CO-1	"Students may get a concept of chemistry of nitro compounds, amines, dyes, organic polymers, drugs, carbohydrates and organic reagents."
CO-2	Students will understand the applications of these compounds in our daily life.
CO-3	Students will be able to identify different types of drugs and their chemical constitution.
CO-4	Students will acquire a thorough idea on the structures of carbohydrates and some heterocyclic compounds

6.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	2	0	1	0	0	1	0	0	3
CO-2	3	2	1	2	0	0	2	0	0	3
CO-3	3	2	1	2	0	0	1	0	0	3
CO-4	3	2	0	1	0	0	1	0	0	3

6.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	3	2	0	2	0	1
CO-2	3	2	0	3	0	1
CO-3	3	2	0	3	0	3
CO-4	3	2	0	2	0	1

Physical Chemistry I

7.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	CH5CRT07
4	Credit	2
5	Duration of External Examination	3 hours
6	External Assessment	60
7	Internal Assessment	15
8	Total hours	36
9	Hours per Week	2
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	2
13	Assessment Test	8 (2 × 4 = 8)

7.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Gaseous State	Chalk and talk	12
2	Liquid State	Chalk and talk	3
3	Solid State	Chalk and talk	12
4	Surface Chemistry and Colloidal State	Chalk and talk	9

7.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

7.4 Course Outcome

CO-1	Students will understand the intermolecular forces of the molecules in gases and liquids.
CO-2	Students will acquire elementary idea of the dynamics of the molecules in the gases and liquids and liquefaction of gases.
CO-3	Students will learn the structure of solids and study defects in crystals
CO-4	Students will study adsorption and applications.

7.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	2	0	1	0	0	0	0	0	3
CO-2	3	2	0	1	0	0	0	0	0	3
CO-3	3	2	0	2	0	0	0	0	0	3
CO-4	3	2	0	2	0	0	0	0	0	3

7.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	3	0	1	2	3	2
CO-2	3	0	1	2	3	2
CO-3	3	0	1	2	2	0
CO-4	3	0	0	2	3	2

Physical Chemistry II

8.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	CH5CRT08
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	60
7	Internal Assessment	15
8	Total hours	36
9	Hours per Week	2
10	Number of Modules	3
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	2
13	Assessment Test	8 (2 × 4 = 8)

8.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Quantum Mechanics	Chalk and talk	14
2	Molecular Spectroscopy I	Chalk and talk, ICT	12
3	Molecular Spectroscopy II	Chalk and talk	10

8.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

8.4 Course Outcome

CO-1	Students will understand the differences between classical and quantum mechanics.
CO-2	Students will acquire elementary idea postulates of quantum mechanics and the quantum mechanical model of the hydrogen atom
CO-3	Students will learn the basics of LCAO Principle and molecular orbital theory
CO-4	"Students will learn the principle and applications of microwave, infra red, Raman, electronic and magnetic resonance spectroscopy"

8.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	2	0	1	0	0	0	0	0	3
CO-2	3	1	0	1	0	0	0	0	0	3
CO-3	3	2	0	1	0	0	0	0	0	2
CO-4	3	1	0	2	0	0	0	0	0	3

8.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	3	0	1	1	3	0
CO-2	3	0	1	1	3	0
CO-3	3	0	1	1	2	2
CO-4	3	0	2	2	3	0

Chemistry in Everyday Life

9.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	CH5OPT01
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	72
9	Hours per Week	4
10	Number of Modules	7
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 ($2 \times 5 = 10$)

9.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Food Additives	Chalk and talk, ICT	12
2	Soaps and Detergents	Chalk and talk, ICT	10
3	Cosmetics	Chalk and talk	10
4	Plastic, Paper and Dyes	Chalk and talk	12
5	Drugs	Chalk and Talk	9
6	Chemistry and Agriculture	Chalk and Talk	12
7	NanoMaterials	Powerpoint Presentation	7

9.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

9.4 Course Outcome

CO-1	"Have attained basic knowledge about the food additives, adulteration and food laws"
CO-2	Acquired elementary idea of chemistry of soaps and detergents.
CO-3	"Have attained basic knowledge about the chemistry of cosmetics, plastics, paper and dyes."
CO-4	Acquired elementary idea of chemistry of drugs.
CO-5	Have attained basic knowledge about chemistry of Agriculture.
CO-6	Acquired elementary idea of basics of nanomaterials.

9.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	2	0	2	0	0	0	2	0	3
CO-2	3	2	0	2	0	0	0	2	0	3
CO-3	3	2	0	2	0	0	0	2	0	3
CO-4	3	2	0	2	0	0	0	2	0	3
CO-5	3	2	0	2	0	0	0	2	0	3
CO-6	3	2	0	2	0	0	0	2	0	3

9.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	3	0	1	1	0	0
CO-2	3	0	1	1	0	0
CO-3	3	0	1	1	0	0
CO-4	3	0	2	2	0	0
CO-5	3	0	0	2	0	0
CO-6	3	0	0	1	0	0

Inorganic Chemistry

10.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	CH6CRT09
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	60
7	Internal Assessment	15
8	Total hours	54
9	Hours per Week	3
10	Number of Modules	7
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	2
13	Assessment Test	8 (2 × 4 = 8)

10.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Coordination Chemistry I	Chalk and talk	7
2	Coordination Chemistry II	Chalk and talk	14
3	Coordination Chemistry III	Chalk and talk	6
4	Organo Metallic Compounds	Chalk and talk	12
5	Bioinorganic Chemistry	Chalk and Talk	6
6	Boron Compounds	Chalk and Talk	3
7	Interhalogen and Noble Gas Compounds	Chalk and Talk	6

10.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

10.4 Course Outcome

CO-1	Students may get a concept of bioinorganic chemistry.
CO-2	Students may get a concept of the coordination compounds
CO-3	Students may get an elementary idea about the boron compounds and interhalogen compounds.
CO-4	Students may get fundamental ideas of organometallic chemistry and quadruple bonding.

10.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	1	0	0	0	0	0	0	0	0
CO-2	3	0	3	0	0	0	1	0	0	1
CO-3	3	0	0	0	0	0	1	0	0	2
CO-4	3	1	2	0	0	0	2	0	0	1

10.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	3	2	0	3	0	0
CO-2	3	1	0	3	0	0
CO-3	3	1	0	3	0	0
CO-4	3	1	0	3	0	0

Organic Chemistry IV

11.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	CH6CRT10
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	60
7	Internal Assessment	15
8	Total hours	54
9	Hours per Week	3
10	Number of Modules	9
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	2
13	Assessment Test	8 (2 × 4 = 8)

11.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Natural Products	Chalk and talk	6
2	Lipids	Chalk and talk, ICT	6
3	Vitamins, Steroids, Hormones	Chalk and talk	6
4	Aminoacids, Peptides and Proteins	Chalk and talk	8
5	Nucleic Acids	Chalk and Talk	4
6	Enzymes	Chalk and Talk	3
7	Supramolecular Chemistry	Chalk and Talk	3
8	Organic Photochemistry	Chalk and Talk	4
9	Organic Spectroscopy	Problem solving	14

11.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

11.4 Course Outcome

CO-1	"Students may get a concept of chemistry of Natural Products, Hormones, amino acids, proteins and nucleic acids"
CO-2	"Students may get a concept of the structure and functions of enzymes, proteins and nucleic acids "
CO-3	Students may get an elementary idea of supramolecular chemistry and Green Fluorescent Proteins
CO-4	"Students will be able to identify organic compound using UV, IR and PMR spectroscopic techniques "

11.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	1	0	1	0	0	1	0	0	3
CO-2	3	1	1	2	0	0	2	0	0	3
CO-3	3	1	1	2	0	0	1	0	0	3
CO-4	3	1	0	1	0	0	1	0	0	3

11.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	3	1	0	2	0	1
CO-2	3	1	0	2	0	1
CO-3	3	1	0	1	0	1
CO-4	3	1	0	1	0	2

Physical Chemistry III**12.1 Course Overview**

1	Course	Core
2	Course Type	Theory
3	Course Code	CH6CRT11
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	60
7	Internal Assessment	15
8	Total hours	54
9	Hours per Week	3
10	Number of Modules	6
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	2
13	Assessment Test	8 (2 × 4 = 8)

12.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Thermodynamics I	Chalk and talk	15
2	Thermodynamics II	Chalk and talk	12
3	Chemical Equilibria	Chalk and talk	3
4	Ionic Equilibria	Chalk and talk	8
5	Phase Equilibria	Chalk and Talk	6
6	Chemical Kinetics	Chalk and Talk	10

12.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

12.4 Course Outcome

CO-1	Students will remember the laws of thermodynamics and their applications.
CO-2	"Students will be able to derive Gibbs-Helmholtz, Clausius-Clapeyron, and Gibbs-Duhem equations "
CO-3	"Students will understand the laws of chemical equilibria and the concepts of ionic equilibria, acids and bases, pH and buffer solutions."
CO-4	Students will be able to derive the phase rule and to study the phase diagrams of one and two component systems
CO-5	Students will be able to understand the theories of chemical kinetics

12.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	2	0	0	0	0	1	0	0	2
CO-2	3	0	0	0	0	0	1	0	0	1
CO-3	3	0	0	2	0	0	1	0	0	2
CO-4	3	0	0	2	0	0	2	0	0	2
CO-5	3	1	0	0	0	0	2	0	0	2

12.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	3	0	2	2	2	0
CO-2	3	0	2	2	0	0
CO-3	3	0	2	2	2	2
CO-4	3	0	2	2	3	2
CO-5	3	0	2	2	3	3

Physical Chemistry IV

13.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	CH6CRT12
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	60
7	Internal Assessment	15
8	Total hours	54
9	Hours per Week	3
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	2
13	Assessment Test	8 (2 × 4 = 8)

13.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Solutions	Chalk and talk	12
2	Electrical Conductance	Chalk and talk	12
3	Electromotive Force	Chalk and talk	15
4	Photochemistry	Chalk and talk	6
5	Group Theory	Chalk and Talk	9

13.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

13.4 Course Outcome

CO-1	"Students will understand the behaviour of binary liquid mixtures, CST, azeotropes, colligative properties"
CO-2	Students will recall the factors affecting solubility of gases in liquids
CO-3	Students will study electrical conductance and electromotive forces
CO-4	Students will understand elementary ideas in symmetry and group theory
CO-5	students will recognise the fundamentals of photochemistry

13.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	0	0	0	0	1	0	0	2
CO-2	3	0	0	0	0	0	1	0	0	1
CO-3	3	2	0	0	0	0	1	0	0	2
CO-4	3	0	0	0	0	0	2	0	0	2
CO-5	3	0	0	0	0	0	2	0	0	2

13.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	3	0	2	2	2	2
CO-2	3	0	2	2	1	3
CO-3	3	0	2	2	2	2
CO-4	3	0	2	2	3	0
CO-5	3	0	2	2	3	2

Soil and Agricultural Chemistry

14.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	CH6CBT03
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	60
7	Internal Assessment	15
8	Total hours	54
9	Hours per Week	3
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	2
13	Assessment Test	8 (2 × 4 = 8)

14.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Origin of Soil	Chalk and talk	9
2	Physical Properties of Soil	Chalk and talk	9
3	Chemistry aspects of soil	Chalk and talk	9
4	Plant Nutrients	Chalk and talk	18
5	Pesticides, Fungicides and Herbicide	Chalk and Talk	9

14.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

14.4 Course Outcome

CO-1	Students will understand the soil and its formation properties
CO-2	Students will understand the physical properties of soil and other related aspects
CO-3	Students will understand the chemistry of nutrients that are present in soil
CO-4	Students will chemistry of pesticides and herbicides

14.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	1	0	0	0	0	1	0	0	2
CO-2	3	2	0	0	0	0	1	0	0	1
CO-3	3	1	0	0	0	0	1	0	0	2
CO-4	3	1	0	0	0	0	2	0	0	1

14.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	3	0	0	2	1	0
CO-2	3	0	0	2	1	0
CO-3	3	1	2	2	1	1
CO-4	3	0	0	2	1	1

Volumetric Analysis(P)**15.1 Course Overview**

1	Course	Core
2	Course Type	Practical
3	Course Code	CH2CRP01
4	Credit	2
5	Duration of External Examination	3 hours
6	External Assessment	40
7	Internal Assessment	10
8	Total hours	144
9	Hours per Week	2
10	Number of Experiments	15
11	Total Week to complete	39
Distribution of Internal Marks		
12	Attendance	2
13	Record	4
14	Assessment Test	4 (1 × 4 = 1)

15.2 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Practical Record	Internal Assessment
3	Experimental Skill	Internal Assessment
4	University Examination	External Assessment

15.3 Course Outcome

CO-1	Students will gain a practical knowledge about Volumetric Analysis
CO-2	Students can apply the analytical techniques and graphical analysis to the experimental data related to Volumetric Analysis

15.4 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	2	2	0	3	0	0	3	3
CO-2	3	0	2	2	0	3	0	0	3	3

15.5 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	3	3	3	0	0	3
CO-2	3	3	3	0	0	3

Qualitative Organic Analysis(P)

16.1 Course Overview

1	Course	Core
2	Course Type	Practical
3	Course Code	CH4CRP02
4	Credit	2
5	Duration of External Examination	3 hours
6	External Assessment	40
7	Internal Assessment	10
8	Total hours	144
9	Hours per Week	2
10	Number of Experiments	15
11	Total Week to complete	39
Distribution of Internal Marks		
12	Attendance	2
13	Record	4
14	Assessment Test	4 (1 × 4 = 1)

16.2 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Practical Record	Internal Assessment
3	Experimental Skill	Internal Assessment
4	University Examination	External Assessment

16.3 Course Outcome

CO-1	Students will gain a practical knowledge about Qualitative Organic Analysis
CO-2	Students can apply the analytical techniques to Qualitative Organic Analysis

16.4 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	2	2	0	3	0	0	3	3
CO-2	3	0	2	2	0	3	0	0	3	3

16.5 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	3	3	3	0	0	3
CO-2	3	3	3	0	0	3

Qualitative Inorganic Analysis(P)

17.1 Course Overview

1	Course	Core
2	Course Type	Practical
3	Course Code	CH6CRP03
4	Credit	2
5	Duration of External Examination	3 hours
6	External Assessment	40
7	Internal Assessment	10
8	Total hours	216
9	Hours per Week	2
10	Number of Experiments	15
11	Total Week to complete	57
Distribution of Internal Marks		
12	Attendance	2
13	Record	4
14	Assessment Test	4 (1 × 4 = 1)

17.2 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Practical Record	Internal Assessment
3	Experimental Skill	Internal Assessment
4	University Examination	External Assessment

17.3 Course Outcome

CO-1	Students will gain a practical knowledge about Qualitative Inorganic Analysis
CO-2	Students can apply the analytical techniques and graphical analysis to the experimental data related to Qualitative Inorganic Analysis

17.4 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	2	2	0	3	0	0	3	3
CO-2	3	0	2	2	0	3	0	0	3	3

17.5 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	3	3	3	0	0	3
CO-2	3	3	3	0	0	3

Organic Preparations and Basic Laboratory Techniques(P)

18.1 Course Overview

1	Course	Core
2	Course Type	Practical
3	Course Code	CH6CRP04
4	Credit	2
5	Duration of External Examination	3 hours
6	External Assessment	40
7	Internal Assessment	10
8	Total hours	144
9	Hours per Week	2
10	Number of Experiments	15
11	Total Week to complete	39
Distribution of Internal Marks		
12	Attendance	2
13	Record	4
14	Assessment Test	4 (1 × 4 = 1)

18.2 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Practical Record	Internal Assessment
3	Experimental Skill	Internal Assessment
4	University Examination	External Assessment

18.3 Course Outcome

CO-1	Students will gain a practical knowledge about Organic Preparations And Laboratory Techniques
CO-2	Students can apply the analytical techniques and graphical analysis to the experimental data related to Organic Preparations And Laboratory Techniques

18.4 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	2	2	0	3	0	0	3	3
CO-2	3	0	2	2	0	3	0	0	3	3

18.5 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	3	3	3	0	0	3
CO-2	3	3	3	0	0	3

Physical Chemistry Practicals(P)

19.1 Course Overview

1	Course	Core
2	Course Type	Practical
3	Course Code	CH6CRP05
4	Credit	2
5	Duration of External Examination	3 hours
6	External Assessment	40
7	Internal Assessment	10
8	Total hours	216
9	Hours per Week	2
10	Number of Experiments	15
11	Total Week to complete	57
Distribution of Internal Marks		
12	Attendance	2
13	Record	4
14	Assessment Test	4 (1 × 4 = 1)

19.2 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Practical Record	Internal Assessment
3	Experimental Skill	Internal Assessment
4	University Examination	External Assessment

19.3 Course Outcome

CO-1	Students will gain a practical knowledge about Physical Chemistry experiments
CO-2	Students can apply the analytical techniques and graphical analysis to the experimental data related to Physical Chemistry experiments

19.4 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	2	2	0	3	0	0	3	3
CO-2	3	0	2	2	0	3	0	0	3	3

19.5 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	3	3	3	0	0	3
CO-2	3	3	3	0	0	3

Gravimetric Analysis(P)

20.1 Course Overview

1	Course	Core
2	Course Type	Practical
3	Course Code	CH6CRP06
4	Credit	2
5	Duration of External Examination	3 hours
6	External Assessment	40
7	Internal Assessment	10
8	Total hours	72
9	Hours per Week	2
10	Number of Experiments	15
11	Total Week to complete	21
Distribution of Internal Marks		
12	Attendance	2
13	Record	4
14	Assessment Test	4 (1 × 4 = 1)

20.2 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Practical Record	Internal Assessment
3	Experimental Skill	Internal Assessment
4	University Examination	External Assessment

20.3 Course Outcome

CO-1	Have gained practical knowledge by applying the experimental methods related to gravimetric analysis.
CO-2	Be able to apply the analytical techniques and graphical analysis to the experimental data related to analysis of various species by gravimetric method.

20.4 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	2	2	0	3	0	0	3	3
CO-2	3	0	2	2	0	3	0	0	3	3

20.5 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	3	3	3	0	0	3
CO-2	3	3	3	0	0	3

Department of Vocational Studies

Pavanatma College, Murickassery

Idukki-685604

Curriculum Framework

B.Voc DTP and Printing Technology

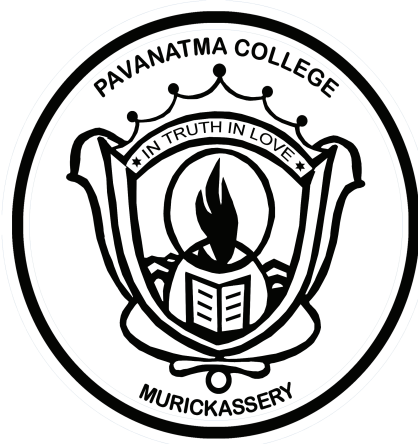


Table of Contents

1	Listening and speaking skills in English	1
1.1	Course Overview	1
1.2	Curriculum Structure	2
1.3	Evaluation Methods	2
1.4	Course Outcome	2
1.5	CO – PO Mapping	3
1.6	CO – PSO Mapping	3
2	IT for business(P)	4
2.1	Course Overview	4
2.2	Evaluation Methods	5
2.3	Course Outcome	5
2.4	CO – PO Mapping	5
2.5	CO – PSO Mapping	6
3	Basic concepts of computer	7
3.1	Course Overview	7
3.2	Curriculum Structure	8
3.3	Evaluation Methods	8
3.4	Course Outcome	8

3.5	CO – PO Mapping	9
3.6	CO – PSO Mapping	9
4	Life skill	10
4.1	Course Overview	10
4.2	Curriculum Structure	11
4.3	Evaluation Methods	11
4.4	Course Outcome	12
4.5	CO – PO Mapping	12
4.6	CO – PSO Mapping	12
5	Fundamentals of dtp	13
5.1	Course Overview	13
5.2	Curriculum Structure	14
5.3	Evaluation Methods	14
5.4	Course Outcome	14
5.5	CO – PO Mapping	15
5.6	CO – PSO Mapping	15
6	Basic platform of pagelayout(P)	16
6.1	Course Overview	16
6.2	Evaluation Methods	17
6.3	Course Outcome	17
6.4	CO – PO Mapping	17
6.5	CO – PSO Mapping	18
7	Academic Writing and Presentation Skills in English	19
7.1	Course Overview	19
7.2	Curriculum Structure	20
7.3	Evaluation Methods	20
7.4	Course Outcome	20

7.5	CO – PO Mapping	21
7.6	CO – PSO Mapping	21
8	Data Processing through MS Excel (P)	22
8.1	Course Overview	22
8.2	Evaluation Methods	23
8.3	Course Outcome	23
8.4	CO – PO Mapping	23
8.5	CO – PSO Mapping	24
9	Binding and finishing Technology	25
9.1	Course Overview	25
9.2	Curriculum Structure	26
9.3	Evaluation Methods	26
9.4	Course Outcome	27
9.5	CO – PO Mapping	27
9.6	CO – PSO Mapping	27
10	Image editing for printing(P)	28
10.1	Course Overview	28
10.2	Evaluation Methods	29
10.3	Course Outcome	29
10.4	CO – PO Mapping	29
10.5	CO – PSO Mapping	30
11	Fundamentals of graphic design	31
11.1	Course Overview	31
11.2	Curriculum Structure	32
11.3	Evaluation Methods	32
11.4	Course Outcome	32
11.5	CO – PO Mapping	33

11.6 CO – PSO Mapping	33
12 NIL(P)	34
12.1 Course Overview	34
12.2 Evaluation Methods	35
12.3 Course Outcome	35
12.4 CO – PO Mapping	35
12.5 CO – PSO Mapping	36
13 Principles of Management	37
13.1 Course Overview	37
13.2 Curriculum Structure	38
13.3 Evaluation Methods	38
13.4 Course Outcome	38
13.5 CO – PO Mapping	39
13.6 CO – PSO Mapping	39
14 Planning for print production.	40
14.1 Course Overview	40
14.2 Curriculum Structure	41
14.3 Evaluation Methods	41
14.4 Course Outcome	42
14.5 CO – PO Mapping	42
14.6 CO – PSO Mapping	42
15 Vector Graphics Editor(P)	43
15.1 Course Overview	43
15.2 Evaluation Methods	44
15.3 Course Outcome	44
15.4 CO – PO Mapping	44
15.5 CO – PSO Mapping	45

16 Art of Illustrations(P)	46
16.1 Course Overview	46
16.2 Evaluation Methods	47
16.3 Course Outcome	47
16.4 CO – PO Mapping	47
16.5 CO – PSO Mapping	48
17 Offset printng techonoly	49
17.1 Course Overview	49
17.2 Curriculum Structure	50
17.3 Evaluation Methods	50
17.4 Course Outcome	50
17.5 CO – PO Mapping	51
17.6 CO – PSO Mapping	51
18 NIL(P)	52
18.1 Course Overview	52
18.2 Evaluation Methods	53
18.3 Course Outcome	53
18.4 CO – PO Mapping	53
18.5 CO – PSO Mapping	54
19 Soft Skills and Presentation	55
19.1 Course Overview	55
19.2 Curriculum Structure	56
19.3 Evaluation Methods	56
19.4 Course Outcome	56
19.5 CO – PO Mapping	56
19.6 CO – PSO Mapping	57

20 Digital Printing	58
20.1 Course Overview	58
20.2 Curriculum Structure	59
20.3 Evaluation Methods	59
20.4 Course Outcome	60
20.5 CO – PO Mapping	60
20.6 CO – PSO Mapping	60
21 Graphic reproduction	61
21.1 Course Overview	61
21.2 Curriculum Structure	62
21.3 Evaluation Methods	62
21.4 Course Outcome	62
21.5 CO – PO Mapping	63
21.6 CO – PSO Mapping	63
22 Xerox Scanning and Image generation	64
22.1 Course Overview	64
22.2 Curriculum Structure	65
22.3 Evaluation Methods	65
22.4 Course Outcome	65
22.5 CO – PO Mapping	66
22.6 CO – PSO Mapping	66
23 Enhancing text and typography(P)	67
23.1 Course Overview	67
23.2 Evaluation Methods	68
23.3 Course Outcome	68
23.4 CO – PO Mapping	68
23.5 CO – PSO Mapping	69

24 NIL(P)	70
24.1 Course Overview	70
24.2 Evaluation Methods	71
24.3 Course Outcome	71
24.4 CO – PO Mapping	71
24.5 CO – PSO Mapping	72
25 Enviornmental studies	73
25.1 Course Overview	73
25.2 Curriculum Structure	74
25.3 Evaluation Methods	74
25.4 Course Outcome	75
25.5 CO – PO Mapping	75
25.6 CO – PSO Mapping	76
26 Offset plate making	77
26.1 Course Overview	77
26.2 Curriculum Structure	78
26.3 Evaluation Methods	78
26.4 Course Outcome	79
26.5 CO – PO Mapping	79
26.6 CO – PSO Mapping	79
27 Web offset technology	80
27.1 Course Overview	80
27.2 Curriculum Structure	81
27.3 Evaluation Methods	81
27.4 Course Outcome	82
27.5 CO – PO Mapping	82
27.6 CO – PSO Mapping	82

28 Technical and scientific documentation(P)	83
28.1 Course Overview	83
28.2 Evaluation Methods	84
28.3 Course Outcome	84
28.4 CO – PO Mapping	84
28.5 CO – PSO Mapping	85
29 Multipage Design Publication(P)	86
29.1 Course Overview	86
29.2 Evaluation Methods	87
29.3 Course Outcome	87
29.4 CO – PO Mapping	87
29.5 CO – PSO Mapping	88
30 NIL(P)	89
30.1 Course Overview	89
30.2 Evaluation Methods	90
30.3 Course Outcome	90
30.4 CO – PO Mapping	90
30.5 CO – PSO Mapping	91
31 Entrepreneurship development	92
31.1 Course Overview	92
31.2 Curriculum Structure	93
31.3 Evaluation Methods	93
31.4 Course Outcome	94
31.5 CO – PO Mapping	94
31.6 CO – PSO Mapping	95
32 Publication design(P)	96
32.1 Course Overview	96

32.2 Evaluation Methods	97
32.3 Course Outcome	97
32.4 CO – PO Mapping	97
32.5 CO – PSO Mapping	98
33 Costing for printing press	99
33.1 Course Overview	99
33.2 Curriculum Structure	100
33.3 Evaluation Methods	100
33.4 Course Outcome	101
33.5 CO – PO Mapping	101
33.6 CO – PSO Mapping	101
34 Printing Press management system(P)	102
34.1 Course Overview	102
34.2 Evaluation Methods	103
34.3 Course Outcome	103
34.4 CO – PO Mapping	103
34.5 CO – PSO Mapping	104
35 Identity branding for printing	105
35.1 Course Overview	105
35.2 Curriculum Structure	106
35.3 Evaluation Methods	106
35.4 Course Outcome	106
35.5 CO – PO Mapping	107
35.6 CO – PSO Mapping	107
36 NIL(P)	108
36.1 Course Overview	108
36.2 Evaluation Methods	109

36.3 Course Outcome	109
36.4 CO – PO Mapping	109
36.5 CO – PSO Mapping	110



Listening and speaking skills in English**1.1 Course Overview**

1	Course	Core
2	Course Type	Theory
3	Course Code	BOCG101
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	72
9	Hours per Week	4
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

1.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Pronunciation and neutralisation of accent	Lecturing	10
2	Listening skills	Lecturing	20
3	Speaking skills	interactive talk	20
4	Fluency	Lecturing	12
5	Reading skills	Lecturing	10

1.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

1.4 Course Outcome

CO-1	Understand the process of communication and its effect on giving and receiving information
CO-2	Apply effective communication skills in a variety of public and interpersonal settings
CO-3	Discover the impact of changing communication methods on society
CO-4	Develop analytical, research, and organizational skills

1.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	2	0	0	0	0	0	0	0
CO-2	1	0	0	0	3	0	0	0	0	0
CO-3	0	0	2	0	0	0	0	0	0	0
CO-4	2	0	0	0	0	0	0	0	0	0

1.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	3	0	0	0	0
CO-2	0	2	2	0	0	0
CO-3	0	2	1	0	0	0
CO-4	0	2	2	0	0	0

IT for business(P)**2.1 Course Overview**

1	Course	Core
2	Course Type	Practical
3	Course Code	BOCG102
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	144
9	Hours per Week	3
10	Number of Experiments	15
11	Total Week to complete	27
Distribution of Internal Marks		
12	Attendance	2
13	Record	4
14	Assessment Test	4 (1 × 4 = 1)

2.2 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Practical Record	Internal Assessment
3	Experimental Skill	Internal Assessment
4	University Examination	External Assessment

2.3 Course Outcome

CO-1	Understand the meaning of life and its challenges.
CO-2	Develop one's self understanding.
CO-3	Provided with skills and knowledge needed to cope with life's problems and challenges.
CO-4	Develop critical thinking skills so participants learn a number of alternatives in dealing with a difficult situation.

2.4 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	0	0	0	0	0	0	0	0	0
CO-2	0	0	2	0	0	0	0	0	0	0
CO-3	1	0	0	0	3	0	0	0	0	0
CO-4	0	0	2	0	0	0	0	0	0	0

2.5 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	0	0	2	0	0
CO-2	0	0	2	0	0	0
CO-3	3	0	0	0	0	0
CO-4	0	0	0	0	3	0

Basic concepts of computer

3.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	DBOC103
4	Credit	6
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	72
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

3.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Computer Fundamentals	Lecturing	10
2	computer language	Lecturing	20
3	operating systems	interactive talk	12
4	internet	Lecturing	20
5	cyber security	Lecturing	10

3.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

3.4 Course Outcome

CO-1	Microsoft Word is a sophisticated word processing application program
CO-2	To create just about any kind of business document, including company reports, presentations.
CO-3	To create text documents that can be saved electronically, printed on paper or saved as PDF files.
CO-4	understand functioning of OS

3.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	2	0	0	0	0	0	0	0
CO-2	1	0	0	0	3	0	0	0	0	0
CO-3	0	0	2	0	0	0	0	0	0	0
CO-4	3	0	0	0	0	0	0	0	0	0

3.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	2	2	0	0	0
CO-2	0	2	1	0	0	0
CO-3	0	2	2	0	0	0
CO-4	0	0	0	2	0	0

Life skill**4.1 Course Overview**

1	Course	Core
2	Course Type	Theory
3	Course Code	PBOC104
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	72
9	Hours per Week	3
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

4.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Restructuring one's own life story:	Workshop	10
2	Self acceptance, Self esteem, Self concept	Erudite lecture	10
3	Positive thinking. Definition of personality,	Personal counselling	20
4	Motivation	Seminars	12
5	Planning for life:	Personal counselling	20

4.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

4.4 Course Outcome

CO-1	Understand the meaning of life and its challenges.
CO-2	Develop one's self understanding.
CO-3	Provided with skills and knowledge needed to cope with life's problems and challenges.
CO-4	Develop critical thinking skills so participants learn a number of alternatives in dealing with a difficult situation.

4.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	0	0	0	0	0	0	2	0
CO-2	0	0	0	0	0	0	0	0	0	1
CO-3	2	0	0	0	0	0	0	0	0	0
CO-4	0	0	0	3	0	0	0	0	0	0

4.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	0	2	0	0	0
CO-2	0	2	2	0	0	0
CO-3	0	2	1	0	0	0
CO-4	0	2	2	0	0	0

Fundamentals of dtp

5.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	DBOC105
4	Credit	6
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	72
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

5.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Desk Top Publishing	Lecturing, questioning	10
2	Typography	Lecturing, questioning	20
3	Paper Introduction and preparation	Presentation, Practising	20
4	Concept of layout	Presentation, Practising	12
5	Networking Concept, Printing Process	Lecturing, questioning	10

5.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

5.4 Course Outcome

CO-1	To Âcreation of documents usingÂpage layoutÂsoftwareÂon a personal computer
CO-2	To support for Numerous Project Types
CO-3	To recognize the paper sizes and its weight/thickness
CO-4	To create any type of DTP works within the programmes.

5.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	0	0	0	0	3	2	0	0
CO-2	0	0	0	1	0	0	0	0	0	1
CO-3	1	0	0	0	0	0	0	2	0	0
CO-4	3	0	0	0	0	0	0	0	0	0

5.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	0	0	2	0	0
CO-2	0	0	2	0	0	0
CO-3	0	0	0	0	3	0
CO-4	0	2	2	0	0	0

Basic platform of pagelayout(P)**6.1 Course Overview**

1	Course	Core
2	Course Type	Practical
3	Course Code	DBOC106
4	Credit	6
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	144
9	Hours per Week	5
10	Number of Experiments	15
11	Total Week to complete	18
Distribution of Internal Marks		
12	Attendance	2
13	Record	4
14	Assessment Test	4 (1 × 4 = 1)

6.2 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Practical Record	Internal Assessment
3	Experimental Skill	Internal Assessment
4	University Examination	External Assessment

6.3 Course Outcome

CO-1	To create professional-quality publications for their personal or business needs.
CO-2	To become composition skills and typography skills
CO-3	To provide working with graphics
CO-4	To enhance Creating simple single and multipage publications in English and Malayalam languages.

6.4 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	0	0	0	0	0	0	2	0
CO-2	0	0	0	0	0	0	0	0	0	1
CO-3	2	0	0	0	0	0	0	0	0	0
CO-4	3	0	0	0	0	0	0	0	0	0

6.5 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	2	1	0	0	0
CO-2	0	2	2	0	0	0
CO-3	0	0	0	2	0	0
CO-4	0	0	2	0	0	0

Academic Writing and Presentation Skills in English

7.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	BOCG201
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	72
9	Hours per Week	4
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

7.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Letter Writing	Lecturing	10
2	Academic and business Communication	Lecturing	20
3	Presentation Skills	Chalk and talk	20
4	Non-verbal communication	Lecturing	12
5	NIL	Erudite lectures	10

7.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

7.4 Course Outcome

CO-1	To create professional-quality publications for their personal or business needs.
CO-2	To become composition skills and typography skills
CO-3	To provide working with graphics
CO-4	To enhance Creating simple single and multipage publications in English and Malayalam languages.

7.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	0	0	0	0	0	0	2	0
CO-2	0	0	0	0	0	0	0	0	0	1
CO-3	2	0	0	0	0	0	0	0	0	0
CO-4	3	0	0	0	0	0	0	0	0	0

7.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	0	2	0	0	0
CO-2	0	0	0	0	3	0
CO-3	0	2	2	0	0	0
CO-4	0	2	1	0	0	0

Data Processing through MS Excel (P)**8.1 Course Overview**

1	Course	Core
2	Course Type	Practical
3	Course Code	PBOC202
4	Credit	6
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	144
9	Hours per Week	6
10	Number of Experiments	15
11	Total Week to complete	15
Distribution of Internal Marks		
12	Attendance	2
13	Record	4
14	Assessment Test	4 (1 × 4 = 1)

8.2 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Practical Record	Internal Assessment
3	Experimental Skill	Internal Assessment
4	University Examination	External Assessment

8.3 Course Outcome

CO-1	Engage in formality to ensure better quality and professionalism in works
CO-2	Tied with intellectual powers and ability to cognitively analyse ideologies
CO-3	Be able to use the new media's of communication to gather knowledge at will
CO-4	Opportunities in the fields of mass communication

8.4 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	0	0	0	0	0	0	2	0
CO-2	0	0	0	0	0	0	0	0	0	1
CO-3	2	0	0	0	0	0	0	0	0	0
CO-4	0	0	2	0	0	0	0	0	0	0

8.5 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	2	2	0	0	0
CO-2	0	0	0	2	0	0
CO-3	0	0	2	0	0	0
CO-4	0	0	2	0	0	0

Binding and finishing Technology

9.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	DBOC203
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	72
9	Hours per Week	4
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

9.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Bookbinding,	Lecturing, questioning	10
2	Modern commercial binding	Lecturing, questioning	10
3	Perfect binding	Chalk and talk, ICT	20
4	Periodical/Journal Binding,	Lecturing	12
5	Conservation and restoration of books	Lecturing	20

9.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

9.4 Course Outcome

CO-1	To set up, operate, and maintain the machines that perform these various tasks, while bookbinders perform highly skilled operations
CO-2	To enhance to shape book bodies with presses and trimming machines and reinforce them with glued fabric strips.
CO-3	To build strength into a book, subjected to the rigorous and abuses of library usage.
CO-4	Understand the practical aspects in paper cutting machines, its operations

9.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	1	0	0	0	3	0	0	0	0	0
CO-2	0	0	2	0	0	0	0	0	0	0
CO-3	0	0	0	0	0	0	0	0	2	0
CO-4	0	0	0	0	0	1	0	0	0	0

9.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	0	2	0	0	0
CO-2	0	0	2	0	0	0
CO-3	0	0	2	0	0	0
CO-4	0	0	2	0	0	0

Image editing for printing(P)**10.1 Course Overview**

1	Course	Core
2	Course Type	Practical
3	Course Code	DBOC204
4	Credit	6
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	144
9	Hours per Week	6
10	Number of Experiments	15
11	Total Week to complete	15
Distribution of Internal Marks		
12	Attendance	2
13	Record	4
14	Assessment Test	4 (1 × 4 = 1)

10.2 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Practical Record	Internal Assessment
3	Experimental Skill	Internal Assessment
4	University Examination	External Assessment

10.3 Course Outcome

CO-1	To create a full, rich experience for the reader or customer to enhance the customer experience visually.
CO-2	To create graphics designers, professional photographers, and even hobbyists to edit graphics as well as create and manipulate images.
CO-3	To develop their skills in editing and altering photographs for through a basic understanding of the tool bar, layers, and the adjustments panel.
CO-4	To improve their aesthetic qualities by creating a new design and thereby attracting readers to them.

10.4 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	0	0	0	0	0	0	0	3
CO-2	1	0	0	0	0	0	0	0	0	2
CO-3	0	0	0	3	0	0	0	0	0	0
CO-4	0	0	0	0	0	0	3	2	0	0

10.5 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	0	2	0	0	0
CO-2	0	0	2	0	0	0
CO-3	0	0	2	0	0	0
CO-4	3	0	0	0	0	0

Fundamentals of graphic design

11.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	DBOC205
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	72
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

11.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Basic elements and cocepts of Visual Design	Lec- ture,workshop,demonstration	10
2	Principles of Design	Presentation, workshop	20
3	Digital image pixels	Demonstration,	20
4	Introduction to Colour classification	Demonstration,	12
5	Introduction to typography	Demonstration,	10

11.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

11.4 Course Outcome

CO-1	To provide the students with initial information on designing what is seen in future
CO-2	to understand basic elements and principles in design
CO-3	To understand designing in raster graphics application
CO-4	To understand image editing or enhancing techniques

11.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	0	1	0	0	0	0	0	1
CO-2	0	0	0	4	0	0	0	0	0	0
CO-3	0	0	0	0	0	0	3	2	0	0
CO-4	0	0	0	1	0	0	0	0	0	1

11.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	0	0	0	3	0
CO-2	0	0	2	0	0	0
CO-3	3	0	0	0	0	0
CO-4	0	0	0	0	3	0

NIL(P)**12.1 Course Overview**

1	Course	Core
2	Course Type	Practical
3	Course Code	DBOC206
4	Credit	6
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	144
9	Hours per Week	1
10	Number of Experiments	15
11	Total Week to complete	75
Distribution of Internal Marks		
12	Attendance	2
13	Record	4
14	Assessment Test	4 (1 × 4 = 1)

12.2 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Practical Record	Internal Assessment
3	Experimental Skill	Internal Assessment
4	University Examination	External Assessment

12.3 Course Outcome

CO-1	ability to understand the practical aspects in a professional design studio
CO-2	Accure a minimum of two years experience in designing field
CO-3	Ability to produce print designs
CO-4	Work in a printing press or flex printing press

12.4 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	1	0	0	0	0	0	0	2	0	0
CO-2	0	0	0	0	0	0	0	0	2	0
CO-3	0	0	0	0	0	1	0	0	0	0
CO-4	0	0	0	0	0	0	0	0	0	3

12.5 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	0	0	0	3	0
CO-2	0	0	2	0	0	0
CO-3	0	0	2	0	0	0
CO-4	0	0	2	0	0	0

Principles of Management

13.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	BOCG301
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	72
9	Hours per Week	4
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

13.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Nature and Process of Management	Workshop	10
2	Planning: Objectives	Erudite lecture	20
3	Organising	Personal counselling	20
4	Staffing	Seminars	12
5	Directing and Controlling	Personal counselling	10

13.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

13.4 Course Outcome

CO-1	Able to understand the role of management in daily life
CO-2	Imparts planning and organizing skills
CO-3	Obtain clear idea about the behaviour of human beings
CO-4	Able to find various techniques of communications and motivation

13.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	1	0	0	0	0	0	0	0	0	2
CO-2	0	0	0	0	0	0	0	0	2	0
CO-3	0	0	0	0	0	1	0	0	0	0
CO-4	0	0	0	0	0	0	0	0	0	3

13.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	0	2	0	0	0
CO-2	0	0	2	0	0	0
CO-3	0	0	2	0	0	0
CO-4	3	0	0	0	0	0

Planning for print production.

14.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	DBOC302
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	72
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

14.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Print Planning	Lecturing, questioning	12
2	Paper. Main classes of paper	Lecturing, questioning	20
3	Offset inks	Presentation, Practising	20
4	Paper coatings	Presentation, Practising	10
5	Availability of various paper types	Lecturing, questioning	10

14.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

14.4 Course Outcome

CO-1	The students will be having the detailed knowledge of different conventional and non conventional materials
CO-2	To understand the concept of various finishing techniques, Finishing materials and different forms of packaging.
CO-3	Able to conclude about Modern Printing Systems and various perspectives associated with it.
CO-4	Along with their identification and testing techniques and they will able to implement their knowledge for printing.

14.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	0	0	0	0	0	0	0	0	0
CO-2	0	0	0	0	2	0	0	0	0	0
CO-3	0	0	0	0	0	0	0	0	0	3
CO-4	0	0	0	0	0	0	0	0	3	0

14.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	0	0	0	3	0
CO-2	3	0	0	0	0	0
CO-3	0	0	0	0	3	0
CO-4	0	2	2	0	0	0

Vector Graphics Editor(P)

15.1 Course Overview

1	Course	Core
2	Course Type	Practical
3	Course Code	DBOC303
4	Credit	6
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	144
9	Hours per Week	6
10	Number of Experiments	15
11	Total Week to complete	15
Distribution of Internal Marks		
12	Attendance	2
13	Record	4
14	Assessment Test	4 (1 × 4 = 1)

15.2 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Practical Record	Internal Assessment
3	Experimental Skill	Internal Assessment
4	University Examination	External Assessment

15.3 Course Outcome

CO-1	To collect and analyze, develop a logo design in various forms to be able to offer to the client.
CO-2	It is used primarily for marketing and advertising businesses, particularly those that specialize in print advertising development.
CO-3	It is a vector based designing software which is used for creating logos, flexes, brochures, invitation cards and any kind of vector designing.
CO-4	Ability to create and edit blends envelopes

15.4 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	2	0	0	0	0	0	0	0
CO-2	1	0	0	0	3	0	0	0	0	0
CO-3	0	0	2	0	0	0	0	0	0	0
CO-4	2	0	0	0	0	0	0	0	0	0

15.5 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	2	1	0	0	0
CO-2	0	2	2	0	0	0
CO-3	0	0	0	2	0	0
CO-4	0	0	2	0	0	0

Art of Illustrations(P)**16.1 Course Overview**

1	Course	Core
2	Course Type	Practical
3	Course Code	DBOC304
4	Credit	6
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	144
9	Hours per Week	6
10	Number of Experiments	15
11	Total Week to complete	15
Distribution of Internal Marks		
12	Attendance	2
13	Record	4
14	Assessment Test	4 (1 × 4 = 1)

16.2 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Practical Record	Internal Assessment
3	Experimental Skill	Internal Assessment
4	University Examination	External Assessment

16.3 Course Outcome

CO-1	Creative and imaginative with an eye for color, balance, and layout
CO-2	Able to create a drawing that expresses an idea or concept
CO-3	Creativity and imagination
CO-4	To enjoy creative work

16.4 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	0	0	0	0	0	0	0	0	0
CO-2	0	0	2	0	0	0	0	0	0	0
CO-3	1	0	0	0	3	0	0	0	0	0
CO-4	0	0	2	0	0	0	0	0	0	0

16.5 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	2	2	0	0	0
CO-2	0	0	0	2	0	0
CO-3	0	0	2	0	0	0
CO-4	0	2	2	0	0	0

Offset printing technology

17.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	DBOC305
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	72
9	Hours per Week	4
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

17.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Principles of lithography	Lecturing, questioning	12
2	Printing unit configuration	Lecturing	10
3	Introduction to Blankets rollers	Chalk and talk, ICT	20
4	Printing and inline operations	Chalk and talk, ICT	10
5	Metal printing	Chalk and talk, ICT	20

17.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

17.4 Course Outcome

CO-1	To understand the principles of lithography.
CO-2	To analyse and understand the various aspects of print unit configuration
CO-3	To understand the aspects of Blankets rollers.
CO-4	To analyse and understand various aspects in printing and inline operations

17.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	0	0	0	0	0	0	0	0	0
CO-2	0	0	2	0	0	0	0	0	0	0
CO-3	1	0	0	0	3	0	0	0	0	0
CO-4	0	0	2	0	0	0	0	0	0	0

17.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	0	3	0	0	0
CO-2	0	0	3	0	1	0
CO-3	0	0	0	0	2	0
CO-4	0	0	0	0	3	0

NIL(P)**18.1 Course Overview**

1	Course	Core
2	Course Type	Practical
3	Course Code	DBOC306
4	Credit	6
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	144
9	Hours per Week	1
10	Number of Experiments	15
11	Total Week to complete	75
Distribution of Internal Marks		
12	Attendance	2
13	Record	4
14	Assessment Test	4 (1 × 4 = 1)

18.2 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Practical Record	Internal Assessment
3	Experimental Skill	Internal Assessment
4	University Examination	External Assessment

18.3 Course Outcome

CO-1	ability to understand the practical aspects in a professional design studio
CO-2	Accure a minimum of two years experience in designing field
CO-3	Ability to produce print designs
CO-4	Work in a printing press or flex printing press

18.4 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	0	0	0	0	0	0	0	0	0
CO-2	0	2	0	0	0	0	0	0	0	0
CO-3	0	0	0	3	0	0	0	0	0	0
CO-4	0	0	0	0	0	2	0	0	0	0

18.5 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	2	0	0	0	0
CO-2	1	0	0	0	0	0
CO-3	0	0	0	2	0	0
CO-4	1	0	0	0	0	0

Soft Skills and Presentation

19.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	BOCG401
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	72
9	Hours per Week	4
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

19.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Personal Skills	Lecturing	10
2	Social Skills	Lecturing	10
3	Personality Development	interactive talk	20
4	Presentation skills	Lecturing	12
5	Professional skills	Lecturing	20

19.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

19.4 Course Outcome

CO-1	Improves the personal skills
CO-2	Development of the overall personality
CO-3	Improve presentation skills
CO-4	Build professional skills

19.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	0	0	0	0	0	0	0	0	0
CO-2	0	0	2	2	0	0	0	0	0	0
CO-3	2	0	0	0	0	3	0	0	3	3
CO-4	2	0	0	0	0	0	0	0	0	3

19.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	0	0	2	0	0
CO-2	0	0	2	0	0	0
CO-3	0	2	2	0	0	0
CO-4	0	0	0	2	0	0

Digital Printing

20.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	DBOC402
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	72
9	Hours per Week	4
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

20.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Digital Printing Introduction	Lecture, workshop, demonstration	10
2	Combine the works of various designing and drawing software	Presentation, workshop	10
3	Digital Printing	Demonstration,	20
4	Process of Digital Printing	Demonstration,	12
5	Skills and Proficiencies required for a printing machine operator	Demonstration,	20

20.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

20.4 Course Outcome

CO-1	Top-notch image quality
CO-2	Cost-effective for high volume prints
CO-3	Wide variety of colors are available such as foils, Pantone, Fluorescence, varnish
CO-4	Special inks can be added for effects

20.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	0	0	0	0	0	0	0	0	0
CO-2	0	2	0	0	0	0	0	0	0	0
CO-3	0	0	0	3	0	0	0	0	0	0
CO-4	2	0	0	0	0	0	0	0	0	0

20.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	0	2	0	0	0
CO-2	0	2	2	0	0	0
CO-3	0	0	3	0	0	0
CO-4	0	0	3	0	1	0

Graphic reproduction

21.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	DBOC403
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	72
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 ($2 \times 5 = 10$)

21.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Basic steps involved in planning a layout	Lecturing	10
2	Color and Color theory	Lecturing	10
3	Prepress color proofing	interactive talk	20
4	Planographic plates:	Lecturing	12
5	Sensitized photo polymerization	Lecturing	20

21.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

21.4 Course Outcome

CO-1	The process of color separation can be accomplished photographically, electronically, or on the desktop.
CO-2	The gray axis of the image should be preserved.
CO-3	Maximum luminance contrast (black to white) is desirable.
CO-4	Few colors should lie outside the destination gamut.

21.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	2	0	0	0	0	0	0	0	0
CO-2	0	0	0	3	0	0	0	0	0	0
CO-3	0	0	0	0	0	2	0	0	0	0
CO-4	2	0	0	0	0	0	0	0	0	0

21.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	0	0	0	2	0
CO-2	0	0	0	0	3	0
CO-3	0	2	0	0	0	0
CO-4	1	0	0	0	0	0

Xerox Scanning and Image generation

22.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	DBOC404
4	Credit	6
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	72
9	Hours per Week	6
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

22.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	History of photocopying	Lecture, workshop, demonstration	10
2	Copying of image and documents	Presentation, workshop	10
3	Principle of scanning	Demonstration,	20
4	Reading of color strip	Demonstration,	12
5	Color management	Demonstration,	20

22.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

22.4 Course Outcome

CO-1	Understand the theoretical basic of areas of Electric current
CO-2	Acquire the skill to use Drive motor, solid state speed control of D.C.
CO-3	Able to work as an electrical operator
CO-4	Acquire the skills and proficiencies required for an electrical operator .

22.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	2	0	0	0	0	0	0	0	0
CO-2	0	0	0	3	0	0	0	0	0	0
CO-3	0	0	0	0	0	2	0	0	0	0
CO-4	0	0	2	0	0	0	0	0	0	0

22.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	0	0	2	0	0
CO-2	1	0	0	0	0	0
CO-3	1	0	0	0	0	0
CO-4	0	2	2	0	0	0

Enhancing text and typography(P)**23.1 Course Overview**

1	Course	Core
2	Course Type	Practical
3	Course Code	DBOC405
4	Credit	6
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	144
9	Hours per Week	6
10	Number of Experiments	15
11	Total Week to complete	15
Distribution of Internal Marks		
12	Attendance	2
13	Record	4
14	Assessment Test	4 (1 × 4 = 1)

23.2 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Practical Record	Internal Assessment
3	Experimental Skill	Internal Assessment
4	University Examination	External Assessment

23.3 Course Outcome

CO-1	QuarkXPress allows users to easily share content across media and output to print,
CO-2	The package provides the basic functionality of font,
CO-3	To provide its users with professional typesetting options such as kerning, curving text along a line, and ligatures.
CO-4	Ability to set up pages change document set up layout

23.4 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	1	0	0	0	3	0	0	0	0	0
CO-2	0	0	2	0	0	0	0	0	0	0
CO-3	0	0	0	0	0	0	0	0	2	0
CO-4	0	0	0	0	0	1	0	0	0	0

23.5 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	0	3	0	0	0
CO-2	0	0	3	0	1	0
CO-3	0	0	0	0	2	0
CO-4	0	0	0	0	3	0

NIL(P)**24.1 Course Overview**

1	Course	Core
2	Course Type	Practical
3	Course Code	DBOC406
4	Credit	6
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	144
9	Hours per Week	1
10	Number of Experiments	15
11	Total Week to complete	75
Distribution of Internal Marks		
12	Attendance	2
13	Record	4
14	Assessment Test	4 (1 × 4 = 1)

24.2 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Practical Record	Internal Assessment
3	Experimental Skill	Internal Assessment
4	University Examination	External Assessment

24.3 Course Outcome

CO-1	ability to understand the practical aspects in a professional design studio
CO-2	Accure a minimum of two years experience in designing field
CO-3	Ability to produce print designs
CO-4	Work in a printing press or flex printing press

24.4 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	0	0	0	0	0	0	0	3
CO-2	1	0	0	0	0	0	0	0	0	2
CO-3	0	0	2	0	0	0	0	0	0	0
CO-4	2	0	0	0	0	0	0	0	0	0

24.5 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	2	0	0	0	0
CO-2	1	2	0	0	0	0
CO-3	0	2	0	2	0	0
CO-4	1	2	0	0	0	0

Enviornmental studies

25.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	BOCG501
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	72
9	Hours per Week	4
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

25.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Introduction to Environment Science	Lecturing	10
2	Concept of an ecosystem	Lecturing	12
3	Environmental Pollution	Chalk and talk	20
4	Silent spring	Lecturing	15

25.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

25.4 Course Outcome

CO-1	Understand key concepts from economic, political, and social analysis as they pertain to the design .
CO-2	Appreciate concepts and methods from ecological and physical sciences and their application in environmental problem solving.
CO-3	Appreciate the ethical, cross-cultural, and historical context of environmental issues and the links between human and natural systems.
CO-4	Reflect critically about their roles and identities as citizens, consumers and environmental actors in a complex, interconnected world.

25.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	2	0	0	0	0	0	0	0
CO-2	1	0	0	0	3	0	0	0	0	0
CO-3	0	0	2	0	0	0	0	0	0	0
CO-4	2	0	0	0	0	0	0	0	0	0

25.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	3	0	0	0	0
CO-2	0	2	2	0	0	0
CO-3	0	2	1	0	0	0
CO-4	0	2	2	0	0	0

Offset plate making

26.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	DBOC502
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	72
9	Hours per Week	4
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

26.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Offset- Lithography	Lecturing, questioning	10
2	CTcP (Computer to Conventional Plate)	Lecturing	12
3	Computer-to-Plate	Chalk and talk, ICT	20
4	Plate Materials,	Chalk and talk, ICT	15
5	Relationship between Plate Sensitivity and Imaging Power	Chalk and talk, ICT	15

26.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

26.4 Course Outcome

CO-1	Understand the theoretical base of areas of printing, its types, its working etc.
CO-2	Acquire the skill to Combine the works of various designing and drawing software.
CO-3	Able to work as an press operator
CO-4	Acquire the skills and proficiencies required for a printing machine operator.

26.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	0	0	0	0	0	0	0	0
CO-2	2	0	0	0	0	0	0	0	0	0
CO-3	0	0	2	0	0	0	0	0	0	0
CO-4	1	0	0	0	3	0	0	0	0	0

26.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	0	0	2	0	0
CO-2	0	0	2	0	0	0
CO-3	3	0	0	0	0	0
CO-4	0	0	0	0	3	0

Web offset technology

27.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	DBOC503
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	72
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

27.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Different types of Web-Offset Printing Presses	Chalk and talk, ICT	10
2	Receiving shipping	Lecturing	12
3	Typical settings to be done on a sheet	Chalk and talk, ICT	20
4	Materials control	Chalk and talk, ICT	15
5	Preparation of impositions for web offset printing	Chalk and talk, ICT	15

27.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

27.4 Course Outcome

CO-1	Understand the theoretical base of Web-Offset Printing Presses, areas of, its types, its working etc.
CO-2	Acquire the knowledge in. web offset printing like Typical settings to be done on a sheet- fed and web press machine
CO-3	Preparation of impositions for web offset printing.
CO-4	Facility specification in Web offset printing.

27.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	2	0	0	0	0	0	0	0
CO-2	2	0	0	0	0	0	0	0	0	0
CO-3	0	0	0	0	0	2	0	0	0	0
CO-4	2	0	0	0	0	0	0	0	0	0

27.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	2	2	0	0	0
CO-2	0	2	1	0	0	0
CO-3	0	2	2	0	0	0
CO-4	0	0	0	2	0	0

Technical and scientific documentation(P)**28.1 Course Overview**

1	Course	Core
2	Course Type	Practical
3	Course Code	DBOC504
4	Credit	6
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	144
9	Hours per Week	6
10	Number of Experiments	15
11	Total Week to complete	15
Distribution of Internal Marks		
12	Attendance	2
13	Record	4
14	Assessment Test	4 (1 × 4 = 1)

28.2 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Practical Record	Internal Assessment
3	Experimental Skill	Internal Assessment
4	University Examination	External Assessment

28.3 Course Outcome

CO-1	Able to have knowledge in the basics about the Introduction to Latex. Installation of the software LaTeX.
CO-2	Clear understanding of the basics of Technical and Scientific Documentation
CO-3	Able to understand Page Layout Packages
CO-4	Enable students to use applications in Technical and Scientific Documentation

28.4 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	2	2	0	0	0	0	0	0
CO-2	2	0	0	0	0	3	0	0	3	3
CO-3	2	0	0	0	0	0	0	0	0	3
CO-4	2	0	0	0	0	0	0	0	0	0

28.5 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	0	2	0	0	0
CO-2	0	2	2	0	0	0
CO-3	0	2	1	0	0	0
CO-4	0	2	2	0	0	0

Multipage Design Publication(P)

29.1 Course Overview

1	Course	Core
2	Course Type	Practical
3	Course Code	DBOC505
4	Credit	6
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	144
9	Hours per Week	6
10	Number of Experiments	15
11	Total Week to complete	15
Distribution of Internal Marks		
12	Attendance	2
13	Record	4
14	Assessment Test	4 (1 × 4 = 1)

29.2 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Practical Record	Internal Assessment
3	Experimental Skill	Internal Assessment
4	University Examination	External Assessment

29.3 Course Outcome

CO-1	Able to have knowledge in the basics about the Introduction to basics of Adobe InDesign
CO-2	Clear understanding of the basics of the edit menu
CO-3	Able to understand the applications in Bi-fold brochures and other custom layouts
CO-4	Enable students to use applications in Printing solutions and PPD's and PDF's generation

29.4 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	0	0	0	0	0	0	0	0
CO-2	0	0	0	3	0	0	0	0	0	0
CO-3	0	0	0	0	0	2	0	0	0	0
CO-4	2	0	0	0	0	0	0	0	0	0

29.5 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	0	0	2	0	0
CO-2	0	0	2	0	0	0
CO-3	0	2	2	0	0	0
CO-4	0	2	1	0	0	0

NIL(P)**30.1 Course Overview**

1	Course	Core
2	Course Type	Practical
3	Course Code	DBOC506
4	Credit	6
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	144
9	Hours per Week	1
10	Number of Experiments	15
11	Total Week to complete	75
Distribution of Internal Marks		
12	Attendance	2
13	Record	4
14	Assessment Test	4 (1 × 4 = 1)

30.2 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Practical Record	Internal Assessment
3	Experimental Skill	Internal Assessment
4	University Examination	External Assessment

30.3 Course Outcome

CO-1	ability to understand the practical aspects in a professional design studio
CO-2	Accure a minimum of two years experience in designing field
CO-3	Ability to produce print designs
CO-4	Work in a printing press or flex printing press

30.4 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	2	2	0	0	0	0	0	0
CO-2	2	0	0	0	0	3	0	0	3	3
CO-3	0	0	2	2	0	0	0	0	0	0
CO-4	2	0	0	0	0	3	0	0	3	3

30.5 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	2	2	0	0	0
CO-2	0	2	1	0	0	0
CO-3	0	0	0	0	3	0
CO-4	0	2	2	0	0	0

Entrepreneurship development

31.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	BOCG601
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	72
9	Hours per Week	4
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

31.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	entrepreneurs and different classifications	Workshop	10
2	Create an awareness about EDP	Erudite lecture	20
3	General awareness about identification of project financing	Personal counselling	20
4	To identify different Discuss opportunities	Seminars	12
5	project report relating to a small business	Personal counselling	10

31.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

31.4 Course Outcome

CO-1	Understand key concepts from economic, political, and social analysis as they pertain to the design.
CO-2	Appreciate concepts and methods from ecological and physical sciences and their application in environmental problem solving.
CO-3	Appreciate the ethical, cross-cultural, and historical context of environmental issues and the links between human and natural systems.
CO-4	Reflect critically about their roles and identities as citizens, consumers and environmental actors in a complex, interconnected world.

31.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	0	0	0	0	0	0	0	0	3
CO-2	2	0	0	0	0	0	0	0	0	0
CO-3	0	0	0	0	0	0	0	0	0	0
CO-4	0	0	0	3	0	0	0	0	0	0

31.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	2	1	0	0	0
CO-2	0	2	2	0	0	0
CO-3	0	0	0	2	0	0
CO-4	0	0	2	0	0	0

Publication design(P)

32.1 Course Overview

1	Course	Core
2	Course Type	Practical
3	Course Code	DBOC602
4	Credit	6
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	144
9	Hours per Week	6
10	Number of Experiments	15
11	Total Week to complete	15
Distribution of Internal Marks		
12	Attendance	2
13	Record	4
14	Assessment Test	4 (1 × 4 = 1)

32.2 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Practical Record	Internal Assessment
3	Experimental Skill	Internal Assessment
4	University Examination	External Assessment

32.3 Course Outcome

CO-1	Enables to have the theoretical base in E commerce, Internet business, Internet and E-business, E-commerce websites.
CO-2	Capable of buying things online from E commerce sites by using all its applications.
CO-3	Capable of creating websites for business purposes.
CO-4	Maintenance of website Uploading of file, importance of file name, making a post, post title.

32.4 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	0	0	0	2	0	0	0	0
CO-2	2	0	0	0	0	0	0	0	0	0
CO-3	0	0	2	2	0	0	0	0	0	0
CO-4	2	0	0	0	0	3	0	0	3	3

32.5 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	2	2	0	0	0
CO-2	0	2	1	0	0	0
CO-3	0	2	2	0	0	0
CO-4	0	0	0	2	0	0

Costing for printing press

33.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	DBOC603
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	72
9	Hours per Week	4
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

33.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Basics of Accounting	Lecturing, questioning	10
2	Cost Accounting. Elements of Cost	Lecturing, questioning	20
3	Elements of Printing Cost	Presentation, Practising	20
4	Labor cost,	Presentation, Practising	12
5	Data entry using software	Lecturing, questioning	10

33.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

33.4 Course Outcome

CO-1	To obtain estimates on costs involved in a variety of print jobs
CO-2	The students will be having the detailed knowledge of different conventional and non conventional printing and packaging materials
CO-3	Able to conclude the labour cost is the “people costs” involved in operating a business
CO-4	The student having the ability to make the Printing cost calculated on the basis of the time required.

33.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	0	0	0	1	0	0	0	0
CO-2	0	0	0	0	0	0	0	0	0	3
CO-3	1	0	0	0	0	0	0	0	0	2
CO-4	0	0	2	0	0	0	0	0	0	0

33.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	0	2	0	0	0
CO-2	0	2	2	0	0	0
CO-3	0	2	1	0	0	0
CO-4	0	2	2	0	0	0

Printing Press management system(P)**34.1 Course Overview**

1	Course	Core
2	Course Type	Practical
3	Course Code	DBOC604
4	Credit	6
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	144
9	Hours per Week	6
10	Number of Experiments	15
11	Total Week to complete	15
Distribution of Internal Marks		
12	Attendance	2
13	Record	4
14	Assessment Test	4 (1 × 4 = 1)

34.2 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Practical Record	Internal Assessment
3	Experimental Skill	Internal Assessment
4	University Examination	External Assessment

34.3 Course Outcome

CO-1	The students will be able to conclude about Modern Printing Systems and various perspectives associated with it
CO-2	The learning out come after completing this course is expected that students will be having detailed.
CO-3	It will help the students to get the know-how of present business aspects based on the subjective and objective calculations.
CO-4	The students will have understanding of various security printing methods and the recent trends in security printing.

34.4 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	0	0	0	0	0	0	0	0	0
CO-2	0	0	2	0	0	0	0	0	0	0
CO-3	1	0	0	0	3	0	0	0	0	0
CO-4	0	0	2	0	0	0	0	0	0	0

34.5 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	2	1	0	0	0
CO-2	0	0	0	0	3	0
CO-3	0	2	0	0	0	0
CO-4	1	2	0	0	0	0

Identity branding for printing

35.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	DBOC605
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	72
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 ($2 \times 5 = 10$)

35.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1		Lecturing, questioning	10
2		Lecturing	20
3		Chalk and talk, ICT	20
4		Chalk and talk, ICT	12
5		Chalk and talk, ICT	10

35.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

35.4 Course Outcome

CO-1	To enable students for pursuing respectable career through Self-Employment.
CO-2	To develop inter-twining competence in the field of Printing Technology.
CO-3	To impart comprehensive knowledge with extra emphasis on practice.
CO-4	To develop the skilled to manage all activities related to printing press and to train future industry professionals

35.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	0	0	0	0	0	0	0	0	0
CO-2	1	0	0	0	3	0	0	0	0	0
CO-3	0	0	2	0	0	0	0	0	0	0
CO-4	2	0	0	0	0	0	0	0	0	0

35.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	2	0	2	0	0
CO-2	1	2	0	0	0	0
CO-3	0	3	0	0	0	0
CO-4	0	2	2	0	0	0

NIL(P)**36.1 Course Overview**

1	Course	Core
2	Course Type	Practical
3	Course Code	DBOC606
4	Credit	6
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	144
9	Hours per Week	1
10	Number of Experiments	15
11	Total Week to complete	75
Distribution of Internal Marks		
12	Attendance	2
13	Record	4
14	Assessment Test	4 (1 × 4 = 1)

36.2 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Practical Record	Internal Assessment
3	Experimental Skill	Internal Assessment
4	University Examination	External Assessment

36.3 Course Outcome

CO-1	ability to understand the practical aspects in a professional design studio
CO-2	Accure a minimum of two years experience in designing field
CO-3	Ability to produce print designs
CO-4	Work in a printing press or flex printing press

36.4 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	0	0	0	2	0	0	0	0
CO-2	2	0	0	0	0	0	0	0	0	0
CO-3	0	0	2	2	0	0	0	0	0	0
CO-4	2	0	0	0	0	3	0	0	3	3

36.5 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	2	1	0	0	0
CO-2	0	2	2	0	0	0
CO-3	0	2	0	2	0	0
CO-4	1	2	0	0	0	0

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Curriculum Framework



Table of Contents

1	Dimensions and Methodology of Business Studies	1
1.1	Course Overview	1
1.2	Curriculum Structure	2
1.3	Evaluation Methods	2
1.4	Course Outcome	3
1.5	CO – PO Mapping	3
1.6	CO – PSO Mapping	3
2	Financial Accounting-1	4
2.1	Course Overview	4
2.2	Curriculum Structure	5
2.3	Evaluation Methods	5
2.4	Course Outcome	6
2.5	CO – PO Mapping	6
2.6	CO – PSO Mapping	7
3	Corporate Regulations and Administration	8
3.1	Course Overview	8
3.2	Curriculum Structure	9
3.3	Evaluation Methods	9

3.4	Course Outcome	10
3.5	CO – PO Mapping	10
3.6	CO – PSO Mapping	11
4	Banking and Insurance	12
4.1	Course Overview	12
4.2	Curriculum Structure	13
4.3	Evaluation Methods	13
4.4	Course Outcome	14
4.5	CO – PO Mapping	14
4.6	CO – PSO Mapping	15
5	Financial Accounting-2	16
5.1	Course Overview	16
5.2	Curriculum Structure	17
5.3	Evaluation Methods	17
5.4	Course Outcome	18
5.5	CO – PO Mapping	18
5.6	CO – PSO Mapping	19
6	Businesses Regulatory Framework	20
6.1	Course Overview	20
6.2	Curriculum Structure	21
6.3	Evaluation Methods	21
6.4	Course Outcome	22
6.5	CO – PO Mapping	22
6.6	CO – PSO Mapping	23
7	Business Management	24
7.1	Course Overview	24
7.2	Curriculum Structure	25

7.3	Evaluation Methods	25
7.4	Course Outcome	26
7.5	CO – PO Mapping	26
7.6	CO – PSO Mapping	27
8	Principles of Business Decisions	28
8.1	Course Overview	28
8.2	Curriculum Structure	29
8.3	Evaluation Methods	29
8.4	Course Outcome	30
8.5	CO – PO Mapping	30
8.6	CO – PSO Mapping	31
9	Corporate Accounting 1	32
9.1	Course Overview	32
9.2	Curriculum Structure	33
9.3	Evaluation Methods	33
9.4	Course Outcome	34
9.5	CO – PO Mapping	34
9.6	CO – PSO Mapping	34
10	Quantitative Techniques for Business	35
10.1	Course Overview	35
10.2	Curriculum Structure	36
10.3	Evaluation Methods	36
10.4	Course Outcome	37
10.5	CO – PO Mapping	37
10.6	CO – PSO Mapping	37
11	Financial Markets and Operations	38
11.1	Course Overview	38

11.2 Curriculum Structure	39
11.3 Evaluation Methods	39
11.4 Course Outcome	40
11.5 CO – PO Mapping	40
11.6 CO – PSO Mapping	41
12 Marketing Management	42
12.1 Course Overview	42
12.2 Curriculum Structure	43
12.3 Evaluation Methods	43
12.4 Course Outcome	44
12.5 CO – PO Mapping	44
12.6 CO – PSO Mapping	44
13 Goods and Services Tax	45
13.1 Course Overview	45
13.2 Curriculum Structure	46
13.3 Evaluation Methods	46
13.4 Course Outcome	47
13.5 CO – PO Mapping	47
13.6 CO – PSO Mapping	48
14 Corporate Accounting 2	49
14.1 Course Overview	49
14.2 Curriculum Structure	50
14.3 Evaluation Methods	50
14.4 Course Outcome	51
14.5 CO – PO Mapping	51
14.6 CO – PSO Mapping	52

15 Quantitative Techniques for Business	53
15.1 Course Overview	53
15.2 Curriculum Structure	54
15.3 Evaluation Methods	54
15.4 Course Outcome	54
15.5 CO – PO Mapping	55
15.6 CO – PSO Mapping	55
16 Entrepreneurship Development and Project Management	56
16.1 Course Overview	56
16.2 Curriculum Structure	57
16.3 Evaluation Methods	57
16.4 Course Outcome	58
16.5 CO – PO Mapping	58
16.6 CO – PSO Mapping	59
17 Financial Services	60
17.1 Course Overview	60
17.2 Curriculum Structure	61
17.3 Evaluation Methods	61
17.4 Course Outcome	62
17.5 CO – PO Mapping	62
17.6 CO – PSO Mapping	63
18 Cost Accounting-1	64
18.1 Course Overview	64
18.2 Curriculum Structure	65
18.3 Evaluation Methods	65
18.4 Course Outcome	66
18.5 CO – PO Mapping	66

18.6 CO – PSO Mapping	67
19 Environment Management and Human Rights	68
19.1 Course Overview	68
19.2 Curriculum Structure	69
19.3 Evaluation Methods	69
19.4 Course Outcome	70
19.5 CO – PO Mapping	70
19.6 CO – PSO Mapping	71
20 Financial Management	72
20.1 Course Overview	72
20.2 Curriculum Structure	73
20.3 Evaluation Methods	73
20.4 Course Outcome	74
20.5 CO – PO Mapping	74
20.6 CO – PSO Mapping	75
21 Finance and Taxation- Income Tax- I	76
21.1 Course Overview	76
21.2 Curriculum Structure	77
21.3 Evaluation Methods	77
21.4 Course Outcome	78
21.5 CO – PO Mapping	78
21.6 CO – PSO Mapping	79
22 Fundamentals of Accounting	80
22.1 Course Overview	80
22.2 Curriculum Structure	81
22.3 Evaluation Methods	81
22.4 Course Outcome	81

22.5 CO – PO Mapping	82
22.6 CO – PSO Mapping	82
23 Cost Accounting-2	83
23.1 Course Overview	83
23.2 Curriculum Structure	84
23.3 Evaluation Methods	84
23.4 Course Outcome	85
23.5 CO – PO Mapping	85
23.6 CO – PSO Mapping	85
24 Advertisements and Sales Management	86
24.1 Course Overview	86
24.2 Curriculum Structure	87
24.3 Evaluation Methods	87
24.4 Course Outcome	88
24.5 CO – PO Mapping	88
24.6 CO – PSO Mapping	89
25 Auditing and Assurance	90
25.1 Course Overview	90
25.2 Curriculum Structure	91
25.3 Evaluation Methods	91
25.4 Course Outcome	92
25.5 CO – PO Mapping	92
25.6 CO – PSO Mapping	93
26 Management Accounting	94
26.1 Course Overview	94
26.2 Curriculum Structure	95
26.3 Evaluation Methods	95

26.4 Course Outcome	96
26.5 CO – PO Mapping	96
26.6 CO – PSO Mapping	97
27 Finance and Taxation- Income Tax- II	98
27.1 Course Overview	98
27.2 Curriculum Structure	99
27.3 Evaluation Methods	99
27.4 Course Outcome	99
27.5 CO – PO Mapping	100
27.6 CO – PSO Mapping	100
28 Specialised Accounting	101
28.1 Course Overview	101
28.2 Curriculum Structure	102
28.3 Evaluation Methods	102
28.4 Course Outcome	103
28.5 CO – PO Mapping	103
28.6 CO – PSO Mapping	104
29 Organisational Behaviour	105
29.1 Course Overview	105
29.2 Curriculum Structure	106
29.3 Evaluation Methods	106
29.4 Course Outcome	107
29.5 CO – PO Mapping	107
29.6 CO – PSO Mapping	107
30 Marketing Management	108
30.1 Course Overview	108
30.2 Curriculum Structure	109

30.3 Evaluation Methods	109
30.4 Course Outcome	110
30.5 CO – PO Mapping	110
30.6 CO – PSO Mapping	111
31 Management Optimisation Techniques	112
31.1 Course Overview	112
31.2 Curriculum Structure	113
31.3 Evaluation Methods	113
31.4 Course Outcome	114
31.5 CO – PO Mapping	114
31.6 CO – PSO Mapping	115
32 Methodology for Social Science Research	116
32.1 Course Overview	116
32.2 Curriculum Structure	117
32.3 Evaluation Methods	117
32.4 Course Outcome	118
32.5 CO – PO Mapping	118
32.6 CO – PSO Mapping	119
33 Advanced Corporate Accounting	120
33.1 Course Overview	120
33.2 Curriculum Structure	121
33.3 Evaluation Methods	121
33.4 Course Outcome	122
33.5 CO – PO Mapping	122
33.6 CO – PSO Mapping	123
34 Human Resource Management	124
34.1 Course Overview	124

34.2 Curriculum Structure	125
34.3 Evaluation Methods	125
34.4 Course Outcome	126
34.5 CO – PO Mapping	126
34.6 CO – PSO Mapping	126
35 International Business and Finance	127
35.1 Course Overview	127
35.2 Curriculum Structure	128
35.3 Evaluation Methods	128
35.4 Course Outcome	129
35.5 CO – PO Mapping	129
35.6 CO – PSO Mapping	130
36 Quantitative Techniques	131
36.1 Course Overview	131
36.2 Curriculum Structure	132
36.3 Evaluation Methods	132
36.4 Course Outcome	133
36.5 CO – PO Mapping	133
36.6 CO – PSO Mapping	134
37 Strategic Management	135
37.1 Course Overview	135
37.2 Curriculum Structure	136
37.3 Evaluation Methods	136
37.4 Course Outcome	137
37.5 CO – PO Mapping	137
37.6 CO – PSO Mapping	138

38 Management Accounting	139
38.1 Course Overview	139
38.2 Curriculum Structure	140
38.3 Evaluation Methods	140
38.4 Course Outcome	141
38.5 CO – PO Mapping	141
38.6 CO – PSO Mapping	142
39 Direct Taxes-Law and Practice	143
39.1 Course Overview	143
39.2 Curriculum Structure	144
39.3 Evaluation Methods	144
39.4 Course Outcome	145
39.5 CO – PO Mapping	145
39.6 CO – PSO Mapping	145
40 International Business	146
40.1 Course Overview	146
40.2 Curriculum Structure	147
40.3 Evaluation Methods	147
40.4 Course Outcome	148
40.5 CO – PO Mapping	148
40.6 CO – PSO Mapping	149
41 Corporate Governance	150
41.1 Course Overview	150
41.2 Curriculum Structure	151
41.3 Evaluation Methods	151
41.4 Course Outcome	152
41.5 CO – PO Mapping	152

41.6 CO – PSO Mapping	152
42 Business Environment	153
42.1 Course Overview	153
42.2 Curriculum Structure	154
42.3 Evaluation Methods	154
42.4 Course Outcome	155
42.5 CO – PO Mapping	155
42.6 CO – PSO Mapping	156
43 Advanced Cost Accounting	157
43.1 Course Overview	157
43.2 Curriculum Structure	158
43.3 Evaluation Methods	158
43.4 Course Outcome	159
43.5 CO – PO Mapping	159
43.6 CO – PSO Mapping	160
44 Direct taxes - Assessment and Procedures	161
44.1 Course Overview	161
44.2 Curriculum Structure	162
44.3 Evaluation Methods	162
44.4 Course Outcome	163
44.5 CO – PO Mapping	163
44.6 CO – PSO Mapping	164
45 International Finance	165
45.1 Course Overview	165
45.2 Curriculum Structure	166
45.3 Evaluation Methods	166
45.4 Course Outcome	167

45.5 CO – PO Mapping	167
45.6 CO – PSO Mapping	167
46 Financial Markets and Derivatives	168
46.1 Course Overview	168
46.2 Curriculum Structure	169
46.3 Evaluation Methods	169
46.4 Course Outcome	170
46.5 CO – PO Mapping	170
46.6 CO – PSO Mapping	171
47 Security Analysis and Portfolio Management	172
47.1 Course Overview	172
47.2 Curriculum Structure	173
47.3 Evaluation Methods	173
47.4 Course Outcome	173
47.5 CO – PO Mapping	174
47.6 CO – PSO Mapping	174
48 Project(P)	175
48.1 Course Overview	175
48.2 Evaluation Methods	176
48.3 Course Outcome	176
48.4 CO – PO Mapping	176
48.5 CO – PSO Mapping	177
49 Viva(P)	178
49.1 Course Overview	178
49.2 Evaluation Methods	179
49.3 Course Outcome	179
49.4 CO – PO Mapping	179



Dimensions and Methodology of Business Studies

1.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	CO1CRT01
4	Credit	2
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	54
9	Hours per Week	3
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

1.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Business and Environment	Chalk and talk, ICT	10
2	Business in India	Chalk and talk	10
3	Technology Integration in Business	Chalk and talk	14
4	Business Ethics	Chalk and talk	10
5	Business Ethics	Chalk and talk	10

1.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

1.4 Course Outcome

CO-1	To understand business and its role in society
CO-2	To have an understanding of Business ethics and CSR
CO-3	To familiarise Technology integration in business
CO-4	To comprehend the business environment and various dimensions
CO-5	To introduce the importance and fundamentals of business research

1.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	0	0	3	3	0	0	0	0
CO-2	0	0	3	0	2	0	0	0	1	0
CO-3	2	0	0	0	3	2	0	0	3	0
CO-4	3	0	0	0	3	0	0	0	0	0
CO-5	2	1	2	0	0	2	0	0	1	0

1.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	2	2	3	3	2	2
CO-2	3	2	1	2	3	2
CO-3	2	3	1	2	3	1
CO-4	3	2	1	2	3	1
CO-5	1	2	3	3	2	2

Financial Accounting-1

2.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	CO1CRT02
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

2.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Preparation of financial statements	Chalk and talk	20
2	Accounting of incomplete records	Chalk and talk	10
3	Royalty Accounts	Chalk and talk	10
4	Accounting for consignment	Chalk and talk	10
5	Farm Accounts	Chalk and talk	10

2.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

2.4 Course Outcome

CO-1	Be able to prepare financial statements in accordance with appropriate standards.
CO-2	Be able to acquire knowledge about single entry system of accounting
CO-3	Be able to prepare royalty accounts
CO-4	Be able to know in detail the preparation of accounting for consignment
CO-5	Be able to know in detail the preparation of farm account

2.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	1	3	2	1	3	2	3	2	2
CO-2	2	3	2	1	2	2	2	2	3	1
CO-3	2	3	2	2	1	2	3	1	2	3
CO-4	2	1	2	3	2	1	2	2	1	2
CO-5	3	1	2	2	1	3	3	1	1	1

2.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	3	3	3	2	2	1
CO-2	2	3	2	2	1	3
CO-3	1	3	2	2	1	2
CO-4	1	3	1	2	3	2
CO-5	2	2	1	1	1	1

Corporate Regulations and Administration

3.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	CO1CRT03
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	72
9	Hours per Week	4
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

3.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Company	Chalk and talk, ICT	10
2	Promotiona and formation of a company	Chalk and talk ,ICT	12
3	Share capital	Chalk and talk	15
4	Membership in company and meetings	Chalk and talk	20
5	Winding up	Chalk and talk	15

3.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

3.4 Course Outcome

CO-1	To make the students understand about corporate law prevailing in the country
CO-2	To equip the students with proper knowledge about the different stages in the formation of a company.
CO-3	To enable the students to familiarize the various aspects related to share capital of corporate entities.
CO-4	To develop an understanding about the different facets in relation to company membership and company meetings for governance and administration
CO-5	To give students an understanding of the principles and rules connecting with winding up of companies

3.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	1	2	2	3	3	2	2	2	3	3
CO-2	3	1	1	1	3	1	1	3	2	3
CO-3	3	1	1	2	2	1	1	1	2	1
CO-4	3	2	3	2	1	3	1	1	2	2
CO-5	3	1	2	2	1	3	3	1	1	1

3.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	0	0	3	0	0
CO-2	3	0	0	0	0	0
CO-3	0	0	0	0	0	3
CO-4	0	0	3	0	0	0
CO-5	0	0	0	0	0	0

Banking and Insurance

4.1 Course Overview

1	Course	Complementary
2	Course Type	Theory
3	Course Code	CO1CMT01
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	72
9	Hours per Week	4
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

4.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Introduction to Banking	Chalk and talk, ICT	15
2	Innovations and Reforms in Banking	Chalk and talk, ICT	18
3	Banker and Customer	Chalk and talk, ICT	15
4	Insurance	Chalk and talk	9
5	Types of insurance	Chalk and talk	15

4.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

4.4 Course Outcome

CO-1	Students will get knowledge about the historic milestones of banking system
CO-2	Get informed about reforms and innovations in banking sector.
CO-3	Able to get relationships between banker and customer and about negotiable instruments.
CO-4	Get advanced knowledge regarding insurance.
CO-5	Able to get practical aspects of different types of insurance.

4.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	1	3	2	1	3	2	3	2	2
CO-2	2	3	2	1	2	2	2	2	3	1
CO-3	2	3	2	2	1	2	3	1	2	3
CO-4	2	1	2	3	2	1	2	2	1	2
CO-5	2	3	1	2	2	1	2	1	2	3

4.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	2	1	3	2	1	3
CO-2	2	3	2	1	2	2
CO-3	2	3	2	2	1	2
CO-4	2	1	2	3	2	1
CO-5	2	3	1	2	2	1

Financial Accounting-2

5.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	CO2CRT04
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

5.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Accounting for hire purchase	Chalk and talk	25
2	Branch accounts	Chalk and talk	20
3	departmental Accounts	Chalk and talk	10
4	Accounting for dissolution of partnership firms	Chalk and talk	25
5	Accountin g standards	Chalk and talk	10

5.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

5.4 Course Outcome

CO-1	Able to understand different aspects of hire purchase system.
CO-2	Be able to acquire knowledge about dealing with branch accounting system
CO-3	Be able to understand various aspects of dealing with departmental accounts system
CO-4	Be able to know how to deal with dissolution of partnership firm.
CO-5	Be able to know the applicability of accounting standards.

5.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	2	2	3	1	2	2	2	1	2
CO-2	3	1	2	2	3	1	1	2	1	2
CO-3	3	1	1	1	3	1	1	2	3	1
CO-4	3	3	1	1	2	3	1	3	3	1
CO-5	1	2	2	1	2	2	1	1	1	1

5.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	2	3	2	3	1	1
CO-2	2	3	2	2	1	1
CO-3	2	3	1	1	2	2
CO-4	2	3	1	1	2	2
CO-5	3	0	0	0	0	0

Businesses Regulatory Framework

6.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	CO2CRT05
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	72
9	Hours per Week	4
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

6.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Introduction to mercantile law	Chalk and talk	25
2	Special contracts -1	Chalk and talk	15
3	Special contracts -11	Chalk and talk	10
4	Law of agency	Chalk and talk	12
5	sale of goods act,1930	Chalk and talk	10

6.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

6.4 Course Outcome

CO-1	To enable the learners to appreciate the importance of business law to individuals and business organisations and to identify the essential legal principles of law of contract.
CO-2	To provide basic knowledge about Special types of contracts - Bailment and pledge.
CO-3	To energises the learner with basic knowledge about Special types of contracts - Indemnity and guarantee.
CO-4	To equip the students with proper knowledge about the legal maxims of contract of agency.
CO-5	To familiarise the students with proper knowledge about the sale of Goods act 1930

6.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	0	0	0	0	0	0	0	0
CO-2	0	0	0	0	0	3	0	0	0	0
CO-3	0	0	0	3	0	0	0	0	0	0
CO-4	0	0	0	0	0	0	0	0	3	0
CO-5	3	0	0	0	0	0	0	0	0	0

6.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	0	3	0	0	0
CO-2	0	0	0	3	0	0
CO-3	0	0	0	0	0	3
CO-4	0	3	0	0	0	0
CO-5	0	3	0	0	0	0

Business Management

7.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	CO2CRT06
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	54
9	Hours per Week	3
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

7.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Management	Chalk and talk	12
2	Planning	Chalk and talk	8
3	Organising and Staffing	Chalk and talk	12
4	Directing	Chalk and talk	12
5	Controlling	Chalk and talk	10

7.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

7.4 Course Outcome

CO-1	Students must be able to grasp with concepts and principles of management.
CO-2	Students must be capable of realising the relevance of Planning in Business and also in daily life.
CO-3	Students should be talented in the structural relations of an organisation.
CO-4	Students should be proficient in various leadership styles and qualities required for a leader.
CO-5	Students should be skilled in various modern management techniques and their applications.

7.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	1	3	2	1	3	2	3	2	2
CO-2	2	3	2	1	2	2	2	2	3	1
CO-3	2	3	2	2	1	2	3	1	2	3
CO-4	2	1	2	3	2	1	2	2	1	2
CO-5	2	3	1	2	2	1	2	1	2	3

7.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	2	2	3	3	2	2
CO-2	3	2	1	2	3	2
CO-3	2	3	1	2	3	1
CO-4	3	2	1	2	3	1
CO-5	1	2	3	3	2	2

Principles of Business Decisions

8.1 Course Overview

1	Course	Complementary
2	Course Type	Theory
3	Course Code	CO2CMT02
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	72
9	Hours per Week	4
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

8.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Introduction	Chalk and talk	10
2	Demand Theory	Chalk and talk, ICT	20
3	Production Analysis	Chalk and talk, ICT	12
4	Cost Analysis	Chalk and talk, ICT	8
5	Pricing in Different Markets	Chalk and talk, ICT	22

8.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

8.4 Course Outcome

CO-1	To develop understanding on the economic concepts.
CO-2	To get a basic understanding of the business decisions and its process.
CO-3	To familiarise the theories of demand and its forecasting.
CO-4	To develop a sound knowledge about the cost and pricing of products.
CO-5	To develop a sound understanding about the cost and pricing of products.

8.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	2	2	2	2	2	2	2	2	3
CO-2	3	2	1	2	1	2	1	2	1	3
CO-3	3	2	1	2	1	2	1	2	1	3
CO-4	3	2	1	2	1	2	1	2	1	3
CO-5	3	2	1	2	1	2	1	2	1	3

8.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	3	0	3	3	2	1
CO-2	3	0	2	2	2	1
CO-3	3	0	3	3	2	1
CO-4	3	0	3	3	2	1
CO-5	3	0	3	3	2	1

Corporate Accounting 1

9.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	CO3CRT07
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

9.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Accounting for Shares	Chalk and talk, ICT	20
2	Underwriting of Shares and Debentures	Chalk and talk, ICT	10
3	Final Accounts of Joint Stock Companies	Chalk and talk	30
4	Investment Account	Chalk and talk, ICT	15
5	Insurance claims	Chalk and talk	15

9.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

9.4 Course Outcome

CO-1	Able to familiarize with accounting procedures of shares of companies
CO-2	Get acquaint with underwriting accounting.
CO-3	Helps to equip with the finalization of company accounts.
CO-4	Able to get up to date with investment methodology and accounting.
CO-5	Helps to make aware of lodging of Insurance claims.

9.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	1	3	2	1	3	2	3	2	2
CO-2	2	3	2	1	2	2	2	2	3	1
CO-3	2	3	2	2	1	2	3	1	2	3
CO-4	2	1	2	3	2	1	2	2	1	2
CO-5	2	3	1	2	2	1	2	1	2	3

9.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	2	2	3	3	2	2
CO-2	3	2	1	2	3	2
CO-3	2	3	1	2	3	1
CO-4	3	2	1	2	3	1
CO-5	1	2	3	3	2	2

Quantitative Techniques for Business

10.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	CO3CRT08
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

10.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Introduction to statistics	Chalk and talk	8
2	Statistical survey	Chalk and talk	25
3	Univariate data analysis-1	Chalk and talk	20
4	Univariate data analysis-11	Chalk and talk, ICT	25
5	Interpolation and extrapolation	Chalk and talk	12

10.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

10.4 Course Outcome

CO-1	To familiarizes the concept of statistics
CO-2	To introduce the students about the concept and methods of sampling
CO-3	To provide practical exposure on calculation of measures of central tendency and dispersion
CO-4	To provide practical exposure on calculation of Extrapolation
CO-5	To provide practical exposure on calculation of Interpolation.

10.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	0	0	3	1	0	0	2	0
CO-2	2	0	0	0	0	2	0	0	0	0
CO-3	0	0	0	3	0	0	0	0	0	3
CO-4	0	0	0	3	0	0	0	0	0	0
CO-5	2	3	1	2	2	1	2	1	2	3

10.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	2	2	0	0	0
CO-2	0	0	1	0	3	0
CO-3	3	0	0	0	3	0
CO-4	3	0	0	0	3	0
CO-5	3	0	0	0	3	0

Financial Markets and Operations

11.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	CO3CRT09
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	72
9	Hours per Week	4
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

11.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Indian Financial System	Chalk and talk	16
2	Primary Market	Chalk and talk, ICT	14
3	Secondary Market	Chalk and talk, ICT	18
4	Mutual Funds	Chalk and talk, ICT	12
5	Derivatives	Chalk and talk	12

11.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

11.4 Course Outcome

CO-1	The students should be familiarised with financial system prevailing in India.
CO-2	The students must be acquainted with the capital market operations in India.
CO-3	The students should be aware of the constitution and benefits of Mutual Fund
CO-4	The students must be provided with the basics of derivative Trading.
CO-5	The students must be acquainted with the money market operations in India.

11.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	1	3	2	1	3	2	3	2	2
CO-2	2	3	2	1	2	2	2	2	3	1
CO-3	2	3	2	2	1	2	3	1	2	3
CO-4	2	1	2	3	2	1	2	2	1	2
CO-5	2	1	2	3	2	1	2	2	1	2

11.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	2	2	3	3	2	2
CO-2	3	2	1	2	3	2
CO-3	2	3	1	2	3	1
CO-4	3	2	1	2	3	1
CO-5	2	1	2	3	2	1

Marketing Management

12.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	CO3CRT10
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	54
9	Hours per Week	3
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

12.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Marketing Management	Chalk and talk, ICT	12
2	Product Mix	Chalk and talk, ICT	12
3	Price Mix	Chalk and talk, ICT	12
4	Physical Distribution Mix	Chalk and talk, ICT	12
5	Recent Trends in Marketing	Chalk and talk	6

12.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

12.4 Course Outcome

CO-1	To develop understanding the concepts of marketing.
CO-2	To get a basic understanding of the product and its pricing.
CO-3	To familiarise the logistics connected with marketing of products and services.
CO-4	To develop sound knowledge and understanding about the recent trends in marketing.
CO-5	To get a basic understanding of the product and its pricing.

12.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	1	1	1	2	3	2	2	1	2
CO-2	3	1	1	1	2	3	2	2	1	2
CO-3	3	1	1	1	2	3	2	2	1	2
CO-4	3	1	1	1	2	3	2	2	1	1
CO-5	3	1	1	1	2	3	2	2	1	1

12.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	3	2	2	3	2	1
CO-2	3	3	2	3	2	1
CO-3	3	2	2	3	2	1
CO-4	1	1	1	0	1	1
CO-5	1	1	1	0	1	1

Goods and Services Tax**13.1 Course Overview**

1	Course	Optional
2	Course Type	Theory
3	Course Code	CO3OCT01
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

13.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Stages of evolution of GST	Chalk and talk	30
2	Levy and collection of tax	Chalk and talk	20
3	Registration	Chalk and talk	15
4	Assessment	Chalk and talk, ICT	15
5	Appeals	Chalk and talk	10

13.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

13.4 Course Outcome

CO-1	Be able to understand the regime of GST and Pre and post GST economy and to comprehend the principles of GST and objective of taxation and
CO-2	Be able to know the incidence and imposing of GST on the different dealers in the market oriented economy
CO-3	Be able to recognise the time and place of the transactions on which the GST can be applied
CO-4	Be able to do the accounts for maintaining GST and keeping of ledgers online
CO-5	Be able to register an organisation under GST and administering the details of the firm for GST regime and report to the authorities concerned

13.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	0	0	0	0	3	0	0	0
CO-2	3	0	0	0	0	0	3	0	0	0
CO-3	3	0	0	0	0	0	3	0	0	0
CO-4	3	0	0	0	0	0	3	0	0	0
CO-5	3	0	0	0	0	0	3	0	0	0

13.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	0	0	3	0	3
CO-2	0	0	0	3	0	3
CO-3	0	0	0	3	0	3
CO-4	0	0	0	3	0	3
CO-5	0	0	0	0	0	0

Corporate Accounting 2

14.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	CO4CRT11
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	108
9	Hours per Week	6
10	Number of Modules	6
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

14.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Accounts of Insurance Companies	Chalk and talk	20
2	Accounts of Banking Companies	Chalk and talk	20
3	Internal Reconstruction	Chalk and talk	20
4	Amalgamation, Absorption and External Reconstruction	Chalk and talk	34
5	Liquidation of Companies	Chalk and talk	14
6	Null	Null	0

14.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

14.4 Course Outcome

CO-1	Able to familiarize with accounting procedures of Insurance Companies
CO-2	Get acquaint with Accounts of Banking Companies.
CO-3	Get equipped with the procedure of internal reconstruction.
CO-4	Able to get up to date with practical knowledge of amalgamation and external reconstruction.
CO-5	Able to get practical knowledge about the liquidation proceedings of companies.

14.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	1	3	2	1	3	2	3	2	2
CO-2	2	3	2	1	2	2	2	2	3	1
CO-3	2	3	2	2	1	2	3	1	2	3
CO-4	2	1	2	3	2	1	2	2	1	2
CO-5	2	3	1	2	2	1	2	1	2	3

14.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	2	2	3	3	2	2
CO-2	3	2	1	2	3	2
CO-3	2	3	1	2	3	1
CO-4	3	2	1	2	3	1
CO-5	1	2	3	3	2	2

Quantitative Techniques for Business

15.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	CO4CRT12
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	108
9	Hours per Week	6
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

15.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Bivariate data analysis -1	Chalk and talk	22
2	Bivariate data analysis -11	Chalk and talk	20
3	Index numbers	Chalk and talk	22
4	Time series analysis	Chalk and talk	20
5	Probability	Chalk and talk	24

15.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

15.4 Course Outcome

CO-1	To provide practical exposure on calculation of measures of correlation and regression
CO-2	To provide practical exposure on calculation of probability
CO-3	To provide practical exposure on calculation of Index numbers
CO-4	To provide practical exposure on calculation of trend analysis
CO-5	To introduce the students about the concept of probability

15.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	3	0	0	0	0	0	0	0
CO-2	3	0	3	0	0	0	0	0	0	0
CO-3	3	0	0	0	0	2	0	0	0	0
CO-4	3	2	0	0	0	0	0	0	0	0
CO-5	3	2	0	0	0	0	0	0	0	0

15.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	3	0	3	0	0	0
CO-2	3	0	3	0	0	0
CO-3	3	0	3	0	0	0
CO-4	0	0	3	0	3	0
CO-5	0	0	0	0	0	0

Entrepreneurship Development and Project Management

16.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	CO4CRT13
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

16.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Introduction to Entrepreneurship	Chalk and talk	10
2	Classification of Entrepreneurs	Chalk and talk	25
3	Project Identification	Chalk and talk	15
4	Project Formulation and Report	Chalk and talk	20
5	Entrepreneurial Support in India	Chalk and talk	20

16.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

16.4 Course Outcome

CO-1	Students must be able to acquire entrepreneurial spirits.
CO-2	Students must be capable of gaining knowledge to start up their venture with confidence and familiarised with the formulation of project report.
CO-3	Students should be talented to take up challenges and become employer than seeking employment. ²
CO-4	Students should be aware of the opportunities and support for entrepreneurship in India.
CO-5	Students must be capable of gaining knowledge to start up their venture with confidence and familiarised with the formulation of project report.

16.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	3	2	2	3	3	3	3	3	2
CO-2	2	3	3	3	3	3	3	2	3	3
CO-3	2	3	3	3	3	3	3	3	3	2
CO-4	2	2	2	2	3	2	3	1	2	1
CO-5	2	2	2	2	3	2	3	1	2	1

16.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	2	2	3	3	2	2
CO-2	3	2	1	2	3	2
CO-3	2	3	1	2	3	1
CO-4	3	2	1	2	3	1
CO-5	3	2	1	2	3	1

Financial Services

17.1 Course Overview

1	Course	Optional
2	Course Type	Theory
3	Course Code	CO4OCT01
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

17.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Introduction to Financial Services	Chalk and talk	15
2	Venture Capital and Securitisation	Chalk and talk	20
3	Leasing and Factoring	Chalk and talk	20
4	Credit Rating	Chalk and talk	15
5	Mergers and Acquisition	Chalk and talk	20

17.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

17.4 Course Outcome

CO-1	To develop understanding on the Financial Services including Merchant Banking.
CO-2	To get a basic understanding of the Venture Capital, Leasing and Factoring Services.
CO-3	To familiarise Credit Rating Services.
CO-4	To develop a sound knowledge and understanding about mergers and acquisitions.
CO-5	To get a basic understanding of the Venture Capital, Leasing and Factoring Services.

17.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	2	1	1	1	2	3	2	2	1
CO-2	3	2	1	1	1	2	3	2	2	1
CO-3	3	2	1	1	1	2	3	2	2	1
CO-4	3	2	1	1	1	2	3	2	2	1
CO-5	3	2	1	1	1	2	3	2	2	1

17.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	3	0	2	3	2	1
CO-2	3	0	2	3	2	1
CO-3	3	0	2	3	2	1
CO-4	3	0	2	3	2	1
CO-5	0	0	0	0	0	0

Cost Accounting-1**18.1 Course Overview**

1	Course	Core
2	Course Type	Theory
3	Course Code	CO5CRT14
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	108
9	Hours per Week	6
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

18.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Introduction to cost accounting	Chalk and talk	18
2	Accounting and control of material costs	Chalk and talk	25
3	Accounting and control of labour costs	Chalk and talk	20
4	Accounting for overheads	Chalk and talk	25
5	Preparation of cost sheets	Chalk and talk	20

18.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

18.4 Course Outcome

CO-1	Be able to define cost concepts and differentiate the cost accounting with other types of accounting.
CO-2	Be able to determine the price of issue of material and various levels of material i.e. reorder level, minimum level, maximum level and EOQ for managing working capital.
CO-3	Be able to use methods of time-keeping and time-booking and manage idle and overtime.
CO-4	Be able to define the features of overhead or indirect cost of production and basis of allocation and apportionment
CO-5	Be able to use cost-sheet to compute unit cost of product and to Determine basis for computing tender price of a product.

18.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	0	0	0	1	0	0	0	0
CO-2	3	0	0	2	0	0	0	0	0	0
CO-3	3	0	0	0	3	0	0	0	0	0
CO-4	3	0	0	0	0	3	0	0	0	0
CO-5	3	0	0	0	0	0	0	0	3	0

18.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	1	3	3	0	0	0
CO-2	1	0	3	0	0	3
CO-3	1	3	0	0	3	3
CO-4	1	0	0	0	3	3
CO-5	1	0	3	0	0	3

Environment Management and Human Righ**19.1 Course Overview**

1	Course	Core
2	Course Type	Theory
3	Course Code	CO5CRT15
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

19.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Natural Resources	Chalk and talk, ICT	18
2	Biodiversity and its conservation	Chalk and talk	26
3	Recent developments	Chalk and talk, ICT	15
4	RTI ,2005	Chalk and talk	13
5	Human Rights	Chalk and talk	18

19.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

19.4 Course Outcome

CO-1	To develop an understanding about the basic concepts of environmental sciences and extents of environmental management.
CO-2	Appreciate the environmental biodiversity and analyse the environmental issues that links between human being and natural systems.
CO-3	To understand the recent developments and practices in the field of Commerce and Management relating to environment
CO-4	To gain familiarity with the Right to information Act 2005
CO-5	To acquaint basic knowledge about human rights and develop the capacity to identify the issues and problems relating of human rights.

19.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	0	2	3	2	0	0	3	0
CO-2	3	0	0	0	0	0	0	0	0	0
CO-3	0	0	0	0	0	2	0	0	0	0
CO-4	3	0	0	0	0	0	0	0	0	0
CO-5	0	2	0	0	0	0	0	0	0	0

19.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	3	0	0	0	0	0
CO-2	0	0	3	0	0	0
CO-3	0	3	0	0	0	0
CO-4	0	0	0	3	0	0
CO-5	0	0	0	0	3	0

Financial Management

20.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	CO5CRT16
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

20.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Introduction	Chalk and talk	15
2	Financing Decision	Chalk and talk	30
3	Investment Decision	Chalk and talk	20
4	Management of working capital	Chalk and talk	15
5	Dividend Decisions	Chalk and talk	10

20.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

20.4 Course Outcome

CO-1	Be able to get an idea about the basic concepts of financial management.
CO-2	Be able to understand the different aspects of financing decision and its impact on the capital structure of a firm
CO-3	Be able to know the dimensions of investment decision and different methods of capital budgeting
CO-4	Be able to acquire knowledge about the management of working capital of a firm and about the dividend decision of a company.
CO-5	Be able to acquire knowledge about the management of working capital of a firm and about the dividend decision of a company.

20.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	1	2	3	3	3	2	1	2	2
CO-2	3	1	2	3	1	2	2	2	2	2
CO-3	3	2	1	1	1	2	2	2	1	2
CO-4	3	1	1	2	1	1	2	1	1	2
CO-5	2	2	2	1	1	1	2	3	1	0

20.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	3	2	2	3	2	0
CO-2	2	2	2	2	2	0
CO-3	3	1	2	2	2	0
CO-4	3	1	1	1	2	0
CO-5	2	1	1	1	2	0

Finance and Taxation- Income Tax- I**21.1 Course Overview**

1	Course	Optional
2	Course Type	Theory
3	Course Code	CO5OCT01
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

21.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Introduction	Chalk and talk	15
2	Residential Status	Chalk and talk	15
3	Income from salary	Chalk and talk	25
4	Income from house property	Chalk and talk	15
5	Profits and gains of business and profession	Chalk and talk	20

21.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

21.4 Course Outcome

CO-1	To introduce the basic concept of Income Tax
CO-2	In order to familiarize the different know-how and heads of income with its components
CO-3	It helps to build an idea about income from house property as a concept
CO-4	It give more idea about the income from business or profession
CO-5	It give more idea about the income from business or profession

21.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	0	2	0	0	2	0	0	0
CO-2	3	0	0	0	0	0	0	0	0	0
CO-3	3	0	0	0	0	0	0	0	0	2
CO-4	3	0	0	0	0	0	0	0	0	2
CO-5	3	0	0	0	0	0	0	0	0	2

21.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	3	0	2	3	0	0
CO-2	3	0	0	3	0	0
CO-3	3	0	0	3	0	0
CO-4	3	0	0	3	0	0
CO-5	0	0	0	0	0	0

Fundamentals of Accounting

22.1 Course Overview

1	Course	Open
2	Course Type	Theory
3	Course Code	CO4OP01
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	72
9	Hours per Week	4
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

22.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Accounting	Chalk and talk	15
2	Journal	Chalk and talk	15
3	Ledger	Chalk and talk	22
4	Trial Balance	Chalk and talk, ICT	8
5	Final Accounts	Chalk and talk	12

22.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

22.4 Course Outcome

CO-1	To develop understanding on the basics of accounting.
CO-2	To get skills in the maintaining of journal, day books and ledger.
CO-3	To get skills in the preparation of Trial balance.
CO-4	To get skills in the preparation of final accounts.
CO-5	To get skills in the preparation of final accounts.

22.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	3	1	1	1	2	3	2	2	1
CO-2	3	3	1	1	1	2	3	2	2	1
CO-3	3	3	1	1	1	2	3	2	2	1
CO-4	3	3	1	1	1	2	3	2	2	1
CO-5	3	3	1	1	1	2	3	2	2	1

22.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	3	3	2	2	2	0
CO-2	3	3	2	2	2	0
CO-3	3	3	2	2	2	0
CO-4	3	3	2	2	2	0
CO-5	0	0	0	0	0	0

Cost Accounting-2**23.1 Course Overview**

1	Course	Core
2	Course Type	Theory
3	Course Code	CO6CRT17
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	108
9	Hours per Week	6
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

23.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Specific order costing	Chalk and talk	20
2	Operating costing	Chalk and talk	15
3	Process costing	Chalk and talk	24
4	Marginal costing and BEA	Chalk and talk	25
5	Budget and budgetary control	Chalk and talk, ICT	24

23.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

23.4 Course Outcome

CO-1	Be able to accumulate the different specific order costing.
CO-2	Be able to ascertain the different operational cost
CO-3	Be able to Define the process to compute total cost of a product belong to various production processes
CO-4	Be able to do the analysis of marginal costing and BEP
CO-5	Able to prepare various budgets like fixed and flexible budgets

23.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	0	0	0	0	3	2	2	0	0
CO-2	2	0	0	0	0	3	2	2	0	0
CO-3	2	0	0	0	0	3	2	2	0	0
CO-4	2	0	0	0	0	3	2	2	0	0
CO-5	2	0	0	0	0	3	2	2	0	0

23.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	2	3	2	0	0	0
CO-2	2	3	2	0	0	0
CO-3	2	3	2	0	0	0
CO-4	2	3	2	0	0	0
CO-5	2	3	2	0	0	0

Advertisements and Sales Management

24.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	CO6CRT18
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	72
9	Hours per Week	4
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 ($2 \times 5 = 10$)

24.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Introduction	Chalk and talk	18
2	Advertisement appeals and media	Chalk and talk	18
3	Advertising research	Chalk and talk	10
4	Sales promotion	Chalk and talk	18
5	Personal selling	Chalk and talk	8

24.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

24.4 Course Outcome

CO-1	To develop understanding of various facets of advertising and describe the different types of advertisement.
CO-2	Identify and develop knowledge about the most feasible advertising appeal and the media mix.
CO-3	The learner should have a basic understanding about Advertising research-especially in the areas of measuring the effectiveness of advertising.
CO-4	To examine and analyse the importance of Sales promotion and Promotion mix
CO-5	Develop sound knowledge and understanding about the concept of personal selling.

24.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	0	0	0	0	0	0	0	0
CO-2	3	0	0	0	0	0	0	0	0	0
CO-3	0	0	3	0	0	0	0	0	0	0
CO-4	0	0	0	0	0	0	0	0	3	0
CO-5	0	0	3	0	0	0	0	0	0	0

24.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	2	3	2	0	0	0
CO-2	3	0	0	0	0	0
CO-3	0	0	3	0	0	0
CO-4	0	0	0	0	0	0
CO-5	0	0	3	0	0	0

Auditing and Assurance

25.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	CO6CRT19
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

25.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Introduction	Chalk and talk	17
2	Audit engagement, documentation and evidence	Chalk and talk	15
3	Internal control	Chalk and talk	25
4	Audit of limited companies	Chalk and talk	15
5	Special audits and investigation	Chalk and talk	18

25.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

25.4 Course Outcome

CO-1	Able to understand the basics of auditing and different types of auditing.
CO-2	To acquire knowledge about how to conduct auditing in a systematic way
CO-3	Be able to identify the importance of internal check in an organisation
CO-4	Be able to understand how to conduct auditing in a limited company.
CO-5	Be able to understand how to conduct auditing in a limited company.

25.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	2	2	1	2	1	2	3	1	2
CO-2	3	1	1	2	2	1	2	3	2	2
CO-3	3	1	2	2	2	2	2	2	1	2
CO-4	3	2	2	3	2	2	2	1	2	3
CO-5	1	1	1	1	2	1	2	1	1	2

25.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	2	3	1	3	2	0
CO-2	3	3	2	2	2	0
CO-3	3	3	1	2	2	0
CO-4	3	1	2	1	2	0
CO-5	3	1	1	1	2	0

Management Accounting

26.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	CO6CRT20
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

26.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Introduction to Management Accounting	Chalk and talk	20
2	Financial Statement Analysis	Chalk and talk	10
3	Ratio Analysis	Chalk and talk	30
4	Fund flow Analysis	Chalk and talk	15
5	Cash Flow Statement	Chalk and talk, ICT	15

26.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

26.4 Course Outcome

CO-1	Students should be aware of the theory base of Management Accounting.
CO-2	Students should be capable with management accounting techniques for the analysis and Interpretation of financial statements.
CO-3	Students should be talented in the application of various accounting ratios.
CO-4	Students should be equipped to solve various problems related to Fund flow and Cash flow statements.
CO-5	Students should be talented in the application of various accounting ratios.

26.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	2	1	1	3	3	0	0	1	1
CO-2	1	3	1	1	3	2	0	0	1	1
CO-3	2	2	1	1	3	1	0	0	2	1
CO-4	2	2	1	1	3	2	0	0	1	0
CO-5	2	2	1	1	3	2	0	0	1	0

26.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	3	3	3	3	2	0
CO-2	2	3	2	3	1	0
CO-3	3	2	2	3	1	0
CO-4	2	1	1	2	1	0
CO-5	0	0	0	0	0	0

Finance and Taxation- Income Tax- II**27.1 Course Overview**

1	Course	Optional
2	Course Type	Theory
3	Course Code	CO6OCT01
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

27.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Capital gains	Chalk and talk	20
2	Income from other sources	Chalk and talk	10
3	Clubbing of income	Chalk and talk	25
4	Assessment of individuals	Chalk and talk	20
5	Income tax authorities	Chalk and talk	15

27.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

27.4 Course Outcome

CO-1	To develop an idea about capital gain among students
CO-2	To enlighten the concept of income from other source
CO-3	Enabling the students to have a fair idea on set-off and carry forward of losses
CO-4	To determine the concept of assessment of individual
CO-5	To determine the concept of assessment of individual

27.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	0	2	0	0	2	0	0	0
CO-2	3	0	0	0	0	0	0	0	0	2
CO-3	3	0	0	0	0	0	0	0	0	2
CO-4	3	0	0	0	0	0	0	0	2	2
CO-5	3	0	0	0	0	0	0	0	2	2

27.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	3	0	2	3	0	0
CO-2	3	0	0	3	0	0
CO-3	3	0	0	3	0	0
CO-4	3	0	0	3	0	0
CO-5	0	0	0	0	0	0

Specialised Accounting

28.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	CM010101
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	150
7	Internal Assessment	30
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

28.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Accounting standards	Chalk and talk	25
2	Valuation of goodwill and shares	Chalk and talk	15
3	Accounting for amalgamation	Chalk and talk, ICT	30
4	Accounting for NBFC	Chalk and talk	10
5	Developments in Accounting	Chalk and talk	10

28.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

28.4 Course Outcome

CO-1	Providing an in depth understanding about theoretical and practical aspects of major Accounting Standards to apply the same in different practical situations
CO-2	Ascertain the value of goodwill and value of companies based on the value of shares and compare the real value of shares and with the market prices and identify the mispricing.
CO-3	In depth understanding about the determination of purchase consideration in
CO-4	Develop a clear understanding about different types of NBFCs, the provisioning norms and to understand the concept of NAV of mutual funds through
CO-5	to understand the concept of NAV of mutual funds through

28.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	2	2	2	3	2	3	2	2	3
CO-2	3	2	2	3	3	2	2	2	2	3
CO-3	3	1	2	2	2	1	2	2	1	1
CO-4	3	1	2	2	2	1	1	2	1	1
CO-5	2	3	1	1	1	3	1	2	1	1

28.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	3	1	2	3	2	2
CO-2	3	1	2	1	2	2
CO-3	3	3	1	2	2	3
CO-4	3	2	1	1	2	1
CO-5	1	2	2	2	2	1

Organisational Behaviour

29.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	CM010102
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	150
7	Internal Assessment	30
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

29.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Meaning and definition of Organisation Behaviour	Chalk and talk	15
2	Concept of Human Behaviour	Chalk and talk	25
3	Transactional Analysis	Chalk and talk	25
4	Organisational Change	Chalk and talk	15
5	Concept and determinants of organizational culture	Chalk and talk	10

29.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

29.4 Course Outcome

CO-1	Basic understanding about the concepts of oB
CO-2	A very good understanding about individual behaviour and motivation
CO-3	Imparting deep understanding about group behaviour and leadership
CO-4	Add the knowledge base of the learner regarding
CO-5	the role of organisational culture and conflict

29.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	2	2	2	3	2	3	2	2	3
CO-2	3	2	2	3	3	2	2	2	2	3
CO-3	3	1	2	2	2	1	2	2	1	1
CO-4	3	1	2	2	2	1	1	2	1	1
CO-5	2	3	1	1	1	3	1	2	1	1

29.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	3	1	2	3	2	2
CO-2	3	1	2	1	2	2
CO-3	3	3	1	2	2	3
CO-4	3	2	1	1	2	1
CO-5	1	2	2	2	2	1

Marketing Management

30.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	CM010103
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	150
7	Internal Assessment	30
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

30.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Marketing Management-An Over view	Chalk and talk	25
2	Segmentation, Targeting and product positioning	Chalk and talk	20
3	Consumer Behaviour	Chalk and talk	10
4	Product and Brand Management	Chalk and talk	25
5	Service Marketing	Chalk and talk	10

30.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

30.4 Course Outcome

CO-1	Be able to made aware about marketing theories
CO-2	The learner should get a clear understanding about the market segmentation process and its applications in marketing strategies.
CO-3	Develop an idea about consumer behaviour and its impact.
CO-4	Good understanding about product line, product mix, brand equity, brand identity, brand personality and brand image.
CO-5	Develop sound ideas regarding services marketing and service quality.

30.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	0	0	0	0	0	0	0	0
CO-2	0	0	3	0	0	0	0	0	0	0
CO-3	3	0	0	0	0	0	0	0	0	0
CO-4	3	0	0	0	0	0	0	0	0	0
CO-5	0	0	3	0	0	0	0	0	0	0

30.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	3	0	0	3	0	0
CO-2	3	0	0	3	0	0
CO-3	3	0	0	3	0	0
CO-4	3	0	0	3	0	0
CO-5	3	0	0	3	0	0

Management Optimisation Techniques

31.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	CM010104
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	150
7	Internal Assessment	30
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

31.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Introduction to Optimisation Techniques	Chalk and talk	7
2	Linear Programing	Chalk and talk	25
3	Transportation and assignment problems	Chalk and talk	20
4	Decision Theory	Chalk and talk	20
5	Network analysis	Chalk and talk	18

31.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

31.4 Course Outcome

CO-1	Develop theoretical understanding about various business optimization models
CO-2	Ability to develop Linear Programming Models for business problems and Solve the same
CO-3	Application of Linear Programming in the areas of transportation , assignment and decision making
CO-4	Understand and apply network analysis techniques for project implementation.
CO-5	Develop theoretical understanding about various business optimization models

31.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	0	0	0	0	3	0	0	0
CO-2	3	3	0	0	0	0	0	0	2	0
CO-3	3	0	0	1	0	0	0	0	0	0
CO-4	2	0	1	0	0	2	0	0	0	0
CO-5	2	0	1	0	0	2	0	0	0	0

31.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	3	0	0	0	3	3
CO-2	2	0	0	0	2	0
CO-3	3	0	0	0	3	3
CO-4	3	0	0	0	3	3
CO-5	0	0	0	0	0	0

Methodology for Social Science Research**32.1 Course Overview**

1	Course	Core
2	Course Type	Theory
3	Course Code	CM010105
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	150
7	Internal Assessment	30
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

32.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Social Science Research and Introduction		15
2	Research Problem and Design	Chalk and talk	20
3	Sampling Design	Chalk and talk	15
4	Instrument Development and Data Collection	Chalk and talk	25
5	Interpretation and Research Reporting	Chalk and talk	15

32.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

32.4 Course Outcome

CO-1	Develop a thorough understanding about the basic concepts of social science research
CO-2	After completing this module, the learner should be able to formulate a research
CO-3	After studying the theoretical aspects of sampling design, the learner should be able to draw a sampling design.
CO-4	Detailed knowledge about the instrument development, its validation and different forms of scaling.
CO-5	Able to do the technical report writing

32.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	3	3	0	0	0	0	0	0
CO-2	0	0	3	0	0	0	0	0	0	0
CO-3	0	0	3	3	0	0	0	0	0	0
CO-4	0	0	3	3	0	0	0	0	0	0
CO-5	0	0	3	3	3	0	0	0	0	0

32.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	0	3	0	0	3
CO-2	0	0	3	0	0	3
CO-3	0	0	3	0	0	3
CO-4	0	0	3	0	0	3
CO-5	0	0	0	0	0	0

Advanced Corporate Accounting

33.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	CM010201
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	150
7	Internal Assessment	30
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

33.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Accounts of holding companies	Chalk and talk	27
2	Accounts of Public Utility Undertakings	Chalk and talk	20
3	Bankruptcy Code 2016	Chalk and talk	10
4	Liquidation of Companies	Chalk and talk	18
5	Accounting for Specialized Businesses	Chalk and talk	15

33.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

33.4 Course Outcome

CO-1	The learner should be able to prepare consolidated financial statements of group companies.
CO-2	Preparation of the financial statements of public utility companies and deal with the disposal of surplus.
CO-3	Develop and awareness on the procedure of bankruptcy under the recent Bankruptcy Procedure Code.
CO-4	Familiarizing the learner with the accounting procedures of liquidation of companies and preparation of various statements required as per the Companies Act.
CO-5	Basic understanding about the preparation of accounts of some special lines of businesses like shipping, hospitals and hotels.

33.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	1	3	2	1	3	2	1	3	0
CO-2	2	3	2	1	2	2	1	2	2	0
CO-3	2	3	2	2	1	2	2	1	2	0
CO-4	2	1	2	3	2	1	3	2	1	0
CO-5	2	3	1	2	2	1	2	2	1	0

33.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	2	2	3	3	2	2
CO-2	3	2	1	2	3	2
CO-3	2	3	1	2	3	1
CO-4	3	2	1	2	3	1
CO-5	1	2	3	3	2	2

Human Resource Management

34.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	CM010202
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	150
7	Internal Assessment	30
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

34.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Human Resource Management	Chalk and talk, ICT	20
2	Human Resource Development	Chalk and talk	18
3	Training and Concept of Training	Chalk and talk, ICT	17
4	Performance Appraisal and Industrial Relations	Chalk and talk, ICT	20
5	HR Outsourcing	Chalk and talk	15

34.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

34.4 Course Outcome

CO-1	Be able to acquaint with Concepts of HRM
CO-2	Be able to Understand HRM Developmet , Stress amnagemnt Etc.
CO-3	Be able to Highe level knowledge about training
CO-4	Be able know the industrial relations
CO-5	Be able to understand the HR outsourcing, HR audit

34.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	3	0	0	3	0	0	0	0
CO-2	0	0	3	0	0	3	0	0	0	0
CO-3	0	0	3	0	0	3	0	0	0	0
CO-4	0	0	3	0	0	3	0	0	0	0
CO-5	0	0	3	0	0	3	0	0	0	0

34.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	2	2	3	3	2	2
CO-2	3	2	1	2	3	2
CO-3	2	3	1	2	3	1
CO-4	3	2	1	2	3	1
CO-5	1	2	0	0	2	2

International Business and Finance**35.1 Course Overview**

1	Course	Core
2	Course Type	Theory
3	Course Code	CM010203
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	150
7	Internal Assessment	30
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

35.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Basics of International Business	Chalk and talk, ICT	18
2	International Trade	Chalk and talk	18
3	International Economic Institutions	Chalk and talk, ICT	18
4	International Monetary System	Chalk and talk, ICT	18
5	International Investments	Chalk and talk	18

35.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

35.4 Course Outcome

CO-1	Familiarisation with globalisation, internationalisation of business and the international business environment. .
CO-2	Understanding about theories of international trade, trade barriers and trade block
CO-3	Imparting idea about various economic institutions related to international trade. Understanding
CO-4	Achieve high level knowledge about various aspects of international monetary system.
CO-5	Develop an understanding about the international investment environment.

35.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	3	0	0	3	0	0	0	0
CO-2	0	0	3	0	0	3	0	0	0	0
CO-3	0	0	3	0	0	3	0	0	0	0
CO-4	0	0	3	0	0	3	0	0	0	0
CO-5	0	0	3	0	0	3	0	0	0	0

35.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	3	0	0	0	0	3
CO-2	3	0	0	0	0	3
CO-3	3	0	0	0	0	3
CO-4	3	0	0	0	0	3
CO-5	3	0	0	0	0	3

Quantitative Techniques

36.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	CM010204
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	150
7	Internal Assessment	30
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

36.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Introduction to Quantitative Techniques	Chalk and talk, ICT	20
2	Statistical Inference	Chalk and talk	30
3	Non parametric tests	Chalk and talk, ICT	20
4	Statistical Quality Control	Chalk and talk, ICT	12
5	Introduction to Multivariate analysis	Chalk and talk, ICT	8

36.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

36.4 Course Outcome

CO-1	This course intends to give understanding about the applications of quantitative techniques.
CO-2	This course intends to give understanding about the applications of quantitative techniques
CO-3	After learning this course, the student should be in a position to identify appropriate parametric test for testing the hypotheses.
CO-4	The learner should be equipped with the skills to identify the most suitable non parametric test for testing a hypothesis
CO-5	The learner should be equipped with the skills to apply the principles of SQC

36.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	0	0	0	0	0	0	0	0
CO-2	0	0	3	0	0	0	0	0	0	0
CO-3	3	0	0	0	0	0	0	0	0	0
CO-4	3	0	0	0	0	0	0	0	0	0
CO-5	0	0	3	0	0	0	0	0	0	0

36.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	0	3	0	0	3
CO-2	0	0	3	0	0	3
CO-3	0	0	3	0	0	3
CO-4	0	0	3	0	0	3
CO-5	0	0	3	0	0	3

Strategic Management

37.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	CM010205
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	150
7	Internal Assessment	30
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

37.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Introduction to Strategic Management	Chalk and talk, ICT	18
2	Environment Analysis	Chalk and talk	22
3	Strategic Formulation	Chalk and talk, ICT	22
4	Tools of Strategy Planning	Chalk and talk, ICT	12
5	Strategy implementation and Control	Chalk and talk, ICT	16

37.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

37.4 Course Outcome

CO-1	Strong understanding about the theoretical foundations of strategic management.
CO-2	Clear understanding about various models of environmental and internal analysis.
CO-3	Development of an idea about the strategy formulation process at the corporate level.
CO-4	Familiarization with various tools strategic planning and evaluation.
CO-5	Understanding about the modes of implementation and control of strategies.

37.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	3	0	2	0	0	0	0	0	0
CO-2	0	0	2	0	0	0	2	0	3	0
CO-3	0	0	0	0	0	2	0	0	0	1
CO-4	0	0	2	0	0	0	2	0	3	0
CO-5	0	0	0	0	0	2	0	0	0	1

37.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	3	0	0	3	0	0
CO-2	3	0	0	3	0	0
CO-3	3	0	0	3	0	0
CO-4	3	0	0	3	0	0
CO-5	3	0	0	3	0	0

Management Accounting

38.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	MA03C11
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	120
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

38.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Introduction	Chalk and talk, ICT	10
2	Financial Statement Analysis	Chalk and talk	10
3	Ratio Analysis	Chalk and talk, ICT	25
4	Fund flow Analysis	Chalk and talk, ICT	35
5	Inflation Accounting	Chalk and talk, ICT	10

38.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

38.4 Course Outcome

CO-1	To enlighten the students thought and knowledge on management Accounting
CO-2	Helps to give proper idea on financial statement analysis in practical point of view
CO-3	To introduce the concept of fund flow, cash flow statement and ratio analysis
CO-4	To enlighten the students thought and knowledge on management Accounting
CO-5	Be able to do the costing techniques

38.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	2	2	2	1	0	0	0	0	0
CO-2	3	2	2	3	2	0	0	0	0	0
CO-3	3	1	1	2	1	0	0	0	0	0
CO-4	3	1	1	1	1	0	0	0	0	0
CO-5	3	2	0	1	2	0	0	0	0	0

38.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	3	2	0	1	0
CO-2	0	0	2	3	2	0
CO-3	0	0	3	0	0	0
CO-4	0	0	2	3	2	0
CO-5	0	0	3	0	0	0

Direct Taxes-Law and Practice**39.1 Course Overview**

1	Course	Core
2	Course Type	Theory
3	Course Code	DT03C12
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	120
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

39.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Objective of Taxation	Chalk and talk, ICT	10
2	Heads of Income	Chalk and talk	50
3	Clubbing of income	Chalk and talk, ICT	5
4	Deduction from Gross Total Income	Chalk and talk, ICT	10
5	Assessment	Chalk and talk, ICT	15

39.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

39.4 Course Outcome

CO-1	Acquire knowledge regarding the basic concepts of Income Tax.
CO-2	Able to compute the income from salary and house property
CO-3	Determine taxable profit of a business or profession.
CO-4	Able to compute capital gain and income from other sources
CO-5	Able to calculate Gross Total Income of an individual and taxability

39.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	0	2	2	2	1	0	0	0
CO-2	3	0	0	2	2	3	2	0	0	0
CO-3	3	0	0	1	1	2	1	0	0	0
CO-4	3	0	0	1	1	1	1	0	0	0
CO-5	3	0	0	2	2	1	2	0	0	0

39.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	0	3	0	0	3
CO-2	0	0	3	0	0	3
CO-3	0	0	3	0	0	3
CO-4	0	0	3	0	0	3
CO-5	0	0	3	0	0	3

International Business**40.1 Course Overview**

1	Course	Core
2	Course Type	Theory
3	Course Code	IB03C13
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	120
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

40.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Meaning and Importance	Chalk and talk, ICT	15
2	Globalisation	Chalk and talk	20
3	International Economic Institutions	Chalk and talk, ICT	15
4	International Investment	Chalk and talk, ICT	25
5	Global Regulatory Environment	Chalk and talk, ICT	15

40.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

40.4 Course Outcome

CO-1	Be able to get an idea about the basics of international business.
CO-2	Be able to understand globalization and its impact on international business
CO-3	Be able to know about the functioning of various international economic institutions
CO-4	Be able to identify the features of international investment and global regulatory environment.
CO-5	Be able to understand globalization and its impact on international business

40.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	2	2	2	1	3	2	2	2	3
CO-2	3	2	2	3	2	2	2	2	2	1
CO-3	3	1	1	2	1	1	3	1	1	1
CO-4	3	1	1	1	1	2	3	1	1	2
CO-5	2	2	2	1	2	1	2	1	1	2

40.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	3	2	1	2	3	2
CO-2	3	2	1	2	3	2
CO-3	3	3	2	1	1	2
CO-4	3	3	3	3	1	2
CO-5	2	1	1	1	2	3

Corporate Governance

41.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	CG03C14
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	120
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

41.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Corporate governance	Chalk and talk, ICT	15
2	corporate governance and mandatory and non-mandatory requirements	Chalk and talk	20
3	corporate excellence	Chalk and talk	15
4	Business ethics	Chalk and talk	25
5	Building corporate image	Chalk and talk	15

41.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

41.4 Course Outcome

CO-1	Able to understand corporate governance.
CO-2	Able to understand the clause 49 of listing agreement by SEBI.
CO-3	Gets aware about excellence in corporate world.
CO-4	Able to get up to date with ethical way of doing business.
CO-5	Students be aware of corporate image building.

41.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	1	3	2	1	3	0	1	3	0
CO-2	2	3	2	1	2	2	0	2	2	0
CO-3	2	3	2	2	1	2	0	1	2	0
CO-4	2	1	2	3	2	3	0	2	3	0
CO-5	2	3	1	2	2	3	0	2	3	0

41.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	2	2	3	3	2	2
CO-2	3	2	1	2	3	2
CO-3	2	3	1	2	3	1
CO-4	3	2	1	2	3	1
CO-5	1	2	3	3	2	2

Business Environment**42.1 Course Overview**

1	Course	Core
2	Course Type	Theory
3	Course Code	BE03C15
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	120
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

42.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Nature and scope of business environment	Chalk and talk, ICT	15
2	Economic environment	Chalk and talk	10
3	Political and legal environment	Chalk and talk	20
4	Social and cultural environment	Chalk and talk	30
5	Environmental management	Chalk and talk	15

42.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

42.4 Course Outcome

CO-1	Students should be able to understand the impact of environment in business.
CO-2	Students must be capable of recognizing various economic systems prevailing in the world.
CO-3	Students should be able to be aware of the impact of political and legal environments for business.
CO-4	The students must be well known about the role of social responsibility in business and its implications.
CO-5	Students should be trained about future oriented life through the concept of sustainable development.

42.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	1	3	2	1	3	0	0	0	0
CO-2	2	3	2	1	2	2	0	0	0	0
CO-3	2	3	2	2	1	2	0	0	0	0
CO-4	2	1	2	3	2	3	0	0	0	0
CO-5	2	3	1	2	2	3	0	0	0	0

42.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	2	2	3	3	2	2
CO-2	3	2	1	2	3	2
CO-3	2	3	1	2	3	1
CO-4	3	2	1	2	3	1
CO-5	1	2	3	3	2	2

Advanced Cost Accounting

43.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	AC04C16
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	120
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

43.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Process Costing	Chalk and talk, ICT	20
2	Marginal Costing	Chalk and talk	25
3	Budgetary Control	Chalk and talk	15
4	Standard Costing	Chalk and talk	20
5	Cost Accounting System	Chalk and talk	10

43.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

43.4 Course Outcome

CO-1	To learn about the higher application of cost accounting techniques and methods.
CO-2	Describe strategic cost analysis techniques and apply these techniques for performance evaluation and managing a profitable and competitive enterprise.
CO-3	To develop the know-how and concept of marginal costing, process costing and standard costing with practical problems
CO-4	To learn about the higher application of cost accounting techniques and methods.
CO-5	To learn about the higher application of cost accounting techniques and methods.

43.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	2	0	0	0	2	0	0	0	0
CO-2	3	0	2	0	0	0	0	0	0	0
CO-3	3	0	0	1	0	0	0	0	0	0
CO-4	3	0	2	0	0	0	0	0	0	0
CO-5	3	0	0	1	0	0	0	0	0	0

43.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	3	3	0	0	0
CO-2	0	0	0	0	3	2
CO-3	0	3	0	2	2	0
CO-4	0	3	3	0	0	0
CO-5	0	0	0	0	3	2

Direct taxes - Assessment and Procedures**44.1 Course Overview**

1	Course	Core
2	Course Type	Theory
3	Course Code	DT04C17
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	120
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

44.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Assessment and Computation of Tax	Chalk and talk, ICT	40
2	Assessment Procedures	Chalk and talk	10
3	Income Tax Authorities and Powers	Chalk and talk	10
4	Wealth Tax	Chalk and talk	20
5	Tax Planning	Chalk and talk	10

44.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

44.4 Course Outcome

CO-1	Compute the total income and tax liability of firms and Association of Persons
CO-2	Carry out assessment of companies and determine their tax liability
CO-3	Understanding about the assessment procedures, TDS and advance payment of tax and application in various situations
CO-4	Carry out assessment of companies and determine their tax liability
CO-5	Learn tax planning concepts and apply the same

44.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	0	1	2	0	0	0	0	0
CO-2	3	0	0	3	2	0	0	0	0	0
CO-3	3	0	0	2	1	0	0	0	0	0
CO-4	3	0	0	2	2	0	0	0	0	0
CO-5	3	0	0	2	3	0	0	0	0	0

44.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	0	3	0	0	3
CO-2	0	0	3	0	0	3
CO-3	0	0	3	0	0	3
CO-4	0	0	3	0	0	3
CO-5	0	0	3	0	0	3

International Finance

45.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	IF04E01
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	120
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

45.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Introduction	Chalk and talk, ICT	20
2	International Financial System	Chalk and talk	20
3	MNCs	Chalk and talk	15
4	Parity Conditions in International Finance	Chalk and talk	20
5	Management of Working Capital	Chalk and talk	15

45.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

45.4 Course Outcome

CO-1	To get an idea about the basics of international finance
CO-2	Be able to understand the history of international monetary system
CO-3	To know the functioning of multinational companies
CO-4	Be able to acquire knowledge about the parity conditions and management of working capital in international finance
CO-5	To know the functioning of multinationals

45.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	2	3	2	3	3	2	2	0	0
CO-2	3	2	2	2	1	1	1	2	0	0
CO-3	3	1	1	2	1	1	1	2	0	0
CO-4	3	1	1	2	2	1	1	2	0	0
CO-5	2	2	2	2	2	1	1	2	0	0

45.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	3	3	2	2	2	2
CO-2	3	2	1	2	2	2
CO-3	3	2	1	2	2	2
CO-4	3	1	1	2	2	2
CO-5	2	1	1	1	2	2

Financial Markets and Derivatives

46.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	FM04E02
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	120
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

46.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Financial system	Chalk and talk	10
2	Primary market	Chalk and talk	10
3	Derivatives	Chalk and talk	20
4	Futures contracts	Chalk and talk	25
5	Options-types	Chalk and talk	25

46.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

46.4 Course Outcome

CO-1	Students should be familiar with the financial system of the country in General
CO-2	Students must be able to understand various capital market operations in particular.
CO-3	Students should acquire good understanding of Derivative Trading through Forward Market
CO-4	Students should acquire good understanding of Derivative Trading through Forward Market.
CO-5	Students should be provided with advanced knowledge in Futures and Options trading with practical problems of value calculation.

46.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	1	3	2	1	3	3	3	0	0
CO-2	2	3	2	1	2	2	2	2	0	0
CO-3	2	3	2	2	1	2	2	2	0	0
CO-4	2	1	2	3	2	3	3	3	0	0
CO-5	2	3	1	2	2	3	3	3	0	0

46.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	2	2	3	3	2	2
CO-2	3	2	1	2	3	2
CO-3	2	3	1	2	3	1
CO-4	3	2	1	2	3	1
CO-5	1	2	3	3	2	2

Security Analysis and Portfolio Management

47.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	SA04E03
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	120
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

47.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Investment	Chalk and talk	15
2	Security analysis	Chalk and talk	15
3	Technical analysis	Chalk and talk	25
4	Portfolio theory	Chalk and talk	20
5	Portfolio selection	Chalk and talk	15

47.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

47.4 Course Outcome

CO-1	Students be able to understand the concept of portfolio investment.
CO-2	Able to understand security analysis and EIC framework.
CO-3	Helps the students aware about technical analysis and EMH.
CO-4	Provides practical knowledge about the portfolio construction.
CO-5	Gives awareness about portfolio evaluation and revision.

47.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	1	3	2	1	3	1	3	0	0
CO-2	2	3	2	1	2	2	2	2	0	0
CO-3	2	3	2	2	1	2	1	2	0	0
CO-4	2	1	2	3	2	3	2	3	0	0
CO-5	2	3	2	2	2	3	2	3	0	0

47.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	2	2	3	3	2	2
CO-2	3	2	1	2	3	2
CO-3	2	3	1	2	3	1
CO-4	3	2	1	2	3	1
CO-5	1	2	3	3	2	2

Project(P)**48.1 Course Overview**

1	Course	core
2	Course Type	Practical
3	Course Code	PD04C18
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	100
7	Internal Assessment	20
8	Total hours	0
9	Hours per Week	1
10	Number of Experiments	15
11	Total Week to complete	3
Distribution of Internal Marks		
12	Attendance	2
13	Record	4
14	Assessment Test	4 (1 × 4 = 1)

48.2 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Practical Record	Internal Assessment
3	Experimental Skill	Internal Assessment
4	University Examination	External Assessment

48.3 Course Outcome

CO-1	to be able to do Quality Research Output
CO-2	Able to do make literature review
CO-3	Able to do evaluation
CO-4	Able to make findings
CO-5	Able to do write report

48.4 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	3	3	0	0	0	0	0	0
CO-2	0	0	0	0	3	0	0	0	0	0
CO-3	0	0	0	0	3	0	0	0	0	0
CO-4	0	0	0	0	3	0	0	0	0	0
CO-5	0	0	0	0	3	0	0	0	0	0

48.5 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	0	0	0	3	3
CO-2	0	0	0	0	3	3
CO-3	0	0	0	0	3	3
CO-4	0	0	0	0	3	3
CO-5	0	0	0	0	3	3

Viva(P)**49.1 Course Overview**

1	Course	core
2	Course Type	Practical
3	Course Code	VV04c19
4	Credit	2
5	Duration of External Examination	3 hours
6	External Assessment	100
7	Internal Assessment	20
8	Total hours	0
9	Hours per Week	1
10	Number of Experiments	15
11	Total Week to complete	3
Distribution of Internal Marks		
12	Attendance	2
13	Record	4
14	Assessment Test	4 (1 × 4 = 1)

49.2 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Practical Record	Internal Assessment
3	Experimental Skill	Internal Assessment
4	University Examination	External Assessment

49.3 Course Outcome

CO-1	The learner should have the capacity to communicate his/her understanding in various subjects studied.
CO-2	Able to do face interview
CO-3	able to convey the ideas
CO-4	able to make presentations
CO-5	able to make conclusions

49.4 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	0	0	3	0	0	0	0	0
CO-2	0	0	0	0	3	0	0	0	0	0
CO-3	0	0	0	0	3	0	0	0	0	0
CO-4	0	0	0	0	3	0	0	0	0	0
CO-5	0	0	0	0	3	0	0	0	0	0

49.5 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	3	3	3	3	3	3
CO-2	3	3	3	3	3	3
CO-3	3	3	3	3	3	3
CO-4	3	3	3	3	3	3
CO-5	3	3	3	3	3	3

Department of English
Pavanatma College, Murickassery
Idukki-685604

Curriculum Framework
Common Courses for Undergraduate
Programme

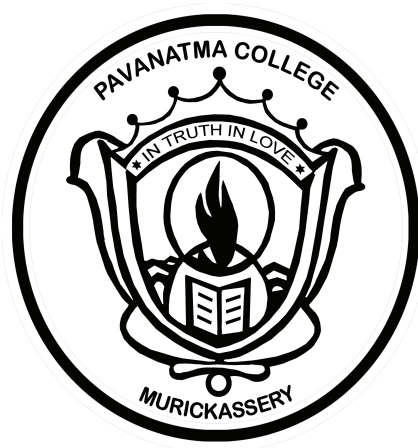


Table of Contents

1	Fine-Tune Your English	1
1.1	Course Overview	1
1.2	Curriculum Structure	2
1.3	Evaluation Methods	2
1.4	Course Outcome	3
1.5	CO – PO Mapping	3
2	Pearls from the Deep	4
2.1	Course Overview	4
2.2	Curriculum Structure	5
2.3	Evaluation Methods	5
2.4	Course Outcome	5
2.5	CO – PO Mapping	6
3	Issues that Matter	7
3.1	Course Overview	7
3.2	Curriculum Structure	8
3.3	Evaluation Methods	8
3.4	Course Outcome	9
3.5	CO – PO Mapping	9

4	Savouring the Classics	10
4.1	Course Overview	10
4.2	Curriculum Structure	11
4.3	Evaluation Methods	11
4.4	Course Outcome	12
4.5	CO – PO Mapping	12
5	Literature and/as Identity	13
5.1	Course Overview	13
5.2	Curriculum Structure	14
5.3	Evaluation Methods	14
5.4	Course Outcome	15
5.5	CO – PO Mapping	15
6	Illuminations	16
6.1	Course Overview	16
6.2	Curriculum Structure	17
6.3	Evaluation Methods	17
6.4	Course Outcome	18
6.5	CO – PO Mapping	18
7	Fine-Tune Your English	19
7.1	Course Overview	19
7.2	Curriculum Structure	20
7.3	Evaluation Methods	20
7.4	Course Outcome	21
7.5	CO – PO Mapping	21
8	Pearls from the Deep	22
8.1	Course Overview	22
8.2	Curriculum Structure	23

8.3	Evaluation Methods	23
8.4	Course Outcome	23
8.5	CO – PO Mapping	24
9	Issues that Matter	25
9.1	Course Overview	25
9.2	Curriculum Structure	26
9.3	Evaluation Methods	26
9.4	Course Outcome	27
9.5	CO – PO Mapping	27
10	Savouring the Classics	28
10.1	Course Overview	28
10.2	Curriculum Structure	29
10.3	Evaluation Methods	29
10.4	Course Outcome	30
10.5	CO – PO Mapping	30
11	Literature and/as Identity	31
11.1	Course Overview	31
11.2	Curriculum Structure	32
11.3	Evaluation Methods	32
11.4	Course Outcome	33
11.5	CO – PO Mapping	33
12	Illuminations	34
12.1	Course Overview	34
12.2	Curriculum Structure	35
12.3	Evaluation Methods	35
12.4	Course Outcome	36
12.5	CO – PO Mapping	36

13 Fine-Tune Your English	37
13.1 Course Overview	37
13.2 Curriculum Structure	38
13.3 Evaluation Methods	38
13.4 Course Outcome	39
13.5 CO – PO Mapping	39
14 Issues that Matter	40
14.1 Course Overview	40
14.2 Curriculum Structure	41
14.3 Evaluation Methods	41
14.4 Course Outcome	42
14.5 CO – PO Mapping	42
15 Literature and/as Identity	43
15.1 Course Overview	43
15.2 Curriculum Structure	44
15.3 Evaluation Methods	44
15.4 Course Outcome	45
15.5 CO – PO Mapping	45
16 Illuminations	46
16.1 Course Overview	46
16.2 Curriculum Structure	47
16.3 Evaluation Methods	47
16.4 Course Outcome	48
16.5 CO – PO Mapping	48
17 Fine-Tune Your English	49
17.1 Course Overview	49
17.2 Curriculum Structure	50

17.3 Evaluation Methods	50
17.4 Course Outcome	51
17.5 CO – PO Mapping	51
18 Issues that Matter	52
18.1 Course Overview	52
18.2 Curriculum Structure	53
18.3 Evaluation Methods	53
18.4 Course Outcome	54
18.5 CO – PO Mapping	54
19 Literature and/as Identity	55
19.1 Course Overview	55
19.2 Curriculum Structure	56
19.3 Evaluation Methods	56
19.4 Course Outcome	57
19.5 CO – PO Mapping	57
20 Illuminations	58
20.1 Course Overview	58
20.2 Curriculum Structure	59
20.3 Evaluation Methods	59
20.4 Course Outcome	60
20.5 CO – PO Mapping	60
21 Fine-Tune Your English	61
21.1 Course Overview	61
21.2 Curriculum Structure	62
21.3 Evaluation Methods	62
21.4 Course Outcome	63
21.5 CO – PO Mapping	63

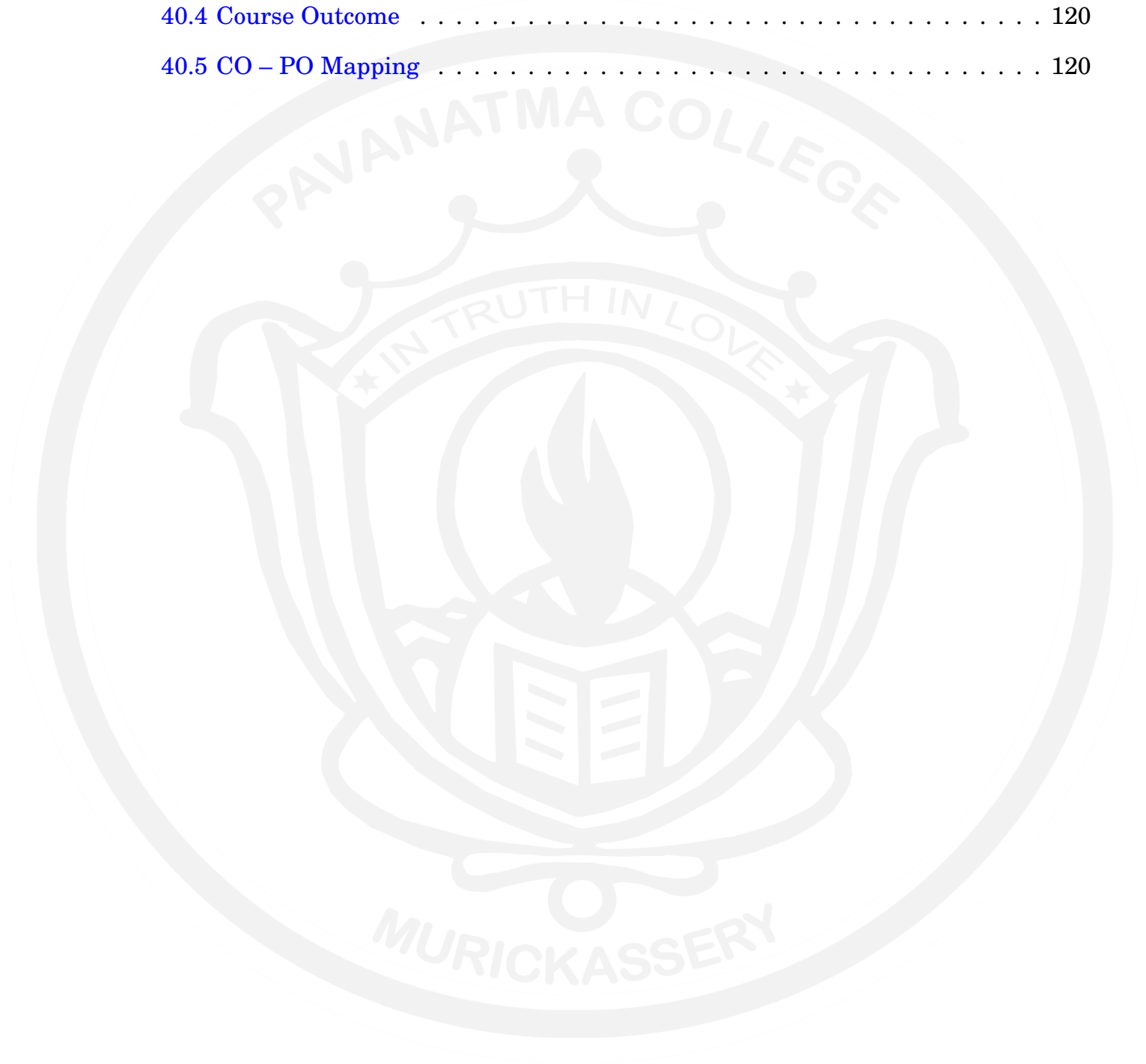
22 Pearls from the Deep	64
22.1 Course Overview	64
22.2 Curriculum Structure	65
22.3 Evaluation Methods	65
22.4 Course Outcome	65
22.5 CO – PO Mapping	66
23 Issues that Matter	67
23.1 Course Overview	67
23.2 Curriculum Structure	68
23.3 Evaluation Methods	68
23.4 Course Outcome	69
23.5 CO – PO Mapping	69
24 Savouring the Classics	70
24.1 Course Overview	70
24.2 Curriculum Structure	71
24.3 Evaluation Methods	71
24.4 Course Outcome	72
24.5 CO – PO Mapping	72
25 Literature and/as Identity	73
25.1 Course Overview	73
25.2 Curriculum Structure	74
25.3 Evaluation Methods	74
25.4 Course Outcome	75
25.5 CO – PO Mapping	75
26 Illuminations	76
26.1 Course Overview	76
26.2 Curriculum Structure	77

26.3 Evaluation Methods	77
26.4 Course Outcome	78
26.5 CO – PO Mapping	78
27 Fine-Tune Your English	79
27.1 Course Overview	79
27.2 Curriculum Structure	80
27.3 Evaluation Methods	80
27.4 Course Outcome	81
27.5 CO – PO Mapping	81
28 Issues that Matter	82
28.1 Course Overview	82
28.2 Curriculum Structure	83
28.3 Evaluation Methods	83
28.4 Course Outcome	84
28.5 CO – PO Mapping	84
29 Fine-Tune Your English	85
29.1 Course Overview	85
29.2 Curriculum Structure	86
29.3 Evaluation Methods	86
29.4 Course Outcome	87
29.5 CO – PO Mapping	87
30 Issues that Matter	88
30.1 Course Overview	88
30.2 Curriculum Structure	89
30.3 Evaluation Methods	89
30.4 Course Outcome	90
30.5 CO – PO Mapping	90

31 Literature and/as Identity	91
31.1 Course Overview	91
31.2 Curriculum Structure	92
31.3 Evaluation Methods	92
31.4 Course Outcome	93
31.5 CO – PO Mapping	93
32 Illuminations	94
32.1 Course Overview	94
32.2 Curriculum Structure	95
32.3 Evaluation Methods	95
32.4 Course Outcome	96
32.5 CO – PO Mapping	96
33 Fine-Tune Your English	97
33.1 Course Overview	97
33.2 Curriculum Structure	98
33.3 Evaluation Methods	98
33.4 Course Outcome	99
33.5 CO – PO Mapping	99
34 Issues that Matter	100
34.1 Course Overview	100
34.2 Curriculum Structure	101
34.3 Evaluation Methods	101
34.4 Course Outcome	102
34.5 CO – PO Mapping	102
35 Literature and/as Identity	103
35.1 Course Overview	103
35.2 Curriculum Structure	104

35.3 Evaluation Methods	104
35.4 Course Outcome	105
35.5 CO – PO Mapping	105
36 Illuminations	106
36.1 Course Overview	106
36.2 Curriculum Structure	107
36.3 Evaluation Methods	107
36.4 Course Outcome	108
36.5 CO – PO Mapping	108
37 Fine-Tune Your English	109
37.1 Course Overview	109
37.2 Curriculum Structure	110
37.3 Evaluation Methods	110
37.4 Course Outcome	111
37.5 CO – PO Mapping	111
38 Issues that Matter	112
38.1 Course Overview	112
38.2 Curriculum Structure	113
38.3 Evaluation Methods	113
38.4 Course Outcome	114
38.5 CO – PO Mapping	114
39 Gems of Imagination	115
39.1 Course Overview	115
39.2 Curriculum Structure	116
39.3 Evaluation Methods	116
39.4 Course Outcome	116
39.5 CO – PO Mapping	117

40 Revisiting the Classics	118
40.1 Course Overview	118
40.2 Curriculum Structure	119
40.3 Evaluation Methods	119
40.4 Course Outcome	120
40.5 CO – PO Mapping	120



Fine-Tune Your English

1.1 Course Overview

1	Course	Common
2	Course Type	Theory
3	Course Code	EN1CC01
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

1.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Sentence Structure	Instruction and Discussion	18
2	Word-Classes	Instruction and Discussion	18
3	Tense	Instruction and Discussion	18
4	Idioms	Instruction and Discussion	18
5	Writing	Instruction and Discussion	18

1.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

1.4 Course Outcome

CO-1	Use English for formal and informal communication effectively.
CO-2	Able to produce a text which is argumentative/narrative/descriptive/comparative and to argue a point or expound a theory
CO-3	Use language appropriately in various contexts with proper expressions
CO-4	Communicate effectively using different parts of speech, idioms and phrases both in written and spoken forms.

1.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	0	0	3	3	0	0	0	0
CO-2	0	0	3	0	2	0	0	0	1	0
CO-3	2	0	0	0	3	2	0	0	0	0
CO-4	3	0	0	0	0	0	0	0	0	0

Pearls from the Deep

2.1 Course Overview

1	Course	Common
2	Course Type	Theory
3	Course Code	EN1CC02
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	72
9	Hours per Week	4
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

2.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Novella	Instruction and Discussion	18
2	Plays	Instruction and Discussion	18
3	Short Stories	Instruction and Discussion	18
4	Poems	Instruction and Discussion	18

2.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

2.4 Course Outcome

CO-1	Capable of produce literary works.
CO-2	Able to identify different forms of literature.
CO-3	Get familiar with various literary elements and techniques.
CO-4	Able to use language in formal and informal communication.

2.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	2	0	0	0	0	0	3	0
CO-2	3	2	0	2	0	0	0	0	0	0
CO-3	3	0	2	3	0	0	0	0	0	0
CO-4	3	0	1	0	3	2	0	0	0	0

Issues that Matter

3.1 Course Overview

1	Course	Common
2	Course Type	Theory
3	Course Code	EN2CC03
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 ($2 \times 5 = 10$)

3.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	War	Instruction and Discussion	18
2	Dissension	Instruction and Discussion	18
3	Identity	Instruction and Discussion	18
4	Environment	Instruction and Discussion	18
5	Refugee	Instruction and Discussion	18

3.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

3.4 Course Outcome

CO-1	Identify crucial issues of contemporary world such as injustice, violation of human rights, minority identities and consequences of war.
CO-2	Think critically about the consequences of dissension, enunciate the cause of free speech, existentialist crisis of the marginalised and so on.
CO-3	Develop a thoughtful and humane approach to the fundamental rights of the subaltern groups and refugees and issues of ecological conservation.
CO-4	Internalise the values like justice, truth, human dignity and freedom of each individual.

3.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	3	3	0	0	0	0	3	0	0
CO-2	0	2	3	0	0	0	0	2	0	0
CO-3	0	3	2	0	0	0	0	2	0	0
CO-4	0	1	0	0	0	0	0	3	0	0

Savouring the Classics

4.1 Course Overview

1	Course	Common
2	Course Type	Theory
3	Course Code	EN2CC04
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	72
9	Hours per Week	4
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

4.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Poems	Instruction and Discussion	18
2	Shakespeare	Instruction and Discussion	18
3	Novel	Instruction and Discussion	18
4	Short Fiction	Instruction and Discussion	18

4.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

4.4 Course Outcome

CO-1	Able to identify different social and literary aspects of various lands and cultures
CO-2	Enjoy the works and are able to do critical appreciation by understanding the universality of human condition
CO-3	Get familiar with the classical writers such as Kalidasa, Homer, Dante and Milton
CO-4	Obtain knowledge in the literary techniques used in time-tested world classics.

4.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	3	0	0	0	0	0	2	0	0
CO-2	0	0	0	0	0	0	0	3	0	0
CO-3	0	3	0	0	0	0	0	0	0	0
CO-4	0	0	0	3	0	0	0	0	0	0

Literature and/as Identity

5.1 Course Overview

1	Course	Common
2	Course Type	Theory
3	Course Code	EN3CC05
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

5.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Diasporic Identities	Instruction and Discussion	18
2	South Asian Studies	Instruction and Discussion	18
3	Life Writings	Instruction and Discussion	18
4	Indigenous Identities	Instruction and Discussion	18
5	Alter Identities	Instruction and Discussion	18

5.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

5.4 Course Outcome

CO-1	Get familiar with diasporic and indigenous identities.
CO-2	Know more about regional identities and their representation in literature.
CO-3	Encounter the major issues of contemporary world include division of class, racial hatred and communal issues.
CO-4	Analyse the grim realities of modern world including improper handling of ecosystems, poverty and unemployment.

5.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	3	3	0	0	0	0	2	0	0
CO-2	0	3	3	0	0	0	0	0	0	0
CO-3	0	3	3	0	0	0	0	3	0	0
CO-4	0	3	3	0	0	0	0	3	0	0

Illuminations

6.1 Course Overview

1	Course	Common
2	Course Type	Theory
3	Course Code	EN4CC06
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

6.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Life Writings	Instruction and Discussion	18
2	Essays	Instruction and Discussion	18
3	Speeches	Instruction and Discussion	18
4	Short Stories	Instruction and Discussion	18
5	Poems	Instruction and Discussion	18

6.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

6.4 Course Outcome

CO-1	Develop creative and insightful perspective towards life.
CO-2	Become more aware of the unfathomable powers of literatures, individuality and original thinking.
CO-3	Learn to overcome the setbacks in life through the stories of great men who belong to different parts of the world.
CO-4	Start to think critically and creatively and learn to face adversity with confidence.

6.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	3	0	0	0	0	0	2	0	0
CO-2	0	3	3	0	0	0	0	3	0	0
CO-3	3	3	3	0	0	0	0	2	0	0
CO-4	3	0	0	3	0	2	0	0	0	0

Fine-Tune Your English

7.1 Course Overview

1	Course	Common
2	Course Type	Theory
3	Course Code	EN1CC01
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

7.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Sentence Structure	Instruction and Discussion	18
2	Word-Classes	Instruction and Discussion	18
3	Tense	Instruction and Discussion	18
4	Idioms	Instruction and Discussion	18
5	Writing	Instruction and Discussion	18

7.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

7.4 Course Outcome

CO-1	Use English for formal and informal communication effectively.
CO-2	Able to produce a text which is argumentative/narrative/descriptive/comparative and to argue a point or expound a theory
CO-3	Use language appropriately in various contexts with proper expressions
CO-4	Communicate effectively using different parts of speech, idioms and phrases both in written and spoken forms.

7.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	0	0	3	3	0	0	0	0
CO-2	0	0	3	0	2	0	0	0	1	0
CO-3	2	0	0	0	3	2	0	0	0	0
CO-4	3	0	0	0	0	0	0	0	0	0

Pearls from the Deep

8.1 Course Overview

1	Course	Common
2	Course Type	Theory
3	Course Code	EN1CC02
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	72
9	Hours per Week	4
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

8.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Novella	Instruction and Discussion	18
2	Plays	Instruction and Discussion	18
3	Short Stories	Instruction and Discussion	18
4	Poems	Instruction and Discussion	18

8.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

8.4 Course Outcome

CO-1	Capable of produce literary works.
CO-2	Able to identify different forms of literature.
CO-3	Get familiar with various literary elements and techniques.
CO-4	Able to use language in formal and informal communication.

8.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	2	0	0	0	0	0	3	0
CO-2	3	2	0	2	0	0	0	0	0	0
CO-3	3	0	2	3	0	0	0	0	0	0
CO-4	3	0	1	0	3	2	0	0	0	0

Issues that Matter

9.1 Course Overview

1	Course	Common
2	Course Type	Theory
3	Course Code	EN2CC03
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

9.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	War	Instruction and Discussion	18
2	Dissension	Instruction and Discussion	18
3	Identity	Instruction and Discussion	18
4	Environment	Instruction and Discussion	18
5	Refugee	Instruction and Discussion	18

9.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

9.4 Course Outcome

CO-1	Identify crucial issues of contemporary world such as injustice, violation of human rights, minority identities and consequences of war.
CO-2	Think critically about the consequences of dissension, enunciate the cause of free speech, existentialist crisis of the marginalised and so on.
CO-3	Develop a thoughtful and humane approach to the fundamental rights of the subaltern groups and refugees and issues of ecological conservation.
CO-4	Internalise the values like justice, truth, human dignity and freedom of each individual.

9.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	3	3	0	0	0	0	3	0	0
CO-2	0	2	3	0	0	0	0	2	0	0
CO-3	0	3	2	0	0	0	0	2	0	0
CO-4	0	1	0	0	0	0	0	3	0	0

Savouring the Classics

10.1 Course Overview

1	Course	Common
2	Course Type	Theory
3	Course Code	EN2CC04
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	72
9	Hours per Week	4
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

10.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Poems	Instruction and Discussion	18
2	Shakespeare	Instruction and Discussion	18
3	Novel	Instruction and Discussion	18
4	Short Fiction	Instruction and Discussion	18

10.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

10.4 Course Outcome

CO-1	Able to identify different social and literary aspects of various lands and cultures
CO-2	Enjoy the works and are able to do critical appreciation by understanding the universality of human condition
CO-3	Get familiar with the classical writers such as Kalidasa, Homer, Dante and Milton
CO-4	Obtain knowledge in the literary techniques used in time-tested world classics.

10.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	3	0	0	0	0	0	2	0	0
CO-2	0	0	0	0	0	0	0	3	0	0
CO-3	0	3	0	0	0	0	0	0	0	0
CO-4	0	0	0	3	0	0	0	0	0	0

Literature and/as Identity

11.1 Course Overview

1	Course	Common
2	Course Type	Theory
3	Course Code	EN3CC05
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

11.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Diasporic Identities	Instruction and Discussion	18
2	South Asian Studies	Instruction and Discussion	18
3	Life Writings	Instruction and Discussion	18
4	Indigenous Identities	Instruction and Discussion	18
5	Alter Identities	Instruction and Discussion	18

11.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

11.4 Course Outcome

CO-1	Get familiar with diasporic and indigenious identities.
CO-2	Know more about regional identities and their representation in literature.
CO-3	Encounter the major issues of contemporary world include division of class, racial hatred and communal issues.
CO-4	Analyse the grim realities of modern world including improper handling of ecosystems, poverty and unemployment.

11.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	3	3	0	0	0	0	2	0	0
CO-2	0	3	3	0	0	0	0	0	0	0
CO-3	0	3	3	0	0	0	0	3	0	0
CO-4	0	3	3	0	0	0	0	3	0	0

Illuminations

12.1 Course Overview

1	Course	Common
2	Course Type	Theory
3	Course Code	EN4CC06
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

12.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Life Writings	Instruction and Discussion	18
2	Essays	Instruction and Discussion	18
3	Speeches	Instruction and Discussion	18
4	Short Stories	Instruction and Discussion	18
5	Poems	Instruction and Discussion	18

12.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

12.4 Course Outcome

CO-1	Develop creative and insightful perspective towards life.
CO-2	Become more aware of the unfathomable powers of literatures, individuality and original thinking.
CO-3	Learn to overcome the setbacks in life through the stories of great men who belong to different parts of the world.
CO-4	Start to think critically and creatively and learn to face adversity with confidence.

12.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	3	0	0	0	0	0	2	0	0
CO-2	0	3	3	0	0	0	0	3	0	0
CO-3	3	3	3	0	0	0	0	2	0	0
CO-4	3	0	0	3	0	2	0	0	0	0

Fine-Tune Your English

13.1 Course Overview

1	Course	Common
2	Course Type	Theory
3	Course Code	EN1CC01
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

13.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Sentence Structure	Instruction and Discussion	18
2	Word-Classes	Instruction and Discussion	18
3	Tense	Instruction and Discussion	18
4	Idioms	Instruction and Discussion	18
5	Writing	Instruction and Discussion	18

13.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

13.4 Course Outcome

CO-1	Use English for formal and informal communication effectively.
CO-2	Able to produce a text which is argumentative/narrative/descriptive/comparative and to argue a point or expound a theory
CO-3	Use language appropriately in various contexts with proper expressions
CO-4	Communicate effectively using different parts of speech, idioms and phrases both in written and spoken forms.

13.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	0	0	3	3	0	0	0	0
CO-2	0	0	3	0	2	0	0	0	1	0
CO-3	2	0	0	0	3	2	0	0	0	0
CO-4	3	0	0	0	0	0	0	0	0	0

Issues that Matter

14.1 Course Overview

1	Course	Common
2	Course Type	Theory
3	Course Code	EN2CC03
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

14.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	War	Instruction and Discussion	18
2	Dissension	Instruction and Discussion	18
3	Identity	Instruction and Discussion	18
4	Environment	Instruction and Discussion	18
5	Refugee	Instruction and Discussion	18

14.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

14.4 Course Outcome

CO-1	Identify crucial issues of contemporary world such as injustice, violation of human rights, minority identities and consequences of war.
CO-2	Think critically about the consequences of dissension, enunciate the cause of free speech, existentialist crisis of the marginalised and so on.
CO-3	Develop a thoughtful and humane approach to the fundamental rights of the subaltern groups and refugees and issues of ecological conservation.
CO-4	Internalise the values like justice, truth, human dignity and freedom of each individual.

14.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	3	3	0	0	0	0	3	0	0
CO-2	0	2	3	0	0	0	0	2	0	0
CO-3	0	3	2	0	0	0	0	2	0	0
CO-4	0	1	0	0	0	0	0	3	0	0

Literature and/as Identity

15.1 Course Overview

1	Course	Common
2	Course Type	Theory
3	Course Code	EN3CC05
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

15.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Diasporic Identities	Instruction and Discussion	18
2	South Asian Studies	Instruction and Discussion	18
3	Life Writings	Instruction and Discussion	18
4	Indigeneous Identities	Instruction and Discussion	18
5	Alter Identities	Instruction and Discussion	18

15.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

15.4 Course Outcome

CO-1	Get familiar with diasporic and indigenous identities.
CO-2	Know more about regional identities and their representation in literature.
CO-3	Encounter the major issues of contemporary world include division of class, racial hatred and communal issues.
CO-4	Analyse the grim realities of modern world including improper handling of ecosystems, poverty and unemployment.

15.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	3	3	0	0	0	0	2	0	0
CO-2	0	3	3	0	0	0	0	0	0	0
CO-3	0	3	3	0	0	0	0	3	0	0
CO-4	0	3	3	0	0	0	0	3	0	0

Illuminations

16.1 Course Overview

1	Course	Common
2	Course Type	Theory
3	Course Code	EN4CC06
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

16.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Life Writings	Instruction and Discussion	18
2	Essays	Instruction and Discussion	18
3	Speeches	Instruction and Discussion	18
4	Short Stories	Instruction and Discussion	18
5	Poems	Instruction and Discussion	18

16.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

16.4 Course Outcome

CO-1	Develop creative and insightful perspective towards life.
CO-2	Become more aware of the unfathomable powers of literatures, individuality and original thinking.
CO-3	Learn to overcome the setbacks in life through the stories of great men who belong to different parts of the world.
CO-4	Start to think critically and creatively and learn to face adversity with confidence.

16.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	3	0	0	0	0	0	2	0	0
CO-2	0	3	3	0	0	0	0	3	0	0
CO-3	3	3	3	0	0	0	0	2	0	0
CO-4	3	0	0	3	0	2	0	0	0	0

Fine-Tune Your English

17.1 Course Overview

1	Course	Common
2	Course Type	Theory
3	Course Code	EN1CC01
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

17.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Sentence Structure	Instruction and Discussion	18
2	Word-Classes	Instruction and Discussion	18
3	Tense	Instruction and Discussion	18
4	Idioms	Instruction and Discussion	18
5	Writing	Instruction and Discussion	18

17.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

17.4 Course Outcome

CO-1	Use English for formal and informal communication effectively.
CO-2	Able to produce a text which is argumentative/narrative/descriptive/comparative and to argue a point or expound a theory
CO-3	Use language appropriately in various contexts with proper expressions
CO-4	Communicate effectively using different parts of speech, idioms and phrases both in written and spoken forms.

17.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	0	0	3	3	0	0	0	0
CO-2	0	0	3	0	2	0	0	0	1	0
CO-3	2	0	0	0	3	2	0	0	0	0
CO-4	3	0	0	0	0	0	0	0	0	0

Issues that Matter

18.1 Course Overview

1	Course	Common
2	Course Type	Theory
3	Course Code	EN2CC03
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

18.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	War	Instruction and Discussion	18
2	Dissension	Instruction and Discussion	18
3	Identity	Instruction and Discussion	18
4	Environment	Instruction and Discussion	18
5	Refugee	Instruction and Discussion	18

18.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

18.4 Course Outcome

CO-1	Identify crucial issues of contemporary world such as injustice, violation of human rights, minority identities and consequences of war.
CO-2	Think critically about the consequences of dissension, enunciate the cause of free speech, existentialist crisis of the marginalised and so on.
CO-3	Develop a thoughtful and humane approach to the fundamental rights of the subaltern groups and refugees and issues of ecological conservation.
CO-4	Internalise the values like justice, truth, human dignity and freedom of each individual.

18.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	3	3	0	0	0	0	3	0	0
CO-2	0	2	3	0	0	0	0	2	0	0
CO-3	0	3	2	0	0	0	0	2	0	0
CO-4	0	1	0	0	0	0	0	3	0	0

Literature and/as Identity

19.1 Course Overview

1	Course	Common
2	Course Type	Theory
3	Course Code	EN3CC05
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

19.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Diasporic Identities	Instruction and Discussion	18
2	South Asian Studies	Instruction and Discussion	18
3	Life Writings	Instruction and Discussion	18
4	Indigenous Identities	Instruction and Discussion	18
5	Alter Identities	Instruction and Discussion	18

19.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

19.4 Course Outcome

CO-1	Get familiar with diasporic and indigenous identities.
CO-2	Know more about regional identities and their representation in literature.
CO-3	Encounter the major issues of contemporary world include division of class, racial hatred and communal issues.
CO-4	Analyse the grim realities of modern world including improper handling of ecosystems, poverty and unemployment.

19.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	3	3	0	0	0	0	2	0	0
CO-2	0	3	3	0	0	0	0	0	0	0
CO-3	0	3	3	0	0	0	0	3	0	0
CO-4	0	3	3	0	0	0	0	3	0	0

Illuminations

20.1 Course Overview

1	Course	Common
2	Course Type	Theory
3	Course Code	EN4CC06
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

20.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Life Writings	Instruction and Discussion	18
2	Essays	Instruction and Discussion	18
3	Speeches	Instruction and Discussion	18
4	Short Stories	Instruction and Discussion	18
5	Poems	Instruction and Discussion	18

20.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

20.4 Course Outcome

CO-1	Develop creative and insightful perspective towards life.
CO-2	Become more aware of the unfathomable powers of literatures, individuality and original thinking.
CO-3	Learn to overcome the setbacks in life through the stories of great men who belong to different parts of the world.
CO-4	Start to think critically and creatively and learn to face adversity with confidence.

20.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	3	0	0	0	0	0	2	0	0
CO-2	0	3	3	0	0	0	0	3	0	0
CO-3	3	3	3	0	0	0	0	2	0	0
CO-4	3	0	0	3	0	2	0	0	0	0

Fine-Tune Your English

21.1 Course Overview

1	Course	Common
2	Course Type	Theory
3	Course Code	EN1CC01
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

21.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Sentence Structure	Instruction and Discussion	18
2	Word-Classes	Instruction and Discussion	18
3	Tense	Instruction and Discussion	18
4	Idioms	Instruction and Discussion	18
5	Writing	Instruction and Discussion	18

21.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

21.4 Course Outcome

CO-1	Use English for formal and informal communication effectively.
CO-2	Able to produce a text which is argumentative/narrative/descriptive/comparative and to argue a point or expound a theory
CO-3	Use language appropriately in various contexts with proper expressions
CO-4	Communicate effectively using different parts of speech, idioms and phrases both in written and spoken forms.

21.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	0	0	3	3	0	0	0	0
CO-2	0	0	3	0	2	0	0	0	1	0
CO-3	2	0	0	0	3	2	0	0	0	0
CO-4	3	0	0	0	0	0	0	0	0	0

Pearls from the Deep

22.1 Course Overview

1	Course	Common
2	Course Type	Theory
3	Course Code	EN1CC02
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	72
9	Hours per Week	4
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

22.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Novella	Instruction and Discussion	18
2	Plays	Instruction and Discussion	18
3	Short Stories	Instruction and Discussion	18
4	Poems	Instruction and Discussion	18

22.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

22.4 Course Outcome

CO-1	Capable of produce literary works.
CO-2	Able to identify different forms of literature.
CO-3	Get familiar with various literary elements and techniques.
CO-4	Able to use language in formal and informal communication.

22.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	2	0	0	0	0	0	3	0
CO-2	3	2	0	2	0	0	0	0	0	0
CO-3	3	0	2	3	0	0	0	0	0	0
CO-4	3	0	1	0	3	2	0	0	0	0

Issues that Matter

23.1 Course Overview

1	Course	Common
2	Course Type	Theory
3	Course Code	EN2CC03
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

23.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	War	Instruction and Discussion	18
2	Dissension	Instruction and Discussion	18
3	Identity	Instruction and Discussion	18
4	Environment	Instruction and Discussion	18
5	Refugee	Instruction and Discussion	18

23.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

23.4 Course Outcome

CO-1	Identify crucial issues of contemporary world such as injustice, violation of human rights, minority identities and consequences of war.
CO-2	Think critically about the consequences of dissension, enunciate the cause of free speech, existentialist crisis of the marginalised and so on.
CO-3	Develop a thoughtful and humane approach to the fundamental rights of the subaltern groups and refugees and issues of ecological conservation.
CO-4	Internalise the values like justice, truth, human dignity and freedom of each individual.

23.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	3	3	0	0	0	0	3	0	0
CO-2	0	2	3	0	0	0	0	2	0	0
CO-3	0	3	2	0	0	0	0	2	0	0
CO-4	0	1	0	0	0	0	0	3	0	0

Savouring the Classics

24.1 Course Overview

1	Course	Common
2	Course Type	Theory
3	Course Code	EN2CC04
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	72
9	Hours per Week	4
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

24.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Poems	Instruction and Discussion	18
2	Shakespeare	Instruction and Discussion	18
3	Novel	Instruction and Discussion	18
4	Short Fiction	Instruction and Discussion	18

24.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

24.4 Course Outcome

CO-1	Able to identify different social and literary aspects of various lands and cultures
CO-2	Enjoy the works and are able to do critical appreciation by understanding the universality of human condition
CO-3	Get familiar with the classical writers such as Kalidasa, Homer, Dante and Milton
CO-4	Obtain knowledge in the literary techniques used in time-tested world classics.

24.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	3	0	0	0	0	0	2	0	0
CO-2	0	0	0	0	0	0	0	3	0	0
CO-3	0	3	0	0	0	0	0	0	0	0
CO-4	0	0	0	3	0	0	0	0	0	0

Literature and/as Identity

25.1 Course Overview

1	Course	Common
2	Course Type	Theory
3	Course Code	EN3CC05
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

25.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Diasporic Identities	Instruction and Discussion	18
2	South Asian Studies	Instruction and Discussion	18
3	Life Writings	Instruction and Discussion	18
4	Indigeneous Identities	Instruction and Discussion	18
5	Alter Identities	Instruction and Discussion	18

25.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

25.4 Course Outcome

CO-1	Get familiar with diasporic and indigenous identities.
CO-2	Know more about regional identities and their representation in literature.
CO-3	Encounter the major issues of contemporary world include division of class, racial hatred and communal issues.
CO-4	Analyse the grim realities of modern world including improper handling of ecosystems, poverty and unemployment.

25.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	3	3	0	0	0	0	2	0	0
CO-2	0	3	3	0	0	0	0	0	0	0
CO-3	0	3	3	0	0	0	0	3	0	0
CO-4	0	3	3	0	0	0	0	3	0	0

Illuminations

26.1 Course Overview

1	Course	Common
2	Course Type	Theory
3	Course Code	EN4CC06
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

26.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Life Writings	Instruction and Discussion	18
2	Essays	Instruction and Discussion	18
3	Speeches	Instruction and Discussion	18
4	Short Stories	Instruction and Discussion	18
5	Poems	Instruction and Discussion	18

26.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

26.4 Course Outcome

CO-1	Develop creative and insightful perspective towards life.
CO-2	Become more aware of the unfathomable powers of literatures, individuality and original thinking.
CO-3	Learn to overcome the setbacks in life through the stories of great men who belong to different parts of the world.
CO-4	Start to think critically and creatively and learn to face adversity with confidence.

26.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	3	0	0	0	0	0	2	0	0
CO-2	0	3	3	0	0	0	0	3	0	0
CO-3	3	3	3	0	0	0	0	2	0	0
CO-4	3	0	0	3	0	2	0	0	0	0

Fine-Tune Your English

27.1 Course Overview

1	Course	Common
2	Course Type	Theory
3	Course Code	EN1CC01
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

27.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Sentence Structure	Instruction and Discussion	18
2	Word-Classes	Instruction and Discussion	18
3	Tense	Instruction and Discussion	18
4	Idioms	Instruction and Discussion	18
5	Writing	Instruction and Discussion	18

27.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

27.4 Course Outcome

CO-1	Use English for formal and informal communication effectively.
CO-2	Able to produce a text which is argumentative/narrative/descriptive/comparative and to argue a point or expound a theory
CO-3	Use language appropriately in various contexts with proper expressions
CO-4	Communicate effectively using different parts of speech, idioms and phrases both in written and spoken forms.

27.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	0	0	3	3	0	0	0	0
CO-2	0	0	3	0	2	0	0	0	1	0
CO-3	2	0	0	0	3	2	0	0	0	0
CO-4	3	0	0	0	0	0	0	0	0	0

Issues that Matter

28.1 Course Overview

1	Course	Common
2	Course Type	Theory
3	Course Code	EN2CC03
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

28.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	War	Instruction and Discussion	18
2	Dissension	Instruction and Discussion	18
3	Identity	Instruction and Discussion	18
4	Environment	Instruction and Discussion	18
5	Refugee	Instruction and Discussion	18

28.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

28.4 Course Outcome

CO-1	Identify crucial issues of contemporary world such as injustice, violation of human rights, minority identities and consequences of war.
CO-2	Think critically about the consequences of dissension, enunciate the cause of free speech, existentialist crisis of the marginalised and so on.
CO-3	Develop a thoughtful and humane approach to the fundamental rights of the subaltern groups and refugees and issues of ecological conservation.
CO-4	Internalise the values like justice, truth, human dignity and freedom of each individual.

28.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	3	3	0	0	0	0	3	0	0
CO-2	0	2	3	0	0	0	0	2	0	0
CO-3	0	3	2	0	0	0	0	2	0	0
CO-4	0	1	0	0	0	0	0	3	0	0

Fine-Tune Your English

29.1 Course Overview

1	Course	Common
2	Course Type	Theory
3	Course Code	EN1CC01
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

29.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Sentence Structure	Instruction and Discussion	18
2	Word-Classes	Instruction and Discussion	18
3	Tense	Instruction and Discussion	18
4	Idioms	Instruction and Discussion	18
5	Writing	Instruction and Discussion	18

29.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

29.4 Course Outcome

CO-1	Use English for formal and informal communication effectively.
CO-2	Able to produce a text which is argumentative/narrative/descriptive/comparative and to argue a point or expound a theory
CO-3	Use language appropriately in various contexts with proper expressions
CO-4	Communicate effectively using different parts of speech, idioms and phrases both in written and spoken forms.

29.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	0	0	3	3	0	0	0	0
CO-2	0	0	3	0	2	0	0	0	1	0
CO-3	2	0	0	0	3	2	0	0	0	0
CO-4	3	0	0	0	0	0	0	0	0	0

Issues that Matter

30.1 Course Overview

1	Course	Common
2	Course Type	Theory
3	Course Code	EN2CC03
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 ($2 \times 5 = 10$)

30.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	War	Instruction and Discussion	18
2	Dissension	Instruction and Discussion	18
3	Identity	Instruction and Discussion	18
4	Environment	Instruction and Discussion	18
5	Refugee	Instruction and Discussion	18

30.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

30.4 Course Outcome

CO-1	Identify crucial issues of contemporary world such as injustice, violation of human rights, minority identities and consequences of war.
CO-2	Think critically about the consequences of dissension, enunciate the cause of free speech, existentialist crisis of the marginalised and so on.
CO-3	Develop a thoughtful and humane approach to the fundamental rights of the subaltern groups and refugees and issues of ecological conservation.
CO-4	Internalise the values like justice, truth, human dignity and freedom of each individual.

30.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	3	3	0	0	0	0	3	0	0
CO-2	0	2	3	0	0	0	0	2	0	0
CO-3	0	3	2	0	0	0	0	2	0	0
CO-4	0	1	0	0	0	0	0	3	0	0

Literature and/as Identity

31.1 Course Overview

1	Course	Common
2	Course Type	Theory
3	Course Code	EN3CC05
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

31.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Diasporic Identities	Instruction and Discussion	18
2	South Asian Studies	Instruction and Discussion	18
3	Life Writings	Instruction and Discussion	18
4	Indigeneous Identities	Instruction and Discussion	18
5	Alter Identities	Instruction and Discussion	18

31.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

31.4 Course Outcome

CO-1	Get familiar with diasporic and indigenous identities.
CO-2	Know more about regional identities and their representation in literature.
CO-3	Encounter the major issues of contemporary world include division of class, racial hatred and communal issues.
CO-4	Analyse the grim realities of modern world including improper handling of ecosystems, poverty and unemployment.

31.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	3	3	0	0	0	0	2	0	0
CO-2	0	3	3	0	0	0	0	0	0	0
CO-3	0	3	3	0	0	0	0	3	0	0
CO-4	0	3	3	0	0	0	0	3	0	0

Illuminations

32.1 Course Overview

1	Course	Common
2	Course Type	Theory
3	Course Code	EN4CC06
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 ($2 \times 5 = 10$)

32.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Life Writings	Instruction and Discussion	18
2	Essays	Instruction and Discussion	18
3	Speeches	Instruction and Discussion	18
4	Short Stories	Instruction and Discussion	18
5	Poems	Instruction and Discussion	18

32.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

32.4 Course Outcome

CO-1	Develop creative and insightful perspective towards life.
CO-2	Become more aware of the unfathomable powers of literatures, individuality and original thinking.
CO-3	Learn to overcome the setbacks in life through the stories of great men who belong to different parts of the world.
CO-4	Start to think critically and creatively and learn to face adversity with confidence.

32.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	3	0	0	0	0	0	2	0	0
CO-2	0	3	3	0	0	0	0	3	0	0
CO-3	3	3	3	0	0	0	0	2	0	0
CO-4	3	0	0	3	0	2	0	0	0	0

Fine-Tune Your English

33.1 Course Overview

1	Course	Common
2	Course Type	Theory
3	Course Code	EN1CC01
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

33.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Sentence Structure	Instruction and Discussion	18
2	Word-Classes	Instruction and Discussion	18
3	Tense	Instruction and Discussion	18
4	Idioms	Instruction and Discussion	18
5	Writing	Instruction and Discussion	18

33.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

33.4 Course Outcome

CO-1	Use English for formal and informal communication effectively.
CO-2	Able to produce a text which is argumentative/narrative/descriptive/comparative and to argue a point or expound a theory
CO-3	Use language appropriately in various contexts with proper expressions
CO-4	Communicate effectively using different parts of speech, idioms and phrases both in written and spoken forms.

33.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	0	0	3	3	0	0	0	0
CO-2	0	0	3	0	2	0	0	0	1	0
CO-3	2	0	0	0	3	2	0	0	0	0
CO-4	3	0	0	0	0	0	0	0	0	0

Issues that Matter

34.1 Course Overview

1	Course	Common
2	Course Type	Theory
3	Course Code	EN2CC03
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

34.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	War	Instruction and Discussion	18
2	Dissension	Instruction and Discussion	18
3	Identity	Instruction and Discussion	18
4	Environment	Instruction and Discussion	18
5	Refugee	Instruction and Discussion	18

34.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

34.4 Course Outcome

CO-1	Identify crucial issues of contemporary world such as injustice, violation of human rights, minority identities and consequences of war.
CO-2	Think critically about the consequences of dissension, enunciate the cause of free speech, existentialist crisis of the marginalised and so on.
CO-3	Develop a thoughtful and humane approach to the fundamental rights of the subaltern groups and refugees and issues of ecological conservation.
CO-4	Internalise the values like justice, truth, human dignity and freedom of each individual.

34.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	3	3	0	0	0	0	3	0	0
CO-2	0	2	3	0	0	0	0	2	0	0
CO-3	0	3	2	0	0	0	0	2	0	0
CO-4	0	1	0	0	0	0	0	3	0	0

Literature and/as Identity

35.1 Course Overview

1	Course	Common
2	Course Type	Theory
3	Course Code	EN3CC05
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

35.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Diasporic Identities	Instruction and Discussion	18
2	South Asian Studies	Instruction and Discussion	18
3	Life Writings	Instruction and Discussion	18
4	Indigeneous Identities	Instruction and Discussion	18
5	Alter Identities	Instruction and Discussion	18

35.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

35.4 Course Outcome

CO-1	Get familiar with diasporic and indigenous identities.
CO-2	Know more about regional identities and their representation in literature.
CO-3	Encounter the major issues of contemporary world include division of class, racial hatred and communal issues.
CO-4	Analyse the grim realities of modern world including improper handling of ecosystems, poverty and unemployment.

35.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	3	3	0	0	0	0	2	0	0
CO-2	0	3	3	0	0	0	0	0	0	0
CO-3	0	3	3	0	0	0	0	3	0	0
CO-4	0	3	3	0	0	0	0	3	0	0

Illuminations

36.1 Course Overview

1	Course	Common
2	Course Type	Theory
3	Course Code	EN4CC06
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

36.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Life Writings	Instruction and Discussion	18
2	Essays	Instruction and Discussion	18
3	Speeches	Instruction and Discussion	18
4	Short Stories	Instruction and Discussion	18
5	Poems	Instruction and Discussion	18

36.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

36.4 Course Outcome

CO-1	Develop creative and insightful perspective towards life.
CO-2	Become more aware of the unfathomable powers of literatures, individuality and original thinking.
CO-3	Learn to overcome the setbacks in life through the stories of great men who belong to different parts of the world.
CO-4	Start to think critically and creatively and learn to face adversity with confidence.

36.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	3	0	0	0	0	0	2	0	0
CO-2	0	3	3	0	0	0	0	3	0	0
CO-3	3	3	3	0	0	0	0	2	0	0
CO-4	3	0	0	3	0	2	0	0	0	0

Fine-Tune Your English

37.1 Course Overview

1	Course	Common
2	Course Type	Theory
3	Course Code	EN1CC01
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

37.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Sentence Structure	Instruction and Discussion	18
2	Word-Classes	Instruction and Discussion	18
3	Tense	Instruction and Discussion	18
4	Idioms	Instruction and Discussion	18
5	Writing	Instruction and Discussion	18

37.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

37.4 Course Outcome

CO-1	Use English for formal and informal communication effectively.
CO-2	Able to produce a text which is argumentative/narrative/descriptive/comparative and to argue a point or expound a theory
CO-3	Use language appropriately in various contexts with proper expressions
CO-4	Communicate effectively using different parts of speech, idioms and phrases both in written and spoken forms.

37.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	0	0	3	3	0	0	0	0
CO-2	0	0	3	0	2	0	0	0	1	0
CO-3	2	0	0	0	3	2	0	0	0	0
CO-4	3	0	0	0	0	0	0	0	0	0

Issues that Matter**38.1 Course Overview**

1	Course	Common
2	Course Type	Theory
3	Course Code	EN2CC03
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

38.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	War	Instruction and Discussion	18
2	Dissension	Instruction and Discussion	18
3	Identity	Instruction and Discussion	18
4	Environment	Instruction and Discussion	18
5	Refugee	Instruction and Discussion	18

38.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

38.4 Course Outcome

CO-1	Identify crucial issues of contemporary world such as injustice, violation of human rights, minority identities and consequences of war.
CO-2	Think critically about the consequences of dissension, enunciate the cause of free speech, existentialist crisis of the marginalised and so on.
CO-3	Develop a thoughtful and humane approach to the fundamental rights of the subaltern groups and refugees and issues of ecological conservation.
CO-4	Internalise the values like justice, truth, human dignity and freedom of each individual.

38.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	3	3	0	0	0	0	3	0	0
CO-2	0	2	3	0	0	0	0	2	0	0
CO-3	0	3	2	0	0	0	0	2	0	0
CO-4	0	1	0	0	0	0	0	3	0	0

Gems of Imagination

39.1 Course Overview

1	Course	Common
2	Course Type	Theory
3	Course Code	EN4CC07
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	54
9	Hours per Week	3
10	Number of Modules	3
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

39.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Novella	Instruction and Discussion	18
2	Plays	Instruction and Discussion	18
3	Short Stories	Instruction and Discussion	18

39.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

39.4 Course Outcome

CO-1	Able to produce their own literary works.
CO-2	Able to identify different forms of literature.
CO-3	Get familiar with various literary elements and techniques.
CO-4	Able to use language in formal and informal communication.

39.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	2	0	0	0	0	0	3	0
CO-2	3	2	0	2	0	0	0	0	0	0
CO-3	3	0	2	3	0	0	0	0	0	0
CO-4	3	0	1	0	3	2	0	0	0	0

Revisiting the Classics

40.1 Course Overview

1	Course	Common
2	Course Type	Theory
3	Course Code	EN4CC08
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	54
9	Hours per Week	3
10	Number of Modules	3
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

40.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Poems	Instruction and Discussion	18
2	Shakespeare	Instruction and Discussion	18
3	Novel	Instruction and Discussion	18

40.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

40.4 Course Outcome

CO-1	Able to identify different social and literary aspects of various lands and cultures
CO-2	Enjoy the works and are able to do critical appreciation by understanding the universality of human condition
CO-3	Get familiar with the classical writers such as Kalidasa, Homer, Dante and Milton
CO-4	Obtain knowledge in the literary techniques used in time-tested world classics.

40.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	3	0	0	0	0	0	2	0	0
CO-2	0	0	0	0	0	0	0	2	0	0
CO-3	0	3	0	0	0	0	0	2	0	0
CO-4	0	0	0	3	0	0	0	0	0	0

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Curriculum Framework



Table of Contents

1	COMPUTER FUNDAMENTALS	1
1.1	Course Overview	1
1.2	Curriculum Structure	2
1.3	Evaluation Methods	2
1.4	Course Outcome	2
1.5	CO – PO Mapping	3
1.6	CO – PSO Mapping	3
2	COMPUTER NETWORK AND INTERNET TECHNOLOGIES	4
2.1	Course Overview	4
2.2	Curriculum Structure	5
2.3	Evaluation Methods	5
2.4	Course Outcome	5
2.5	CO – PO Mapping	5
2.6	CO – PSO Mapping	6
3	Database Management systems	7
3.1	Course Overview	7
3.2	Curriculum Structure	8
3.3	Evaluation Methods	8

3.4	Course Outcome	9
3.5	CO – PO Mapping	9
3.6	CO – PSO Mapping	10
4	Operating systems	11
4.1	Course Overview	11
4.2	Curriculum Structure	12
4.3	Evaluation Methods	12
4.4	Course Outcome	13
4.5	CO – PO Mapping	13
4.6	CO – PSO Mapping	14
5	COMPUTER FUNDAMENTALS	15
5.1	Course Overview	15
5.2	Curriculum Structure	16
5.3	Evaluation Methods	16
5.4	Course Outcome	16
5.5	CO – PO Mapping	17
5.6	CO – PSO Mapping	17
6	COMPUTER NETWORK AND INTERNET TECHNOLOGIES	18
6.1	Course Overview	18
6.2	Curriculum Structure	19
6.3	Evaluation Methods	19
6.4	Course Outcome	19
6.5	CO – PO Mapping	19
6.6	CO – PSO Mapping	20
7	WORD AND DATA PROCESSING PACKAGES	21
7.1	Course Overview	21
7.2	Curriculum Structure	22

7.3	Evaluation Methods	22
7.4	Course Outcome	22
7.5	CO – PO Mapping	22
7.6	CO – PSO Mapping	23
8	PROGRAMMING IN ANSI C	24
8.1	Course Overview	24
8.2	Curriculum Structure	25
8.3	Evaluation Methods	25
8.4	Course Outcome	25
8.5	CO – PO Mapping	26
8.6	CO – PSO Mapping	26
9	CONCEPTS OF OBJECT ORIENTED PROGRAMMING	27
9.1	Course Overview	27
9.2	Curriculum Structure	28
9.3	Evaluation Methods	28
9.4	Course Outcome	28
9.5	CO – PO Mapping	29
9.6	CO – PSO Mapping	29
10	OPERATING SYSTEMS	30
10.1	Course Overview	30
10.2	Curriculum Structure	31
10.3	Evaluation Methods	31
10.4	Course Outcome	31
10.5	CO – PO Mapping	32
10.6	CO – PSO Mapping	32
11	VISUAL BASIC PROGRAMMING	33
11.1	Course Overview	33

11.2 Curriculum Structure	34
11.3 Evaluation Methods	34
11.4 Course Outcome	34
11.5 CO – PO Mapping	35
11.6 CO – PSO Mapping	35
12 WEB DEVELOPMENT AND PHP PROGRAMMING	36
12.1 Course Overview	36
12.2 Curriculum Structure	37
12.3 Evaluation Methods	37
12.4 Course Outcome	37
12.5 CO – PO Mapping	38
12.6 CO – PSO Mapping	38
13 Computer Fundamentals	39
13.1 Course Overview	39
13.2 Curriculum Structure	40
13.3 Evaluation Methods	40
13.4 Course Outcome	40
13.5 CO – PO Mapping	41
13.6 CO – PSO Mapping	41
14 Progarmming In C Language	42
14.1 Course Overview	42
14.2 Curriculum Structure	43
14.3 Evaluation Methods	43
14.4 Course Outcome	44
14.5 CO – PO Mapping	44
14.6 CO – PSO Mapping	45

15 Web Technology and Programming	46
15.1 Course Overview	46
15.2 Curriculum Structure	47
15.3 Evaluation Methods	47
15.4 Course Outcome	47
15.5 CO – PO Mapping	48
15.6 CO – PSO Mapping	48
16 Visual Programming Techniques	49
16.1 Course Overview	49
16.2 Curriculum Structure	50
16.3 Evaluation Methods	50
16.4 Course Outcome	51
16.5 CO – PO Mapping	51
16.6 CO – PSO Mapping	51
17 Software Lab I (P)	52
17.1 Course Overview	52
17.2 Evaluation Methods	53
17.3 Course Outcome	53
17.4 CO – PO Mapping	53
17.5 CO – PSO Mapping	53
18 Software Lab II(P)	54
18.1 Course Overview	54
18.2 Evaluation Methods	55
18.3 Course Outcome	55
18.4 CO – PO Mapping	55
18.5 CO – PSO Mapping	55

19 Software Lab III(P)	56
19.1 Course Overview	56
19.2 Evaluation Methods	57
19.3 Course Outcome	57
19.4 CO – PO Mapping	57
19.5 CO – PSO Mapping	57
20 Software Lab IV Project(P)	58
20.1 Course Overview	58
20.2 Evaluation Methods	59
20.3 Course Outcome	59
20.4 CO – PO Mapping	59
20.5 CO – PSO Mapping	60
21 Introduction to Computers and ANSI C Programming(P)	61
21.1 Course Overview	61
21.2 Evaluation Methods	62
21.3 Course Outcome	62
21.4 CO – PO Mapping	62
21.5 CO – PSO Mapping	63
22 Data Processing Packages, Operating System and Visual Basic Programming(P)	64
22.1 Course Overview	64
22.2 Evaluation Methods	65
22.3 Course Outcome	65
22.4 CO – PO Mapping	65
22.5 CO – PSO Mapping	66
23 C++ Programming and Web Development(P)	67
23.1 Course Overview	67

23.2 Evaluation Methods	68
23.3 Course Outcome	68
23.4 CO – PO Mapping	68
23.5 CO – PSO Mapping	69
24 Software Lab I (P)	70
24.1 Course Overview	70
24.2 Evaluation Methods	71
24.3 Course Outcome	71
24.4 CO – PO Mapping	71
24.5 CO – PSO Mapping	71
25 Software Lab II(P)	72
25.1 Course Overview	72
25.2 Evaluation Methods	73
25.3 Course Outcome	73
25.4 CO – PO Mapping	73
25.5 CO – PSO Mapping	73

COMPUTER FUNDAMENTALS**1.1 Course Overview**

1	Course	Vocational
2	Course Type	Theory
3	Course Code	CA1VOT01
4	Credit	2
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	36
9	Hours per Week	2
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

1.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Fundamentals of Computers	Chalk and talk, ICT	10
2	Basic Computer organization and number systems	Chalk and talk	6
3	Components of Computer	Chalk and talk	10
4	Software components and computer languages	Chalk and talk	10

1.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

1.4 Course Outcome

CO-1	Understand HTML commands and able to design WEB pages
CO-2	Control and manage structured programming like PHP.

1.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	3	0	2	0	0	0	0	0	3
CO-2	0	3	0	2	0	0	0	0	0	3

1.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
CO-1	0	0	0	0	3
CO-2	0	0	0	1	0

COMPUTER NETWORK AND INTERNET TECHNOLOGIES

2.1 Course Overview

1	Course	Vocational
2	Course Type	Theory
3	Course Code	CA1VOT02
4	Credit	2
5	Duration of External Examination	3 hours
6	External Assessment	60
7	Internal Assessment	15
8	Total hours	36
9	Hours per Week	2
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	2
13	Assessment Test	8 (2 × 4 = 8)

2.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Computer Networks	Chalk and talk, ICT	8
2	Transmission media	Chalk and talk	10
3	Network Model	Chalk and talk	11
4	Internet	Chalk and talk	7

2.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

2.4 Course Outcome

CO-1	Understand Object oriented concept
CO-2	Control and manage object oriented programming like C++.

2.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	3	0	2	0	0	0	0	0	3
CO-2	0	0	0	2	0	0	0	0	0	3

2.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	0	0	2	0	1
CO-2	0	0	0	3	0	0

Database Management systems

3.1 Course Overview

1	Course	Vocational
2	Course Type	Theory
3	Course Code	CA1VOT03
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	6
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

3.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Basic concepts	Chalk and talk, ICT	15
2	Data Models	Chalk and talk	15
3	Relational algebra modification of database	Chalk and talk,	20
4	Object oriented database	Chalk and talk,ICT	25
5	Query Processing	Chalk and talk,ICT	15

3.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

3.4 Course Outcome

CO-1	identify the basic concepts and various data model used in database design and architecture use
CO-2	Apply relational database theory and be able to describe relational algebra expression, tuple and domain relation expression for queries.
CO-3	Understand the use of SQL queries and the design of SQL queries
CO-4	Recognize and identify the use of indexing and hashing technique used in database design and the purpose of query processing and optimization and also demonstrate the basic of query evaluation and understanding of different network types

3.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	3	0	2	0	0	0	0	0	3
CO-2	0	3	0	2	0	0	0	0	0	3
CO-3	0	2	0	0	0	0	0	0	0	3
CO-4	0	2	0	2	0	0	0	0	0	3

3.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
CO-1	0	0	0	0	3
CO-2	0	0	0	0	3
CO-3	0	0	0	0	3
CO-4	0	0	0	0	3

Operating systems

4.1 Course Overview

1	Course	Vocational
2	Course Type	Theory
3	Course Code	CA1VOT04
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	6
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

4.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Introduction to operating systems	Chalk and talk	15
2	Process management and CPU scheduling	Chalk and talk ICT	25
3	Memory management basics	Chalk and talk,ICT	15
4	File systems	Chalk and talk	15
5	Protection and security	Chalk and talk ICT	20

4.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

4.4 Course Outcome

CO-1	Understand functions, structures and history of operating systems and understanding of design issues associated with operating systems
CO-2	Master various process management concepts including scheduling, synchronization, deadlocks
CO-3	Be familiar with multithreading and master concepts of memory management including virtual memory
CO-4	Understand the concept of system resources sharing among the users and analyse issues related to file system interface and implementation, disk management and understand protection and security mechanisms related to operating systems

4.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	3	0	2	0	0	0	0	0	3
CO-2	0	0	0	2	0	0	0	0	0	3
CO-3	0	2	0	0	0	0	0	0	0	3
CO-4	0	0	0	2	0	0	0	0	0	3

4.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
CO-1	0	0	0	0	3
CO-2	0	0	0	0	3
CO-3	0	0	0	0	3
CO-4	0	0	0	0	3

COMPUTER FUNDAMENTALS

5.1 Course Overview

1	Course	Vocational
2	Course Type	Theory
3	Course Code	CA1VOT01
4	Credit	2
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	36
9	Hours per Week	2
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

5.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Fundamentals of Computers	Chalk and talk, ICT	10
2	Basic Computer organization and number systems	Chalk and talk	6
3	Components of Computer	Chalk and talk	10
4	Software components and computer languages	Chalk and talk	10

5.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

5.4 Course Outcome

CO-1	Understand HTML commands and able to design WEB pages
CO-2	Control and manage structured programming like PHP.

5.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	3	0	2	0	0	0	0	0	3
CO-2	0	3	0	2	0	0	0	0	0	3

5.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
CO-1	0	0	0	0	3
CO-2	0	0	0	1	0

COMPUTER NETWORK AND INTERNET TECHNOLOGIES

6.1 Course Overview

1	Course	Vocational
2	Course Type	Theory
3	Course Code	CA1VOT02
4	Credit	2
5	Duration of External Examination	3 hours
6	External Assessment	60
7	Internal Assessment	15
8	Total hours	36
9	Hours per Week	2
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	2
13	Assessment Test	8 (2 × 4 = 8)

6.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Computer Networks	Chalk and talk, ICT	8
2	Transmission media	Chalk and talk	10
3	Network Model	Chalk and talk	11
4	Internet	Chalk and talk	7

6.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

6.4 Course Outcome

CO-1	Understand Object oriented concept
CO-2	Control and manage object oriented programming like C++.

6.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	3	0	2	0	0	0	0	0	3
CO-2	0	0	0	2	0	0	0	0	0	3

6.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	0	0	2	0	1
CO-2	0	0	0	3	0	0

WORD AND DATA PROCESSING PACK- AGES

7.1 Course Overview

1	Course	Vocational
2	Course Type	Theory
3	Course Code	CA2VOT03
4	Credit	2
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	36
9	Hours per Week	2
10	Number of Modules	3
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

7.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Word processing packages	Chalk and talk, ICT	12
2	Page Maker	Chalk and talk	12
3	MS-Excel	Chalk and talk	12

7.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

7.4 Course Outcome

CO-1	Understand SQL commands and able to handle SQL queries
CO-2	Control and manage programming SQL

7.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	3	0	2	0	0	0	0	0	3
CO-2	0	0	0	2	0	0	0	0	0	3

7.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	2	0	3	0	3
CO-2	0	2	0	3	0	3

PROGRAMMING IN ANSI C**8.1 Course Overview**

1	Course	Vocational
2	Course Type	Theory
3	Course Code	CA2VOT04
4	Credit	2
5	Duration of External Examination	3 hours
6	External Assessment	60
7	Internal Assessment	15
8	Total hours	36
9	Hours per Week	2
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	2
13	Assessment Test	8 (2 × 4 = 8)

8.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Basic concept of programming	Chalk and talk, ICT	8
2	Decision making and Branching	Chalk and talk	10
3	Arrays and strings	Chalk and talk,	8
4	User defined functions	Chalk and talk,ICT	10

8.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

8.4 Course Outcome

CO-1	Organization of science learning activities is necessary to rely on various methods of organization of learning and to be appropriate to learners.
CO-2	Applies the PM processes to initiate, plan, execute, monitor and control, and close projects and to coordinate all the elements of the project

8.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	2	0	2	0	0	0	0	0	3
CO-2	3	0	0	0	0	0	0	0	0	3

8.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	2	0	3	0	3
CO-2	0	2	0	3	0	3

CONCEPTS OF OBJECT ORIENTED PROGRAMMING

9.1 Course Overview

1	Course	Vocational
2	Course Type	Theory
3	Course Code	CA3VOT05
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	60
7	Internal Assessment	15
8	Total hours	54
9	Hours per Week	3
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	2
13	Assessment Test	8 (2 × 4 = 8)

9.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Basic concept of object oriented languages	Chalk and talk	9
2	Classes and objects	Chalk and talk	12
3	constructor and destructor	Chalk and talk,ICT	10
4	Inheritance and operator overloading	Chalk and talk	23

9.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

9.4 Course Outcome

CO-1	Bridge the fundamental concepts of computers with the present level of knowledge of the students. Also understand different number systems and their conversions.
CO-2	Understand hardware components of a digital computer with input and output, peripheral devices
CO-3	Can able to understand computer software and computer languages.

9.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	1	0	0	2	0	2	0	0	0	0
CO-2	0	0	0	3	0	1	2	0	0	2
CO-3	0	0	0	1	0	0	0	0	0	0

9.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	2	0	3	0	3
CO-2	0	2	0	3	0	3
CO-3	0	2	0	3	0	3

OPERATING SYSTEMS

10.1 Course Overview

1	Course	Vocational
2	Course Type	Theory
3	Course Code	CA3VOT06
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	60
7	Internal Assessment	15
8	Total hours	54
9	Hours per Week	4
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	2
13	Assessment Test	8 (2 × 4 = 8)

10.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Introduction to operating systems	Chalk and talk, ICT	10
2	Process management	Chalk and talk ICT	8
3	CPU scheduling	Chalk and talk	18
4	Memory management basics	Chalk and talk	18

10.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

10.4 Course Outcome

CO-1	Apply organizational structure and select the most appropriate networking architecture and technologies
CO-2	Understand the transmission Media and LAN Topologies
CO-3	Understand the OSI and TCP-IP Reference Models.
CO-4	Working knowledge of internet and Internet protocols.

10.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	3	2	0	0	1	0	0	2
CO-2	3	0	2	1	0	0	0	0	0	3
CO-3	3	0	2	1	0	0	0	0	0	2
CO-4	3	0	3	1	0	0	0	0	0	2

10.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	2	0	3	0	3
CO-2	0	2	0	3	0	3
CO-3	0	2	0	3	0	3
CO-4	0	2	0	3	0	3

VISUAL BASIC PROGRAMMING**11.1 Course Overview**

1	Course	Vocational
2	Course Type	Theory
3	Course Code	CA4VOT07
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	60
7	Internal Assessment	15
8	Total hours	54
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	2
13	Assessment Test	8 (2 × 4 = 8)

11.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Introduction	Chalk and talk	22
2	methos, properties and events	Chalk and talk	14
3	Function and file handling	Chalk and talk	8
4	File handling	Chalk and talk ICT	10

11.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

11.4 Course Outcome

CO-1	To improve and enhance written materials and build compelling documents with confidence
CO-2	Handle adobe PageMaker more effectively and efficiently.
CO-3	Handle all the tools necessary to create and use basic spreadsheets.

11.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	3	2	0	0	1	0	0	2
CO-2	3	0	2	1	0	0	0	0	0	3
CO-3	3	0	2	1	0	0	0	0	0	4

11.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	0	0	2	0	1
CO-2	0	0	0	3	0	3
CO-3	0	0	0	3	0	3

WEB DEVELOPMENT AND PHP PROGRAMMING

12.1 Course Overview

1	Course	Vocational
2	Course Type	Theory
3	Course Code	CA4VOT08
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	60
7	Internal Assessment	15
8	Total hours	54
9	Hours per Week	3
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	2
13	Assessment Test	8 (2 × 4 = 8)

12.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	HTML and CSS	Chalk and talk, ICT	18
2	Javascript	Chalk and talk	12
3	PHP And Mysql	Chalk and talk,	15
4	implementing MySQL using PHP	Chalk and talk,ICT	9

12.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

12.4 Course Outcome

CO-1	Illustrate the flowchart and algorithm for given problem and understand the fundamentals of c programming
CO-2	Develop conditional and iterative statements to write C programs
CO-3	Develop conditional and iterative statements to write C programs
CO-4	Understand functions.

12.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	3	2	0	0	1	0	0	2
CO-2	3	0	2	1	0	0	0	0	0	3
CO-3	3	0	2	1	0	0	0	0	0	2
CO-4	3	0	3	1	0	0	0	0	0	2

12.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	2	0	3	0	3
CO-2	0	2	0	3	0	3
CO-3	0	2	0	3	0	3
CO-4	0	2	0	3	0	3

Computer Fundamentals

13.1 Course Overview

1	Course	Complementary
2	Course Type	Theory
3	Course Code	CA1CMT01
4	Credit	2
5	Duration of External Examination	3 hours
6	External Assessment	60
7	Internal Assessment	10
8	Total hours	36
9	Hours per Week	2
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

13.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Fundamentals of Computers	Chalk and talk, ICT	10
2	Number systems	Chalk and talk	6
3	Boolean Algebra and Logic circuits	Chalk and talk	8
4	Computer Software and Languages	Chalk and talk	6
5	Operating system	Chalk and talk, ICT	6

13.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

13.4 Course Outcome

CO-1	Know about basics concepts of object oriented programming.
CO-2	Handle important concepts like class, object and constructor
CO-3	Know about oops concepts like inheritance, overloading and polymorphism.

13.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	0	0	0	0	1	0	0	0
CO-2	1	0	1	0	0	0	1	0	0	1
CO-3	1	0	1	0	0	0	1	0	0	1

13.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	2	0	3	0	3
CO-2	0	2	0	3	0	3
CO-3	0	2	0	3	0	3

Progarmming In C Language

14.1 Course Overview

1	Course	Complementary
2	Course Type	Theory
3	Course Code	CA2CMT02
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	60
7	Internal Assessment	10
8	Total hours	36
9	Hours per Week	2
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

14.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Basic concepts of programming	Chalk and talk	6
2	Decision making and Branching	Chalk and talk	10
3	Arrays	Chalk and talk	8
4	User defined functions	Chalk and talk	8
5	Structure	Chalk and talk	4

14.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

14.4 Course Outcome

CO-1	Understand functions, structures and history of operating systems and understanding of design issues associated with operating systems
CO-2	Master various process management concepts including scheduling, synchronization, deadlocks
CO-3	Understanding the concept of scheduling and method of process scheduling
CO-4	Be familiar with multithreading and master concepts of memory management including virtual memory and file handling in operating systems

14.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	3	2	0	0	1	0	0	2
CO-2	3	0	2	1	0	0	0	0	0	3
CO-3	3	0	2	1	0	0	0	0	0	3
CO-4	3	0	3	1	0	0	0	0	0	2

14.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	2	0	3	0	3
CO-2	0	0	0	2	0	1
CO-3	0	0	0	2	0	2
CO-4	0	0	0	2	0	1

Web Technology and Programming

15.1 Course Overview

1	Course	Complementary
2	Course Type	Theory
3	Course Code	CA3CMT03
4	Credit	2
5	Duration of External Examination	3 hours
6	External Assessment	60
7	Internal Assessment	10
8	Total hours	36
9	Hours per Week	2
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

15.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Computer networks	Chalk and talk, ICT	6
2	Concept of ISP	Chalk and talk	6
3	Web server	Chalk and talk,	8
4	The art of creating the website	Chalk and talk,ICT	10
5	Introduction web browsers	Chalk and talk, ICT	6

15.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

15.4 Course Outcome

CO-1	Understand the basic concept of event-driven program and intrinsic controls in Visual Basic programming
CO-2	Use a modern IDE to visually and programmatically create programs with GUIs
CO-3	Understand additional Visual Basic controls
CO-4	Understand the file handling methods.

15.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	3	2	0	0	1	0	0	2
CO-2	3	0	2	1	0	0	0	0	0	3
CO-3	3	0	2	1	0	0	0	0	0	3
CO-4	3	0	3	1	0	0	0	0	0	3

15.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	2	0	2	0	2
CO-2	0	2	0	2	0	2
CO-3	0	2	0	3	0	3
CO-4	0	2	0	3	0	3

Visual Programming Techniques

16.1 Course Overview

1	Course	Complementary
2	Course Type	Theory
3	Course Code	CA4CMT04
4	Credit	2
5	Duration of External Examination	3 hours
6	External Assessment	60
7	Internal Assessment	10
8	Total hours	36
9	Hours per Week	2
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

16.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Data Base Management System	Chalk and talk	4
2	Visual Basic - Basic Concepts	Chalk and talk	10
3	Designing the User Interface	Chalk and talk,ICT	8
4	Controls	Chalk and talk	8
5	Mastering Menus and Toolbars	Chalk and talk	6

16.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

16.4 Course Outcome

CO-1	Know how to create web pages using HTML with the help of CSS.
CO-2	Handle client side scripting language like JavaScript.
CO-3	Create web pages with a server side scripting language and can able to create web pages with database connectivity with the help of MySql.

16.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	0	0	1	0	1	2	0	0	0
CO-2	0	0	0	2	0	0	1	0	0	0
CO-3	2	0	0	3	0	0	1	0	1	0

16.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	2	0	3	0	3
CO-2	0	2	0	3	0	3
CO-3	0	0	0	0	3	0

Software Lab I (P)**17.1 Course Overview**

1	Course	Vocational
2	Course Type	Practical
3	Course Code	CA1VOP01
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	144
9	Hours per Week	4
10	Number of Experiments	15
11	Total Week to complete	21
Distribution of Internal Marks		
12	Attendance	2
13	Record	4
14	Assessment Test	4 (1 × 4 = 1)

17.2 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Practical Record	Internal Assessment
3	Exprimental Skill	Internal Assessment
4	University Examination	External Assessment

17.3 Course Outcome

CO-1	Handle DOS commands and can able to deal with batch files.
CO-2	Control and manage structured programming like C.

17.4 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	3	2	0	0	1	0	0	2
CO-2	3	0	2	1	0	0	0	0	0	3

17.5 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
CO-1	0	0	0	0	3
CO-2	0	0	0	0	3

Software Lab II(P)**18.1 Course Overview**

1	Course	Vocational
2	Course Type	Practical
3	Course Code	CA2VOP02
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	144
9	Hours per Week	4
10	Number of Experiments	15
11	Total Week to complete	21
Distribution of Internal Marks		
12	Attendance	2
13	Record	4
14	Assessment Test	4 (1 × 4 = 1)

18.2 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Practical Record	Internal Assessment
3	Experimental Skill	Internal Assessment
4	University Examination	External Assessment

18.3 Course Outcome

CO-1	Create word document and excel sheets with a commanding knowledge.
CO-2	To develop visual basic IDE applications

18.4 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	3	0	2	0	0	1	0	0	2
CO-2	3	2	0	1	0	0	1	0	0	3

18.5 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
CO-1	0	0	0	0	3
CO-2	0	0	0	0	3

Software Lab III(P)**19.1 Course Overview**

1	Course	Vocational
2	Course Type	Practical
3	Course Code	CA3VOP03
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	180
9	Hours per Week	6
10	Number of Experiments	15
11	Total Week to complete	18
Distribution of Internal Marks		
12	Attendance	2
13	Record	4
14	Assessment Test	4 (1 × 4 = 1)

19.2 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Practical Record	Internal Assessment
3	Experimental Skill	Internal Assessment
4	University Examination	External Assessment

19.3 Course Outcome

CO-1	Develop programs in C++ with Object Oriented Concepts
CO-2	Develop web pages with client side scripting capabilities.

19.4 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	3	2	0	0	1	0	0	2
CO-2	3	0	3	1	0	0	0	0	0	3

19.5 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
CO-1	0	0	0	0	3
CO-2	0	0	0	0	3

Software Lab IV Project(P)**20.1 Course Overview**

1	Course	Vocational
2	Course Type	Practical
3	Course Code	CA4VOP04
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	180
9	Hours per Week	6
10	Number of Experiments	15
11	Total Week to complete	18
Distribution of Internal Marks		
12	Attendance	2
13	Record	4
14	Assessment Test	4 (1 × 4 = 1)

20.2 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Practical Record	Internal Assessment
3	Experimental Skill	Internal Assessment
4	University Examination	External Assessment

20.3 Course Outcome

CO-1	Bridge the fundamental concepts of computers with the present level of knowledge of the students.
CO-2	Understand binary, hexadecimal and octal number systems and their conversions.
CO-3	Understand hardware components of a digital computer with input and output, peripheral devices

20.4 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	2	2	2	0	0	2	0	0	0
CO-2	2	0	0	2	0		0	0	0	0
CO-3	0	0	0	1	0	0	3	0	0	3

20.5 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
CO-1	0	0	0	0	3
CO-2	0	0	0	0	3
CO-3	0	0	0	0	3

Introduction to Computers and ANSI C Programming(P)

21.1 Course Overview

1	Course	Vocational
2	Course Type	Practical
3	Course Code	CA2VOP01
4	Credit	2
5	Duration of External Examination	3 hours
6	External Assessment	40
7	Internal Assessment	10
8	Total hours	72
9	Hours per Week	2
10	Number of Experiments	15
11	Total Week to complete	21
Distribution of Internal Marks		
12	Attendance	2
13	Record	4
14	Assessment Test	4 (1 × 4 = 1)

21.2 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Practical Record	Internal Assessment
3	Experimental Skill	Internal Assessment
4	University Examination	External Assessment

21.3 Course Outcome

CO-1	Illustrate the flowchart and algorithm for given problem and understand the fundamentals of c programming
CO-2	Develop conditional and iterative statements to write C programs
CO-3	Develop conditional and iterative statements to write C programs
CO-4	Understand functions.

21.4 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	0	0	2	0	0	0	0	0	3
CO-2	0	2	0	2	0	0	3	0	0	3
CO-3	0	3	0	3	0	0	3	0	0	2
CO-4	0	0	0	1	0	0	3	0	0	3

21.5 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
CO-1	0	0	0	0	3
CO-2	0	0	0	0	3
CO-3	0	0	0	0	3
CO-4	0	0	0	0	3

Data Processing Packages, Operating System and Visual Basic Programming(P)

22.1 Course Overview

1	Course	Vocational
2	Course Type	Practical
3	Course Code	CA4VOP02
4	Credit	2
5	Duration of External Examination	3 hours
6	External Assessment	40
7	Internal Assessment	10
8	Total hours	72
9	Hours per Week	2
10	Number of Experiments	15
11	Total Week to complete	21
Distribution of Internal Marks		
12	Attendance	2
13	Record	4
14	Assessment Test	4 (1 × 4 = 1)

22.2 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Practical Record	Internal Assessment
3	Experimental Skill	Internal Assessment
4	University Examination	External Assessment

22.3 Course Outcome

CO-1	Apply organizational structure and select the most appropriate networking architecture and technologies
CO-2	Understand the transmission Media and LAN Topologies
CO-3	Understand the OSI and TCP-IP Reference Models.
CO-4	Working knowledge of internet and Internet protocols.

22.4 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	0	0	2	0	0	0	0	0	3
CO-2	0	3	0	2	0	0	0	0	0	3
CO-3	0	3	0	2	0	0	0	0	0	3
CO-4	0	2	0	0	0	0	0	0	0	3

22.5 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
CO-1	0	0	0	0	3
CO-2	0	0	0	0	3
CO-3	0	0	0	0	3
CO-4	0	0	0	0	3

C++ Programming and Web Development(P)**23.1 Course Overview**

1	Course	Vocational
2	Course Type	Practical
3	Course Code	CA4VOP03
4	Credit	2
5	Duration of External Examination	3 hours
6	External Assessment	40
7	Internal Assessment	10
8	Total hours	72
9	Hours per Week	2
10	Number of Experiments	15
11	Total Week to complete	21
Distribution of Internal Marks		
12	Attendance	2
13	Record	4
14	Assessment Test	4 (1 × 4 = 1)

23.2 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Practical Record	Internal Assessment
3	Experimental Skill	Internal Assessment
4	University Examination	External Assessment

23.3 Course Outcome

CO-1	Understand the basic concept of event-driven program and intrinsic controls in Visual Basic programming
CO-2	Use a modern IDE to visually and programmatically create programs with GUIs
CO-3	Understand additional Visual Basic controls

23.4 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	2	0	2	0	0	0	0	0	3
CO-2	0	3	0	2	0	0	0	0	0	3
CO-3	0	0	0	2	0	0	0	0	0	3

23.5 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
CO-1	0	0	0	0	3
CO-2	0	0	0	0	3
CO-3	0	0	0	0	3

Software Lab I (P)**24.1 Course Overview**

1	Course	Complementary
2	Course Type	Practical
3	Course Code	CA2CMP01
4	Credit	2
5	Duration of External Examination	3 hours
6	External Assessment	40
7	Internal Assessment	20
8	Total hours	144
9	Hours per Week	2
10	Number of Experiments	15
11	Total Week to complete	39
Distribution of Internal Marks		
12	Attendance	2
13	Record	4
14	Assessment Test	4 (1 × 4 = 1)

24.2 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Practical Record	Internal Assessment
3	Experimental Skill	Internal Assessment
4	University Examination	External Assessment

24.3 Course Outcome

CO-1	Control and manage structured programming like C.
CO-2	Create word document and excel sheets with a commanding knowledge.

24.4 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	3	0	2	0	0	1	0	0	2
CO-2	3	2	0	1	0	0	1	0	0	3

24.5 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
CO-1	0	0	0	0	3
CO-2	0	0	0	0	3

Software Lab II(P)**25.1 Course Overview**

1	Course	Complementary
2	Course Type	Practical
3	Course Code	CA2CMP02
4	Credit	2
5	Duration of External Examination	3 hours
6	External Assessment	40
7	Internal Assessment	20
8	Total hours	144
9	Hours per Week	2
10	Number of Experiments	15
11	Total Week to complete	39
Distribution of Internal Marks		
12	Attendance	2
13	Record	4
14	Assessment Test	4 (1 × 4 = 1)

25.2 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Practical Record	Internal Assessment
3	Experimental Skill	Internal Assessment
4	University Examination	External Assessment

25.3 Course Outcome

CO-1	To develop visual basic IDE applications

25.4 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	3	2	0	0	1	0	0	2

25.5 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
CO-1	0	0	0	0	3

**PAVANATMA COLLEGE
MURICKASSERY**

Department of Malayalam

CURRICULUM FRAMEWORK

of

**B. A Malayalam with Journalism Model II
(Based on MGU 2017 Syllabus)**

August 2019

Curriculum Frame Work 2019, B.A Malayalam with Journalism (model II)

Part A

1. Institutional Objectives

A vibrant, enlightened, and responsible community founded on a relentless pursuit of excellence by

1	Encouraging higher education among the economically weak and poor sections of the community, irrespective of caste and creed.
2	Instilling commitment to academic mastery to seek new pastures of life by being a center of excellence in arts and science.
3	Fostering in the individual a sense of concern for the less privileged fellow beings.

2. Programme Outcomes (PO)

A person obtaining a Bachelor's and Master's degree from Pavanatma should demonstrate the following characteristic attributes:

PO1	Equipped with in-depth & extensive theoretical and practical knowledge and understanding of their disciplines to meet career needs.
PO2	Equipped with an inter disciplinary perspective.
PO3	Able to create new knowledge and opportunities for learning through the process of research and inquiry.
PO4	Able to use a basic range of established techniques to analyze information and propose solutions.
PO5	Able to communicate accurately and reliably to a range of audiences.
PO6	Able to exercise personal responsibility and decision-making and able to work in a group
PO7	Able to identify their own learning needs and to select an appropriate program of further study.
PO8	Possess behavior consistent with academic integrity and social responsibility
PO9	Be Confident and skillful to take up responsibilities and challenges and able to meet targets and deadlines
PO10	Possess capacity to use appropriate technologies recognizing their advantages and limitations, by being aware of technological innovations and advancements

3. Programme Outline of B. A Malayalam

1.	Programme Duration	6 Semesters
2.	Total Credits required for successful completion of the Programme	120
3.	Credits required from Common Course I (English)	16
4.	Credits required from Common Course II (Hindi/Malayalam)	8
5.	Credits required from Core in Malayalam	52

Curriculum Frame Work 2019, B.A Malayalam with Journalism (model II)

6.	Credits from Project	4
7.	Credits from Complementary	8
8.	Credits from Vocational Courses (Journalism , Copy Writing, Computer Application)	28
9.	Credits from Open course	4

4. Programme Specific Objectives of B. A Malayalam

The objectives of the B.A Malayalam Programme at Pavanatma are:

1	ഭാഷയും സാഹിത്യവും ആഴത്തിൽ പഠിക്കുന്നതിനും മാതൃഭാഷാഭിമുഖ്യം നേടുന്നതിനും കഴിവ് നേടുന്നു.
2	സർഗശേഷിയും ആസ്വാദന ശേഷിയും ഉണർത്തുന്നതിന് പ്രാപ്തരാവുക.
3	പത്രം, റേഡിയോ, ടെലിവിഷൻ , നവമാധ്യമ പ്രവർത്തനങ്ങൾ എന്നിവയിൽ അടിസ്ഥാന പരിശീലനം നേടുക.
4	സർഗാത്മകമായി പരസ്യം നിർമ്മിക്കുന്നതിനും പരസ്യഭാഷയുടെ വിവിധ തലങ്ങളെ മനസ്സിലാക്കുന്നതിനും പ്രാപ്തി നേടുന്നു.
5	വിവരസാങ്കേതിക മേഖലയിൽ അടിസ്ഥാന പരിചയവും പ്രായോഗിക പരിജ്ഞാനവും നേടുന്നതിന് പ്രാപ്തരാവുക.
6	ഉദാത്തമായ ജീവിതദർശനവും മൂല്യബോധവും സാമൂഹ്യപ്രതിബദ്ധതയും നേടുക.

5. Programme Specific Outcomes of B. A Malayalam

On completion of the B.A Malayalam programme at Pavanatma, a student should

PSO1	ഭാഷയേയും സാഹിത്യത്തേയും ആഴത്തിൽ മനസ്സിലാക്കുകയും മാതൃഭാഷാഭിമുഖ്യം നേടുകയും ചെയ്തു.
PSO2	സർഗാത്മക രചനകളിൽ ഏർപ്പെടുന്നതിനും ആസ്വാദനശേഷി വളർത്തുന്നതിനും പ്രാപ്തി നേടി.
PSO3	മാധ്യമ-നവമാധ്യമ പ്രവർത്തനങ്ങളിൽ അടിസ്ഥാന പരിചയം നേടി.
PSO4	സർഗാത്മകമായ പരസ്യ നിർമ്മാണത്തിൽ പ്രാപ്തി നേടി.
PSO5	വിവരസാങ്കേതിക മേഖലയിൽ പ്രായോഗിക പരിജ്ഞാനം നേടി.
PSO6	സാമൂഹ്യപ്രതിബദ്ധതയും ഉയർന്ന മൂല്യബോധവും ഉദാത്തമായ ജീവിതദർശനവും ഉൾക്കൊള്ളുവാൻ കഴിഞ്ഞു.

6. Assessment Methods

Curriculum Frame Work 2019, B.A Malayalam with Journalism (model II)

6.1. In-Semester Assessment and End-Semester Assessment

The evaluation of each course contains two parts:.

- (i) Internal or In-Semester Assessment (ISA)
- (ii) External or End-Semester Assessment (ESA)

The internal to external assessment ratio shall be 1:4.

Both internal and external marks are to be rounded to the next integer.

All papers (theory & practical), grades are given on a 7-point scale based on the total percentage of marks, (ISA+ESA) as given below:-

Percentage of Marks	Grade	Grade Point (GP)
95 and above	S Outstanding	10
85 to below 95	A+ Excellent	9
75 to below 85	A Very Good	8
65 to below 75	B+ Good	7
55 to below 65	B Above Average	6
45 to below 55	C Satisfactory	5
35 to below 45	D Pass	4
Below 35	F Failure	0
	Ab Absent	0

6.2. Credit Point (CP) and Credit Point Average (CPA)

Credit Point (CP) of a course is calculated using the formula:-

$$CP = C \times GP,$$

where C is the Credit and GP is the Grade point

Semester Grade Point Average (SGPA) of a Semester is calculated using the formula:-

$$SGPA = TCPS/TCS,$$

where TCPS is the Total Credit Point of that semester,
TCS is the total credit of that semester

Cumulative Grade Point Average (CGPA) is calculated using the formula:-

$$CGPA = TCP/TC,$$

where TCP is the Total Credit Point of the programme,
TC is the Total Credit of the programme

Curriculum Frame Work 2019, B.A Malayalam with Journalism (model II)

Grade Point Average (**GPA**) of Common Course I, Common Course II, Complementary Course I, Complementary Course II, Vocational course, Core Course is calculated using the formula:-

$$\text{GPA} = \text{TCPC}/\text{TCC},$$

where **TCPC** is the Total Credit Point of a category of course,
TCC is the total credit of that category of course

Grades for the different courses, semesters and overall programme are given based on the corresponding CPA as shown below:

GPA	Grade
9.5 and above	S Outstanding
8.5 to below 9.5	A+ Excellent
7.5 to below 8.5	A Very Good
6.5 to below 7.5	B+ Good
5.5 to below 6.5	B Above Average
4.5 to below 5.5	C Satisfactory
3.5 to below 4.5	D Pass
Below 3.5	F Failure
	Ab Absent

6. 3. Marks Distribution for Internal and External Evaluation

The external theory examination of all semesters shall be conducted by the University at the end of each semester. Internal evaluation is to be done by continuous assessment. Marks distribution for external and internal assessments and the components for internal evaluation with their marks are shown below:

6.3.1. For all courses without practical

a) Marks of external Examination : 80

b) Marks of internal evaluation : 20

Components of Internal Evaluation of Theory	Marks
Attendance	5
Assignment /Seminar/Viva	5
Test papers (2x5=10)	10
Total	20

Curriculum Frame Work 2019, B.A Malayalam with Journalism (model II)

6.3.2. For course with practical

a) Marks of external Examination : 80

b) Marks of internal evaluation : 20

Components of Internal Evaluation of theory	Marks
Attendance	5
Assignment /Seminar/Viva	5
Test papers (2x5=10)	10
Total	20

6.3.3. For practical examinations

a) Marks for external evaluation : 40

b) Marks for internal evaluation: 10

Components of Internal Evaluation of Practical	Marks
Attendance	2
Record*	4
Test papers (1x4=4)	4
Total	10
<i>*Marks awarded for Record should be related to number of experiments recorded and duly signed by the teacher concerned in charge</i>	

*****Division of internal marks for record (maximum 4 marks)*****

No of experiments	Marks
14 and above	4
12-13	3
10-11	2
8-10	1
Less than 8	0

All three components of Internal Assessments (for theory and practical) are mandatory.

6.3.4. For projects

a) Marks of external evaluation : 80

b) Marks of internal evaluation : 20

Components of External Evaluation of Project	Marks
Dissertation-Project	45
Viva-Voce– Project	27
Industrial Visit Report	5

Curriculum Frame Work 2019, B.A Malayalam with Journalism (model II)

Viva-Voce, Industrial Visit	3
Total	80

Components of internal Evaluation of Project	Marks
Punctuality	4
Experimentation/data collection	5
Knowledge	5
Report	4
Industrial Visit	2
Total	20

6.3.5. Attendance Evaluation for all papers

% of attendance	Marks
90 and above	5
85 – 89	4
80-84	3
76-79	2
75	1
<i>(Decimals are to be rounded to the next higher whole number)</i>	

6.4. Assignments

- Assignments are to be done from 1st to 6th Semesters.
- At least one assignment should be done in each semester for all courses.

6.5. Seminar/Viva

- A seminar in the 5th and 6th semester for each course
- A Viva-voce in the 4th semester for each course.

6.6. Test Papers

- Two test papers are to be conducted in each semester for each course.

7. Pattern of questions Papers (External Theory Examinations)

Curriculum Frame Work 2019, B.A Malayalam with Journalism (model II)

7. 1. Without practical

Sl. No.	Pattern	Marks	Choice of questions	Total marks
1	Short Answer/problem type	2	10/12	20
2	Short essay/problem	5	6/9	30
3	Essay/problem	15	2/4	30
TOTAL				80

7.2. With practical

Sl. No.	Pattern	Marks	Choice of questions	Total marks
1	Short Answer/problem type	15	2/2	30
2	Short essay/problem	20	1	20
3	Essay/problem	30	1	30
TOTAL				80

Detailed Scheme of the Programme B. A Malayalam with Journalism

(Model II)

**Curriculum Frame Work 2019, B.A Malayalam with
Journalism (model II)**

Semester 1

**1/1. – English - EN1CC01 FINE - TUNE YOUR
ENGLISH**

1.1. Course Overview

PROGRAMME	BA ENGLISH LANGUAGE AND LITERATURE
SEMESTER	I
COURSE	FINE - TUNE YOUR ENGLISH
COURSE CODE	EN1CC01
COURSE TYPE(THEORY/PRACTICAL)	THEORY
CREDITS	4
NO. OF HOURS PER WEEK	5
MARKS (INTERNAL)	20
MARKS (EXTERNAL)	80
ASSIGNMENT (INTERNAL)	1
TESTS(INTERNAL)	2

1.2 . SYLLABUS:

Module	Hr s.	DETAILS	Marks For University Exam	Approximate Time Schedule (weeks)
I	18	The Sentence and Its Structure - How to Write Effective Sentences – Phrases -What Are They? - The Noun Clauses - The Adverb Clause - —If All the Trees Were Bread and Cheese - The Relative Clause - How the Clauses Are Conjoined - Word-Classes and Related Topics - Understanding the Verb - Understanding the Auxiliary Verb - Understanding the Adverbs - Understanding the Pronoun - The Reflexive Pronoun - The Articles I - The Articles II - The Adjective - Phrasal Verbs - Mind Your Prepositions	15	5

Curriculum Frame Work 2019, B.A Malayalam with Journalism (model II)

II	18	To Err Is Human - Concord - A Political Crisis - Errors, Common and Uncommon - False Witnesses - The Anatomy of Mistakes- A Fault-finder Speaks - A Lecture on AIDS - A Test for You, Reader - Ungrammatical Gossip - Round Circles and Equal Halves: A Look at Tautology - Comparisons are Odious - In Defence Of A Friend - An Invitation Spelling and Pronunciation - Pronunciation: Some Tips - More Tips on Pronunciation – Spelling - An Awesome Mess? - Spelling Part II	15	5
III	18	Singleness of Meaning - Shades of Meaning - Confusing Pairs - What Is the Difference? - Mismatching Mars the Meaning The Tense and Related Topics -Presentness‘ and Present Tenses- The Presentness‘ of a Past Action - Futurity in English – Passivization Idiomatic Language- Animal‘ Expressions - Idiomatic Phrases - Heady‘ Expressions – Body Language	15	5
IV	18	Interrogatives and Negatives - Negatives- How to Frame Questions -What’s What? The Question Tag Conversational English - Polite Expressions - Some Time Expressions - In Conversation - Is John There Please? Miscellaneous and General Topics - On Geese and Mongooses - Pluralisation - On Gender and Sexisms Reading – Kinds of Reading – Recreational Reading – Study-type Reading Survey Reading – The Process of Reading – Readability – The Importance of Reading – Previewing - Skimming	15	5
V	18	The world of words- have a hearty meal- word formation-Use the specific word- word games-the irreplaceable word- Let’s play games- body vocabulary Very Good but Totally Incompetent - Long Live the Comma - The Possessive Case- Letter Writing- Academic Assignments	20	5

Curriculum Frame Work 2019, B.A Malayalam with Journalism (model II)

1.3.COURSE OUTCOMES(COs)

By the end of this course, the student should be able to

SL. No.	DESCRIPTION
CO 1	Use English for formal and informal communication effectively.
CO 2	Able to produce a text which is argumentative/narrative/descriptive/comparative and to argue a point or expound a theory.
CO 3	Use language appropriately in various contexts with proper expressions.
CO 4	Communicate effectively using different parts of speech, idioms and phrases both in written and spoken forms.

1.4. CO- PO Mapping

(3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	-	-	-	-	3	3	-	-	-	-
CO 2	-	-	3	-	2	-	-	-	1	-
CO 3	2	-	-	-	3	2	-	-	3	-
CO 4	3	-	-	-	3	-	-	-	-	-
CO 5	2.50	-	3	-	2.75	2.50	-	-	2	-

1.5. CO- PSO Mapping

3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

1.6. TEXT/REFERENCE BOOKS:

S.No.	BOOK TITLE / AUTHORS / PUBLICATION	T/R
1	<i>Fine-tune Your English</i> by Dr Mathew Joseph. Orient Blackswan and Mahatma Gandhi University	T
2	<i>Current English Grammar and Usage</i> by R.P. Sinha. Oxford University Press.	R

1.2 ML1CCT01 Second Language കഥ നോവൽ(Malayalam)

1.1. Course Overview

Course :	ML1CCT01 കഥ നോവൽ

Curriculum Frame Work 2019, B.A Malayalam with Journalism (model II)

Type of the course	Theory
Hours/Week:	5
Credits	4
Hours/ Sem	90
Marks (Internal)	20
Marks (External):	80
Assignments (Internal)	1
Tests (Internal)	2

1.2 SYLLABUS:

Module	Hrs	Topic	Marks for Uty Exam	Approximate Time schedule
1.	20	കഥ	20	Weeks 1-4
2.	20	കഥ	21	Weeks 5-10
3.	20	കഥ	22	Weeks 11-14
4.	20	നോവൽ	17	Weeks 15-18

1.3.COURSE OUTCOMES:(COs)

By the end of this course, the student should be able to

Sl.No.	DESCRIPTION
CO 1	സാഹിത്യ പഠന പരിചയവും വായനാഭിരുചിയും ആസ്വാദന ശേഷിയും വളർത്തിയെടുക്കുക.
CO 2	ചെറുകഥ, നോവൽ- രൂപത്തിലും ഭാവത്തിലും തലത്തിലും സംഭവിച്ചു കൊണ്ടിരിക്കുന്ന മാറ്റം മനസ്സിലാക്കുക.
CO 3	മലയാള ചെറുകഥയുടെ സഞ്ചാര പരിണാമ ദിശകളെക്കുറിച്ച് അറിവ് നേടുക.
CO 4	മലയാള ചെറുകഥ,നോവൽ രംഗത്തെ പ്രഗൽഭരെ മനസ്സിലാക്കുക.കൃതികളെ കുറിച്ച് സാമാന്യ അവബോധം നേടുക .

1.4. CO- PO Mapping

(3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	1	-	2	-	-	-	-	-	-	-
CO 2	-	1	-	-	-	-	-	-	2	-
CO 3	-	-	-	-	-	-	-	-	-	-
CO 4	-	-	-	1	-	2	-	-	-	-

1.5. CO- PSO Mapping

3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1					

Curriculum Frame Work 2019, B.A Malayalam with Journalism (model II)

CO 2					
CO 3					
CO 4					

(COMMON COURSES ARE NOT MAPPED TO PSO)

1.6. TEXT/REFERENCE BOOKS:

S.No.	BOOK TITLE / AUTHORS / PUBLICATION	T/R
1	മലയാള ചെറുകഥാ സാഹിത്യ ചരിത്രം - എം അച്യുതൻ	T
2	മലയാള സാഹിത്യം കാലഘട്ടങ്ങളിലൂടെ - എരുമേലി	T
3	നോവൽ സാഹിത്യ ചരിത്രം - ഡോ. കെ.എം തരകൻ	R

1.3 ML1CRT01 നവീനകവിത

1.1. Course Overview

Course :	ML1CRT01 നവീനകവിത
Type of the course	Theory
Hours/Week:	5
Credits	4
Hours/ Sem	70
Marks (Internal)	20
Marks (External):	80
Assignments (Internal)	1
Tests (Internal)	2

1.2. SYLLABUS:

Module	Hrs	Topic	Marks for Uty Exam	Approximate Time schedule
1.	22	കാല്പനിക കവിതകൾ	18	Weeks 1-4
2.	23	ജീവിത യാഥാർത്ഥ്യവും കവിതയും	22	Weeks 5-10
3.	22	ആധുനിക കവിതകൾ	19	Weeks 11-14
4.	23	പരിസ്ഥിതി , സ്ത്രീ , ദളിത് സങ്കല്പങ്ങൾ	21	Weeks 15-18

1.3. COURSE OUTCOMES:(COs)

By the end of this course, the student should be able to

S.No.	DESCRIPTION
CO 1	പരിതാപ കവിതാസാഹിത്യ ചരിത്രത്തെപ്പറ്റി ബോധവാനായി , ആശയവിനിമയം നടത്തുന്നു.
CO 2	കവിതാപഠനത്താൽ സമൂഹത്തിൽ ഉൾക്കൊള്ളുന്ന മാറ്റങ്ങൾ നിരീക്ഷിച്ച് സമകാലിക അവബോധം ഉൾക്കൊള്ളുന്നു.
CO 3	അഭിപ്രായ പ്രകടനത്തിനും ചർച്ചകൾക്കും പ്രാപ്തരാവുന്നു.

Curriculum Frame Work 2019, B.A Malayalam with Journalism (model II)

CO 4	സാങ്കേതിക വിദ്യകളുടെ അവസരങ്ങൾ സാഹിത്യത്തിലേക്ക് സന്നിവേശിപ്പിക്കാൻ പഠിതാക്കൾ സജ്ജരാവുന്നു. ഒപ്പം ഉപരി പഠന യോഗ്യതയും നേടുന്നു.

1.4. CO- PO Mapping

(3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	-	-	-	-	-	3	-	1	-	-
CO 2	2	-	2	-	1	-	-	-	-	-
CO 3	3	2	-	-	-	-	-	-	-	-
CO 4	-	-	2	-	3	-	-	-	-	-

1.5. CO- PSO Mapping

3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO 1	3	-	-	-	-	-
CO 2	-	-	-	-	-	2
CO 3	-	2	-	-	-	-
CO 4	-	-	-	-	2	-

1.6. TEXT/REFERENCE BOOKS:

S.No.	BOOK TITLE / AUTHORS / PUBLICATION	T/R
1	കവിതാ സാഹിത്യചരിത്രം - എം. ലീലാവതി	T
2	മലയാള കവിതാ പഠനങ്ങൾ - സച്ചിദാനന്ദൻ	T
3	നവോത്ഥാന മലയാള കവിത - എസ്.രാജശേഖർ	R
4	അക്ഷരവും ആധുനികതയും - ഇ .വി. രാമകൃഷ്ണൻ	R

1.4 ML1VOT02 പരസ്യകലയും പരസ്യഭാഷയും

1.1. Course Overview

Course :	ML1VOT02 പരസ്യകലയും പരസ്യഭാഷയും
Type of the course	Theory
Hours/Week:	5
Credits	4
Hours/ Sem	90
Marks (Internal)	20
Marks (External):	80

Curriculum Frame Work 2019, B.A Malayalam with Journalism (model II)

Assignments (Internal)	1
Tests (Internal)	2

1.2. SYLLABUS:

Module	Hrs	Topic	Marks for Uty. Exam	Approximate Time schedule
1.	15	പരസ്യ സങ്കല്പനങ്ങൾ	15	Weeks 1-3
2.	15	പരസ്യഭാഷ	16	Weeks 4-7
3.	15	പരസ്യവും സാങ്കേതികതയും	13	Weeks 8-10
4.	15	പരസ്യകലയിലെ സർഗാത്മകത	10	Weeks 11-13
5.	15	പരസ്യകോപ്പിയും വിവർത്തനവും	12	Weeks 14-16
6.	15	പരസ്യ വിശകലനം	14	Weeks 17-18

1.3. COURSE OUTCOMES:(COs)

By the end of this course, the student should be able to

S.No.	DESCRIPTION
CO 1	പരസ്യ മേഖലയെക്കുറിച്ച് സാമാന്യ ധാരണ ലഭിച്ചു.
CO 2	സമൂഹമാധ്യമങ്ങളുടെ ഇടപെടലിലൂടെ സാമൂഹിക പ്രതിബദ്ധത വളർന്നു.
CO 3	തുടർപഠന - ഗവേഷണാഭിരുചി നേടി.
CO 4	പരസ്യ ഡിസൈനിംഗ് , അവയുടെ ആശയ നിർമ്മാണം എന്നിവയിൽ പ്രാഗ്ല്ഭ്യം നേടി
CO 5	മാതൃഭാഷയിലും ഹിന്ദി, ഇംഗ്ലീഷ് പോലുള്ള മറ്റ് ഭാഷകളിലും ആശയഗ്രഹണ-രചനാപാടവം വർദ്ധിച്ചു.

1.4.CO- PO Mapping

(3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	1	-	1	1	1	1	1	1	1	1
CO 2	-	-	-	1	2	1	-	-	2	-
CO 3	2	-	3	1	-	2	3	2	2	2
CO 4	1	-	1	-	2	3	3	2	3	2
CO 5	1	3	1	1	3	2	1	2	2	-

1.5. CO- PSO Mapping

3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO 1	-	1	2	2	3	-

Curriculum Frame Work 2019, B.A Malayalam with Journalism (model II)

CO 2	-	1	3	1	3	3
CO 3	2	3	3	3	3	2
CO 4	-	3	3	3	3	1
CO 5	3	3	1	3	1	1

1.6. TEXT/REFERENCE BOOKS:

S.No.	BOOK TITLE / AUTHORS / PUBLICATION	T/R
1	പരസ്യകല സിദ്ധാന്തങ്ങളും പ്രയോഗവും ജോസി ജോസഫ് (എസ് പരാന്റോപബ്ലിക്കേഷൻസ്, കൊച്ചി)	R
2	ഭാഷയും മാധ്യമവും വി.കെ നാരായണൻ (കേരള ഭാഷാ ഇൻസ്റ്റിറ്റ്യൂട്ട്)	R
3	പരസ്യം ജെ വി വിളനിലം (കേരള ഭാഷാ ഇൻസ്റ്റിറ്റ്യൂട്ട്)	R
4	On Advertising - David Ogilvy	R
5	How to Advertise - Kenneth, Roman, Jane Maas	R

1.5. ML1CMT02 നാടകവും സിനിമയും

1.1. Course Overview

Course :	ML1CMT02 നാടകവും സിനിമയും
Type of the course	Theory
Hours/Week:	5
Credits	4
Hours/ Sem	90
Marks (Internal)	20
Marks (External):	80
Assignments (Internal)	1
Tests (Internal)	2

1.2. SYLLABUS:

Module	Hrs	Topic	Marks for Uty Exam	Approximate Time schedule
1.	23	പാശ്ചാത്യ പൗരസ്ത്യ നാടക സങ്കല്പങ്ങൾ	19	Weeks 1-4
2.	23	ആദ്യകാല നാടകങ്ങൾ	21	Weeks 5-10
3.	22	സിനിമ- അടിസ്ഥാന ഘടകങ്ങൾ	22	Weeks 11-14
4.	22	മലയാള സിനിമയുടെ തുടക്കവും വളർച്ചയും	18	Weeks 15-18

1.3. COURSE OUTCOMES (COs)

By the end of this course, the student should be able to

Curriculum Frame Work 2019, B.A Malayalam with Journalism (model II)

S.No.	DESCRIPTION
CO 1	നാടകം സിനിമ സംബന്ധിച്ച അടിസ്ഥാന ധാരണകൾ രൂപപ്പെടുത്തിയെടുക്കാൻ സാധിച്ചു.
CO 2	പാശ്ചാത്യ പൗരസ്ത്യ നാടകവേദിയെ അറിയുവാൻ കഴിഞ്ഞു.
CO 3	വിവിധ ചലച്ചിത്ര ധാരകളെ മനസ്സിലാക്കി.
CO 4	സിനിമയുടെ ചരിത്രം ,ദൃശ്യ പാഠം , ചലച്ചിത്ര ഭാഷ ,എഡിറ്റിംഗ് എന്നിവ സംബന്ധിച്ച് അവബോധം നേടിയെടുത്തു.

1.4. CO-PO mapping

(3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	-	-	-	-	-	-	1	-	-	-
CO 2	-	-	-	-	-	-	2	-	-	-
CO 3	-	1	-	-	-	-	1	1	-	-
CO 4	-	1	-	-	-	1	2	-	1	2

1.5. CO- PSO mapping

(3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO 1	2	-	-	-	-	-
CO 2	2	-	-	-	-	-
CO 3	2	2	-	-	-	1
CO 4	-	2	1	-	2	-

1.6. TEXT/REFERENCE BOOKS:

S.No.	BOOK TITLE / AUTHORS / PUBLICATION	T/R
1	അരങ്ങിന്റെ വകഭേദങ്ങൾ -സജിത മഠത്തിൽ	R
2	നാടകദർപ്പണം - എൻ എൻ പിള്ള	R
3	നാടകവും സിനിമയും- ജോസ് കെ മാനുവൽ	R

**Curriculum Frame Work 2019, B.A Malayalam with
Journalism (model II)**

Semester 2

**1/1. – English- EN2CC03 - ISSUES THAT
MATTER**

1.1. Course Overview

PROGRAMME	BA ENGLISH AND LITERATURE
SEMESTER	II
COURSE	ISSUES THAT MATTER
COURSE CODE	EN2CC03
COURSE TYPE(THEORY/PRACTICAL)	THEORY
CREDITS	4
NO. OF HOURS PER WEEK	5
MARKS (INTERNAL)	20
MARKS (EXTERNAL)	80
ASSIGNMENT (INTERNAL)	1
TESTS(INTERNAL)	2

1.2 . SYLLABUS:

Module	Hrs.	DETAILS	Marks for University Exam	Approximate Time Schedule
I	18	Luigi Pirandello: War Judith Wright: The Old Prison Arundhati Roy: Public Power in the Age of Empire	16	4
II	18	Bertolt Brecht: The Burning of the Books W. H. Auden: Refugee Blues RomilaThapar: What Secularism is and Where it Needs to be Headed	16	6
III	18	Zitkala- Sa: A Westward Trip 8 Bandhumadhav: The Poisoned Bread TemsulaAo: The Pot Maker	16	5
IV	18	Khushwant Singh: A Hosanna to the Monsoons AyyappaPaniker: Where are the woods, children?	16	5

Curriculum Frame Work 2019, B.A Malayalam with Journalism (model II)

		Sarah Joseph: <i>Gift in Green</i> [chapter 2] - Hagar: A Story of a Woman and Water		
V	18	Ghassan Kanafani: Six Eagles and a Child Sanchari Pal: The Inspiring Story of How Sikkim Became India's Cleanest State Indrajit Singh Rathore: Hermaphrodite	16	5

1.3.COURSE OUTCOMES(COs)

By the end of this course, the student should be able to

Sl. No.	DESCRIPTION
CO 1	Identify crucial issues of contemporary world such as injustice, violation of human rights, minority identities and consequences of war.
CO 2	Think critically about the consequences of dissension, enunciate the cause of free speech, existentialist crisis of the marginalised and so on.
CO 3	Develop a thoughtful and humane approach to the fundamental rights of the subaltern groups and refugees and issues of ecological conservation.
CO 4	Internalise the values like justice, truth, human dignity and freedom of each individual.

1.4. CO- PO Mapping

(3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	-	3	3	-	-	-	-	3	-	-
CO 2	-	2	3	-	-	-	-	2	-	-
CO 3	-	3	2	-	-	-	-	2	-	-
CO 4	-	1	-	-	-	-	-	3	-	-
CO	-	2.25	2.66	-	-	-	-	2.50	-	-

1.5. CO- PSO Mapping

3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

Curriculum Frame Work 2019, B.A Malayalam with Journalism (model II)

1.6. TEXT/REFERENCE BOOKS:

Sl. No.	BOOK TITLE / AUTHORS / PUBLICATION	T/R
1	<i>Issues that Matter</i> by Jimmy James, R Anita	T
2	<i>A Study Guide for Luigi Pirandello: War</i>	R
3	<i>Bible</i>	R
4	<i>Child Migration and Human Rights in a Global Age</i> by Bhaba, Jacquelin, Princeton University Press	R

1.2 ML2CCT08 Second Language കവിതയും നാടകവും(Malayalam)

1.1. Course Overview

Course :	ML2CCT08 കവിതയും നാടകവും
Type of the course	Theory
Hours/Week:	5
Credits	4
Hours/ Sem	90
Marks (Internal)	20
Marks (External):	80
Assignments (Internal)	1
Tests (Internal)	2

1.2 SYLLABUS:

Module	Hrs	Topic	Marks for Uty Exam	Approximate Time schedule
1.	20	കവിത	17	Weeks 1-4
2.	20	കവിത	23	Weeks 5-10
3.	20	കവിത	21	Weeks 11-14
4.	20	നാടകം	19	Weeks 15-18

1.3. COURSE OUTCOMES:(COs)

By the end of this course, the student should be able to

1	കവിതയിലൂടെ സമൂഹത്തിന്റെ വിവിധ മണ്ഡലങ്ങളെ മനസ്സിലാക്കാൻ കൂട്ടി പ്രാപ്തനാകുന്നു.

Curriculum Frame Work 2019, B.A Malayalam with Journalism (model II)

2	വിവിധ നാടക രൂപങ്ങളെ കുറിച്ച് സാമാന്യ ജ്ഞാനം കുട്ടിക്ക് ഉണ്ടാകണം.
3	കവിതാ രംഗത്തെ നൂതന പ്രവണതകളും ഭാവുകതാ പരിണാമങ്ങളെയും കുറിച്ചുള്ള വ്യക്തമായ അവബോധം കുട്ടിക്ക് ഉണ്ടാകണം.
4	മലയാള കവിതാ രംഗത്തെ പ്രഗൽഭരെ മനസ്സിലാക്കുക, കൃതികളെ കുറിച്ച് സാമാന്യ അവബോധം നേടുക

1.4. CO- PO Mapping

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	-	-	-	-	-	1	-	2	-	-
CO 2	1	2	-	-	-	-	-	-	-	-
CO 3	1	-	2	-	-	-	-	-	-	-
CO 4	-	-	-	-	-	-	-	-	-	-

1.5. CO- PSO Mapping

3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

1.6. TEXT/REFERENCE BOOKS:

S.No.	BOOK TITLE / AUTHORS / PUBLICATION	T/R
1	സാഹിത്യ ചരിത്രം പ്രസ്ഥാനങ്ങളിലൂടെ - കെ.എം ജോർജ്ജ്	R
2	മലയാള സാഹിത്യം ചരിത്രം കാലഘട്ടങ്ങളിലൂടെ - എരുമേലി	R
3	കൈരളിയുടെ കഥ- എൻ. കൃഷ്ണപിള്ള	R

2. 3 ML2CRT02 എഴുത്തച്ഛൻ മുതൽ കവിത്രയം വരെ

1.1. Course Overview

Course :	ML2CRT02 എഴുത്തച്ഛൻ മുതൽ കവിത്രയം വരെ
Type of the course	Theory
Hours/Week:	5
Credits	4
Hours/ Sem	90
Marks (Internal)	20
Marks (External):	80
Assignments (Internal)	1
Tests (Internal)	2

1.2. SYLLABUS:

Module	Hrs	Topic	Marks	Approximate

Curriculum Frame Work 2019, B.A Malayalam with Journalism (model II)

			for Uty Exam	Time schedule
1.	22	ഭക്തി പ്രസ്ഥാനം - എഴുത്തച്ഛൻ	22	Weeks 1-4
2.	23	മലയാള കവിത സംക്രമണ ഘട്ടം	19	Weeks 5-10
3.	22	മലയാള കവിതയിലെ ഭാവുകത പരിണാമം	21	Weeks 11-14
4.	23	കാല്പനിക പ്രവണതകൾ മലയാള കവിതയിൽ	18	Weeks 15-18

1.3. COURSE OUTCOMES:(COs)

By the end of this course, the student should be able to

S.No.	DESCRIPTION
CO 1	വിഷയ ബന്ധിതമായി ആഴത്തിൽ അറിവു നേടുന്നതിനും ആശയവിനിമയ ശേഷി കൈവരിക്കുന്നതിനും കഴിഞ്ഞു.
CO 2	വിഷയ ബന്ധിതമായി പഠനത്തിൽ തന്നെ ഉപരി പഠന സാധ്യതകൾ മനസ്സിലാക്കുന്നു.
CO 3	മലയാള കവിതയിലെ ഭാവുകത പരിണാമങ്ങൾ മനസ്സിലാക്കാൻ കഴിഞ്ഞു.
CO 4	ഗവേഷണ താല്പര്യം വളർത്തുന്നു.

1.4. CO- PO Mapping

(3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	2	-	-	-	1	-	-	-	-	-
CO 2	2	-	-	-	1	-	-	-	-	-
CO 3	2	-	-	-	-	-	3	-	-	-
CO 4	2	-	-	-	-	-	-	-	-	2

1.5. CO- PSO Mapping

3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO 1	3	-	-	-	-	-
CO 2	-	2	-	-	-	-
CO 3	-	1	-	-	-	-
CO 4	-	-	-	-	-	2

1.6. TEXT/REFERENCE BOOKS:

S.No.	BOOK TITLE / AUTHORS / PUBLICATION	T/R
1	കൈരളിയുടെ കഥ- എൻ കൃഷ്ണപിള്ള	R
2	മധ്യകാല മലയാളം - പി. വി വേലായുധൻ പിള്ള	R
3	കേരള സാഹിത്യ ചരിത്രം - ഉള്ളൂർ	R
4	എഴുത്തച്ഛനും കാലവും- ഡോ. എം ലീലാവതി.	R

Curriculum Frame Work 2019, B.A Malayalam with Journalism (model II)

2/4 ML2VOT03 പരസ്യവും ആശയവിനിമയവും

1.1. Course Overview

Course :	ML2VOT03 പരസ്യവും ആശയവിനിമയവും
Type of the course	Theory
Hours/Week:	5
Credits	4
Hours/ Sem	90
Marks (Internal)	20
Marks (External):	80
Assignments (Internal)	1
Tests (Internal)	2

1.2. SYLLABUS:

Module	Hrs	Topic	Marks for Uty Exam	Approximate Time schedule
1.	18	ആശയവിനിമയം - വികാസ പരിണാമ ചരിത്രം	19	Weeks 1-3
2.	18	ആശയവിനിമയവും പരസ്യവും	17	Weeks 4-7
3.	18	പരസ്യങ്ങളിലെ സർഗാത്മക ആശയവിനിമയം	16	Weeks 8-11
4.	18	പരസ്യങ്ങളിലെ ദൃശ്യ ആശയവിനിമയം	12	Weeks 12-14
5.	18	പരസ്യവും ആഗോളീകരണവും	16	Weeks 15 -18

1.3. COURSE OUTCOMES:(COs)

By the end of this course, the student should be able to

S.No.	DESCRIPTION
CO 1	പരസ്യം ഒരു പ്രേരണാത്മക ആശയവിനിമയമെന്ന നിലയിൽ തിരിച്ചറിയുന്നു.
CO 2	പരസ്യങ്ങളുടെ സാമൂഹിക സാംസ്കാരിക പശ്ചാത്തലം മനസ്സിലാക്കുന്നു.
CO 3	സർഗാത്മക സൃഷ്ടികൾ രചിക്കുന്നതിന് പ്രാപ്തരായി.
CO 4	പരസ്യങ്ങളിലെ ഭാഷാ- ചിഹ്നങ്ങൾ എന്നിവയുടെ പ്രാധാന്യം തിരിച്ചറിയുന്നു.
CO 5	പരസ്യരംഗത്തെ നൂതന പ്രവണതകൾ തിരിച്ചറിയുന്നു.

1.4. CO- PO Mapping

(3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	1	-	1	1	3	1	1	2	2	-
CO 2	-	-	1	-	1	-	1	3	-	-

Curriculum Frame Work 2019, B.A Malayalam with Journalism (model II)

CO 3	2	-	3	-	2	2	2	3	1	3
CO 4	1	-	1	-	3	-	2	2	-	2
CO 5	3	-	2	2	2	1	1	2	-	3

1.5. CO- PSO Mapping

3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO 1	-	1	3	2	1	3
CO 2	1	1	3	1	2	3
CO 3	2	3	2	3	2	2
CO 4	3	3	2	3	2	1
CO 5	-	1	3	1	2	1

1.6. TEXT/REFERENCE BOOKS:

S.No.	BOOK TITLE / AUTHORS / PUBLICATION	T/R
1	The Fundamentals of Advertisements - John Wilmshurst, Adrian Mackay	R
2	മാധ്യമങ്ങളും ആനുകാലിക സാമൂഹിക പ്രശ്നങ്ങളും - ജെ വി വിളനിലം	R
3	പരസ്യം - ജെ വി വിളനിലം	R
4	ദൃശ്യമാധ്യമങ്ങളും സംസ്കാരവും - പ്രഭാവർമ്മ	R
5	ആഗോളവൽക്കരണം അർഥം, വ്യാപ്തി, സിദ്ധാന്തം - എ ഉമ്മൻ	R

2/4 ML2VOT05 ജേർണലിസം ലക്ഷ്യവും ചരിത്രവും

1.1. Course Overview

Course :	ML2VOT 05 ജേർണലിസം ലക്ഷ്യവും ചരിത്രവും
Type of the course	Theory
Hours/Week:	5
Credits	4
Hours/ Sem	90
Marks (Internal)	20
Marks (External):	80
Assignments (Internal)	1
Tests (Internal)	2

Curriculum Frame Work 2019, B.A Malayalam with Journalism (model II)

1.3. SYLLABUS:

Module	Hrs	Topic	Marks for Uty Exam	Approximate Time schedule
1.	18	ജേർണലിസം ലക്ഷ്യവും ചരിത്രവും	17	Weeks 1-3
2.	18	അച്ചടി - പുതിയ പ്രവണതകൾ	15	Weeks 4-7
3.	18	റേഡിയോ പ്രക്ഷേപണം	13	Weeks 8-11
4.	18	ടെലിവിഷൻ ജേർണലിസം	16	Weeks 12-14
5.	18	സൈബർ ജേർണലിസം	19	Weeks 15 -18

1.3. COURSE OUTCOMES:(COs)

By the end of this course, the student should be able to

S.No.	DESCRIPTION
CO 1	വിമർശനാത്മകമായും ക്രിയാത്മകമായും സ്വതന്ത്രമായും ചിന്തിക്കാനുള്ള കഴിവ് നേടുന്നു.
CO 2	മാധ്യമപ്രവർത്തനത്തിന്റെ വെല്ലുവിളി തിരിച്ചറിയാനും സാഹചര്യങ്ങളെ വിദഗ്ദ്ധമായി കൈകാര്യം ചെയ്യാനും പ്രാപ്തി നേടുന്നു.
CO 3	വാർത്താ ഘടകങ്ങൾ, വ്യത്യസ്ത വാർത്തകൾ എന്നിവയെപ്പറ്റി മനസ്സിലാക്കുകയും വാർത്തകളും തലക്കെട്ടുകളും വിശകലനം ചെയ്യുകയും ചെയ്യുന്നു.
CO 4	സാങ്കേതികമായ കഴിവുകൾ സ്വാംശീകരിക്കുന്നു.

1.4. CO- PO Mapping

(3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	2	-	3		1		2	3		
CO 2	1	-	2	-	3	3	3	1	2	
CO 3	2	-	1	-	2	3	3	1		
CO 4	3	-	3	2		1			3	2

1.5. CO- PSO Mapping

3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO 1	2	2	1	-	-	1
CO 2	-	1	3	1	2	3
CO 3	2	3	3	2	3	2
CO 4	-	-	2	-	3	-

1.6. TEXT/REFERENCE BOOKS:

S.No.	BOOK TITLE / AUTHORS / PUBLICATION	T/R
1	ഭാരതീയ പത്ര ചരിത്രം - എം. വി തോമസ്	R
2	ടെലിവിഷൻ ജേർണലിസം - രാജഗോപാൽ	R

Curriculum Frame Work 2019, B.A Malayalam with Journalism (model II)

3	ദൃശ്യ വിസ്തൃത ലോകം - എം കെ ശിവശങ്കരൻ	R

Semester 3

1.1. - English- EN3CC05 LITERATURE AND/AS IDENTITY

1.1. Course Overview

PROGRAMME	BA ENGLISH AND LITERATURE
SEMESTER	III
COURSE	LITERATURE AND/AS IDENTITY
COURSE CODE	EN3CC05
COURSE TYPE(THEORY/PRACTICAL)	THEORY
CREDITS	4
NO. OF HOURS PER WEEK	5
MARKS (INTERNAL)	20
MARKS (EXTERNAL)	80
ASSIGNMENT (INTERNAL)	1
TESTS(INTERNAL)	2

1.2 . SYLLABUS:

Module	Hrs.	DETAILS	Marks for University Exam	Approximate Time Schedule (weeks)
I	18	Agha Shahid Ali: I See Kashmir from New Delhi at Midnight M.G. Vassanji: Leaving Imtiaz Dharker: At the Lahore Karhai Chitra Banerjee Divakaruni: Indian Movie, New Jersey	16	3
II	18	C. V. Velupillai: No State, No Dog SadaatHasanManto: The Dog of Tetwal IntizarHussain: A Chronicle of the Peacocks Selina Hossain: Double War	16	3

Curriculum Frame Work 2019, B.A Malayalam with Journalism (model II)

III	18	Malcolm X: —Nightmare , excerpt from <i>The Autobiography of Malcolm X</i> . Sashi Deshpande: Learning to be a Mother in <i>Janani– Mothers, Daughters, Motherhood</i> , (ed.) Rinki Bhattacharya.	16	8
IV	18	Excerpts from <i>Binti</i> , the Santhal creation song of cosmology, the <i>BhilliMahabharata</i> and <i>Garhwali Songs in Painted Words - An Anthology of Tribal Literature</i> - Edited by G. N. Devy. Amos Tutuola: <i>The Palm-Wine Drinkard</i> . [Excerpt]	16	3
V	18	Nathaniel Hawthorne: The Birth Mark John Henrik Clarke: The Boy Who Painted Christ Black Ruskin Bond: The Girl on the Train	16	8

1.3. COURSE OUTCOMES:(COs)

By the end of this course, the student should be able to

S.No.	DESCRIPTION
CO 1	Students get familiar with diasporic and indigenious identities.
CO 2	Know more about regional identities and their representation in literature.
CO 3	Encounter the major issues of contemporary world include division of class, racial hatred and communal issues.
CO 4	Analyse the grim realities of modern world including improper handling of ecosystems, poverty and unemployment.

1.4. CO- PO Mapping

(3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	-	3	3	-	-	-	-	2	-	-
CO 2	-	3	3	-	-	-	-	-	-	-
CO 3	-	3	3	-	-	-	-	3	-	-
CO 4	-	3	3	-	-	-	-	3	-	-
CO	-	3	3	-	-	-	-	2.66	-	-

1.5. CO- PSO Mapping

3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

1.6. TEXT/REFERENCE BOOKS:

Sl. No.	BOOK TITLE / AUTHORS / PUBLICATION	T/R
1	<i>Literature and/as Identity by Sajik.s</i>	T

Curriculum Frame Work 2019, B.A Malayalam with Journalism (model II)

2	<i>Diaspora and Trans-Nationalism</i> by Rainer Bauck and Thomas Faist Amsterdam University Press	R
3	<i>Dismantling Diasporas</i> by Anastasia Christosu and Elizabeth Mavroudi, Ashgate Publishing co.	R

3.2 ML3CRT 03 കേരള സംസ്കാരം - പൂർവ്വ ഘട്ടം

1.1. Course Overview

Course :	ML3CRT 03 കേരള സംസ്കാരം - പൂർവ്വ ഘട്ടം
Type of the course	Theory
Hours/Week:	5
Credits	4
Hours/ Sem	90
Marks (Internal)	20
Marks (External):	80
Assignments (Internal)	1
Tests (Internal)	2

1.2. SYLLABUS:

Module	Hrs	Topic	Marks for Uty Exam	Approximate Time schedule
1.	23	പ്രാചീന തമിഴ്കം	19	Weeks 1-4
2.	23	കാർഷ്വികവൽക്കരണവും ആത്യാഗമനവും	21	Weeks 5-10
3.	22	മധ്യകാല സമൂഹം	22	Weeks 11-14
4.	22	പാശ്ചാത്യ അധിനിവേശം	18	Weeks 15-18

1.3. COURSE OUTCOMES:(COs)

By the end of this course, the student should be able to

S.No.	DESCRIPTION
CO 1	കേരള സംസ്കാരത്തെപ്പറ്റി മനസ്സിലാക്കി, സാമൂഹിക അവബോധം നേടുന്ന ഒരുപരിതാവ് സാമൂഹിക ജീവിയെന്ന നിലവാരത്തിലേക്കെത്തുന്നു.
CO 2	ചരിത്രാവബോധം നേടുന്ന ഒരുപരിതാവ് ആധികാരികമായി സംസാരിക്കാനും സംവദിക്കാനും പ്രാപ്തനാവുന്നു.
CO 3	ചരിത്രത്തിന്റെ എല്ലാ സാധ്യതകളോടും കൂടി പഠിക്കുന്ന ഒരുപരിതാവ് ,ആ വിഷയത്തിൽ ഉന്നത പഠനത്തിന് യോഗ്യനാവണം
CO 4	ഗവേഷണങ്ങൾക്കും സംവാദങ്ങൾക്കും പ്രാപ്തരായി തികഞ്ഞ പരിതാക്കളെ വാർത്തെടുക്കുന്നു.

Curriculum Frame Work 2019, B.A Malayalam with Journalism (model II)

1.4. CO- PO Mapping

(3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	-	-	-	-	-	3	-	1	-	-
CO 2	2	-	2	-	1	-	-	-	-	-
CO 3	3	2	-	-	-	-	-	-	-	-
CO 4	-	-	2	-	3	-	-	-	-	-

1.5. CO- PSO Mapping

3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO 1	-	-	-	-	-	3
CO 2	-	-	-	-	-	2
CO 3	1	-	-	-	-	-
CO 4	-	-	-	-	-	2

1.6. TEXT/REFERENCE BOOKS:

S.No.	BOOK TITLE / AUTHORS / PUBLICATION	T/R
1	മലയാളം മാറ്റവും വളർച്ചയും - കെ എം പ്രഭാകരവാര്യർ	R
2	കേരളത്തിന്റെ ഇന്നലകൾ - ഗണേഷ് കെ. എൻ	R
3	കേരള സാംസ്കാരിക ചരിത്രം - പി. കെ ഗോപാലകൃഷ്ണൻ	R
4	കേരളം മലയാളികളുടെ മാതൃഭൂമി - ഇ.എം.എസ് നമ്പൂതിരിപ്പാട്	R
5	മധ്യകാല കേരളം - എം. ആർ രാഘവവാര്യർ	R

3.3 ML010102 പരസ്യവും മാനേജ്മെന്റ് തത്വങ്ങളും

1.1. Course Overview

Course :	ML010102 പരസ്യവും മാനേജ്മെന്റ് തത്വങ്ങളും
Type of the course	Theory
Hours/Week:	5
Credits	4
Hours/ Sem	90
Marks (Internal)	20
Marks (External):	80
Assignments (Internal)	1
Tests (Internal)	2

Curriculum Frame Work 2019, B.A Malayalam with Journalism (model II)

1.2. SYLLABUS:

Module	Hrs	Topic	Marks for Uty Exam	Approximate Time schedule
1.	18	മാനേജ്മെന്റ് തത്വങ്ങൾ സിദ്ധാന്തങ്ങൾ	16	Weeks 1-3
2.	18	പരസ്യപ്ലാനിംഗ്	12	Weeks 4-7
3.	18	മാർക്കറ്റിംഗ് പ്രോഗ്രാമിംഗ്	16	Weeks 8-11
4.	18	പരസ്യലക്ഷ്യങ്ങൾ	19	Weeks 12-14
5.	18	കമ്പോള സവിശേഷതകൾ	17	Weeks 15-18

1.3. COURSE OUTCOMES:(COs)

By the end of this course, the student should be able to

S.No.	DESCRIPTION
CO 1	പരസ്യത്തിന്റെ അടിസ്ഥാന തത്വങ്ങൾ മനസ്സിലാക്കി.
CO 2	പരസ്യങ്ങളുടെ സാമൂഹിക സാംസ്കാരിക പശ്ചാത്തലം മനസ്സിലാക്കുന്നു.
CO 3	സർഗാത്മക സൃഷ്ടികൾ രചിക്കുന്നതിന് പ്രാപ്തരായി.
CO 4	പരസ്യങ്ങളിലെ ഭാഷാ- ചിഹ്നങ്ങൾ എന്നിവയുടെ പ്രാധാന്യം തിരിച്ചറിയുന്നു.
CO 5	പരസ്യരംഗത്തെ നൂതന പ്രവണതകൾ തിരിച്ചറിയുന്നു.

1.4. CO- PO Mapping

(3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	1	-	1	1	3	1	1	2	2	-
CO 2	-	-	1	-	1	-	1	3	-	-
CO 3	2	-	3	-	2	2	2	3	1	3
CO 4	1	-	1	-	3	-	2	2	-	2
CO 5	3	-	2	2	2	1	1	2	-	3

1.5. CO- PSO Mapping

3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO 1	-	1	3	2	1	3
CO 2	1	1	3	1	2	3
CO 3	2	3	2	3	2	2
CO 4	3	3	2	3	2	1
CO 5	-	1	3	1	2	1

1.6. TEXT/REFERENCE BOOKS:

S.No.	BOOK TITLE / AUTHORS / PUBLICATION	T/R

Curriculum Frame Work 2019, B.A Malayalam with Journalism (model II)

1	മാധ്യമങ്ങളും ആനുകാലിക സാമൂഹിക പ്രശ്നങ്ങളും / ജെ വി വിളനിലം	R
2	പരസ്യം / ജെ വി വിളനിലം	R
3	ദൃശ്യമാധ്യമങ്ങളും സംസ്കാരവും / പ്രഭാവർമ്മ	R
4	ആഗോളവൽക്കരണം അർത്ഥം വ്യാപ്തി, സിദ്ധാന്തം /എ ഉമ്മൻ	R

3.4 ML3CMT05 ഒരു എഴുത്തുകാരൻ/ എഴുത്തുകാരി - മാധ്യമവികുട്ടി

1.1. Course Overview

Course :	ML3CMT05ഒരു എഴുത്തുകാരൻ/ എഴുത്തുകാരി - മാധ്യമവികുട്ടി
Type of the course	Theory
Hours/Week:	5
Credits	4
Hours/ Sem	90
Marks (Internal)	20
Marks (External):	80
Assignments (Internal)	1
Tests (Internal)	2

1.2. SYLLABUS:

Module	Hrs	Topic	Marks for Uty Exam	Approximate Time schedule
1.	22	കഥ, വിഷയം, ആഖ്യാനം	21	Weeks 1-4
2.	22	കവിത- ഇംഗ്ലീഷ് ഭാഷ മാധ്യമം	19	Weeks 5-10
3.	23	നോവൽ - എഴുത്തുരീതി	22	Weeks 11-14
4.	23	ആത്മ കഥ - സ്വതന്ത്രബോധം	18	Weeks 15-18

1.3. COURSE OUTCOMES:(COs)

By the end of this course, the student should be able to

S.No.	DESCRIPTION
CO 1	മാധ്യമവികുട്ടി എന്ന എഴുത്തുകാരിയെ പരിചയപ്പെടുന്നു.
CO 2	മാധ്യമവികുട്ടിയുടെ ആഖ്യാന രീതി , സ്വതന്ത്രബോധം , അനുഭവ കർതൃത്വം എന്നിവയെ പറ്റി ധാരണ നേടുന്നു.
CO 3	മാധ്യമവികുട്ടിയുടെ കഥകൾ, കവിതകൾ ,നോവലുകൾ , ആത്മകഥ ഇവയെപ്പറ്റിയുള്ള അവബോധം നേടി.
CO 4	സർഗ്ഗവാസനകൾ പരിപോഷിപ്പിക്കാനുള്ള വേദി ലഭ്യമായി.

1.4. CO- PO Mapping

Curriculum Frame Work 2019, B.A Malayalam with Journalism (model II)

(3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	-	-	3	-	-	-	1	-	-	-
CO 2	-	-	3	-	-	1	1	-	-	-
CO 3	-	-	3	-	-	-	1	-	-	-
CO 4	-	-	-	-	1	2	-	-	3	-

1.5. CO- PSO Mapping

3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO 1	3	-	-	-	-	-
CO 2	2	-	-	-	-	-
CO 3	3	-	-	-	-	-
CO 4	-	3	-	-	-	-

1.6. TEXT/REFERENCE BOOKS:

S.No.	BOOK TITLE / AUTHORS / PUBLICATION	T/R
1	പെണ്ണുകൊത്ത വാക്കുകൾ - ശാരദക്കുട്ടി	R
2	സ്ത്രീ സ്വത്വം ,സമൂഹം- മായവികുട്ടി പഠനങ്ങൾ- ഇ വി രാമകൃഷ്ണൻ	R
3	എഴുത്തുകാരികളുടെ മായവികുട്ടി - സുജ സുസൻ ജോർജ്ജ്	R

3.5 ML3VOT8 MS Word and Page Maker

1.1. Course Overview

Course :	ML3VOT8 MS Word and Page Maker
Type of the course	Practical
Hours/Week:	5
Credits	4
Hours/ Sem	90
Marks (Internal)	20
Marks (External):	80
Assignments (Internal)	1
Tests (Internal)	2

1.2. SYLLABUS:

Module	Hrs	Topic	Marks for Uty Exam	Approximate Time schedule
1.		M S Word	45	

Curriculum Frame Work 2019, B.A Malayalam with Journalism (model II)

2.		Page Maker	35	

1.3. COURSE OUTCOMES:(COs)

By the end of this course, the student should be able to

S.No.	DESCRIPTION
CO 1	ഇൻപുട്ട് , ഔട്ട് പുട്ട് ഡിവൈസുകൾ ഏതൊക്കെയാണെന്ന് മനസ്സിലാക്കുകയും പ്രായോഗിക പരിജ്ഞാനം നേടുകയും ചെയ്യുന്നു .
CO 2	M S Word , Page Maker എന്നിവയിൽ പ്രായോഗിക പരിജ്ഞാനം നേടി.
CO 3	കമ്പ്യൂട്ടർ സംബന്ധമായ തുടർ പഠന സാധ്യതകൾ, തൊഴിലവസരങ്ങൾ എന്നിവ തിരിച്ചറിയുന്നു.
CO 4	നൂതന സാങ്കേതിക വിദ്യകൾ അറിയുവാനും പ്രയോഗിക്കുവാനും അവസരം ലഭിച്ചു.

1.4. CO- PO Mapping

(3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	1	-	-	-	-	-	-	1	-	1
CO 2	1	-	-	-	-	2	1	-	-	1
CO 3	1	-	1	-	-	2	-	1	1	1
CO 4	3	-	2	1	-	2	3	2	2	3

1.5. CO- PSO Mapping

3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO 1	-	-	-	-	2	-
CO 2	-	1	-	1	1	-
CO 3	-	1	3	2	3	1
CO 4	1	2	3	3	3	-

Semester 4

1.1. - English - EN4CC06 ILLUMINATIONS

1.1. Course Overview

Curriculum Frame Work 2019, B.A Malayalam with Journalism (model II)

PROGRAMME	BA ENGLISH LITERATURE
SEMESTER	IV
COURSE	ILLUMINATIONS
COURSE CODE	EN4CC06
COURSE TYPE(THEORY/PRACTICAL)	THEORY
CREDITS	4
NO. OF HOURS PER WEEK	5
MARKS (INTERNAL)	20
MARKS (EXTERNAL)	80
ASSIGNMENT (INTERNAL)	1
TESTS(INTERNAL)	2

1.2 . SYLLABUS:

Module	Hrs.	DETAILS	Marks for University exam	Approximate Time Schedule (weeks)
I	18	Helen Keller: Three Days to See Jesse Owens: My Greatest Olympic Prize Dominic Lapierre: Mother Teresa	16	5
II	18	Lafcadio Hearn: On Reading Stephen Leacock: Are the Rich Happy? A.G. Gardiner: On Courage	16	5
III	18	J. K. Rowling: The fringe benefits of failure and the importance of imagination Malala Yousafzai: Nobel Lecture	14	4
IV	18	Oscar Wilde: The Nightingale and the Rose George Orwell: The Miser John Galsworthy: Quality Paolo Coelho: The Beggar and the Baker	18	6
V	18	William Ernest Henley: Invictus Robert Frost: The Road Not Taken Kahlil Gibran: Of Good and Evil Joyce Kilmer: Trees	16	5

1.3.COURSE OUTCOMES(COs)

By the end of this course, the student should be able to

Sl. No.	DESCRIPTION
CO 1	Students develop creative and insightful perspective towards life.
CO 2	Become more aware of the unfathomable powers of literatures, individuality and original thinking.
CO 3	Learn to overcome the setbacks in life through the stories of great men who belong to different parts of the world.

Curriculum Frame Work 2019, B.A Malayalam with Journalism (model II)

CO 4	Start to think critically and creatively and learn to face adversity with confidence.

1.4. CO- PO Mapping

(3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	-	3	-	-	-	-	-	2	-	-
CO 2	-	3	3	-	-	-	-	3	-	-
CO 3	3	3	3	-	-	-	-	2	-	-
CO 4	3	-	-	3	-	2	-	-	-	-
CO	3	3	3	3	-	2	-	2.33	-	-

1.5. CO- PSO Mapping

3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

1.6. TEXT/REFERENCE BOOKS:

Sl. No.	BOOK TITLE / AUTHORS / PUBLICATION	T/R
1	<i>lluminations</i>	T
2	<i>Robert Frost: selected poems</i> by Dr. Sen, Unique publishers	R
3	Critical Analysis of still I rise by Hussain Necklace, Oxford Publications	R

4/2 ML4CRT04 കേരളസംസ്കാരം ഉത്തരവ്

1.1. Course Overview

Course :	ML4CRT04 കേരളസംസ്കാരം ഉത്തരവ്
Type of the course	Theory
Hours/Week:	5
Credits	4
Hours/ Sem	90
Marks (Internal)	20
Marks (External):	80
Assignments (Internal)	1
Tests (Internal)	2

1.2 . SYLLABUS:

Module	Hrs	Topic	Marks for Uty Exam	Approximate Time schedule

Curriculum Frame Work 2019, B.A Malayalam with Journalism (model II)

1.	22	അധിനിവേശവും ആധുനീകരണവും	18	Weeks 1-4
2.	23	നവോത്ഥാനം - സാമൂഹിക അടിത്തറ	21	Weeks 5-10
3.	22	നവോത്ഥാനത്തിന്റെ തുടർച്ച	19	Weeks 11-14
4.	23	നവസാമൂഹിക പ്രസ്ഥാനങ്ങൾ	22	Weeks 15-18

1.3.COURSE OUTCOMES(COs)

By the end of this course, the student should be able to

S.No.	DESCRIPTION
CO 1	കേരളചരിത്രത്തെപ്പറ്റി ആധികാരികവും ആഴത്തിലുള്ളതുമായ ബോധ്യങ്ങൾ നേടുന്നു.
CO 2	ഗവേഷണാത്മകമായ ശൈലികളാൽ പഠിതാവ് കൂടുതൽ വിഷയ ബന്ധിത അറിവുകൾ നേടുന്നു.
CO 3	നേടിയ അറിവുകൾ അതാത് അവസരങ്ങളിൽ സംവദിക്കാൻ പ്രായോഗിക പരിചയം നേടുന്നു .
CO 4	സാമൂഹികബോധ്യങ്ങൾ നേടുകയും ഉപരി പഠന സാധ്യതകൾ മനസ്സിലാക്കുകയും ചെയ്യുന്നു.

1.4. CO- PO Mapping

(3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	2	1	-	-	-	-	-	-	-	-
CO 2	2	-	-	-	-	-	2	-	-	-
CO 3	-	-	-	-	3	-	-	-	-	-
CO 4	2	-	-	-	-	-	1	1	-	-

1.5. CO- PSO Mapping

3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO 1	-	-	-	-	-	3
CO 2	-	-	-	-	-	2
CO 3	1	-	-	-	-	-
CO 4	-	-	-	-	-	2

1.6. TEXT/REFERENCE BOOKS:

S.No.	BOOK TITLE / AUTHORS / PUBLICATION	T/R
1	കേരളത്തിന്റെ ഇന്നലകൾ - കെ എൻ ഗണേശ്കുമാർ	R
2	കേരളസംസ്കാരം - എ .ശ്രീധരമേനോൻ	R
3	കഥ ഇതുവരെ - എസ് സന്ദീപ്	R
4	നമ്മൾ നടന്ന വഴികൾ -എസ് കെ വസന്ത്	R

4/3 ML4 VOT09 ദൃശ്യശ്രാവ്യ നവമാധ്യമ പ്രവർത്തനം

Curriculum Frame Work 2019, B.A Malayalam with Journalism (model II)

1.1 Course Overview

Course :	ML4 VOT09 ദൃശ്യശ്രാവ്യ നവമാധ്യമ പ്രവർത്തനം
Type of the course	Theory
Hours/Week:	5
Credits	4
Hours/ Sem	90
Marks (Internal)	20
Marks (External):	80
Assignments (Internal)	1
Tests (Internal)	2

1.2 . SYLLABUS:

Module	Hrs	Topic	Marks for Uty Exam	Approximate Time schedule
1.	30	റേഡിയോ ജേർണലിസം	25	Weeks 1-5
2.	30	ടെലിവിഷൻ മാധ്യമപ്രവർത്തനം	27	Weeks 6-12
3.	30	നവമാധ്യമങ്ങൾ	28	Weeks 13-18

1.3.COURSE OUTCOMES (COs)

By the end of this course, the student should be able to

S.No.	DESCRIPTION
CO 1	പത്രം, റേഡിയോ ,ടെലിവിഷൻ ,നവമാധ്യമപ്രവർത്തനത്തിൽ അടിസ്ഥാന പ്രവർത്തി പരിചയം നേടുന്നു.
CO 2	രേഖാമൂലവും വാമൊഴിയായും സ്വയം പ്രകടിപ്പിക്കാനുള്ള കഴിവ് നേടുന്നു.
CO 3	പഠിതാക്കൾ സാമൂഹ്യ പ്രതിബന്ധതയുള്ളവരാകുന്നു.
CO 4	സാങ്കേതിക അറിവ് നേടുകയും അവ പരിശീലിക്കുകയും ചെയ്യുന്നു.

1.4. CO- PO Mapping

(3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	3	-	3	-	3	3	2	2	-	-
CO 2	3	-	1	-	3	2	1	3	3	-
CO 3	-	-	-	-	2	3	-	3	3	-
CO 4	3	-	2	3	-	2	2	-	3	3

1.5. CO- PSO Mapping

3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6

Curriculum Frame Work 2019, B.A Malayalam with Journalism (model II)

CO 1	2	2	3	2	2	-
CO 2	3	3	3	-	-	2
CO 3	-	-	-	-	-	3
CO 4	-	-	3	1	3	-

1.6. TEXT/REFERENCE BOOKS:

S.No.	BOOK TITLE / AUTHORS / PUBLICATION	T/R
1	മലയാള ടെലിവിഷൻ ചരിത്രം - ടി കെ സന്തോഷ് കുമാർ	R
2	ഗുഗോളവത്കരണം - അച്യുത് ശങ്കർ എസ് നായർ	R
3	റേഡിയോ കഥയും കലയും- കെ എ ബീന	R

4/4MLVOT 11Photoshop ,Corel Draw ,and DTP

1.1. Course Overview

Course :	MLVOT 11 Photoshop ,Corel Draw ,and DTP
Type of the course	Theory
Hours/Week:	5
Credits	4
Hours/ Sem	90
Marks (Internal)	20
Marks (External):	80
Assignments (Internal)	1
Tests (Internal)	2

1.2 . SYLLABUS:

Module	Hrs	Topic	Marks for Uty Exam	Approximate Time schedule
1.	18	Photo Shop – Getting Started	17	Weeks 1-3
2.	18	Photo Shop - Tools	16	Weeks 4-7
3.	18	Corel Draw - Basic	12	Weeks 8-11
4.	18	Corel Draw- Working with Text	16	Weeks 12-14
5.	18	DTP	19	Weeks 15-18

1.3.COURSE OUTCOMES(COs)

By the end of this course, the student should be able to

S.No.	DESCRIPTION
CO 1	ഇൻപുട്ട് ഔട്ട് പുട്ട് ഡിവൈസുകൾ ഏതൊക്കെയാണെന്ന് മനസ്സിലാക്കുകയുംപ്രായോഗിക പരിജ്ഞാനം നേടുകയും ചെയ്യുന്നു .

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CO 2	Photoshop ,Corel Draw ,and DTP എന്നിവയിൽ പ്രായോഗിക പരിജ്ഞാനം നേടി.
CO 3	കമ്പ്യൂട്ടർ സംബന്ധമായ തുടർ പഠന സാധ്യതകൾ, തൊഴിലവസരങ്ങൾ എന്നിവ തിരിച്ചറിയുന്നു.
CO 4	നൂതന സാങ്കേതിക വിദ്യകൾ അറിയുവാനും പ്രയോഗിക്കുവാനും അവസരം ലഭിച്ചു.

1.4. CO- PO Mapping

(3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	1	-	-	-	-	-	-	1	-	1
CO 2	1	-	-	-	-	2	1	-	-	1
CO 3	1	-	1	-	-	2	-	1	1	1
CO 4	3	-	2	1	-	2	3	2	2	3

1.5. CO- PSO Mapping

3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO 1	-	-	-	-	2	-
CO 2	-	1	-	1	1	-
CO 3	-	1	3	2	3	1
CO 4	1	2	3	3	3	-

4/5 ML4 OJT01 OJT Project and Report

1.1. Course Overview

Course :	ML4 OJT01 OJT Project and Report
Type of the course	Project
Hours/Week:	5
Credits	4
Hours/ Sem	90
Marks (Internal)	20
Marks (External):	80
Assignments (Internal)	2
Tests (Internal)	-

1.2 . SYLLABUS:

Module	Hrs	Topic	Marks for Uty	Approximate Time

Curriculum Frame Work 2019, B.A Malayalam with Journalism (model II)

			Exam	schedule
1.	90	പരസ്യനിർമ്മാണം	80	1 Semester

1.3.COURSE OUTCOMES(COs)

By the end of this course, the student should be able to

S.No.	DESCRIPTION
CO 1	സർഗാത്മക രചനാ പാടവം വർദ്ധിക്കുന്നു.
CO 2	പ്രായോഗിക പരിശീലനം നേടുന്നു.
CO 3	തൊഴിൽ സാധ്യത വർദ്ധിക്കുന്നു.

1.4. CO- PO Mapping

(3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	1	1	1	2	2	1	3	1	3	2
CO 2	1	1	1	3	2	2	3	2	2	3
CO 3	1	1	1	2	2	3	1	2	3	2

1.5. CO- PSO Mapping

3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO 1	1	2	1	3	2	1
CO 2	1	2	3	3	2	-
CO 3	1	2	3	3	2	1

Semester 5
5/1 ML5CRT05

Curriculum Frame Work 2019, B.A Malayalam with Journalism (model II)

പരിസ്ഥിതി വിജ്ഞാനവും മനുഷ്യാവകാശ പഠനവും

1.1. Course Overview

Course :	ML5CRT05പരിസ്ഥിതി വിജ്ഞാനവും മനുഷ്യാവകാശ പഠനവും
Type of the course	Theory
Hours/Week:	5
Credits	4
Hours/ Sem	90
Marks (Internal)	20
Marks (External):	80
Assignments (Internal)	1
Tests (Internal)	2

1.2 . SYLLABUS:

Module	Hrs	Topic	Marks for Uty Exam	Approximate Time schedule
1.	18	പരിസ്ഥിതി പഠനത്തിന്റെ ബഹുവിജ്ഞാനീയ സ്വഭാവം	13	Weeks 1-3
2.	18	ജൈവവൈവിധ്യം	15	Weeks 4-7
3.	18	പരിസ്ഥിതി ബോധം	19	Weeks 8-11
4.	18	പാരിസ്ഥിതിക സംവേദനവും പഠനവും	17	Weeks 12-14
5.	18	മനുഷ്യാവകാശങ്ങൾ	16	Weeks 15-18

1.3.COURSE OUTCOMES(COs)

By the end of this course, the student should be able to

S.No.	DESCRIPTION
CO 1	പരിസ്ഥിതി പഠനത്തിന്റെ പ്രസക്തി മനസ്സിലാക്കുകയും അതുവഴി പരിസ്ഥിതി സംരക്ഷണ പ്രവർത്തനങ്ങളിൽ പങ്കാളികളാവുകയും ചെയ്യും.
CO 2	പരിസ്ഥിതി പ്രശ്നങ്ങൾ തിരിച്ചറിയുവാനും വിമർശന വിചിന്തനം നടത്തുവാനും പ്രശ്ന പരിഹാരം നിർദ്ദേശിക്കാനുമുള്ള നൈപുണി നേടിയെടുക്കുന്നു.
CO 3	അടിസ്ഥാന അവകാശങ്ങൾ, കടമകൾ എന്നിവയെ കുറിച്ച് അറിവു നേടി.
CO 4	പരിസ്ഥിതി പരിപാലനം , പരിസ്ഥിതി സംരക്ഷണം എന്നിവയിൽ പങ്കുചേർന്നു

1.4. CO- PO Mapping

(3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

Curriculum Frame Work 2019, B.A Malayalam with Journalism (model II)

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	-	-	1	-	-	3	-	2	1	-
CO 2	-	-	2	-	-	3	-	3	2	1
CO 3	-	-	3	-	-	-	-	-	-	-
CO 4	-	-	1	-	-	3	-	2	2	-

1.5. CO- PSO Mapping

3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO 1	1	-	-	-	-	3
CO 2	-	-	-	-	-	3
CO 3	-	-	-	-	-	2
CO 4	-	-	-	-	-	3

1.6. TEXT/REFERENCE BOOKS:

S.No.	BOOK TITLE / AUTHORS / PUBLICATION	T/R
1	ഹരിത നിരൂപണം മലയാളത്തിൽ - ജി മധുസൂദനൻ	R
2	ഇക്കോഫെമിനിസം, ഇക്കോ ടൂറിസം,മാർക്സിസം-എൻ.എം പിയേഴ്സൺ	R
3	പരിസ്ഥിതി സൗന്ദര്യ ശാസ്ത്രത്തിന് ഒരു മുഖവുര- ടി. പി സുകുമാരൻ	R

5/2 ML5CRT06 സാഹിത്യമീമാംസ

1.1. Course Overview

Course :	ML5CRT06 സാഹിത്യമീമാംസ
Type of the course	Theory
Hours/Week:	5
Credits	4
Hours/ Sem	90
Marks (Internal)	20
Marks (External):	80
Assignments (Internal)	1
Tests (Internal)	2

1.2 . SYLLABUS:

Module	Hrs	Topic	Marks for Uty Exam	Approximate Time schedule
1.	18	കവി , കാവ്യം	19	Weeks 1-3
2.	18	അലങ്കാരങ്ങൾ	17	Weeks 4-7
3.	18	രസം	16	Weeks 8-11

Curriculum Frame Work 2019, B.A Malayalam with Journalism (model II)

4.	18	പാശ്ചാത്യ സാഹിത്യ ദർശനം	12	Weeks 12-14
5.	18	ഭാഷയും സാഹിത്യവും	16	Weeks 15-18

1.3.COURSE OUTCOMES(COs)

By the end of this course, the student should be able to

S.No.	DESCRIPTION
CO 1	സൈദ്ധാന്തിക വ്യവഹാരങ്ങൾക്ക് സാഹിത്യപഠനത്തിനുള്ള പ്രാധാന്യം തിരിച്ചറിഞ്ഞു.
CO 2	സൗന്ദര്യശാസ്ത്ര സാഹിത്യ പഠനമേഖലയിലുള്ള പ്രാധാന്യം തിരിച്ചറിഞ്ഞു.
CO 3	മലയാള ഭാഷയിലെ സാങ്കേതികതയെക്കുറിച്ച് കൂടുതൽ അറിവ് ലഭിച്ചു.
CO 4	കൃതികളുടെ പഠനത്തിലൂടെ സാമൂഹികമൂല്യം കൈവന്നു.
CO 5	സൈദ്ധാന്തിക വിഷയങ്ങളിൽ തുടർപഠന സാധ്യത മനസ്സിലാക്കി.

1.4. CO- PO Mapping

(3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	1	-	2	-	1	-	2	-	-	-
CO 2	1	-	2	-	-	-	2	-	-	-
CO 3	1	-	1	-	3	-	1	-	-	-
CO 4	-	-	-	-	-	-	1	3	-	-
CO 5	-	-	2	-	-	-	3	-	-	-

1.5. CO- PSO Mapping

3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO 1	2	2	-	-	-	-
CO 2	2	3	-	-	-	-
CO 3	2	2	-	-	-	-
CO 4	2	2	-	-	-	3
CO 5	2	2	-	-	-	1

1.6. TEXT/REFERENCE BOOKS:

S.No.	BOOK TITLE / AUTHORS / PUBLICATION	T/R
1	ഭാഷാഭൂഷണം - എ ആർ രാജരാജവർമ്മ	T
2	വൃത്തമഞ്ജരി- എ ആർ രാജരാജവർമ്മ	T
3	ഇന്ത്യൻ സാഹിത്യ സിദ്ധാന്തവും പ്രയോഗവും- ഡോ. കെ അയ്യപ്പപണിക്കർ	T
4	കാവ്യപീഠിക- ജോസഫ് മു ശ്ശേരി	T
5	ഭാരതീയ സാഹിത്യദർശനം- ചാത്തനാത്ത് അച്യുതനുണ്ണി	T

5/3 ML5CRT07 ചെറുകഥ, നോവൽ

Curriculum Frame Work 2019, B.A Malayalam with Journalism (model II)

1.1. Course Overview

Course :	ML5CRT07 ചെറുകഥ, നോവൽ
Type of the course	Theory
Hours/Week:	5
Credits	4
Hours/ Sem	90
Marks (Internal)	20
Marks (External):	80
Assignments (Internal)	1
Tests (Internal)	2

1.2 . SYLLABUS:

Module	Hrs	Topic	Marks for Uty Exam	Approximate Time schedule
1.	15	ആദ്യകാല ഗദ്യം - നോവലുകൾ	15	Weeks 1-3
2.	15	ആധുനിക മലയാള നോവൽ	16	Weeks 4-7
3.	15	ആധുനികാനന്തര മലയാള നോവൽ	13	Weeks 8-10
4.	15	ചെറുകഥ - വികാസ പരിണാമങ്ങൾ	10	Weeks 11-13
5.	15	ചെറുകഥ ആധുനിക പ്രവണതകൾ	12	Weeks 13-15
6.	15	ആധുനികാനന്തര സാഹിത്യ സമീപനങ്ങൾ	14	Weeks 16-18

1.3.COURSE OUTCOMES(COs)

By the end of this course, the student should be able to

Sl.No.	DESCRIPTION
CO 1	ചെറുകഥ, നോവൽ ഇവയുടെ വികാസ പരിണാമ ചരിത്രം മനസ്സിലാക്കി.
CO 2	വിഷയവുമായി ബന്ധപ്പെട്ട് ഗവേഷണാഭിരുചി വളർത്തിയെടുക്കാൻ സാധിച്ചു.
CO 3	കഥയുടെയും നോവലിന്റെയും അപഗ്രഥനാത്മക പഠനത്തിലൂടെ പുരോഗമനാത്മക കാഴ്ചപ്പാടുകൾ വളർത്തിയെടുക്കാൻ സാധിച്ചു.
CO 4	ഭാഷയും സാഹിത്യവും നന്നായി കൈകാര്യം ചെയ്യുന്നതിൽ വൈദഗ്ദ്ധ്യം നേടി.

1.4. CO- PO Mapping

(3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	3	-	2	-	-	-	1	-	-	-
CO 2	2	-	3	-	-	-	1	-	-	-
CO 3	2	-	-	-	-	-	-	3	2	-
CO 4	3	-	2	-	1	-	1	1	-	-

1.5. CO- PSO Mapping

Curriculum Frame Work 2019, B.A Malayalam with Journalism (model II)

3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO 1	3	2	-	-	-	-
CO 2	3	-	-	-	-	-
CO 3	-	-	-	-	-	3
CO 4	3	2	-	-	-	-

1.6. TEXT/REFERENCE BOOKS:

S.No.	BOOK TITLE / AUTHORS / PUBLICATION	T/R
1	ചെറുകഥ ഇന്നലെ ഇന്ന് - എം അച്യുതൻ	R
2	മലയാള ചെറുകഥാ സാഹിത്യ ചരിത്രം - എം . എം ബഷീർ	R
3	നോവൽ സാഹിത്യം - എം പി പോൾ	R
4	ചെറുകഥാ പ്രസ്ഥാനം- എം പി പോൾ	R
5	അന്ധനായ ദൈവം - പി കെ രാജശേഖരൻ	R

5/5 ML010102 ഭാഷാശാസ്ത്രം

1.1. Course Overview

Course :	ML010102 ഭാഷാശാസ്ത്രം
Type of the course	Theory
Hours/Week:	5
Credits	4
Hours/ Sem	90
Marks (Internal)	20
Marks (External):	80
Assignments (Internal)	1
Tests (Internal)	2

1.2 . SYLLABUS:

Module	Hrs	Topic	Marks for Uty Exam	Approximate Time schedule
1.	18	ഭാഷ അടിസ്ഥാന വസ്തുതകളും വർഗീകരണവും	16	Weeks 1-3
2.	18	സ്വന്തവും സ്വന്തിമവും	12	Weeks 4-7
3.	18	രൂപവും വാക്യവും	17	Weeks 8-11
4.	18	ഭാഷ അർത്ഥം, സമൂഹം	16	Weeks 12-14
5.	18	ഭാഷാ പരിണാമം , ഭാഷാശാസ്ത്ര പഠന ശാഖകൾ	19	Weeks 15-18

1.3.COURSE OUTCOMES(COs)

Curriculum Frame Work 2019, B.A Malayalam with Journalism (model II)

By the end of this course, the student should be able to

S.No.	DESCRIPTION
CO 1	ഭാഷാശാസ്ത്ര ദൃഷ്ടിയിലൂടെ ഭാഷയെ അടിസ്ഥാനപരമായി മനസ്സിലാക്കി.
CO 2	സൈദ്ധാന്തിക സമീപനങ്ങളിലൂടെ ഭാഷാശാസ്ത്രത്തിന്റെ വിവിധ മേഖലകളെ അറിഞ്ഞു.
CO 3	ഭാഷാശാസ്ത്ര അടിസ്ഥാന ഘട്ടങ്ങളിലൂടെ വ്യാകരണവുമായുള്ള വ്യത്യാസം മനസ്സിലാക്കാൻ കഴിഞ്ഞു.
CO 4	അറിയുവാനും കെ തുവാനുമുള്ള ഭാഷാശാസ്ത്രത്തിന്റെ വിവിധ മേഖലകളെ മനസ്സിലാക്കി

1.4. CO- PO Mapping

(3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	2	-	-	-	1	-	-	-	2	-
CO 2	-	-	2	-	-	-	2	-	-	-
CO 3	-	-	1	-	2	-	-	1	-	-
CO 4	-	-	1	-	1	-	2	-	2	-

1.5. CO- PSO Mapping

3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO 1	2	-	-	-	-	-
CO 2	1	-	-	-	-	-
CO 3	1	1	-	-	-	-
CO 4	-	1	-	-	-	1

1.6. TEXT/REFERENCE BOOKS:

S.No.	BOOK TITLE / AUTHORS / PUBLICATION	T/R
1	ഭാഷാശാസ്ത്ര വിവേകം- കെ എം പ്രഭാകരവാര്യർ	R
2	ഭാഷാവലോകനം - കെ എം പ്രഭാകരവാര്യർ	R
3	ഭാഷാശാസ്ത്ര പരിചയം- വി ആർ പ്രബോധചന്ദ്രൻ	R
4	കേരളഭാഷാ വിജ്ഞാനീയം- ഡോ. കെ ഗോദവർമ്മ	R
5	ഹരിത ഭാഷാശാസ്ത്രം- ശ്രീവൽസൻ	R

5/5 ML5OP TO1പത്ര പ്രവർത്തനം

1.1. Course Overview

Curriculum Frame Work 2019, B.A Malayalam with Journalism (model II)

Course :	ML5OP TO1പത്ര പ്രവർത്തനം
Type of the course	Theory
Hours/Week:	5
Credits	4
Hours/ Sem	90
Marks (Internal)	20
Marks (External):	80
Assignments (Internal)	1
Tests (Internal)	2

1.2 . SYLLABUS:

Module	Hrs	Topic	Marks for Uty Exam	Approximate Time schedule
1.	22	പത്ര പ്രവർത്തനം- ചരിത്രം	18	Weeks 1-4
2.	23	പത്ര പ്രവർത്തന രീതികൾ	22	Weeks 5-10
3.	22	ടെലിവിഷൻ ജേർണലിസം	19	Weeks 11- 14
4.	23	പ്രുഫ് വായന	21	Weeks 15-18

1.3.COURSE OUTCOMES(COs)

By the end of this course, the student should be able to

S.No.	DESCRIPTION
CO 1	പത്രപ്രവർത്തനത്തിന്റെ സാങ്കേതിക വശങ്ങളെ കുറിച്ച് അവബോധം നേടുന്നു.
CO 2	തൊഴിൽ മേഖലകളുടെ സാധ്യതകൾ പഠിതാവ് മനസ്സിലാക്കുന്നു
CO 3	മാധ്യമരംഗത്തെ തൊഴിൽ മേഖലകളുടെ സാധ്യതകൾ മനസ്സിലാക്കുന്ന പഠിതാവിനു ലഭിക്കുന്ന അവസരങ്ങൾ
CO 4	സാമൂഹ്യപ്രതിബദ്ധതയുള്ള മാധ്യമപ്രവർത്തകരായി മാറുന്നു

1.4. CO- PO Mapping

(3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	2	-	-	2	-	-	-	-	-	-
CO 2	3	-	2	-	-	-	1	-	-	-
CO 3	2	-	-	-	-	-	1	-	-	-
CO 4	3	-	-	2	-	-	1	-	-	-

1.5. CO- PSO Mapping

Curriculum Frame Work 2019, B.A Malayalam with Journalism (model II)

3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO 1	-	-	3	-	-	-
CO 2	-	-	-	-	3	-
CO 3	-	-	2	-	-	-
CO 4	-	-	-	-	-	2

1.6. TEXT/REFERENCE BOOKS:

S.No.	BOOK TITLE / AUTHORS / PUBLICATION	T/R
1	കേരള പത്രപ്രവർത്തന ചരിത്രം - പുതുപ്പള്ളി രാഘവൻ	R
2	വാർത്തയുടെ ശിൽപ്പശാല - എൻ. എൻ. സത്യവതൻ	R
3	ദൃശ്യഭാഷ - കെ എസ് രാജശേഖരൻ	R
4	വാർത്ത - ജോയി തിരുമുലം	R

Semester 6

6/1 . MLCRT09 കേരളീയ ദൃശ്യകല

1.1. Course Overview

Course :	MLCRT09 കേരളീയ ദൃശ്യകല
Type of the course	Theory
Hours/Week:	5
Credits	4
Hours/ Sem	90
Marks (Internal)	20
Marks (External):	80
Assignments (Internal)	1
Tests (Internal)	2

1.2 . SYLLABUS:

Module	Hrs	Topic	Marks for Uty Exam	Approximate Time schedule
1.	22	നാട്ടരങ്ങും നാടൻ കലാരൂപങ്ങളും		Weeks 1-4
2.	23	കഥകളി , തുള്ളൽ		Weeks 5-10
3.	23	നാടോടി രംഗകലകൾ		Weeks 11-14
4.	22	നാടോടി നാടകങ്ങൾ		Weeks 15-18

Curriculum Frame Work 2019, B.A Malayalam with Journalism (model II)

1.3.COURSE OUTCOMES(COs)

By the end of this course, the student should be able to

Sl.No.	DESCRIPTION
CO 1	കേരളീയ ദൃശ്യ കലകളെയും അവയ്ക്കായാതായ സാഹിത്യ രൂപങ്ങളെയും കുറിച്ച് അറിവ് നേടി.
CO 2	ദൃശ്യ കലകളുമായി ബന്ധപ്പെട്ട മേഖലകളിൽ ഉപരി പഠനാഭിരുചി വർദ്ധിച്ചു.
CO 3	കേരളീയ സാംസ്കാരികത്തിന് ഉപയുക്തമായ രീതിയിൽ പുതിയ പഠനങ്ങളും ക്ലാസ്സുകളും നടത്താൻ പ്രാപ്തനാകുന്നു.
CO 4	സമയോചിതമായി പഠനപ്രവർത്തനങ്ങൾ പൂർത്തിയാക്കുന്നതിനുള്ള കഴിവ് നേടി.

1.4. CO- PO Mapping

(3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	3	-	2	-	-	-	2	2	-	-
CO 2	3	-	-	-	-	-	2	1	-	-
CO 3	2	-	1	-	-	-	2	3	3	-
CO 4	2	-	-	-	-	-	-	-	-	-

1.5. CO- PSO Mapping

3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO 1	3	-	2	-	-	-
CO 2	3	-	-	-	-	-
CO 3	2	-	-	-	-	3
CO 4	-	-	1	-	-	-

1.6. TEXT/REFERENCE BOOKS:

1	ഫോക്ലോർ -രാഘവൻ പയ്യനാട്	R
2	നാടോടി വിജ്ഞാനീയം -എം വി വിഷ്ണു നമ്പൂതിരി	R
3	ഫോക്ലോർ ജനുസ്സ് , രാഷ്ട്രീയം - കെ എം അനിൽ	R
4	ഫോക്ലോർ പാഠങ്ങൾ , പഠനങ്ങൾ - അജുനാരായണൻ	R
5	പടേനി - പ്രൊഫ. കടമ്മനിട്ട വാസുദേവൻ	R

6/2ML6CRT10പ്രാചീന സാഹിത്യം

1.1. Course Overview

Course :	ML6CRT10പ്രാചീന സാഹിത്യം

Curriculum Frame Work 2019, B.A Malayalam with Journalism (model II)

Type of the course	Theory
Hours/Week:	5
Credits	4
Hours/ Sem	90
Marks (Internal)	20
Marks (External):	80
Assignments (Internal)	1
Tests (Internal)	2

1.2 . SYLLABUS:

Module	Hrs	Topic	Marks for Uty Exam	Approximate Time schedule
1.	18	പാട്ടുപ്രസ്ഥാനം	19	Weeks 1-3
2.	18	പ്രാചീന മണിപ്രവാള കൃതികൾ	18	Weeks 4-7
3.	18	പ്രാചീന ഗദ്യ മാതൃകകൾ	15	Weeks 8-11
4.	18	പാട്ടിന്റെയും മണിപ്രവാളത്തിന്റെയും പിൻക്കാല വികാസം	12	Weeks 12-14
5.	18	ലീലാതിലകം	16	Weeks 15-18

1.3.COURSE OUTCOMES(COs)

By the end of this course, the student should be able to

S.No.	DESCRIPTION
CO 1	മലയാളത്തിന്റെ സ്വതന്ത്രപര്യവേഷണ ഘട്ടത്തെക്കുറിച്ച് സാമാന്യ ധാരണ ആർജ്ജിക്കുന്നു.
CO 2	വിവിധ മാതൃകയിലുള്ള സാഹിത്യകൃതികൾ പരിചയപ്പെടുന്നു.
CO 3	കൃതികളിലെ സാമൂഹിക-സാംസ്കാരിക പശ്ചാത്തലം ഉൾക്കൊള്ളുന്നു.
CO 4	വ്യത്യസ്ത ധാരകളിലുള്ള പ്രാചീന കൃതികളിലെ ഭാഷാസ്വഭാവം, സാഹിത്യരീതി എന്നിവയെക്കുറിച്ച് ധാരണ ഉളവാകുന്നു.
CO 5	തുടർ പഠനത്തിനുള്ള താല്പര്യം ജനിക്കുന്നു.

1.4. CO- PO Mapping

(3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	1	-	-	-	-	-	1	-	-	-
CO 2	1	-	1	-	1	-	2	1	-	-
CO 3	1	-	1	-	1	-	-	3	-	-
CO 4	1	-	2	-	3	-	2	1	-	-
CO 5	2	-	3	-	1	-	3	1	-	-

1.5. CO- PSO Mapping

Curriculum Frame Work 2019, B.A Malayalam with Journalism (model II)

3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO 1	3	1	-	-	-	1
CO 2	2	2	-	-	-	1
CO 3	2	2	-	-	-	2
CO 4	3	3	-	-	-	1
CO 5	2	3	-	-	-	-

1.6. TEXT/REFERENCE BOOKS:

S.No.	BOOK TITLE / AUTHORS / PUBLICATION	T/R
1	രാമചരിതവും പ്രാചീന മലയാളവും- ഡോ.എൻ ആർ ഗോപിനാദപിള്ള	R
2	മണിപ്രവാളകവിത- പി വി വേലായുധൻപിള്ള	R
3	പ്രാചീന മലയാള ഗദ്യമാതൃകകൾ - ഉള്ളൂർ എസ് പരമേശ്വരയ്യർ	R
4	മധ്യകാല മലയാളം- ഡോ പി വി വേലായുധൻപിള്ള	R
5	ലീലാതിലകം ഭാഷാശാസ്ത്ര ദൃഷ്ടിയിൽ- ഡോ. എസ്. വി ഷൺമുഖം	R

6/3ML6CRT11 നിരൂപണം

1.1. Course Overview

Course :	ML6CRT11നിരൂപണം
Type of the course	Theory
Hours/Week:	5
Credits	4
Hours/ Sem	90
Marks (Internal)	20
Marks (External):	80
Assignments (Internal)	1
Tests (Internal)	2

1.2 . SYLLABUS:

Module	Hrs	Topic	Marks for Uty Exam	Approximate Time schedule
1.	18	മലയാള ഗദ്യം - പ്രാരംഭം	17	Weeks 1-3
2.	18	നിരൂപണ മാതൃകകൾ	16	Weeks 4-7
3.	18	നവവിമർശനം	12	Weeks 8-11
4.	18	സംസ്കാരപഠനവും സാഹിത്യവും, കീഴാള പഠനം	17	Weeks 12-14
5.	18	ഗദ്യത്തിന്റെ വിവിധ ആവിഷ്കാരങ്ങൾ	18	Weeks 15-18

Curriculum Frame Work 2019, B.A Malayalam with Journalism (model II)

1.3.COURSE OUTCOMES(COs)

By the end of this course, the student should be able to

S.No.	DESCRIPTION
CO 1	മലയാള നിരൂപണത്തിന്റെ ചരിത്രത്തെപ്പറ്റി ഏകദേശ ധാരണ രൂപപ്പെടു.
CO 2	സാഹിത്യ നിരൂപണത്തിന്റെ വ്യത്യസ്ത തലങ്ങൾ രൂപപ്പെടുന്നു.
CO 3	വിവിധ സാഹിത്യ സിദ്ധാന്തങ്ങളെ വിമർശനാത്മകമായി വിലയിരുത്തുക.
CO 4	പ്രായോഗിക നിരൂപണം നടത്താൻ പഠിതാക്കൾ പ്രാപ്തരായി.

1.4. CO- PO Mapping

(3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	-	-	2	-	-	-	-	-	-	-
CO 2	-	-	2	-	-	-	-	-	-	-
CO 3	-	-	1	-	-	1	1	1	1	-
CO 4	-	-	1	-	-	1	1	-	2	-

1.5. CO- PSO Mapping

3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO 1	2	-	-	-	-	-
CO 2	2	-	-	-	-	-
CO 3	2	2	-	-	-	-
CO 4	1	3	-	-	-	3

1.6. TEXT/REFERENCE BOOKS

S.No.	BOOK TITLE / AUTHORS / PUBLICATION	T/R
1	മലയാള സാഹിത്യ വിമർശനം -സുകുമാർ അഴീക്കോട്.	R
2	കുലസ്ത്രീയും ചന്തപ്പെണ്ണയും - ജെ ദേവിക	R
3	തിരസ്കാരം - കെ . പി അപ്പൻ	R

6/5 ML6CRT12വ്യാകരണം , ഭാഷചരിത്രം

1.1. Course Overview

Course :	ML6CRT12വ്യാകരണം , ഭാഷചരിത്രം
Type of the course	Theory
Hours/Week:	5

Curriculum Frame Work 2019, B.A Malayalam with Journalism (model II)

Credits	4
Hours/ Sem	90
Marks (Internal)	20
Marks (External):	80
Assignments (Internal)	1
Tests (Internal)	2

1.2 . SYLLABUS:

Module	Hrs	Topic	Marks for Uty Exam	Approximate Time schedule
1.	18	മലയാള വ്യാകരണ പഠനത്തിന്റെ പ്രാധാന്യം, സന്ധിപ്രകരണം	16	Weeks 1-3
2.	18	നാമാധികാരം , വിഭക്തി	12	Weeks 4-7
3.	18	ക്രിയാ വിഭാഗം	16	Weeks 8-11
4.	18	ഭേദകം , സമാസം	17	Weeks 12-14
5.	18	മലയാള ഭാഷാ ചരിത്രം	19	Weeks 15-18

1.3.COURSE OUTCOMES(COs)

By the end of this course, the student should be able to

S.No.	DESCRIPTION
CO 1	ഭാഷയേയും ഭാഷാവ്യാകരണത്തേയും മനസിലാക്കി.
CO 2	എഴുത്തിലും ഉച്ചാരണത്തിലും ഭാഷവൈദഗ്ദ്ധ്യം നേടി.
CO 3	വ്യാകരണ സിദ്ധാന്തങ്ങളെ വിമർശനാത്മകമായി സമീപിക്കാൻ കഴിവു നേടി.
CO 4	മലയാള ഭാഷചരിത്രത്തെ മനസിലാക്കി.

1.4. CO- PO Mapping

(3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	3	-	-	-	-	-	2	-	1	-
CO 2	3	-	-	-	2	2	-	-	-	-
CO 3	2	-	-	-	-	1	-	1	-	-
CO 4	1	-	-	-	-	-	-	-	1	-

1.5. CO- PSO Mapping

3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

Curriculum Frame Work 2019, B.A Malayalam with Journalism (model II)

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO 1	1	-	-	-	-	-
CO 2	2	-	-	-	-	-
CO 3	1	1	-	-	-	-
CO 4	1	-	-	-	-	-

1.6. TEXT/REFERENCE BOOKS:

S.No.	BOOK TITLE / AUTHORS / PUBLICATION	T/R
1	കേരള പാണിനീയം - എ.ആർ രാജരാജ വർമ്മ	R
2	പൂർവ്വകേരള ഭാഷ - കെ. എം പ്രഭാകരവാര്യർ	R
3	ലീലാതിലകം- ഇളംകുളം കുഞ്ഞൻപിള്ള	R
4	മലയാള വ്യാകരണ സമീപനം- കെ. എം പ്രഭാകരവാര്യർ	R
5	ഭാഷാവലോകനം - കെ. എം പ്രഭാകരവാര്യർ	R

6/5ML6CB02 മാധ്യമവിജ്ഞാനീയം

1.1. Course Overview

Course :	ML6CB02 മാധ്യമവിജ്ഞാനീയം
Type of the course	Theory
Hours/Week:	5
Credits	4
Hours/ Sem	90
Marks (Internal)	20
Marks (External):	80
Assignments (Internal)	1
Tests (Internal)	2

1.2. SYLLABUS:

Module	Hrs	Topic	Marks for Uty Exam	Approximate Time schedule
1.	18	അച്ചടി - ചരിത്രം	16	Weeks 1-3
2.	18	ശ്രാവ്യ മാധ്യമം - റേഡിയോ	13	Weeks 4-7
3.	18	ദൃശ്യ മാധ്യമം - ടെലിവിഷൻ	16	Weeks 8-11
4.	18	നവമാധ്യമങ്ങൾ	18	Weeks 12-14

Curriculum Frame Work 2019, B.A Malayalam with Journalism (model II)

5.	18	വിവര സാങ്കേതിക വിദ്യ	17	Weeks 15-18

1.3.COURSE OUTCOMES:(COs)

By the end of this course, the student should be able to

S.No.	DESCRIPTION
CO 1	ഭാഷ പഠനത്താൽ പഠിതാവ് മികച്ച ആശയ വിനിമയത്തിന് പ്രാപ്തനാവുന്നു.
CO 2	റേഡിയോ സംബന്ധമായ ഉപരി പഠന യോഗ്യതകൾ ,ജോലിമേഖലകൾ എന്നിവയെ അറിയുന്നു.
CO 3	മലയാള ടെലിവിഷൻ, ടെലിവിഷൻ ജേർണലിസം എന്നീ മേഖലകളിലെ ഉപരി പഠനം ജോലി സാധ്യതകൾ എന്നിവ പഠിതാവ് തിരിച്ചറിയുന്നു.
CO 4	നേടിയെടുത്ത അറിവുകൾ സമൂഹത്തിൽ പ്രയോഗിക്കാനുള്ള സാമർത്ഥ്യം നേടുന്നു.

1.4. CO- PO Mapping

(3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	2	-	-	-	3	-	-	-	-	-
CO 2	2	-	-	-	-	-	2	-	-	-
CO 3	2	-	-	-	-	-	2	-	-	-
CO 4	1	-	-	-	-	-	2	3	-	-

1.5. CO- PSO Mapping

3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO 1	2	-	-	-	-	-
CO 2	-	-	3	-	-	-
CO 3	-	-	-	-	2	-
CO 4	-	-	-	-	-	2

1.6. TEXT/REFERENCE BOOKS:

S.No.	BOOK TITLE / AUTHORS / PUBLICATION	T/R
1	ദൃശ്യ ഭാഷ - കെ എസ് രാജശേഖരൻ	R
2	മാധ്യമ പഠനങ്ങൾ - പത്മന രാമചന്ദ്രൻ നായർ	R
3	ജനപ്രിയ സംസ്കാരം - ഷാജി ജേക്കബ്	R
4	മലയാള ടെലിവിഷൻ ചരിത്രം - ടി കെ സന്തോഷ്കുമാർ	R

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Journalism (model II)**

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**PAVANATMA COLLEGE
MURICKASSERY**

Department of Malayalam

**CURRICULUM FRAMEWORK
of**

**M. A Malayalam
(Based on MGU 2019 Syllabus)**

August 2019

CURRICULUM FRAME WORK OF

M. A Malayalam

Part A

1. Institutional Objectives

A vibrant, enlightened, and responsible community founded on a relentless pursuit of excellence by

1	Encouraging higher education among the economically weak and poor sections of the community, irrespective of caste and creed.
2	Instilling commitment to academic mastery to seek new pastures of life by being a center of excellence in arts and science.
3	Fostering in the individual a sense of concern for the less privileged fellow beings.

2. Programme Outcomes (POs)

A person obtaining a Bachelor's and Master's degree from Pavanatma should demonstrate the following characteristic attributes:

PO1	Equipped with in-depth & extensive theoretical and practical knowledge and understanding of their disciplines to meet career needs.
PO2	Equipped with an inter disciplinary perspective.
PO3	Able to create new knowledge and opportunities for learning through the process of research and inquiry.
PO4	Able to use a basic range of established techniques to analyze information and propose solutions.
PO5	Able to communicate accurately and reliably to a range of audiences.
PO6	Able to exercise personal responsibility and decision-making and able to work in a group
PO7	Able to identify their own learning needs and to select an appropriate program of further study.
PO8	Possess behavior consistent with academic integrity and social responsibility
PO9	Be Confident and skillful to take up responsibilities and challenges and able to meet targets and deadlines
PO10	Possess capacity to use appropriate technologies recognizing their advantages and limitations, by being aware of technological innovations and advancements

3. Programme Outline of M. A Malayalam

1.	Programme Duration	4 Semesters
2.	Total Credits required for successful completion of the Programme	80

CURRICULUM FRAME WORK OF

M. A Malayalam

3.	Credits required from Malayalam	75
4.	Credits from Project	3
5.	Credits from Comprehensive Viva	5

4. Programme Specific Objectives of M.A Malayalam

1. മലയാള ഭാഷയുടേയും സാഹിത്യത്തിന്റേയും സൗന്ദര്യ ശാസ്ത്രപരവും സാംസ്കാരികവുമായ തലങ്ങൾ സൂക്ഷ്മമായും വിമർശനാത്മകമായും അപഗ്രഥിക്കുവാനുള്ള കഴിവ് നേടുക.
2. അക്കാദമികമായും സർഗാത്മകമായും ഭാഷ പ്രയോഗിക്കുന്നതിനുള്ള നൈപുണി വർദ്ധിപ്പിക്കുക.
3. സാഹിത്യരചനയുടെ വിവിധ മേഖലകളിൽ അഭിരമിക്കാനുള്ള കഴിവ് നേടുക.
4. സമകാലിക ലോകത്തിൽ ഭാഷ നേരിടുന്ന വെല്ലുവിളികൾ അഭിസംബോധന ചെയ്യാൻ പ്രാപ്തരാകുക.
5. ഗവേഷണ മേഖലയിൽ ഗൗരവ ബുദ്ധിയോടെ ഇടപെടുന്നതിന് ആവശ്യമായ സൈദ്ധാന്തിക ധാരണകൾ വികസിപ്പിക്കുക.
6. ഭാഷയേയും സാഹിത്യത്തെയും ഇതര വൈജ്ഞാനിക മേഖലകളുമായി ബന്ധിപ്പിച്ച് പരിവർത്തനോന്മുഖമായ അന്വേഷണങ്ങൾ നടത്തുന്നതിന് പരിശീലനം നേടുക.

5. Programme Specific Outcomes (PSO)

PSO1	മലയാള ഭാഷയേയും സാഹിത്യത്തേയും സാംസ്കാരിക സൗന്ദര്യപരമായ തലത്തിൽ നിന്നുകൊണ്ട് സൂക്ഷ്മവും വിമർശനാത്മകവുമായ രീതിയിൽ അപഗ്രഥിക്കുവാനുള്ള കഴിവ് നേടി.
PSO2	അക്കാദമികമായും സർഗാത്മകമായും ഭാഷ പ്രയോഗിക്കുന്നതിനുള്ള നൈപുണി നേടി.
PSO3	സാഹിത്യരചനയുടെ വിവിധ മേഖലകളിൽ അഭിരമിക്കാനുള്ള കഴിവ് നേടി.
PSO4	ഇന്നത്തെ കാലഘട്ടത്തിൽ ഭാഷ നേരിടുന്ന വെല്ലുവിളികൾ മനസ്സിലാക്കാനും അതിനെ തരണം ചെയ്യാനും കഴിവ് നേടി.
PSO5	സൈദ്ധാന്തിക തലത്തിൽ നിന്നുകൊണ്ട് ഗവേഷണാഭിരുചി നേടുകയും പ്രായോഗിക തലത്തിൽ പ്രാപ്തരാകുകയും ചെയ്തു.
PSO6	ഇതര വൈജ്ഞാനിക മേഖലകളുമായി ഭാഷയേയും സാഹിത്യത്തെയും ഗവേഷണ ബുദ്ധിയോടെ ബന്ധിപ്പിക്കുകയും പരിവർത്തനോന്മുഖമായ അന്വേഷണങ്ങൾ നടത്തുന്നതിന് പ്രാപ്തി നേടുകയും ചെയ്തു.

CURRICULUM FRAME WORK OF

M. A Malayalam

6. Assessment Methods

6.1. In-Semester Assessment and End-Semester Assessment

The evaluation of each course contains two parts:.

- (i) Internal or In-Semester Assessment (CE)
- (ii) External or End-Semester Assessment (CSE)

6.2. Credit Point (CP)

Credit Point (CP) of a course is calculated using the formula:-

$$CP = C \times GP,$$

where C is the Credit and GP is the Grade point

Semester Grade Point Average (SGPA) of a Semester is calculated using the formula:-

$$SGPA = TCPS/TCS,$$

where TCPS is the Total Credit Point of that semester,

TCS is the total credit of that semester

$$\text{Weighted Grade Point (WGP)} = GP \times W$$

Grade Point X Weight

$$WGPA = CE + CSE$$

CE= Internal Examination + External Examination

CURRICULUM FRAME WORK OF

M. A Malayalam

6. 3. Weight Distribution for Internal and External Evaluation

The external theory examination of all semesters shall be conducted by the University at the end of each semester. Internal evaluation is to be done by continuous assessment. Marks distribution for external and internal assessments and the components for internal evaluation with their marks are shown below:

6.3.1. For all courses without practical

a)Weights of of external Examination : 30

b) Marks of internal evaluation : 5

Components of Internal Evaluation of Theory	WEIGHT
Assignment	1
/Seminar	2
Test papers (2x1=2)	2
Total	5

6.3.2 For Projects

a) Weight of external evaluation : 15

b) Marks of internal evaluation : 5

6.3.1.Project Report (Internal Examination)

Components of Internal Evaluation of Project	Weight
Relevance of the Topic	2
Project Presentation	2
Project Viva	1
Total	5

CURRICULUM FRAME WORK OF

M. A Malayalam

6.3.2. Project report (External Examination)

Components of Internal Evaluation of Project	Weight
Relevance of the Topic	3
Project Presentation	7
Project Viva	5
Total	15

6.3.3. Comprehensive Viva

Questions for the viva should be covered the courses from 1st semester to 4th Semesters for internal and External

components of compressive viva	Weight
Internal viva	5
External Viva	15
Total	15

6.3.4. Assignments (1 weight)

- Assignments are to be done from 1st to 4th Semesters for each course
- At least one assignment should be done in each semester for all courses.

6.3.5. Seminar/Viva (2 Weight)

- A seminar in each semester for each course
- A Viva-voce in the 6th semester for each course.

6.3.6. Test Papers (1 weight each)

- Two test papers are to be conducted in each semester for each course.

CURRICULUM FRAME WORK OF

M. A Malayalam

7. Pattern of questions Papers (External Theory Examinations)

7. 1. Without practical

Sl. No.	Pattern	Weight	Choice of questions	Total weight
1	Short Answer	1	8/10	8
2	Short essay/problem	2	6/8	12
3	Essay/problem	5	2/4	10
TOTAL				30

8. PERFORMANCE GRADING:

All papers (theory & practical), grades are given on a 7-point scale based on the total percentage of marks, (CE + CSE) as given below:-

GPA	Grade
Range Grade Indicator	Range Grade Indicator
4.50 to 5.00 A+ Outstanding	4.50 to 5.00 A+ Outstanding
4.00 to 4.49 A Excellent	4.00 to 4.49 A Excellent
3.50 to 3.99 B+ Very good	3.50 to 3.99 B+ Very good
3.00 to 3.49 B Good(Average)	3.00 to 3.49 B Good(Average)
2.50 to 2.99 C+ Fair	2.50 to 2.99 C+ Fair
2.00 to 2.49 C Marginal(pass)	2.00 to 2.49 C Marginal(pass)
up to 1.99 D Deficient(Fail)	up to 1.99 D Deficient(Fail)

CURRICULUM FRAME WORK OF

M. A Malayalam

Detailed Scheme of the Programme

M. A Malayalam

(Model I)

CURRICULUM FRAME WORK OF

M. A Malayalam

Semester 1

1.1. ML010101 കവിത പ്രാചീനം മധ്യകാലം

1.1.1CORRELATION BETWEEN CO and PO

(3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	1	-	2	-	-	-	2	1	-	-
CO 2	1	-	3	-	3	-	3	2	-	-
CO 3	1	-	1	-	3	-	1	-	-	-
CO 4	-	-	-	-	3	-	2	2	-	-
CO 5	2	-	3	-	1	-	3	1	-	-
CO	1.25	-	2.25	-	2.5	-	2.2	1.5	-	-

3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

1.1.2CORRELATION BETWEEN CO and PSO

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO 1	3	2	1	2	2	1
CO 2	2	3	1	3	2	1
CO 3	2	3	1	3	2	2
CO 4	2	2	1	3	2	2
CO 5	2	1	2	2	2	1
CO	2.2	2.2	1.2	2.6	2	1.4

1.2. ML010102 മലയാള ഭാഷചരിത്രവുംവർത്തമാനവും

1.2.1CORRELATION BETWEEN CO and PO

(3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	1	-	-	-	3	-	-	-	-	-
CO 2	2	-	-	-	-	-	-	-	-	2
CO 3	-	2	-	-	-	-	-	-	-	-
CO 4	-	-	-	-	-	-	-	2	2	-
CO	1.5	2	-	-	3	-	-	2	2	2

CURRICULUM FRAME WORK OF

M. A Malayalam

1.2.2 CORRELATION BETWEEN CO and PSO

3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO 1	1	2	-	-	-	
CO 2	2	2	1	3	-	2
CO 3	1	-	-	-	2	2
CO 4	1	-	2	-	-	-
CO	1.25	2	1.5	3	2	2

1.3. ML010103 മലയാള ചെറുകഥ

1.3.1 CORRELATION BETWEEN CO and PO

(3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	3	-	2	-	-	-	1	-	-	-
CO 2	2	-	3	-	-	-	2	-	-	-
CO 3	1	-	-	-	-	-	-	3	2	-
CO 4	3	-	3	-	1	-	2	2	-	-
CO	2.25	-	2.7	-	1	-	1.7	2.5	2	-

1.3.2. CORRELATION BETWEEN CO and PSO

3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO 1	2	-	-	-	-	-
CO 2	-	-	-	-	3	2
CO 3	-	-	-	-	-	3
CO 4	-	3	2	-	-	-
CO	2	3	2	-	3	2.5

1.4. ML010104 സാഹിത്യ ചെറുതരങ്ങൾ

1.4.1. CORRELATION BETWEEN CO and PO

CURRICULUM FRAME WORK OF

M. A Malayalam

(3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	2	2	-	-	-	-	-	-	-	-
CO 2	1	3	-	-	-	-	-	-	-	-
CO 3	1	2	2	-	-	-	-	-	-	-
CO 4	-	-	-	-	2	-	-	-	2	-
CO	1.3	2.3	2	-	2	-	-	-	2	-

1.4.2. CORRELATION BETWEEN CO and PSO

(3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO 1	-	-	1	-	-	-
CO 2	-	-	-	-	1	-
CO 3	-	-	1	-	-	-
CO 4	1	-	-	-	-	-
CO	1	-	1	-	1	-

1.5. ML010105 സംസ്കൃതം : ഭാഷയും സാഹിത്യവും

1.5.1. CORRELATION BETWEEN CO and PO

(3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	1	3	-	-	-	-	-	-	1	-
CO 2	1	-	-	-	2	-	-	-	-	-
CO 3	2	-	-	-	-	-	2	-	-	-
CO 4	2	-	1	-	2	-	2	-	1	-
CO	1.5	-	1	-	2	-	2	-	1	-

1.5.2. CORRELATION BETWEEN CO and PSO

(3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO 1	-	2	-	1	-	1
CO 2	-	2	-	-	1	-
CO 3	-	1	-	-	-	-
CO 4	-	-	2	-	-	2
CO	-	1.7	2	1	1	1.5

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Semester 2

2/1. ML010201 ആധുനിക മലയാള കവിത ഒന്നാം ഘട്ടം

2.1.1 CORRELATION BETWEEN CO and PO

3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	1	-	-	-	-	-	1	-	-	-
CO 2	1	-	1	-	1	-	-	1	-	-
CO 3	1	-	1	-	1	-	2	3	-	-
CO 4	1	-	2	-	3	-	2	1	-	-
CO 5	2	-	3	-	1	-	3	1	-	-
CO	1.2	-	1.75	-	1.5	-	2	1.5	-	-

2.1.2 CORRELATION BETWEEN CO and PSO

3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO 1	2	2	-	1	-	-
CO 2	1	1	3	1	4	2
CO 3	2	1	-	1	2	2
CO 4	2	2	1	2	2	1
CO 5	3	2	1	2	2	1
CO	2	1.6	1.7	1.4	2.5	1.5

2.2. ML010202 ഭാഷശാസ്ത്രം

2.2.1. CORRELATION BETWEEN CO and PO

3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	1	-	-	-	2	-	-	-	-	-
CO 2	-	2	-	-	2	-	-	-	-	-
CO 3	3	2	-	-	-	-	-	-	-	-
CO 4	-	-	-	-	-	-	-	2	2	-
CO	2	2	-	-	2	-	-	2	2	-

2.2.2 CORRELATION BETWEEN CO and PSO

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3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO 1	1	1	-	3	-	2
CO 2	1	3	-	-	-	-
CO 3	-	2	-	-	-	2
CO 4	1	-	2	-	-	-
CO	1	2	2	3	-	2

2.3. ML010203 കേരളസംസ്കാരം

2.3.1CORRELATION BETWEEN CO and PO

(3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	3	-	1	-	-	-	3	2	-	-
CO 2	2	-	3	-	-	-	1	2	-	-
CO 3	2	3	-	-	-	-	-	2	-	-
CO 4	2	-	-	-	-	-	2	1	-	-
CO	2.25	3	2	-	-	-	2	1.75	-	-

2.3.2CORRELATION BETWEEN CO and PSO

3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO 1	3	-	-	-	1	-
CO 2	1	-	-	-	3	-
CO 3	2	-	-	-	2	-
CO 4	1	-	-	-	-	-
CO	1.75	-	-	-	2	-

2/4 . ML010204 മലയാള നോവൽ

2.4.1. CORRELATION BETWEEN CO and PO

(3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	2	-	-	-	1	-	-	-	-	-
CO 2	1	-	-	-	-	-	2	1	-	-

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CO 3	1	-	2	-	-	-	-	-	-	-
CO 4	-	-	2	-	2	-	2	1	-	-
CO	1.3	-	2	-	1.5	-	2	1	-	-

2.4.2. CORRELATION BETWEEN CO and PSO

3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO 1	2	-	-	-	-	2
CO 2	-	-	-	-	2	2
CO 3	2	-	1	-	-	2
CO 4	1	-	-	-	2	2
CO	1.7	-	1	-	2	2

2/5 . ML010205ഭാരതീയ സാഹിത്യ സിദ്ധാന്തങ്ങൾ

2.5.1. CORRELATION BETWEEN CO and PO

(3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	2	-	-	-	-	-	-	-	-	-
CO 2	-	1	2	-	1	1	-	-	-	-
CO 3	2	1	-	-	-	-	-	-	-	-
CO 4	-	3	3	-	-	-	-	-	-	-
CO 5	-	-	-	-	-	-	-	2	3	-
CO	2	1.6	2.5	-	1	1	-	2	3	-

2.5.2. CORRELATION BETWEEN CO and PSO

3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO 1	-	-	-	-	-	-
CO 2	1	-	1	-		
CO 3	-	-	-	-	1	-
CO 4	-	-	-	-	-	-
CO 5	-	-	-	-	-	1
CO	1	-	1	-	1	1

CURRICULUM FRAME WORK OF

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Semester 3

3/1. ML010301 ആധുനിക മലയാള കവിത - രാമചന്ദ്രൻ

3.1.1. CORRELATION BETWEEN CO and PO

(3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	1	-	-	-	-	-	1	-	-	-
CO 2	1	-	1	-	1	-	-	1	-	-
CO 3	1	-	1	-	1	-	2	3	-	-
CO 4	1	-	2	-	3	-	2	1	-	-
CO 5	2	-	3	-	1	-	3	1	-	-
CO	1.2	-	1.75	-	1.25	-	2	1.25	-	-

3.1.2. CORRELATION BETWEEN CO and PSO

3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO 1	2	2	-	1	-	-
CO 2	1	1	3	1	4	2
CO 3	2	1	-	1	2	2
CO 4	2	2	1	2	2	1
CO 5	3	2	1	2	2	1
CO	5	1.6	1.6	1.4	2.5	1.5

3/2. ML010302 മലയാള ഭാഷ വ്യാകരണം

3.2.1. CORRELATION BETWEEN CO and PO

(3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	3	-	-	-	-	-	2	-	2	-
CO 2	2	-	-	-	-	1	-	-	-	-
CO 3	-	-	3	-	-	-	2	-	1	-
CO 4	1	-	-	-	-	2	-	1	-	-
CO	2	-	1	-	-	1.5	2	1	1.5	-

CURRICULUM FRAME WORK OF

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3.2.2. CORRELATION BETWEEN CO and PSO

3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO 1	2	2	-	1	-	-
CO 2	2	2	-	1	-	-
CO 3	-	-	-	-	2	2
CO 4	1	-	-	-	2	2
CO	1.6	2	-	1	2	2

3/3. ML010303 മലയാള നിരൂപണം

3.3.1. CORRELATION BETWEEN CO and PO

(3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	3	1	2	-	-	-	-	-	-	-
CO 2	1	2	2	-	-	-	-	-	-	-
CO 3	1	-	2	-	2	-	-	-	-	-
CO 4	2	2	2	-	-	-	-	-	1	-
CO	1.75	1.6	2	-	2	-	-	-	1	-

3.3.2. CORRELATION BETWEEN CO and PSO

3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO 1	2	-	-	-	-	-
CO 2	-	-	-	-	-	1
CO 3	-	1	-	-	1	-
CO 4	-	-	-	-	-	-
CO	2	1	-	-	1	1

3/4. ML010304 ദൃശ്യകലാ സാഹിത്യം

3.4.1. CORRELATION BETWEEN CO and PO

(3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10

CURRICULUM FRAME WORK OF

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CO 1	3	-	2	-	-	-	2	1	-	-
CO 2	2	-	3	-	-	-	2	1	-	-
CO 3	1	-	2	-	-	-	1	3	-	-
CO 4	1	-	2	-	-	-	-	-	3	-
CO	1.75	-	2.25	-	-	-	1.6	1.6	3	-

3.4.2. CORRELATION BETWEEN CO and PSO

3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO 1	2	-	-	-	1	1
CO 2	2	1	-	-	3	-
CO 3	2	-	-	-	1	1
CO 4	-	-	-	-	-	-
CO	2	1	-	-	1.6	1

3/5. ML010305 പാശ്ചാത്യ സാഹിത്യ ദർശനം

3.5.1. CORRELATION BETWEEN CO and PO

(3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	2	-	-	-	1	-	-	-	-	-
CO 2	-	3	-	-	-	-	-	-	1	-
CO 3	-	-	-	-	-	-	-	3	-	-
CO 4	-	-	-	-	-	-	2	-	-	-
CO	2	3	-	-	1	-	2	3	1	-

3.5.2.CORRELATION BETWEEN CO and PSO

3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO 1	2	-	-	-	2	-
CO 2	-	-	-	-	2	-
CO 3	-	-	-	-	2	-
CO 4	-	-	-	-	2	2
CO	2	-	-	-	2	2

Semester 4

1.1. ML010401നാടകവുംസിനിമയും

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4.1.1. CORRELATION BETWEEN CO and PO

(3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	1	-	1	-	1	-	2	3	-	-
CO 2	1	-	1	-	3	1	1	1	-	-
CO 3	-	-	-	-	1	-	1	3	-	-
CO 4	1	-	3	-	-	-	3	-	1	-
CO 5	2	-	1	-	-	-	2	-	-	-
CO	1.25	-	1.5	-	1.6	1	3	2.3	1	-

4.1.2. CORRELATION BETWEEN CO and PSO

3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO 1	2	1	2	1	1	1
CO 2	2	2	1	2	-	-
CO 3	-	-	-	1	1	2
CO 4	2	2	2	2	3	2
CO 5	2	1	1	-	1	2
CO	2	1.5	1.5	1.5	1.5	1.75

3.2. ML010402 മലയാളസാഹിത്യചരിത്ര വിജ്ഞാനീയം ഗവേഷണ ത്തിന്റെ രീതിശാസ്ത്രം

4.2.1. CORRELATION BETWEEN CO and PO

(3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	3	-	1	-	1	-	-	-	2	-
CO 2	2	-	-	-	2	-	-	1	1	-
CO 3	1	-	2	-	-	-	2	-	1	-
CO 4	-	-	3	-	-	2	1	-	-	-
CO	2	-	2	-	-	1.5	1	1	1	-

4.2.2. CORRELATION BETWEEN CO and PSO

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3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO 1	2	-	-	-	2	1
CO 2	1	-	-	-	2	2
CO 3	-	-	-	-	3	3
CO 4	1	-	-	-	2	2
CO	1.3.	-	-	-	2.25	2

4/3. ML010403 വിവർത്തന സാഹിത്യം

4.3.1. CORRELATION BETWEEN CO and PO

(3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	3	-	-	-	-	-	1	-	-	-
CO 2	-	3	2	-	-	-	-	-	-	-
CO 3	-	2	-	-	-	-	-	-	-	-
CO 4	-	-	-	-	-	-	-	-	-	-
CO	3	2.5	2	-	-	-	1	-	-	-

4.3.2. CORRELATION BETWEEN CO and PSO

3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO 1	-	-	-	-	-	2
CO 2	1	-	-	-	-	1
CO 3	-	-	-	-	-	2
CO 4	1	-	-	-	-	1
CO	1	-	-	-	-	1.5

3.4. ML010404 മലയാള ഭാഷ - സ്ത്രീ - പരിസ്ഥിതി സാഹിത്യ വിചാരം

4.4.1. CORRELATION BETWEEN CO and PO

(3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	3	2	-	-	-	-	2	1	-	-

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CO 2	3	-	-	-	-	-	2	2	-	-
CO 3	-	-	2	-	-	-	3	3	-	-
CO 4	2	2	-	-	-	-	1	3	-	-
CO	2.6	2	2	-	-	-	2	2.25	-	-

4.4.2. CORRELATION BETWEEN CO and PSO

3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO 1	2	-	-	-	2	3
CO 2	3	-	-	-	1	2
CO 3	-	-	1	2	-	-
CO 4	2	-	-	-	2	2
CO	2.3	-	1	2	1.6	2.3

3.5. ML010405 സൈബർസംസ്കാരവുംസാഹിത്യവും

4.5.1. CORRELATION BETWEEN CO and PO

(3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	2	-	2	-	1	-	-	-	-	-
CO 2	-	2	2	3	1	-	-	-	2	-
CO 3	1	2	1	2	-	-	-	-	-	-
CO 4	1	2	3	-	-	-	-	-	-	-
CO 5	-	-	3	-	-	1	-	-	-	-
CO	1.3	2	2.2	2.5	1	1	-	-	2	-

4.5.2. CORRELATION BETWEEN CO and PSO

3-HIGH MAPPING,2-MEDIUM MAPPING,1-LOW MAPPING,- -NO MAPPING):

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO 1	-	-	-	-	-	1
CO 2	-	-	-	-	-	1
CO 3	-	-	1	-	-	-
CO 4	-	1	-	-	-	-
CO 5	-	-	-	1	-	-
CO	-	1	1	1	-	1

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Curriculum Framework



Table of Contents

1	perspective and methodology of economics	1
1.1	Course Overview	1
1.2	Curriculum Structure	2
1.3	Evaluation Methods	2
1.4	Course Outcome	2
1.5	CO – PO Mapping	3
1.6	CO – PSO Mapping	3
2	Micro Economic analysis 1	4
2.1	Course Overview	4
2.2	Curriculum Structure	5
2.3	Evaluation Methods	5
2.4	Course Outcome	6
2.5	CO – PO Mapping	6
2.6	CO – PSO Mapping	6
3	Micro Economic analysis 2	7
3.1	Course Overview	7
3.2	Curriculum Structure	8
3.3	Evaluation Methods	8

3.4	Course Outcome	8
3.5	CO – PO Mapping	9
3.6	CO – PSO Mapping	9
4	Economics of Growth and Development	10
4.1	Course Overview	10
4.2	Curriculum Structure	11
4.3	Evaluation Methods	11
4.4	Course Outcome	12
4.5	CO – PO Mapping	12
4.6	CO – PSO Mapping	12
5	An Introduction to Political science	13
5.1	Course Overview	13
5.2	Curriculum Structure	14
5.3	Evaluation Methods	14
5.4	Course Outcome	14
5.5	CO – PO Mapping	15
5.6	CO – PSO Mapping	15
6	MacroEconomics	16
6.1	Course Overview	16
6.2	Curriculum Structure	17
6.3	Evaluation Methods	17
6.4	Course Outcome	17
6.5	CO – PO Mapping	18
6.6	CO – PSO Mapping	18
7	Public economics	19
7.1	Course Overview	19
7.2	Curriculum Structure	20

7.3	Evaluation Methods	20
7.4	Course Outcome	20
7.5	CO – PO Mapping	21
7.6	CO – PSO Mapping	21
8	Indian Constitution	22
8.1	Course Overview	22
8.2	Curriculum Structure	23
8.3	Evaluation Methods	23
8.4	Course Outcome	23
8.5	CO – PO Mapping	24
8.6	CO – PSO Mapping	24
9	Quantitative Techniques	25
9.1	Course Overview	25
9.2	Curriculum Structure	26
9.3	Evaluation Methods	26
9.4	Course Outcome	26
9.5	CO – PO Mapping	27
9.6	CO – PSO Mapping	27
10	Macro Economics 2	28
10.1	Course Overview	28
10.2	Curriculum Structure	29
10.3	Evaluation Methods	29
10.4	Course Outcome	30
10.5	CO – PO Mapping	30
10.6	CO – PSO Mapping	30
11	Environmental Economics	31
11.1	Course Overview	31

11.2 Curriculum Structure	32
11.3 Evaluation Methods	32
11.4 Course Outcome	33
11.5 CO – PO Mapping	33
11.6 CO – PSO Mapping	34
12 Introductory Econometrics	35
12.1 Course Overview	35
12.2 Curriculum Structure	36
12.3 Evaluation Methods	36
12.4 Course Outcome	37
12.5 CO – PO Mapping	37
12.6 CO – PSO Mapping	38
13 Quantitative Methods	39
13.1 Course Overview	39
13.2 Curriculum Structure	40
13.3 Evaluation Methods	40
13.4 Course Outcome	41
13.5 CO – PO Mapping	41
13.6 CO – PSO Mapping	42
14 International Economics	43
14.1 Course Overview	43
14.2 Curriculum Structure	44
14.3 Evaluation Methods	44
14.4 Course Outcome	45
14.5 CO – PO Mapping	45
14.6 CO – PSO Mapping	46

15 Money and Financial Market	47
15.1 Course Overview	47
15.2 Curriculum Structure	48
15.3 Evaluation Methods	48
15.4 Course Outcome	49
15.5 CO – PO Mapping	49
15.6 CO – PSO Mapping	50
16 Indian Economy	51
16.1 Course Overview	51
16.2 Curriculum Structure	52
16.3 Evaluation Methods	52
16.4 Course Outcome	53
16.5 CO – PO Mapping	53
16.6 CO – PSO Mapping	54
17 Business Economics	55
17.1 Course Overview	55
17.2 Curriculum Structure	56
17.3 Evaluation Methods	56
17.4 Course Outcome	57
17.5 CO – PO Mapping	57
17.6 CO – PSO Mapping	58
18 Fundamentals of Economics	59
18.1 Course Overview	59
18.2 Curriculum Structure	60
18.3 Evaluation Methods	60
18.4 Course Outcome	60
18.5 CO – PO Mapping	61



perspective and methodology of economics**1.1 Course Overview**

1	Course	Core
2	Course Type	Theory
3	Course Code	EC1CRT01
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	108
9	Hours per Week	25
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

1.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	methodology of social science	Chalk and talk, ICT	30
2	concepts of economics	Chalk and talk	27
3	schools of economic thought	Chalk and talk	30
4	research methodology	Chalk and talk	0

1.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

1.4 Course Outcome

CO-1	Students will become aware about broad concepts of social science
CO-2	Students will get information about basic concepts, methodologies and tool of economics
CO-3	Students become enthusiastic about different schools of economic thoughts
CO-4	Student will be able to understand the basic of research work and its methodologies

1.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	0	0	0	0	0	0	0	0	0
CO-2	2	0	0	0	0	0	0	2	0	0
CO-3	2	0	0	0	0	0	0	0	0	0
CO-4	0	0	3	0	0	0	0	0	0	0

1.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	2	2	0	0	0	0	0
CO-2	2	0	0	0	0	0	0
CO-3	2	0	0	0	0	0	0
CO-4	0	0	0	0	0	0	2

Micro Economic analysis 1**2.1 Course Overview**

1	Course	Core
2	Course Type	Theory
3	Course Code	EC2CRT02
4	Credit	5
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	108
9	Hours per Week	15
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

2.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	introduction to micro economics	Chalk and talk	23
2	demand and supply analysis	Chalk and talk	35
3	theory of consumer behaviour	Chalk and talk	35
4	theories of production	Chalk and talk	0

2.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

2.4 Course Outcome

CO-1	Students will be able to understand introductory micro economic theory
CO-2	Students are helped out to solve basic micro economic problems
CO-3	Students should be able to use micro economic techniques to think about a number of policy questions related to the operations of real economy
CO-4	Students will get information about firms and consumer behavior in real economy

2.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	0	0	0	0	0	0	0	0	0
CO-2	2	0	0	3	0	0	0	0	0	0
CO-3	0	0	0	1	0	0	0	0	0	0
CO-4	1	0	0	0	0	0	0	0	0	0

2.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	3	2	0	2	0	0	0
CO-2	3	0	0	0	0	0	0
CO-3	3	0	0	0	0	0	0
CO-4	3	0	0	0	0	0	0

Micro Economic analysis 2**3.1 Course Overview**

1	Course	Core
2	Course Type	Theory
3	Course Code	EC3CRT03
4	Credit	5
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	72
9	Hours per Week	17
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

3.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	market structure	Chalk and talk, ICT	20
2	monopolistic competition	Chalk and talk ,ICT	20
3	income distribution	Chalk and talk	15
4	welfare economics	Chalk and talk	0

3.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

3.4 Course Outcome

CO-1	Students will be able to understand the market structures of perfect competition and monopoly
CO-2	Student should be able to analysis and understand imperfect markets comprising of
CO-3	Through this module students will get information about theories of factor pricing and income distribution
CO-4	Through this module the basic concept of welfare economics are known to students

3.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	0	2	0	0	0	0	0	0	0
CO-2	2	0	2	0	0	0	0	0	0	0
CO-3	2	0	2	0	0	0	0	0	0	0
CO-4	2	0	2	0	0	0	0	0	0	0

3.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	2	0	2	0	0	0	0
CO-2	2	0	2	0	0	0	0
CO-3	0	0	2	0	0	0	0
CO-4	2	0	0	0	0	0	0

Economics of Growth and Development**4.1 Course Overview**

1	Course	Core
2	Course Type	Theory
3	Course Code	EC3CRT04
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	22
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 ($2 \times 5 = 10$)

4.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	introduction to growth and development	Chalk and talk, ICT	23
2	approches to development	Chalk and talk, ICT	20
3	theories of development	Chalk and talk, ICT	25
4	human resource	ICT	0

4.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

4.4 Course Outcome

CO-1	Students acquired with the basic concepts and issues of growth and development
CO-2	Students will get the idea about the modern approach to economic development
CO-3	Students should be able to information about the human development indicators and their role in designing development programs
CO-4	Students should be able to get awareness about national income

4.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	0	0	0	0	0	0	0	0	0
CO-2	2	0	1	0	0	0	0	0	0	0
CO-3	2	0	0	0	0	0	0	0	0	0
CO-4	2	0	0	2	0	0	0	0	0	0

4.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	2	2	0	0	0	0	0
CO-2	0	0	2	0	0	0	0
CO-3	0	0	2	0	0	0	0
CO-4	2	0	0	0	0	0	0

An Introduction to Political science

5.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	PSMCMT01
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	20
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

5.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	introduction	Chalk and talk	30
2	concepts of political science	Chalk and talk	20
3	political ideologies	Chalk and talk	20
4	democrasy	chalk and talk	0

5.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

5.4 Course Outcome

CO-1	The course indicates awareness about the principles of political science
CO-2	To familiarizes with major political ideologies and related theories
CO-3	To get a general idea about the Indian constitutional concepts
CO-4	Students are able to handle various political situations

5.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	0	0	0	0	0	0	0	0	0
CO-2	2	0	0	0	0	0	0	0	0	0
CO-3	2	0	0	0	0	0	0	0	0	0
CO-4	2	0	0	2	0	0	0	0	2	0

5.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	2	0	0	0	0	0	0
CO-2	2	0	2	0	0	0	0
CO-3	2	0	0	0	0	0	0
CO-4	2	0	0	0	0	0	0

Macroeconomics

6.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	EC4CRT05
4	Credit	5
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	20
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

6.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	introduction to macroeconomics	Chalk and talk	25
2	classical macroeconomics	Chalk and talk	20
3	keynesian economics	Chalk and talk	25
4	orthodox keynesian model	chalk and talk	0

6.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

6.4 Course Outcome

CO-1	Student should be able to get well founded education in macro economics
CO-2	Student should be able to get better understanding classical thoughts on economics
CO-3	Student should be able to make comparison of different schools of thoughts in economics
CO-4	Student should be able to get better understanding of investments, multipliers, effect of taxes etc

6.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	0	0	0	0	0	0	0	0
CO-2	3	0	0	0	0	0	0	0	0	0
CO-3	3	0	0	0	0	0	0	0	0	0
CO-4	3	0	0	0	0	0	0	2	0	0

6.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	2	0	0	0	0	0	0
CO-2	2	0	2	0	0	0	0
CO-3	0	0	2	0	0	0	0
CO-4	0	0	2	0	0	0	0

Public economics**7.1 Course Overview**

1	Course	Core
2	Course Type	Theory
3	Course Code	EC4CRT06
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	72
9	Hours per Week	14
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

7.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	introduction to public finance	Chalk and talk	22
2	public revenue	Chalk and talk	18
3	public expenditure	Chalk and talk	18
4	federal finance	chalk and talk	0

7.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

7.4 Course Outcome

CO-1	Know about budget and fiscal policies
CO-2	To analysis various issues between centre and state government
CO-3	The students shall be aware about of the recent trends in taxation and budgetary policy
CO-4	Familiarizes the students with the various aspects of the theory of public finance

7.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	0	0	0	0	0	0	0	0	0
CO-2	0	2	0	2	0	0	0	0	2	0
CO-3	0	0	0	0	0	0	0	0	0	0
CO-4	0	0	0	0	0	0	0	0	0	0

7.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	0	0	0	2	0	0	0
CO-2	2	2	2	0	0	0	0
CO-3	1	0	0	0	0	0	0
CO-4	1	0	0	0	0	0	0

Indian Constitution

8.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	PS4CMT05
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	25
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

8.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	constituent assembly	Chalk and talk	20
2	indian federalism	Chalk and talk, ICT	25
3	union government	Chalk and talk, ICT	20
4	challenges to indian political system	Chalk and talk, ICT	0

8.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

8.4 Course Outcome

CO-1	Get a general idea about the Indian constitution
CO-2	Students will get government mechanisms, its functions, duties and responsibilities
CO-3	Students will get major political ideologies and related theories
CO-4	Students will get aware about the principles of political science

8.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	0	0	0	0	0	0	0	0
CO-2	0	2	0	0	0	0	0	0	2	0
CO-3	0	0	0	0	2	0	0	2	0	0
CO-4	0	0	0	0	0	0	3	0	2	0

8.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	2	0	0	0	0	0	0
CO-2	0	2	2	0	0	0	0
CO-3	0	0	0	0	0	0	0
CO-4	0	0	0	0	2	0	0

Quantitative Techniques

9.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	EC5CRT07
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	108
9	Hours per Week	28
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

9.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	basic concepts	Chalk and talk, ICT	20
2	calculs	Chalk and talk, ICT	30
3	set theory	Chalk and talk, ICT	30
4	probability	Chalk and talk, ICT	0

9.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

9.4 Course Outcome

CO-1	Students will become aware about broad concepts of quantitative techniques
CO-2	Students will get information about how to apply mathematical techniques in Economic theories, statistics and Econometrics.
CO-3	Students become enthusiastic about different quantitative techniques applied in Economics
CO-4	Student will be able to develop creative thinking in Business and Economic activities in the society.

9.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	0	0	0	0	0	0	0	0	0
CO-2	2	0	0	0	0	0	0	0	0	0
CO-3	0	0	0	2	0	0	0	0	0	0
CO-4	0	0	0	0	0	0	0	0	0	0

9.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	2	0	0	0	0	0	0
CO-2	2	0	2	0	0	0	0
CO-3	0	2	2	0	0	0	0
CO-4	0	0	2	2	0	0	0

Macro Economics 2**10.1 Course Overview**

1	Course	Core
2	Course Type	Theory
3	Course Code	EC5CRT08
4	Credit	5
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	108
9	Hours per Week	25
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

10.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	theories of consumption	Chalk and talk	38
2	money inflation and unemployment	Chalk and talk	20
3	fiscal policies	Chalk and talk	25
4	post keynesian schools	Chalk and Talk	0

10.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

10.4 Course Outcome

CO-1	Students will be able to understand introductory macro economic theory
CO-2	Students are helped out to solve basic macro economic problems
CO-3	Students should be able to use macroeconomic techniques to think about a number of policy questions related to the operations of real economy
CO-4	Students will be able to integrate theoretical knowledge to evaluate policy measures

10.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	0	0	0	0	0	0	0	0
CO-2	3	0	0	2	0	0	0	0	0	0
CO-3	0	0	0	3	0	0	0	0	0	0
CO-4	0	0	0	0	0	0	2	0	2	0

10.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	2	2	0	0	0	0	0
CO-2	0	0	2	0	0	0	0
CO-3	0	0	0	2	0	0	0
CO-4	2	0	0	0	0	0	0

Environmental Economics

11.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	EC5CRT09
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	20
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

11.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	resource and energy	Chalk and talk	25
2	economics and environment	Chalk and talk, ICT	10
3	social issues	Chalk and talk, ICT	13
4	environment and development	chalk and talk	22
5	Human Rights- - Human Rights and United Nations- Human Rights National Perspective	Chalk and talk, ICT	0

11.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

11.4 Course Outcome

CO-1	Through this module students were able to understand the basic concepts of environmental studies.
CO-2	Students will be able to understand and analyses the linkages between environment and economy
CO-3	Students become aware Of the threats affecting the environment and the methods to analyses and solve environmental threats.
CO-4	Students become able to evaluate some current environmental policies
CO-5	students will get information about environmental issues

11.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	1	0	0	0	0	0	0	0	0
CO-2	3	2	0	0	0	0	0	0	0	0
CO-3	0	0	0	2	0	0	0	0	2	0
CO-4	0	0	0	2	0	0	0	0	0	0
CO-5	1	0	0	0	0	0	0	0	0	0

11.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	2	0	0	0	0	0	0
CO-2	0	0	2	0	0	0	0
CO-3	2	0	0	0	0	0	0
CO-4	0	0	0	2	0	0	0
CO-5	1	0	0	0	0	0	0

Introductory Econometrics

12.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	EC5CRT10
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	20
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

12.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	regression	Chalk and talk	15
2	PRF	Chalk and talk	15
3	SRF	Chalk and talk	15
4	testing of hypothesis	chalk and talk	25
5	hetroscedasticity	Chalk and talk, ICT	0

12.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

12.4 Course Outcome

CO-1	Students acquired with the basic concepts of econometrics.
CO-2	Students will get the idea about the econometric techniques and its use.
CO-3	Students should be able to apply econometric methods in different economic scenario
CO-4	Students should be able to awareness about the use of sample statistics to estimate the population parameters.
CO-5	students get informations about regression

12.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	0	2	0	0	0	0	0	0
CO-2	3	0	0	0	0	0	0	0	0	0
CO-3	0	0	0	3	0	0	0	0	0	0
CO-4	0	0	0	2	0	0	0	0	0	0
CO-5	1	0	0	0	0	0	2	0	0	0

12.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	2	2	0	0	0	0	0
CO-2	2	0	2	2	0	0	0
CO-3	0	0	0	0	0	0	0
CO-4	0	0	2	2	0	0	0
CO-5	1	0	0	0	0	0	0

Quantitative Methods

13.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	EC6CRT11
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	108
9	Hours per Week	28
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 ($2 \times 5 = 10$)

13.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	introduction	Chalk and talk	25
2	central tendency	Chalk and talk	25
3	correlation	Chalk and talk	30
4	index numbers	chalk and talk	0

13.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

13.4 Course Outcome

CO-1	Familiarize the students with the various aspects of statistical tools in Economics
CO-2	Collect appropriate data needed, manipulate and draw inferences, describe the concept of statistical averages, use and apply central tendency, dispersion, skewness and kurtosis.
CO-3	Explain concept of correlation, analyse and interpret covariance and correlation coefficient, illustrate ordinary least squares and use it to estimate regression coefficient.
CO-4	Aware about the various concept of index numbers and its use.

13.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	0	0	0	0	0	0	0	0	0
CO-2	2	0	0	0	2	0	0	0	0	0
CO-3	2	0	0	3	0	0	0	0	0	0
CO-4	2	0	0	0	0	0	0	0	0	0

13.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	2	0	0	0	0	0	0
CO-2	2	0	2	0	0	0	0
CO-3	2	0	2	0	0	0	0
CO-4	2	0	0	0	0	0	0

International Economics

14.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	EC6CRT12
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	25
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

14.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	introduction to international trade	Chalk and talk	20
2	BOP	Chalk and talk	25
3	foreign exchange market	Chalk and talk	20
4	international trade system	chalk and talk	0

14.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

14.4 Course Outcome

CO-1	Identify the basic difference between inter-regional and international trade, understand how international trade has helped countries to acquire goods at cheaper cost And explain it through the various international trade theories.
CO-2	Show the importance of maintaining equilibrium in the BOP and suggests suitable measures to correct disequilibrium as well.
CO-3	Be aware of the changes in the composition as well as direction of foreign trade after international trade and know the causes and effects of deficits in the balance of payments, measures adopted to correct the deficits and identify the need for having trade reforms.
CO-4	Students are able to understand various international monetary and trade system.

14.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	0	0	0	0	0	0	0	0	0
CO-2	2	0	0	2	0	0	0	0	0	0
CO-3	2	0	0	0	0	0	0	0	0	0
CO-4	2	0	0	0	0	0	0	0	0	0

14.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	2	0	2	0	0	0	0
CO-2	2	0	2	0	0	0	0
CO-3	2	0	2	0	0	0	0
CO-4	2	0	0	0	0	0	0

Money and Financial Market

15.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	EC6CRT13
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	108
9	Hours per Week	13
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

15.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	financial system	Chalk and talk	25
2	money and central banking	chalk and talk	25
3	banking	chalk and talk	15
4	money market	chalk and talk	30
5	capital market	Chalk and talk, ICT	0

15.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

15.4 Course Outcome

CO-1	Explain the broad features of Indian financial markets with its apex banks objectives and purview .Also understand the instruments to control credit in the society.
CO-2	Identify the existence and development of non-banking financial institutions, know the important role of Mutual funds, LIC, investment companies etc., utilize and effectively participate in the development process.
CO-3	Effectively narrate the kinds and components of money with its regulatory system ,be aware of the functions ,objectives and limitations of commercial banks.
CO-4	Understand the conditions of financial markets and its impact in the economy.
CO-5	get informations about capital market

15.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	0	0	0	0	0	1	0	0	0
CO-2	2	0	0	0	0	0	0	0	0	0
CO-3	0	0	0	2	0	0	0	0	0	0
CO-4	0	0	0	0	0	0	0	0	0	0
CO-5	1	0	0	0	0	0	0	0	0	0

15.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	2	0	0	0	0	0	0
CO-2	2	0	2	0	0	0	0
CO-3	2	0	0	0	0	0	0
CO-4	2	0	0	0	0	0	0
CO-5	1	0	0	0	0	0	0

Indian Economy

16.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	EC6CRT14
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	25
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

16.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	economic development strategy	Chalk and talk	15
2	demographic features	chalk and talk	20
3	agriculture	chalk and talk	15
4	economic planning	chalk and talk	15
5	kerala economy	Chalk and talk, ICT	0

16.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

16.4 Course Outcome

CO-1	Develop ideas of the basic characteristics of Indian economy, its potential on natural resources.
CO-2	Understand the importance, causes and impact of population growth and its distribution, translate and relate them with economic development.
CO-3	Grasp the importance of planning undertaken by the government of India, have knowledge on the various objectives, failures and achievements as the foundation of the ongoing planning and economic reforms taken by the government.
CO-4	Understand agriculture as the foundation of economic growth and development; analyze the progress and changing nature of agricultural sector and its contribution to the economy as a whole.
CO-5	get overall view of indian economy

16.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	0	0	0	0	0	0	2	0	0
CO-2	2	0	0	0	0	0	1	0	0	0
CO-3	2	0	0	2	0	0	0	0	0	0
CO-4	2	0	0	0	0	0	0	0	0	0
CO-5	2	0	0	0	0	0	0	0	0	0

16.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	2	0	0	0	0	3	0
CO-2	2	0	0	0	0	0	0
CO-3	0	0	0	0	0	2	0
CO-4	0	0	0	0	0	3	0
CO-5	1	0	0	0	0	0	0

Business Economics**17.1 Course Overview**

1	Course	Core
2	Course Type	Theory
3	Course Code	EC6CBT02
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	72
9	Hours per Week	12
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

17.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	introduction to business economics	chalk and talk	15
2	demand analysis	chalk and talk	15
3	production analysis	chalk and talk	15
4	pricing and profits	chalk and talk	15
5	long term investment decisions	Chalk and talk, ICT	0

17.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

17.4 Course Outcome

CO-1	Through this module students were able to understand the basic concepts of business economics.
CO-2	Students will be able to understand and analyses the linkages between application of economic theory and the tools of decision science to examine how an organization can achieve its aims and objectives most efficiently
CO-3	Students become aware Of the current business problems faced by the economy and the methods to analyses and solve business threats.
CO-4	Students become able to understand how analytical tools of micro and macro economics are applied for solving many practical business problems.
CO-5	get informations about business theories

17.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	0	0	0	0	0	0	0	0	0
CO-2	2	0	0	2	0	0	0	2	0	0
CO-3	0	0	0	2	0	0	0	0	0	0
CO-4	2	0	0	0	0	0	0	0	0	0
CO-5	1	0	0	0	0	0	0	0	0	0

17.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	2	2	0	0	0	0	0
CO-2	0	0	3	0	0	0	0
CO-3	0	0	0	2	0	0	0
CO-4	0	0	0	2	0	0	0
CO-5	1	0	0	0	0	0	0

Fundamentals of Economics

18.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	EC5OPT01
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	72
9	Hours per Week	12
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

18.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	basic concepts	chalk and talk	16
2	public economics	Chalk and talk ,ICT	24
3	financial system	chalk and talk	20
4	indian economy	chalk and talk	0

18.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

18.4 Course Outcome

CO-1	Students will become aware about broad concepts of Economics.
CO-2	This course is designed to make the undergraduate students of other disciplines will be able to the basic ideas and concepts in Economics
CO-3	Students become enthusiastic about different economic concepts are applied in day to day activities.
CO-4	Student will be able to develop creative thinking in different tax systems in India.

18.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	0	0	0	0	0	0	0	0	0
CO-2	2	0	0	0	0	0	0	0	0	0
CO-3	0	0	0	2	0	0	0	0	0	0
CO-4	0	0	0	0	0	0	0	0	0	0

18.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	2	0	0	0	0	0	0
CO-2	2	0	2	0	0	0	0
CO-3	0	0	0	2	0	0	0
CO-4	0	0	0	0	0	2	0

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Curriculum Framework



Table of Contents

1 Perspectives abd Methodologies in Social Science	1
1.1 Course Overview	1
1.2 Curriculum Structure	2
1.3 Evaluation Methods	2
1.4 Course Outcome	2
1.5 CO – PO Mapping	3
1.6 CO – PSO Mapping	3
2 Environmental History	4
2.1 Course Overview	4
2.2 Curriculum Structure	5
2.3 Evaluation Methods	5
2.4 Course Outcome	6
2.5 CO – PO Mapping	6
2.6 CO – PSO Mapping	6
3 Understanding early India: From Hunting Gatherers to Land Grants	7
3.1 Course Overview	7
3.2 Curriculum Structure	8
3.3 Evaluation Methods	8

3.4	Course Outcome	9
3.5	CO – PO Mapping	9
3.6	CO – PSO Mapping	9
4	Demographic History Of India	10
4.1	Course Overview	10
4.2	Curriculum Structure	11
4.3	Evaluation Methods	11
4.4	Course Outcome	12
4.5	CO – PO Mapping	12
4.6	CO – PSO Mapping	13
5	Polity, Society and Economy in Pre Colonial India	14
5.1	Course Overview	14
5.2	Curriculum Structure	15
5.3	Evaluation Methods	15
5.4	Course Outcome	15
5.5	CO – PO Mapping	16
5.6	CO – PSO Mapping	16
6	Cultural Trends in Pre Colonial Kerala	17
6.1	Course Overview	17
6.2	Curriculum Structure	18
6.3	Evaluation Methods	18
6.4	Course Outcome	19
6.5	CO – PO Mapping	19
6.6	CO – PSO Mapping	19
7	History Of Indian Forestry	20
7.1	Course Overview	20
7.2	Curriculum Structure	21

7.3	Evaluation Methods	21
7.4	Course Outcome	22
7.5	CO – PO Mapping	22
7.6	CO – PSO Mapping	22
8	Making of Modern Kerala	23
8.1	Course Overview	23
8.2	Curriculum Structure	24
8.3	Evaluation Methods	24
8.4	Course Outcome	24
8.5	CO – PO Mapping	25
8.6	CO – PSO Mapping	25
9	Researching The Past	26
9.1	Course Overview	26
9.2	Curriculum Structure	27
9.3	Evaluation Methods	27
9.4	Course Outcome	27
9.5	CO – PO Mapping	28
9.6	CO – PSO Mapping	28
10	Colonialism and Indian Forest	29
10.1	Course Overview	29
10.2	Curriculum Structure	30
10.3	Evaluation Methods	30
10.4	Course Outcome	31
10.5	CO – PO Mapping	31
10.6	CO – PSO Mapping	31
11	Inheritance and Departures in Historiography	32
11.1	Course Overview	32

11.2 Curriculum Structure	33
11.3 Evaluation Methods	33
11.4 Course Outcome	33
11.5 CO – PO Mapping	34
11.6 CO – PSO Mapping	34
12 India: Nation in the Making	35
12.1 Course Overview	35
12.2 Curriculum Structure	36
12.3 Evaluation Methods	36
12.4 Course Outcome	36
12.5 CO – PO Mapping	37
12.6 CO – PSO Mapping	37
13 Environmental Studies and Human Rights in Historical Outline	38
13.1 Course Overview	38
13.2 Curriculum Structure	39
13.3 Evaluation Methods	39
13.4 Course Outcome	40
13.5 CO – PO Mapping	40
13.6 CO – PSO Mapping	41
14 Human Ecology	42
14.1 Course Overview	42
14.2 Curriculum Structure	43
14.3 Evaluation Methods	43
14.4 Course Outcome	44
14.5 CO – PO Mapping	44
14.6 CO – PSO Mapping	44

15 Introducing Environmental History	45
15.1 Course Overview	45
15.2 Curriculum Structure	46
15.3 Evaluation Methods	46
15.4 Course Outcome	47
15.5 CO – PO Mapping	47
15.6 CO – PSO Mapping	48
16 Making of Contemporary India	49
16.1 Course Overview	49
16.2 Curriculum Structure	50
16.3 Evaluation Methods	50
16.4 Course Outcome	50
16.5 CO – PO Mapping	51
16.6 CO – PSO Mapping	51
17 Understanding Modern Period	52
17.1 Course Overview	52
17.2 Curriculum Structure	53
17.3 Evaluation Methods	53
17.4 Course Outcome	53
17.5 CO – PO Mapping	54
17.6 CO – PSO Mapping	54
18 Capitalism and Colonialism	55
18.1 Course Overview	55
18.2 Curriculum Structure	56
18.3 Evaluation Methods	56
18.4 Course Outcome	57
18.5 CO – PO Mapping	57

18.6 CO – PSO Mapping	57
19 Wild Life Management	58
19.1 Course Overview	58
19.2 Curriculum Structure	59
19.3 Evaluation Methods	59
19.4 Course Outcome	60
19.5 CO – PO Mapping	60
19.6 CO – PSO Mapping	61
20 Archaeology in India	62
20.1 Course Overview	62
20.2 Curriculum Structure	63
20.3 Evaluation Methods	63
20.4 Course Outcome	64
20.5 CO – PO Mapping	64
20.6 CO – PSO Mapping	65
21 Social Formations in Pre Modern India	66
21.1 Course Overview	66
21.2 Curriculum Structure	67
21.3 Evaluation Methods	67
21.4 Course Outcome	67
21.5 CO – PO Mapping	68
21.6 CO – PSO Mapping	68
22 History of the Freedom Movement in India	69
22.1 Course Overview	69
22.2 Curriculum Structure	70
22.3 Evaluation Methods	70
22.4 Course Outcome	70

22.5 CO – PO Mapping	71
22.6 CO – PSO Mapping	71
23 Social Formations in Pre Modern India	72
23.1 Course Overview	72
23.2 Curriculum Structure	73
23.3 Evaluation Methods	73
23.4 Course Outcome	73
23.5 CO – PO Mapping	74
23.6 CO – PSO Mapping	74
24 Transition To Contemporary World	75
24.1 Course Overview	75
24.2 Curriculum Structure	76
24.3 Evaluation Methods	76
24.4 Course Outcome	77
24.5 CO – PO Mapping	77
24.6 CO – PSO Mapping	78
25 Perspectives on Historiography	79
25.1 Course Overview	79
25.2 Curriculum Structure	80
25.3 Evaluation Methods	80
25.4 Course Outcome	80
25.5 CO – PO Mapping	81
25.6 CO – PSO Mapping	81
26 Transition from Pre-State To State Societies in Indian History	82
26.1 Course Overview	82
26.2 Curriculum Structure	83
26.3 Evaluation Methods	83

26.4 Course Outcome	84
26.5 CO – PO Mapping	84
26.6 CO – PSO Mapping	84
27 History of Social Formations in Kerala Pre Historic To Pre Modern	85
27.1 Course Overview	85
27.2 Curriculum Structure	86
27.3 Evaluation Methods	86
27.4 Course Outcome	87
27.5 CO – PO Mapping	87
27.6 CO – PSO Mapping	87
28 Pre- Colonial Indian Economy Production Appropriation and Exchange	88
28.1 Course Overview	88
28.2 Curriculum Structure	89
28.3 Evaluation Methods	89
28.4 Course Outcome	90
28.5 CO – PO Mapping	90
28.6 CO – PSO Mapping	91
29 History of Social Revolutions in the World	92
29.1 Course Overview	92
29.2 Curriculum Structure	93
29.3 Evaluation Methods	93
29.4 Course Outcome	94
29.5 CO – PO Mapping	94
29.6 CO – PSO Mapping	95
30 History of Social Institution and Structures of Early India	96
30.1 Course Overview	96
30.2 Curriculum Structure	97

30.3 Evaluation Methods	97
30.4 Course Outcome	98
30.5 CO – PO Mapping	98
30.6 CO – PSO Mapping	98
31 Social Formation of Kerala AD. 1200-1800	99
31.1 Course Overview	99
31.2 Curriculum Structure	100
31.3 Evaluation Methods	100
31.4 Course Outcome	101
31.5 CO – PO Mapping	101
31.6 CO – PSO Mapping	101
32 Debates on Medieval India	102
32.1 Course Overview	102
32.2 Curriculum Structure	103
32.3 Evaluation Methods	103
32.4 Course Outcome	104
32.5 CO – PO Mapping	104
32.6 CO – PSO Mapping	105
33 Reflections on Women's History and Gender in Modern India	106
33.1 Course Overview	106
33.2 Curriculum Structure	107
33.3 Evaluation Methods	107
33.4 Course Outcome	108
33.5 CO – PO Mapping	108
33.6 CO – PSO Mapping	109
34 India the Making of a Colony	110
34.1 Course Overview	110

34.2 Curriculum Structure	111
34.3 Evaluation Methods	111
34.4 Course Outcome	112
34.5 CO – PO Mapping	112
34.6 CO – PSO Mapping	112
35 History and Social Theory	113
35.1 Course Overview	113
35.2 Curriculum Structure	114
35.3 Evaluation Methods	114
35.4 Course Outcome	115
35.5 CO – PO Mapping	115
35.6 CO – PSO Mapping	116
36 History of Modern Kerala	117
36.1 Course Overview	117
36.2 Curriculum Structure	118
36.3 Evaluation Methods	118
36.4 Course Outcome	119
36.5 CO – PO Mapping	119
36.6 CO – PSO Mapping	119
37 State and Society	120
37.1 Course Overview	120
37.2 Curriculum Structure	121
37.3 Evaluation Methods	121
37.4 Course Outcome	122
37.5 CO – PO Mapping	122
37.6 CO – PSO Mapping	122

38 Approaches to the Practice of History	123
38.1 Course Overview	123
38.2 Curriculum Structure	124
38.3 Evaluation Methods	124
38.4 Course Outcome	124
38.5 CO – PO Mapping	125
38.6 CO – PSO Mapping	125
39 Maritime History of India	126
39.1 Course Overview	126
39.2 Curriculum Structure	127
39.3 Evaluation Methods	127
39.4 Course Outcome	128
39.5 CO – PO Mapping	128
39.6 CO – PSO Mapping	128
40 History of Medicine and Health Systems in Modern India	129
40.1 Course Overview	129
40.2 Curriculum Structure	130
40.3 Evaluation Methods	130
40.4 Course Outcome	131
40.5 CO – PO Mapping	131
40.6 CO – PSO Mapping	132
41 Knowledge Systems in Pre Modern India	133
41.1 Course Overview	133
41.2 Curriculum Structure	134
41.3 Evaluation Methods	134
41.4 Course Outcome	135
41.5 CO – PO Mapping	135

41.6 CO – PSO Mapping	135
42 Perspectives on Human Rights in India	136
42.1 Course Overview	136
42.2 Curriculum Structure	137
42.3 Evaluation Methods	137
42.4 Course Outcome	138
42.5 CO – PO Mapping	138
42.6 CO – PSO Mapping	138
43 Situating Environmental History of India	139
43.1 Course Overview	139
43.2 Curriculum Structure	140
43.3 Evaluation Methods	140
43.4 Course Outcome	141
43.5 CO – PO Mapping	141
43.6 CO – PSO Mapping	142
44 India: Nation in the Making	143
44.1 Course Overview	143
44.2 Curriculum Structure	144
44.3 Evaluation Methods	144
44.4 Course Outcome	145
44.5 CO – PO Mapping	145
44.6 CO – PSO Mapping	145

Perspectives and Methodologies in Social Science

1.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	HY1CRT01
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	80
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

1.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Introduction to Social Sciences	Lecturing, Debate	20
2	Survey of the Social Sciences	Lecturing, Group Discussion	20
3	Nature of Social Sciences	Lecturing, Debate	20
4	On History	Lecturing ,ICT	20

1.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

1.4 Course Outcome

CO-1	Equip intellectually to evaluate the works in the light of new theories and concepts.
CO-2	Enable the students to understand the history of historical writings
CO-3	Inculcate values of Historical Writings
CO-4	Familiarise leading historical thoughts

1.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	0	0	0	0	0	0	0	0	0
CO-2	0	0	2	0	0	0	0	0	0	0
CO-3	0	0	0	0	0	0	0	2	0	0
CO-4	0	0	0	0	0	0	0	2	0	0

1.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	0	0	2	0	0	0	0
CO-2	0	0	0	0	2	0	0
CO-3	0	0	0	2	0	0	0
CO-4	0	3	0	0	0	0	0

Environmental History

2.1 Course Overview

1	Course	Vocational Core
2	Course Type	Theory
3	Course Code	HY1VOT07
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	80
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

2.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Introduction to Environmental History	Lecturing, Group Discussion, Symposium, ICT	20
2	Nature Ages of Natural History	Lecturing, Debate, Interface, ICT	20
3	The Prehistory	Lecturing, Visual hour, ICT	20
4	History of the Evolution of Man	Lecturing	20

2.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

2.4 Course Outcome

CO-1	Equip intellectually to evaluate the works in the light of new theories and concepts.
CO-2	Enable the students to understand the history of historical writings
CO-3	Inculcate values of Historical Writings
CO-4	Familiarise leading historical thoughts

2.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	0	3	0	0	0	0	0	0	0
CO-2	0	3	0	0	0	0	0	3	0	0
CO-3	3	0	3	2	0	3	1	0	0	3
CO-4	0	0	3	2	2	3	2	0	1	3

2.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	2	3	3	1	3	0	0
CO-2	0	0	3	0	3	0	0
CO-3	3	2	0	0	3	0	0
CO-4	3	0	2	3	0	0	0

Understanding early India: From Hunting Gatherers to Land Grants

3.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	HY2CRT02
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	80
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

3.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Prehistoric Cultures in India	Lecturing, ICT	20
2	Age of early Literatures 1500-600 BCE AND Vedic Age	Lecturing, Group Discussion	20
3	Second Urbanisation and Heterodox Sects	Lecturing, Question Answer Session	20
4	Early State Formation	Lecturing, PPT	20

3.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

3.4 Course Outcome

CO-1	Students will be able to understand state formation in India
CO-2	To gain the knowledge of Indus valley civilization and vedic age
CO-3	To acquire the basic knowledge about the ancient India
CO-4	Analyse religious developments during the ancient and medieval period

3.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	2	0	0	0	0	0	0	0
CO-2	0	0	0	0	0	2	0	0	0	0
CO-3	0	0	0	0	0	0	0	2	0	0
CO-4	0	0	0	0	0	0	0	0	2	0

3.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	2	0	0	0	0	0	0
CO-2	0	2	0	0	0	0	0
CO-3	0	0	2	0	0	0	0
CO-4	0	0	0	3	0	0	0

Demographic History Of India

4.1 Course Overview

1	Course	Vocational Core
2	Course Type	Theory
3	Course Code	HY2VOT8
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	80
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

4.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Demographic Expansion and Sedentarisation	Lecturing, Debate, Interface, ICT	20
2	Colonisation, Migration and Ecological Changes	Lecturing, ICT	15
3	Demographic History in Indian Context	Lecturing, Visual hour, ICT	25
4	History of Indian Census	Lecturing, ICT	20

4.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

4.4 Course Outcome

CO-1	Have acquired basic knowledge of the discipline of Demographic History including Census, population explosion and public consciousness.
CO-2	Be able to appreciate the world of Environmental History and there by the Great Discipline of History.
CO-3	Be able to ask questions and obtain solutions to such questions by the use of reasoning, ICT usage, discussion and debate.
CO-4	Enhanced both verbal and Psychomotor skills and decision making power through analytical studies.

4.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	3	2	0	0	0	0	0	0	0
CO-2	2	0	0	0	0	0	1	2	0	0
CO-3	0	0	0	2	3	1	0	0	2	3
CO-4	0	0	3	0	0	2	0	1	0	0

4.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	3	3	2	0	0	0	0
CO-2	2	0	0	3	0	0	0
CO-3	0	0	0	2	1	0	0
CO-4	0	2	3	0	0	0	0

Polity, Society and Economy in Pre Colonial India

5.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	HY3CRT03
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	80
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

5.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Interpreting the Sources	Lecturing,Debate	20
2	Polity and Institutional Structures in Delhi Sultanate	Lecturing,ICT	20
3	Mughal Empire	Lecturing, Visual hour	20
4	Regional Political Formations	Lecturing, question answer session	20

5.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

5.4 Course Outcome

CO-1	understand sources of medieval India
CO-2	Understand medieval Indian political system, nature of state
CO-3	Analysis the economic systems in Medieval India
CO-4	Know the religions merits and demerits in medieval India

5.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	0	0	0	2	0	0	0	0
CO-2	0	0	0	0	0	0	0	2	0	0
CO-3	0	0	1	0	0	0	0	0	0	0
CO-4	0	0	0	0	0	0	0	2	0	0

5.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	0	0	0	3	0	0	0
CO-2	2	0	0	0	0	0	0
CO-3	0	2	0	0	0	0	0
CO-4	0	0	2	0	0	0	0

Cultural Trends in Pre Colonial Kerala

6.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	HY3CRT04
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	80
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

6.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Geography moulds History	Lecturing,PPT	20
2	Early Settlements	Lecturing, Group Discussion	20
3	Age of Perumals and Swaroopams	Lecturing, Question Answer Session	20
4	Social Control, Trade and Culture	Lecturing, Debate	20

6.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

6.4 Course Outcome

CO-1	Identify the unique geographical features of Kerala and distinguish the different sources of Ancient Kerala history.
CO-2	Get more comprehensive idea of the transition from a tribal society to the kingship.
CO-3	The students get acquainted with the knowledge of the formation the states of Venad, Kochi, Kozhikode and Kolathunad
CO-4	The students could understand the background of the advent of the European travellers to Kerala

6.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	1	0	0	0	0	0	0	0	0	0
CO-2	0	0	0	2	0	0	0	0	0	0
CO-3	0	0	0	0	3	0	0	0	0	0
CO-4	0	0	0	0	0	0	0	0	0	2

6.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	0	0	0	2	0	0	0
CO-2	0	0	0	0	0	0	2
CO-3	0	0	0	0	0	0	2
CO-4	0	0	0	2	0	0	0

History Of Indian Forestry

7.1 Course Overview

1	Course	VocationalCore
2	Course Type	Theory
3	Course Code	HY3VOT09
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	80
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

7.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Background of Indian Environmental History	Lecturing, Visual hour, Group Discussion, Symposium, ICT	20
2	Colonisation, Migration and Ecological Changes	Lecturing, Debate, Interface, ICT	20
3	Definition and Background	Lecturing, ICT	25
4	Major Forest Legislation	Lecturing, ICT	15

7.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

7.4 Course Outcome

CO-1	Student get more comprehensive idea of the better environmental consciousness exercised by Indians.
CO-2	Understand the causes and effects of exploitation
CO-3	Be able to ask questions and obtain solutions to such questions by the use of reasoning, ICT usage, discussion and debate.
CO-4	Enhances both verbal and psychomotor skills and decision making power through analytical studies

7.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	2	0	0	0	0	2	0	0	0
CO-2	0	0	2	0	3	0	0	3	0	0
CO-3	3	0	3	2	0	0	3	1	0	3
CO-4	0	0	3	2	2	3	2	0	1	3

7.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	3	1	0	3	0	0	0
CO-2	1	3	2	0	2	0	0
CO-3	0	0	3	1	3	0	0
CO-4	0	3	0	3	0	0	0

Making of Modern Kerala

8.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	HY4CRT05
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	80
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

8.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Beginning of European Colonization	Lecturing, ICT	20
2	Towards Modernity	Lecturing, Group Discussion	20
3	Early Political and Cultural Movements Kerala	Lecturing, PPT	20
4	Kerala Since Independence	Lecturing, Debate	20

8.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

8.4 Course Outcome

CO-1	Identify the unique geographical features of Kerala.
CO-2	Understand the influence of the western powers on Kerala
CO-3	Students get more comprehensive idea of the formation of the state.
CO-4	Understand and update facts and concepts related to the formation of the state

8.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	1	1	0	0	0	0	0	0	0	0
CO-2	2	0	0	0	0	0	1	0	0	0
CO-3	1	0	0	0	0	0	0	0	1	1
CO-4	0	0	0	1	0	1	0	0	0	0

8.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	0	0	0	2	0	0	0
CO-2	0	0	0	0	0	0	2
CO-3	0	0	0	0	0	0	2
CO-4	0	0	0	2	0	0	0

Researching The Past

9.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	HY4CRT06
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	80
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

9.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Basics of Historical Research	Lecturing,PPT	20
2	Treasures of Past	Lecturing, Debate	20
3	On Interpreting	Lecturing, Question Answer Session	20
4	On Referencing	Lecturing, Discussion	20

9.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

9.4 Course Outcome

CO-1	To learn to apply the methods and theories of social science to contemporary issues
CO-2	
CO-3	Enable the students to understand the origin and development of historical writings in India.
CO-4	Critically read popular and periodical literature from a social science perspective.

9.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	3	0	0	0	0	0	0	0
CO-2	0	0	0	0	0	0	0	3	0	0
CO-3	0	0	3	0	0	0	0	0	0	0
CO-4	0	0	0	0	0	0	3	0	0	0

9.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	0	0	0	3	0	0	0
CO-2	0	0	0	4	0	0	0
CO-3	0	3	0	0	0	0	0
CO-4	0	3	0	0	0	0	0

Colonialism and Indian Forest

10.1 Course Overview

1	Course	Vocational Core
2	Course Type	Theory
3	Course Code	HY4VOT10
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	80
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

10.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Forest Administration as Timber Management	Lecturing, symposium, ICT	20
2	Commercial Cash Crop Plantations	Lecturing, Debate, Group Discussion, ICT	20
3	Impact of World War 1 and Indian Forests	Lecturing, Visual hour, ICT	25
4	Inter War Period	Lecturing	15

10.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

10.4 Course Outcome

CO-1	Student gets aware of the beginning of scientific forestry and he is expected to respect those who made valuable contributions to the same.
CO-2	Student get more comprehensive idea of the better environmental consciousness exercised by Indians.
CO-3	Student gets more comprehensive idea of the environmental impacts of the foreign domination.
CO-4	

10.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	0	2	0	0	0	1	2	0
CO-2	0	1	0	0	0	2	0	0	0	3
CO-3	2	0	0	2	0	0	0	3	0	0
CO-4	0	0	2	0	1	0	2	0	0	0

10.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	2	0	3	1	0	0	0
CO-2	0	1	3	3	0	0	0
CO-3	0	0	3	0	2	0	0
CO-4	3	0	3	2	0	0	0

Inheritance and Departures in Historiography

11.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	HY5CRT07
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	80
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

11.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Classical Notion of History	Lecturing, PPT	20
2	The Positivist Turn	Lecturing, Debate	20
3	The Paradigm Shift	Lecturing, Question Answer Session	20
4	History From the Margins	Lecturing, Discussion	20

11.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

11.4 Course Outcome

CO-1	Equip intellectually to evaluate the works in the light of new theories and concepts.
CO-2	Enable the students to understand the history of historical writings
CO-3	Inculcate values of Historical Writings
CO-4	Familiarise leading historical thoughts

11.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	0	0	0	0	0	0	0	0	0
CO-2	0	0	2	0	0	0	0	0	0	0
CO-3	0	0	0	0	0	0	0	2	0	0
CO-4	0	0	0	0	0	0	0	2	0	0

11.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	0	0	2	0	0	0	0
CO-2	0	0	0	0	2	0	0
CO-3	0	0	0	2	0	0	0
CO-4	0	3	0	0	0	0	0

India: Nation in the Making**12.1 Course Overview**

1	Course	Core
2	Course Type	Theory
3	Course Code	HY5CRT08
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	80
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

12.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Impact of British Rule	Lecturing, PPT	20
2	Phases of National Movement	Lecturing, Debate	20
3	Towards Freedom Partition	Lecturing, Question Answer Session	20
4	Uprising Against the British	Lecturing, Discussion	20

12.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

12.4 Course Outcome

CO-1	Trace the significance of the freedom movement in India.
CO-2	Understands the concept of nationalism.
CO-3	Know about the different courses and phases of Indian national movement and its leaders.
CO-4	Understand the initiatives taken by social reformers towards nation making.

12.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	2	0	0	0	0	0	0	0
CO-2	0	0	2	0	0	0	0	0	0	0
CO-3	0	0	2	0	0	0	0	0	0	0
CO-4	0	0	0	0	0	0	0	2	0	0

12.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	0	0	0	3	0	0	0
CO-2	3	0	0	0	0	0	0
CO-3	3	0	0	0	0	0	0
CO-4	3	0	0	0	0	0	0

Environmental Studies and Human Rights in Historical Outline

13.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	HY5CRT10
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	72
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

13.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Natural Resources and Ecosystem	Lecturing, PPT	18
2	Environmental Pollution and Social Issues	Lecturing, ICT	26
3	Historical Outline	Lecturing, Question Answer Session	10
4	Post Colonial Scenario	Lecturing, Debate	10
5	Human Rights	Lecturing, Group Discussion	8

13.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

13.4 Course Outcome

CO-1	Environmental education encourages students to research, investigate how and why things happen and make their own decisions about complex environmental issues by developing and enhancing critical and creative thinking skills.
CO-2	Environmental education helps students to understand how their decisions and actions affect the environment.
CO-3	To develop the sense of awareness among students about the environment and various problems
CO-4	To acquire basic knowledge about the environment
CO-5	To acquire basic knowledge about Human Rights

13.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	3	3	0	0	0	2	2	1	1
CO-2	1	0	2	2	2	2	0	2	2	0
CO-3	1	0	0	0	0	0	0	2	2	0
CO-4	2	0	2	0	0	2	0	2	3	0
CO-5	2	0	0	0	0	3	0	2	2	2

13.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	3	2	3	1	3	0	0
CO-2	2	3	3	0	2	0	0
CO-3	2	3	3	0	2	0	0
CO-4	2	3	3	0	2	0	0
CO-5	3	2	2	0	2	0	0

Human Ecology

14.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	HY5VOT11
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	80
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

14.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Our Environment	Lecturing, ICT	20
2	Environmental Movements	Lecturing, Group Discussion	20
3	Energy Sources	Lecturing, Question Answer Session	20
4	Equitable Use of Resources for Sustainable Lifestyle	Lecturing, PPT	20

14.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

14.4 Course Outcome

CO-1	Improving resource efficiency through skilled manpower, modern and efficient technology and methods.
CO-2	Increasing the use of renewable resources
CO-3	Change an attitude and life style and accepting behavioural patterns based on environmental ethics.
CO-4	Enhancing the quality of life through better resources and cheaper goods, services and facilities.

14.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	2	0	0	0	0	0	0	0	2
CO-2	0	2	1	0	0	0	0	3	1	0
CO-3	1	0	0	0	0	0	0	1	0	2
CO-4	1	0	1	1	0	0	0	0	0	0

14.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	0	0	0	2	0	0	0
CO-2	0	0	0	0	0	0	2
CO-3	0	0	0	0	0	0	2
CO-4	0	0	0	2	0	0	0

Introducing Environmental History

15.1 Course Overview

1	Course	Open Course
2	Course Type	Theory
3	Course Code	HY5OCT01
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	80
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

15.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Basics	Lecturing, ICT	20
2	Roots of Environmental Crisis	Lecturing, Debate, ICT	20
3	The Context of Colonial India	Lecturing, Visual hour, ICT	25
4	Environmental Movements in India	Lecturing, ICT	15

15.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

15.4 Course Outcome

CO-1	Have acquired basic knowledge of the discipline of Environmental History including Pre History, Nature Ages, and Evolution and Indian Environmental tradition.
CO-2	Be able to appreciate the world of Environmental History and there by the Great Discipline of History.
CO-3	Be able to ask questions and obtain solutions to such questions by the use of reasoning, ICT usage, discussion and debate.
CO-4	Enhanced both verbal and Psychomotor skills and decision making power through analytical studies.

15.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	2	0	0	0	3	0	0	0
CO-2	3	1	0	2	1	0	0	0	0	3
CO-3	3	0	0	0	0	0	0	0	0	0
CO-4	3	0	3	0	0	2	0	1	1	0

15.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	2	3	0	0	1	0	0
CO-2	0	2	0	1	0	0	0
CO-3	0	3	2	0	0	0	0
CO-4	0	3	0	2	0	0	0

Making of Contemporary India

16.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	HY6CRT11
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	80
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

16.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Popular Movements	Lecturing, Debate	15
2	Major Problems after Independence	Lecturing, Question Answer Session	20
3	Planning Commission	Lecturing, Group Discussion	25
4	Decentralisation and Panchayathiraj	Lecturing, ICT	20

16.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

16.4 Course Outcome

CO-1	Analyse the popular movements from 1935-1947
CO-2	Understand the major problems after independence.
CO-3	Understand the various economic policies, constitutional and administrative developments after independence
CO-4	Analyse the caste and communal forces in Indian politics and understand the women reservation policies in india

16.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	0	0	0	0	0	0	0	0
CO-2	0	0	0	0	0	0	0	2	1	0
CO-3	0	0	0	0	0	2	0	0	0	0
CO-4	0	0	0	2	0	0	0	0	0	0

16.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	3	0	0	3	0	0	0
CO-2	0	2	0	0	0	0	0
CO-3	0	0	0	3	0	0	0
CO-4	0	2	0	0	0	0	0

Understanding Modern Period

17.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	HY6CRT12
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	80
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

17.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Colonialism and Imperialism	Lecturing, PPT	20
2	Trends in Inter War Period	Lecturing, Debate	20
3	Anti- Colonial Struggles	Lecturing, Debate, Question Answer Session	20
4	Post World War Settlements	Lecturing, ICT	20

17.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

17.4 Course Outcome

CO-1	Equip intellectually to evaluate the historical events in the light of new theories and concepts.
CO-2	Enable the students to understand the history of Colonialism
CO-3	Inculcate values of anti-colonial writings
CO-4	Familiarise leading historical thoughts

17.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	3	0	0	0	0	0	0	0	0
CO-2	0	0	1	0	0	0	0	0	0	0
CO-3	0	0	0	0	0	0	0	2	0	0
CO-4	0	0	2	0	0	0	0	0	0	0

17.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	2	0	0	0	0	0	0
CO-2	0	0	0	0	3	0	0
CO-3	0	0	0	2	0	0	0
CO-4	0	0	0	0	2	0	0

Capitalism and Colonialism

18.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	HY6CRT13
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	80
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

18.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Transition from Feudalism to Capitalism	Lecturing, Debate	20
2	Logic of capitalist commodity production and scramble for colonies	Lecturing, ICT	20
3	Defining the Colonies	Lecturing, PPT	20
4	The Making of colonial relations	Lecturing, Group Discussion	20

18.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

18.4 Course Outcome

CO-1	Students will be able to contextualise the world production system
CO-2	The pupil will place the historical events in their country in aglobal context
CO-3	The students will came to know the thinkers like Mark, Engels, E.P thomson, Emmanual Walenstein and other prominent figures
CO-4	The students will able to famiarise various theories on capitalism ans colonialism and its impact

18.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	0	0	0	0	0	0	0	0
CO-2	0	0	2	0	0	0	0	0	0	0
CO-3	0	0	0	2	0	0	0	0	0	0
CO-4	2	0	0	0	0	2	0	0	0	0

18.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	3	0	0	3	0	0	0
CO-2	0	2	0	3	0	0	0
CO-3	2	0	0	3	0	0	0
CO-4	0	2	0	3	0	0	0

Wild Life Management

19.1 Course Overview

1	Course	Vocational Core
2	Course Type	Theory
3	Course Code	HY6VOT12
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	80
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

19.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Wild Life Management An Introduction	Lecturing,ICT	20
2	Strategies in Wild Life Management	Lecturing, Group Discussion	20
3	Organizational setup in Wild Life Management	Lecturing,PPT	20
4	Wild Life Conservation in Indian Context	Lecturing, Debate	20

19.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

19.4 Course Outcome

CO-1	Communicate using the language of natural resource management generally and wildlife ecology and management specifically.
CO-2	Apply ecological and behavioural concepts and principles to the management of wildlife populations and habitats to achieve a diversity of objectives, including sustained harvest, control, conservation, and restoration.
CO-3	Understand key ecological principles that apply to wildlife and habitat at the organism, population, community, and ecosystem levels, with an understanding of their relevance to wildlife management practices.
CO-4	Understand the policy framework, decision processes, and social and political considerations that influence decisions in wildlife management at the state and federal levels.

19.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	0	0	0	0	0	0	0	0	0
CO-2	0	2	3	1	0	0	0	0	0	0
CO-3	1	0	0	0	0	0	2	0	0	0
CO-4	0	0	0	0	0	0	0	2	0	2

19.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	1	0	0	1	0	0	0
CO-2	0	0	0	0	0	0	2
CO-3	0	0	0	3	0	0	0
CO-4	0	0	0	0	0	0	2

Archaeology in India

20.1 Course Overview

1	Course	Choice Based Core
2	Course Type	Theory
3	Course Code	HY6CBT01
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	80
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

20.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Introduction To Archaeology	Lecturing, Group Discussion	15
2	Principles and Methods of Archaeology	Lecturing, Debate	20
3	History of Archaeology in India	Lecturing, Visual hour, ICT	25
4	Archaeological Sites in India	Lecturing,	20

20.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

20.4 Course Outcome

CO-1	Student acquired fundamental knowledge and skills in Archaeology which required for enriching historical knowledge.
CO-2	Developed in learner an interdisciplinary approach which is be useful for comprehensive research.
CO-3	Be able to ask questions and obtain solutions to such questions by the use of reasoning, ICT usage, discussion and debate.
CO-4	Enhanced both verbal and Psychomotor skills and decision making power through analytical studies.

20.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	2	0	0	0	3	0	0	0	0
CO-2	2	0	2	0	0	0	0	3	0	0
CO-3	3	0	0	3	0	0	1	0	0	0
CO-4	1	0	0	0	3	0	0	0	0	3

20.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	3	0	2	0	0	0	0
CO-2	0	3	0	0	1	0	0
CO-3	0	1	2	0	1	0	0
CO-4	2	0	0	1	0	0	0

Social Formations in Pre Modern India**21.1 Course Overview**

1	Course	Complementary
2	Course Type	Theory
3	Course Code	HY1CMT02
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	80
9	Hours per Week	6
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

21.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Ancient Society	Lecturing, Group Discussion	20
2	Emergence of Feudal Order	Lecturing, Debate	20
3	The Political Economy of the Delhi Sultanate (	Lecturing, ICT	20
4	The Mughal Social Formation	Lecturing, question answer session	20

21.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

21.4 Course Outcome

CO-1	Understand the formation of state in Ancient India
CO-2	Evaluate the socio economic ,political and cultural transformations of different phases in Indian History
CO-3	Discuss important features of Indian Feudalism
CO-4	Analyse religious developments during the ancient and medieval period

21.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	0	0	0	0	0	0	0	0	0
CO-2	0	0	2	0	0	0	0	0	0	0
CO-3	0	0	0	0	0	2	0	0	0	0
CO-4	0	0	0	0	0	0	0	0	0	2

21.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	3	2	0	3	0	0	0
CO-2	3	3	0	3	0	0	0
CO-3	2	0	0	2	0	0	0
CO-4	0	2	0	2	0	0	0

History of the Freedom Movement in India

22.1 Course Overview

1	Course	Complementary
2	Course Type	Theory
3	Course Code	HY2CMT04
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	80
9	Hours per Week	6
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

22.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Uprising of 1857- Nature, cause and consequences. Formation of I N C	Lecturing,PPT	25
2	Gandhian Idea of Satyagraha and Ahimsa-	Lecturing, ICT	10
3	Impact of World War I	Lecturing, Question Answer Session	25
4	Constitutional Reforms	Lecturing, Debate	20

22.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

22.4 Course Outcome

CO-1	Understand the causes of the rise of nationalism in india
CO-2	Analyse the different phases of indian national movement
CO-3	Identify the role of Gandhiji in freedom movement
CO-4	Explain the Histoty of constitutional developments in India

22.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	0	0	0	0	0	0	0	0	0
CO-2	0	0	0	0	0	2	0	0	0	0
CO-3	1	0	0	0	0	0	0	2	0	0
CO-4	0	0	0	2	0	0	0	0	1	0

22.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	3	0	0	0	0	0	0
CO-2	0	2	0	3	0	0	0
CO-3	2	0	0	0	0	0	0
CO-4	2	0	1	3	0	0	0

Social Formations in Pre Modern India**23.1 Course Overview**

1	Course	Complementary
2	Course Type	Theory
3	Course Code	HY1CMT02
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	80
9	Hours per Week	6
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

23.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Ancient Society	Lecturing, PPT	20
2	Emergence of Feudal Order	Lecturing, Question Answer Session	20
3	The Political Economy of the Delhi Sultanate	Lecturing, Group Discussion	20
4	The Mughal Social Formation	Lecturing, PPT	20

23.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

23.4 Course Outcome

CO-1	Understand the formation of state in Ancient India
CO-2	Evaluate the socio economic ,political and cultural transformations of different phases in Indian History
CO-3	Discuss important features of Indian Feudalism
CO-4	Analyse religious developments during the ancient and medieval period

23.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	1	0	0	2	0	0	0	0	0	0
CO-2	0	2	0	0	0	1	0	0	0	1
CO-3	0	0	3	0	0	0	2	0	1	0
CO-4	2	0	0	3	0	0	1	0	0	0

23.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	0	2	0	1	0	0	0
CO-2	3	0	0	0	0	0	0
CO-3	0	0	3	1	0	0	0
CO-4	2	0	1	0	0	0	0

Transition To Contemporary World

24.1 Course Overview

1	Course	Complementary
2	Course Type	Theory
3	Course Code	HYCPO2
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	80
9	Hours per Week	6
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

24.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Implications of French Revolution	Lecturing, ICT	20
2	Imperialism	Lecturing, PPT	20
3	The Great Depression	Lecturing, Question Answer Session	20
4	Emergence of Anti- colonial Movements in Asia and Africa	Lecturing, Group Discussion	20

24.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

24.4 Course Outcome

CO-1	Inputs from major revolutions create an advantageous intellectual disposition for a student in problematizing historical events and structures.
CO-2	The course sharpens the cognitive and interpretative skills of the student.
CO-3	Students will understand the problems of the present day world developments
CO-4	Ultimately the course implants higher academic sensibility, perceptual qualities and imaginative skills that elevate the student to high levels of Interdisciplinarity.

24.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	2	0	0	0	0	0	0	0	0
CO-2	0	0	0	3	0	0	0	2	0	0
CO-3	0	0	3	0	0	0	0	0	0	2
CO-4	0	2	0	0	0	0	2	0	0	0

24.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	0	2	0	1	0	0	0
CO-2	0	0	0	0	0	0	0
CO-3	3	0	0	2	0	0	0
CO-4	0	3	1	0	0	0	0

Perspectives on Historiography

25.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	HY010101
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	150
7	Internal Assessment	25
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

25.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Past in India -Pre Colonial Approaches	Lecturing, PPT	25
2	Western Approaches	Lecturing, Debate	20
3	The Annaliste Paradigm	Lecturing, Question Answer Session	25
4	Emancipatory Turn in Historiography	Lecturing, Group Discussion	20

25.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

25.4 Course Outcome

CO-1	Equip intellectually to evaluate the works in the light of new theories and concepts.
CO-2	Enable the students to understand the history of historical writings
CO-3	Inculcate values of Historical Writings
CO-4	Familiarise leading historical thoughts

25.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	0	0	0	0	0	0	0	0	0
CO-2	0	0	2	0	0	0	0	0	0	0
CO-3	0	0	0	0	0	0	0	2	0	0
CO-4	0	0	0	0	0	0	0	2	0	0

25.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	0	0	2	0	0	0	0
CO-2	0	0	0	0	2	0	0
CO-3	0	0	0	2	0	0	0
CO-4	0	3	0	0	0	0	0

Transition from Pre-State To State Societies in Indian History

26.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	HY010102
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	150
7	Internal Assessment	25
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

26.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Historiographical Considerations	Lecturing,PPT	23
2	The Question of State and Harappan Civilization	Lecturing, Debate	22
3	The Post Hrappan Scenario	Lecturing, Question Answer Session	22
4	The Pre- Mauryan Political Scenario	Lecturing, Group Discussion	23

26.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

26.4 Course Outcome

CO-1	To understand the knowledge about social transition from one formation to another
CO-2	Understand the different interpretations of historical theories
CO-3	Understand the knowledge about the state formation.
CO-4	Familiarize the students with heritage of India.

26.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	2	2	0	0	0	0	0	0	0
CO-2	0	0	2	0	0	0	0	0	0	0
CO-3	0	2	0	0	0	2	0	0	0	0
CO-4	0	2	0	0	0	0	2	0	0	0

26.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	0	0	2	0	0	0	0
CO-2	0	0	2	0	0	0	0
CO-3	0	0	2	0	0	0	0
CO-4	0	2	0	0	0	0	0

History of Social Formations in Kerala

Pre Historic To Pre Modern

27.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	HY010103
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	150
7	Internal Assessment	25
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

27.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Historiographical Positions on Ancient and Early Medieval Kerala	Lecturing, PPT	25
2	Human Ecology Landscape Pre History and Early Historic Iron Age Society	Lecturing, Debate	25
3	Economy and Society During The Perumal Rule	Lecturing, Question Answer Session	25
4	Polity and Culture under the Nattutayavar and Perumals	Lecturing, Group Discussion	15

27.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

27.4 Course Outcome

CO-1	Students will be able to understand society formation in Kerala
CO-2	To gain the knowledge of society and social relations in Kerala
CO-3	To acquire the basic knowledge about polity in Kerala
CO-4	Analyse religious developments during the ancient and medieval period

27.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	0	0	0	0	0	1	0	0
CO-2	0	0	2	0	0	0	0	0	0	0
CO-3	0	0	1	0	0	0	0	0	0	0
CO-4	1	0	0	0	0	0	0	0	0	0

27.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	1	0	0	0	0	0	0
CO-2	0	2	0	0	0	0	0
CO-3	0	3	0	0	0	0	0
CO-4	0	0	0	1	0	0	0

Pre- Colonial Indian Economy Production Appropriation and Exchange

28.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	HY010104
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	150
7	Internal Assessment	25
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

28.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Nature and Structure of Sulthanate Economy	Lecturing, ICT	20
2	South Indian Economy	Lecturing, Group Discussion	25
3	Structural Transformation in Mughal Economy	Lecturing, Question Answer Session	20
4	Structure of Vijayanagara Economy	Lecturing, PPT	25

28.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

28.4 Course Outcome

CO-1	Students will be acquire economic processes of the pre-colonial Indian subcontinent
CO-2	Understand urbanization, monetization and emergence of new groups in the economy and the modes of resource extraction and the production relation emerged out of economic activities constituted the material base of pre-colonial polities.
CO-3	Analysis the economic institutions and structures emerged during the medieval India
CO-4	Inherits sound knowledge about nexus of agriculture and craft production, its appropriation and exchange in pre-colonial India

28.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	0	2	0	0	0	0	0	0
CO-2	0	0	0	0	0	2	0	0	0	0
CO-3	0	0	0	0	0	2	1	0	0	0
CO-4	0	0	0	0	0	0	0	0	2	0

28.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	2	0	0	0	0	0	0
CO-2	0	0	2	0	0	0	0
CO-3	2	2	0	0	0	0	0
CO-4	0	0	0	3	0	0	0

History of Social Revolutions in the World**29.1 Course Overview**

1	Course	Core
2	Course Type	Theory
3	Course Code	HY010105
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	150
7	Internal Assessment	25
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

29.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	The Scientific Revolution and the Enlightenment	Lecturing, Group Discussion, Symposium, ICT	25
2	The Industrial Revolution	Lecturing, ICT	20
3	The French Revolution	Lecturing, PPT	20
4	The Russian Revolution	Lecturing, question answer session	25
5	The Chinese Revolution	Lecturing, Group Discussion	0

29.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

29.4 Course Outcome

CO-1	The students upon completing the course will be able to locate, compare and contrast the revolutions in terms of ideology, nature and strategies.
CO-2	Apart from a descriptive understanding of revolutions the students will be able to apply certain theoretical models for the analysis of revolutions in history.
CO-3	Most significantly the course enables the students to trace historic linkages between the contemporary society and the revolutionary past.
CO-4	

29.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	1	0	2	0	0	0	0	0	0	0
CO-2	0	0	0	0	0	0	2	0	0	1
CO-3	0	2	0	0	0	0	0	1	0	0
CO-4	0	0	0	1	0	0	0	0	2	0

29.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	2	0	0	0	0	0	0
CO-2	0	0	0	2	0	0	0
CO-3	0	0	2	0	0	0	0
CO-4	0	0	3	0	0	1	0

History of Social Institution and Structures of Early India

30.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	HY010201
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	150
7	Internal Assessment	25
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

30.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Institutions of the Vedic Society	Lecturing, PPT	15
2	Character of the vedic Religious institutions	Lecturing, Debate	20
3	From varna to Jati	Lecturing, Question Answer Session	20
4	The Hierarchically Stratified Jati Society	Lecturing, Group Discussion	20
5	Early Historic Society in Tamilakam	Lecturing, ICT	15

30.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

30.4 Course Outcome

CO-1	Students know the character of the Vedic religious Institutions
CO-2	Students understand the historical roots of social institutions and structures of early India.
CO-3	Students gain knowledge about the historical setting of early Tamilakam.
CO-4	It gives the students historical background of the Hierarchically stratified Jati Society in Ancient India.

30.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	2	2	0	0	0	0	0	0	0
CO-2	0	2	2	0	0	0	0	0	0	0
CO-3	0	2	0	0	0	2	0	0	0	0
CO-4	0	2	0	0	0	0	2	0	0	0

30.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	0	0	2	0	0	0	0
CO-2	0	0	2	0	0	0	0
CO-3	0	0	2	0	0	0	0
CO-4	0	2	0	0	0	0	0

Social Formation of Kerala AD. 1200-1800**31.1 Course Overview**

1	Course	Core
2	Course Type	Theory
3	Course Code	HY010202
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	150
7	Internal Assessment	25
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

31.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Historiographical Positions	Lecturing, PPT	20
2	Agrarian Expansion in Kerala	Lecturing, Debate	25
3	Economy and Consolidation of Naduvazhi Swarupams	Lecturing, Question Answer Session	25
4	Cultural Power and Multiple Hierarchies	Lecturing, Group Discussion	20

31.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

31.4 Course Outcome

CO-1	Develop critical approach on the Historiography of Kerala
CO-2	Enable the students to evaluate the land relations and production relations in medieval Kerala
CO-3	Enrich the students to understand the process of the Social Formation in South India in general and Kerala in particular
CO-4	Understand various mechanisms engaged in the Medieval agrarian relations in Kerala

31.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	2	0	0	0	0	0	0	0	0
CO-2	1	0	0	0	0	0	0	0	0	0
CO-3	0	0	3	0	0	0	0	0	0	0
CO-4	0	0	1	0	0	0	0	0	0	0

31.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	0	3	0	0	0	0	0
CO-2	0	0	2	0	0	0	0
CO-3	0	0	0	0	2	0	0
CO-4	0	0	0	0	2	0	0

Debates on Medieval India

32.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	HY010203
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	150
7	Internal Assessment	25
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

32.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Approaches to Sources	Lecturing, PPT	15
2	Concepts, Institutions, and Ideology	Lecturing, ICT	25
3	Cultural Developments	Lecturing, Group Discussion	25
4	Towards Transition	Lecturing, question answer session	25

32.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

32.4 Course Outcome

CO-1	Inputs from major revolutions create an advantageous intellectual disposition for a student in problematizing historical events and structures.
CO-2	The course sharpens the cognitive and interpretative skills of the student.
CO-3	Students will understand the problems of the present day world developments
CO-4	Ultimately the course implants higher academic sensibility, perceptual qualities and imaginative skills that elevate the student to high levels of Interdisciplinarity.

32.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	2	0	0	0	0	0	0	0
CO-2	1	0	0	0	0	0	0	0	0	0
CO-3	0	0	0	0	0	0	0	1	0	0
CO-4	0	3	0	0	0	0	0	0	0	0

32.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	2	0	0	0	0	0	0
CO-2	0	0	0	0	1	0	0
CO-3	0	0	0	1	0	0	0
CO-4	0	2	0	0	0	0	0

Reflections on Women's History and Gender in Modern India

33.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	HY010204
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	150
7	Internal Assessment	25
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

33.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Feminist Movements	Lecturing,	25
2	Indian Nationalism and Modernity from Women's Perspectives	Lecturing, Group Discussion	20
3	Social Structures and the Question of Gender Justice	Lecturing, PPT	25
4	Sexual Inequalities and Violence in India	Lecturing, Debate	20

33.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

33.4 Course Outcome

CO-1	The paper is expected to enable students of history to turn towards a new methodological and epistemological framework.
CO-2	The question of gender and women's subordinate position would help us to restructure the norms of patriarchy and associated forms of authority.
CO-3	The stress on knowledge production and its gendered background must open new vistas of enquiry into the categories of women, sexuality, gender, and female subalternity.
CO-4	Provide insights on Gender History and a whole set of new questions that enter into the conceptual and political domains of the mainstream historical scholarship

33.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	1	0	0	0	0	0	0	0	0	0
CO-2	0	0	2	0	0	0	0	0	0	0
CO-3	0	0	0	0	0	2	0	0	0	0
CO-4	0	0	0	0	0	0	0	0	0	0

33.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	0	2	0	2	0	0	0
CO-2	0	0	2	0	0	0	2
CO-3	0	0	0	0	0	0	2
CO-4	0	0	0	1	0	2	0

India the Making of a Colony**34.1 Course Overview**

1	Course	Core
2	Course Type	Theory
3	Course Code	HY010205
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	150
7	Internal Assessment	25
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

34.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Roots of Colonialism in India	Lecturing, ICT	20
2	Nature of Colonial Economy	Lecturing, Debate	25
3	Nature of Colonial Administration	Lecturing, Group Discussion	25
4	Legacies of Colonialism	Lecturing, PPT	20

34.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

34.4 Course Outcome

CO-1	Understand the colonial processes in India
CO-2	students to gain knowledge about the historical process of the making of India as a colony of Britain.
CO-3	Student gets insight into the invaluable contributions of legacy of British rule
CO-4	Students to inherits sound knowledge about geographical unity of India

34.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	1	0	0	0	0	0	0	0	0	0
CO-2	0	0	2	0	0	0	0	0	0	0
CO-3	0	0	0	0	3	0	0	0	0	0
CO-4	0	0	0	0	0	0	4	0	0	0

34.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	0	2	0	0	0	0	0
CO-2	0	0	2	0	0	0	0
CO-3	0	0	0	0	2	0	0
CO-4	0	0	0	0	0	0	3

History and Social Theory

35.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	HY010301
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	150
7	Internal Assessment	25
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

35.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	What is Theory?	Lecturing, PPT	25
2	Neo Marxian Theory	Lecturing, Debate	15
3	Post Modernism and Post Structuralism	Lecturing, Question Answer Session	20
4	Theories on Scientific Revolution	Lecturing, Discussion	30

35.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

35.4 Course Outcome

CO-1	Inputs from major theoretical perspectives create an advantageous intellectual disposition for a student in problematizing historical events and structures.
CO-2	Obviously the student with his exposure to the school of social theories finds it useful in making critical analysis of any research problem that is undertaken for the project work that comes at the end of the programme
CO-3	Ultimately the course implants higher academic sensibility, perceptual qualities and imaginative skills that elevate the student to high levels of Interdisciplinarity.
CO-4	

35.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	2	0	0	0	0	0	0	0
CO-2	1	0	0	0	0	0	0	0	0	0
CO-3	0	2	0	0	0	0	0	0	0	0
CO-4	0	0	0	0	0	0	0	1	0	0

35.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	0	2	0	0	0	0	0
CO-2	0	0	0	1	0	0	0
CO-3	2	0	0	0	0	0	0
CO-4	0	1	0	0	0	0	0

History of Modern Kerala

36.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	HY010302
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	150
7	Internal Assessment	25
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

36.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Colonial Transformation	Lecturing, PPT	20
2	Resistance and Protest Movements	Lecturing, Debate	20
3	Social Modernization and Reform	Lecturing, Question Answer Session	20
4	Phase of Political Movements	Lecturing, Discussion	30

36.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

36.4 Course Outcome

CO-1	Familiarise the students about the colonial phase of Kerala
CO-2	Acquaint the students about impact of Social Revolt
CO-3	Analyse linkage between the Socio Economic and Political milieu of the colonial period that engendered revolts and protests
CO-4	Provide the students insights into the condition that makes dissents, protest and reforms Possible.

36.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	0	0	0	0	0	0	0	0	0
CO-2	0	0	2	0	0	0	0	0	0	0
CO-3	0	0	0	0	0	2	0	2	0	0
CO-4	0	0	0	0	0	0	0	0	2	0

36.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	3	2	3	0	0	0	0
CO-2	0	3	2	0	0	0	0
CO-3	3	0	2	0	0	0	0
CO-4	0	2	0	2	0	0	0

State and Society**37.1 Course Overview**

1	Course	Core
2	Course Type	Theory
3	Course Code	HY010303
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	150
7	Internal Assessment	25
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

37.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	The Structure and Composition of State under the Sultan of Delhi	Lecturing, Debate	15
2	State in Southern India	Lecturing ,PPT	25
3	The Mughal State	Lecturing, Question Answer Session	25
4	The State under the Vijayanagara Rules	Lecturing, Discussion	15

37.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

37.4 Course Outcome

CO-1	Understand the structure, composition and pattern of power relations under medieval India.
CO-2	Students will be gain knowledge about social relations of Power and the state's power structure in medieval India
CO-3	To make the students aware of medieval India's social process behind state power
CO-4	Inherits sound knowledge about medieval India

37.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	2	0	0	0	0	0	0	0	0
CO-2	0	0	0	2	0	0	0	0	0	0
CO-3	0	0	0	0	2	0	0	0	0	0
CO-4	0	0	0	0	0	0	3	0	0	0

37.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	2	0	0	0	0	0	0
CO-2	0	2	0	0	0	0	0
CO-3	0	0	2	0	0	0	0
CO-4	0	0	0	3	0	0	0

Approaches to the Practice of History

38.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	HY010304
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	150
7	Internal Assessment	25
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

38.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Research Practice in History	Lecturing, PPT	20
2	Source Criticism and Analysis	Lecturing, Debate	25
3	Nature of Historical Research	Lecturing, Question Answer Session	25
4	Stylistic Conventions	Lecturing, Discussion	20

38.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

38.4 Course Outcome

CO-1	Equip the student to engage in writing objective history
CO-2	Promote to identify the causal relationship between the sources and historical events
CO-3	Familiarise the students in the recent trends in writing history
CO-4	Equip the students to engage in minor research activities

38.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	0	0	0	0	0	0	0	0
CO-2	0	2	0	0	0	0	0	0	0	0
CO-3	0	0	0	2	0	0	0	0	0	0
CO-4	0	1	0	0	0	0	0	0	0	0

38.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	0	0	0	0	3	0	0
CO-2	0	0	0	0	3	0	0
CO-3	0	0	2	0	0	0	0
CO-4	0	2	0	0	0	0	0

Maritime History of India

39.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	HY010305
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	150
7	Internal Assessment	25
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

39.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Coastline Geography	Lecturing, PPT	20
2	Indegenous Shipping Practices	Lecturing, Debate	20
3	Merchantalism and the Formation joint Stock Companies	Lecturing, Question Answer Session	25
4	Rise of Modern Port Towns	Lecturing, Discussion	25

39.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

39.4 Course Outcome

CO-1	To understand the way how the circulatory processes in the Indian Ocean shaped India's civilizational march.
CO-2	It enhances the student's research potentials and interests in certain specific areas /themes of India's maritime history.
CO-3	To understand the Indigenous Shipping Practices of various dynasties in India.
CO-4	Students understand the Rise of Modern Port towns and the process of mercantile capital.

39.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	2	0	0	0	0	0	0	0
CO-2	0	1	0	0	0	0	0	0	0	0
CO-3	0	0	0	0	0	0	2	0	0	0
CO-4	0	0	2	0	0	0	0	0	0	0

39.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	0	0	3	0	0	0	0
CO-2	0	0	2	0	0	0	0
CO-3	0	0	2	0	0	0	0
CO-4	0	0	2	0	0	0	0

History of Medicine and Health Systems in Modern India

40.1 Course Overview

1	Course	Elective
2	Course Type	Theory
3	Course Code	HY800401
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	150
7	Internal Assessment	25
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

40.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Tracing Modernity in Medicine	Lecturing, PPT	25
2	Development of Medical Institutions and Structures	Lecturing, Debate	15
3	Colonial Health Policy	Lecturing, Discussion	20
4	Societal Reflections	Lecturing, question answer session	30

40.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

40.4 Course Outcome

CO-1	The proposed paper is expected to enable students of evolved history to understand how medical knowledge and health systems have been in India over the years.
CO-2	The paper would help students to examine how the hegemonic assumptions of colonial knowledge systems produced various forms of authority and power structures.
CO-3	This paper will be helpful for post-graduate students to recognize how colonial knowledge produced notions of body, deceases, alternate medicines and health systems in India.
CO-4	Ultimately the course implants higher academic sensibility, perceptual qualities and imaginative skills that elevate the student to high levels of Interdisciplinarity.

40.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	0	0	0	2	0	2	0	0
CO-2	2	0	0	0	0	0	0	0	0	0
CO-3	0	0	0	1	0	0	0	0	0	0
CO-4	0	0	1	0	0	0	0	0	0	2

40.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	3	3	0	0	0	0	0
CO-2	0	3	0	0	0	0	0
CO-3	0	0	3	0	0	0	0
CO-4	3	0	0	0	0	0	0

Knowledge Systems in Pre Modern India**41.1 Course Overview**

1	Course	Elective
2	Course Type	Theory
3	Course Code	HY800402
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	150
7	Internal Assessment	25
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

41.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Archaeology and Knowledge Systems	Lecturing, PPT	20
2	Texts and Knowledge Systems	Lecturing, Debate	20
3	Classical and Regional Knowledge Systems	Lecturing, Question Answer Session	25
4	Foreign Impact on the Indian Knowledge Systems	Lecturing, Discussion	25

41.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

41.4 Course Outcome

CO-1	Students will be develop a frame of mind tuned to a holistic understanding of India's pre-modern intellectual legacy
CO-2	This helps to demystify the past and situate the present and future applications of traditional science and technology more sensibly.
CO-3	It will be able to appreciate the multiple trajectories in Indian knowledge systems.
CO-4	To know the topics with epistemological insights.

41.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	2	0	0	0	0	0	0	0	0
CO-2	0	0	2	0	0	0	0	0	0	0
CO-3	0	2	0	0	0	0	0	0	0	0
CO-4	0	0	0	0	0	0	2	0	0	0

41.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	1	0	0	0	0	0	0
CO-2	0	0	0	0	0	0	0
CO-3	0	2	0	0	0	0	0
CO-4	0	0	3	0	0	0	0

Perspectives on Human Rights in India

42.1 Course Overview

1	Course	Elective
2	Course Type	Theory
3	Course Code	HY800403
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	150
7	Internal Assessment	25
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

42.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Human Rights	Lecturing,PPT	25
2	U.N and Human Rights	Lecturing,Debate	20
3	Human Rights : India's Heritage in Ancient Times	Lecturing, Question Answer Session	25
4	NGOs and Human Rights Movements	Lecturing, Discussion	20

42.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

42.4 Course Outcome

CO-1	This course enables students to set of critical reflections that draw upon the varied global and local, social and political contexts in which human rights operate.
CO-2	The course helps to evolve strategies in the mind of students to tackling such human rights issues.
CO-3	It also enrich the students to look into the human rights issues in a positive manner
CO-4	Enable the students to identify the constitutional safeguard in India

42.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	0	0	0	0	0	0	0	0	0
CO-2	0	2	0	0	0	0	0	0	0	0
CO-3	0	0	0	0	0	0	0	2	0	0
CO-4	0	0	0	0	0	0	0	1	0	0

42.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	0	3	0	0	0	0	0
CO-2	0	0	0	0	2	0	0
CO-3	0	0	2	0	0	0	0
CO-4	0	0	2	0	0	0	0

Situating Environmental History of India

43.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	HY010401
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	150
7	Internal Assessment	25
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

43.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Global Environmental History	Lecturing, PPT	20
2	The Colonial State and India's Natural Environment	Lecturing, Debate	25
3	Post Colonial Scenario	Lecturing, Question Answer Session	25
4	Emergence of Environmental Movements	Lecturing, Discussion	20

43.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

43.4 Course Outcome

CO-1	Students identifying local environmental problems and thereby become change agents through transmitting a balanced position taking on issues related to environmental destruction and preservation.
CO-2	Students to attain historically contextualize human nature relations that have culminated in the contemporary environmental problems and transmit certain values which are pivotal in preserving nature and natural environment.
CO-3	
CO-4	Students gain in exposing dangers that are connected with the notions of progress in colonial India and the ideology of development in post colonial scenario of nation making.

43.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	1	0	0	0	0	0	0	0	0	0
CO-2	0	3	0	0	0	0	0	0	0	0
CO-3	0	0	0	2	0	0	0	0	0	0
CO-4	0	0	0	0	2	0	0	0	0	0

43.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	0	2	0	0	0	0	0
CO-2	0	0	0	3	0	0	0
CO-3	0	0	0	0	2	0	0
CO-4	1	0	0	0	0	0	0

India: Nation in the Making**44.1 Course Overview**

1	Course	Core
2	Course Type	Theory
3	Course Code	HY010402
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	150
7	Internal Assessment	25
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

44.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Locating and Conceptualizing the Nation	Lecturing, PPT	25
2	Rise of Modernity	Lecturing, Debate	25
3	Early Attitudes and Critique on Colonialism	Lecturing, Question Answer Session	20
4	Rise of Political Communities	Lecturing, Discussion	20

44.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

44.4 Course Outcome

CO-1	Remember the historical processes in the making of the Indian Nation
CO-2	Understand the concept of nationalism and colonialism
CO-3	Know about the different courses and phases of Indian national movement and its leaders.
CO-4	Understand the initiatives taken by social reformers towards nation making.

44.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	1	0	0	0	0	0	0	0
CO-2	1	0	0	0	0	0	0	0	0	0
CO-3	0	0	2	0	0	0	0	0	0	0
CO-4	0	2	0	0	0	0	0	0	0	0

44.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6	PSO-7
CO-1	0	2	0	0	0	0	0
CO-2	0	0	0	0	1	0	0
CO-3	0	0	1	0	0	0	0
CO-4	2	0	0	0	0	0	0

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Curriculum Framework



Table of Contents

1	FOUNDATION OF MATHEMATICS	1
1.1	Course Overview	1
1.2	Curriculum Structure	2
1.3	Evaluation Methods	2
1.4	Course Outcome	2
1.5	CO – PO Mapping	3
1.6	CO – PSO Mapping	3
2	ANALYTIC GEOMETRY, TRIGONOMETRY AND DIFFERENTIAL CALCULUS	4
2.1	Course Overview	4
2.2	Curriculum Structure	5
2.3	Evaluation Methods	5
2.4	Course Outcome	5
2.5	CO – PO Mapping	5
2.6	CO – PSO Mapping	6
3	CALCULUS	7
3.1	Course Overview	7
3.2	Curriculum Structure	8

3.3	Evaluation Methods	8
3.4	Course Outcome	8
3.5	CO – PO Mapping	8
3.6	CO – PSO Mapping	9
4	VECTOR CALCULUS, THEORY OF NUMBERS AND LAPLACE TRANS-	
	FORM	10
4.1	Course Overview	10
4.2	Curriculum Structure	11
4.3	Evaluation Methods	11
4.4	Course Outcome	11
4.5	CO – PO Mapping	11
4.6	CO – PSO Mapping	12
5	MATHEMATICAL ANALYSIS	13
5.1	Course Overview	13
5.2	Curriculum Structure	14
5.3	Evaluation Methods	14
5.4	Course Outcome	14
5.5	CO – PO Mapping	14
5.6	CO – PSO Mapping	15
6	DIFFERENTIAL EQUATIONS	16
6.1	Course Overview	16
6.2	Curriculum Structure	17
6.3	Evaluation Methods	17
6.4	Course Outcome	17
6.5	CO – PO Mapping	18
6.6	CO – PSO Mapping	18

7 ABSTRACT ALGEBRA	19
7.1 Course Overview	19
7.2 Curriculum Structure	20
7.3 Evaluation Methods	20
7.4 Course Outcome	20
7.5 CO – PO Mapping	20
7.6 CO – PSO Mapping	21
8 APPLICABLE MATHEMATICS	22
8.1 Course Overview	22
8.2 Curriculum Structure	23
8.3 Evaluation Methods	23
8.4 Course Outcome	23
8.5 CO – PO Mapping	24
8.6 CO – PSO Mapping	24
9 HUMAN RIGHTS AND MATHEMATICS FOR ENVIORNMENTAL STUD- IES	25
9.1 Course Overview	25
9.2 Curriculum Structure	26
9.3 Evaluation Methods	26
9.4 Course Outcome	27
9.5 CO – PO Mapping	27
9.6 CO – PSO Mapping	28
10 REAL ANALYSIS	29
10.1 Course Overview	29
10.2 Curriculum Structure	30
10.3 Evaluation Methods	30
10.4 Course Outcome	30

10.5 CO – PO Mapping	30
10.6 CO – PSO Mapping	31
11 GRAPH THEORY AND METRIC SPACES	32
11.1 Course Overview	32
11.2 Curriculum Structure	33
11.3 Evaluation Methods	33
11.4 Course Outcome	33
11.5 CO – PO Mapping	33
11.6 CO – PSO Mapping	34
12 COMPLEX ANALYSIS	35
12.1 Course Overview	35
12.2 Curriculum Structure	36
12.3 Evaluation Methods	36
12.4 Course Outcome	36
12.5 CO – PO Mapping	36
12.6 CO – PSO Mapping	37
13 LINEAR ALGEBRA	38
13.1 Course Overview	38
13.2 Curriculum Structure	39
13.3 Evaluation Methods	39
13.4 Course Outcome	39
13.5 CO – PO Mapping	40
13.6 CO – PSO Mapping	40
14 BASIC PYTHON PROGRAMMING AND TYPESETTING IN LATEX	41
14.1 Course Overview	41
14.2 Curriculum Structure	42
14.3 Evaluation Methods	42

14.4 Course Outcome	42
14.5 CO – PO Mapping	43
14.6 CO – PSO Mapping	43
15 LINEARPROGRAMMING	44
15.1 Course Overview	44
15.2 Curriculum Structure	45
15.3 Evaluation Methods	45
15.4 Course Outcome	45
15.5 CO – PO Mapping	46
15.6 CO – PSO Mapping	46
16 DUALITY,TRANSPORTATION AND ASSIGNMENT PROBLEM	47
16.1 Course Overview	47
16.2 Curriculum Structure	48
16.3 Evaluation Methods	48
16.4 Course Outcome	48
16.5 CO – PO Mapping	48
16.6 CO – PSO Mapping	49
17 QUEUEINGTHEORY	50
17.1 Course Overview	50
17.2 Curriculum Structure	51
17.3 Evaluation Methods	51
17.4 Course Outcome	51
17.5 CO – PO Mapping	52
17.6 CO – PSO Mapping	52
18 NONLINEARPROGRAMMING	53
18.1 Course Overview	53
18.2 Curriculum Structure	54

18.3 Evaluation Methods	54
18.4 Course Outcome	54
18.5 CO – PO Mapping	55
18.6 CO – PSO Mapping	55

19 PARTIALDIFFERENTIATION,MATRICES,TRIGONOMETRY AND NUMER- ICALMETHODS 56

19.1 Course Overview	56
19.2 Curriculum Structure	57
19.3 Evaluation Methods	57
19.4 Course Outcome	57
19.5 CO – PO Mapping	57
19.6 CO – PSO Mapping	58

20 INTEGRAL CALCULUS AND DIFFERENTIAL EQUATIONS 59

20.1 Course Overview	59
20.2 Curriculum Structure	60
20.3 Evaluation Methods	60
20.4 Course Outcome	60
20.5 CO – PO Mapping	61
20.6 CO – PSO Mapping	61

21 VECTOR CALCULUS, ANALYTIC GEOMETRY AND ABSTRACT ALGE- BRA 62

21.1 Course Overview	62
21.2 Curriculum Structure	63
21.3 Evaluation Methods	63
21.4 Course Outcome	63
21.5 CO – PO Mapping	63
21.6 CO – PSO Mapping	64

22 FOURIER SERIES, LAPLACE TRANSFORM AND COMPLEX ANALYSIS 65

22.1 Course Overview	65
22.2 Curriculum Structure	66
22.3 Evaluation Methods	66
22.4 Course Outcome	66
22.5 CO – PO Mapping	67
22.6 CO – PSO Mapping	67

23 PARTIAL DIFFERENTIATION, MATRICES, TRIGONOMETRY AND NUMERICAL METHODS 68

23.1 Course Overview	68
23.2 Curriculum Structure	69
23.3 Evaluation Methods	69
23.4 Course Outcome	69
23.5 CO – PO Mapping	69
23.6 CO – PSO Mapping	70

24 INTEGRAL CALCULUS AND DIFFERENTIAL EQUATIONS 71

24.1 Course Overview	71
24.2 Curriculum Structure	72
24.3 Evaluation Methods	72
24.4 Course Outcome	72
24.5 CO – PO Mapping	73
24.6 CO – PSO Mapping	73

25 VECTOR CALCULUS, ANALYTIC GEOMETRY AND ABSTRACT ALGEBRA 74

25.1 Course Overview	74
25.2 Curriculum Structure	75
25.3 Evaluation Methods	75

25.4 Course Outcome	75
25.5 CO – PO Mapping	75
25.6 CO – PSO Mapping	76
26 FOURIER SERIES, LAPLACE TRANSFORM AND COMPLEX ANALYSIS	77
26.1 Course Overview	77
26.2 Curriculum Structure	78
26.3 Evaluation Methods	78
26.4 Course Outcome	78
26.5 CO – PO Mapping	79
26.6 CO – PSO Mapping	79
27 PARTIAL DIFFERENTIATION, MATRICES, TRIGONOMETRY AND NUMERICAL METHODS	80
27.1 Course Overview	80
27.2 Curriculum Structure	81
27.3 Evaluation Methods	81
27.4 Course Outcome	81
27.5 CO – PO Mapping	81
27.6 CO – PSO Mapping	82
28 INTEGRAL CALCULUS AND DIFFERENTIAL EQUATIONS	83
28.1 Course Overview	83
28.2 Curriculum Structure	84
28.3 Evaluation Methods	84
28.4 Course Outcome	84
28.5 CO – PO Mapping	85
28.6 CO – PSO Mapping	85
29 VECTOR CALCULUS, ANALYTIC GEOMETRY AND ABSTRACT ALGEBRA	86

29.1 Course Overview	86
29.2 Curriculum Structure	87
29.3 Evaluation Methods	87
29.4 Course Outcome	87
29.5 CO – PO Mapping	87
29.6 CO – PSO Mapping	88
30 FOURIER SERIES, LAPLACE TRANSFORM AND COMPLEX ANALYSIS	89
30.1 Course Overview	89
30.2 Curriculum Structure	90
30.3 Evaluation Methods	90
30.4 Course Outcome	90
30.5 CO – PO Mapping	91
30.6 CO – PSO Mapping	91
31 Abstract Algebra	92
31.1 Course Overview	92
31.2 Curriculum Structure	93
31.3 Evaluation Methods	93
31.4 Course Outcome	93
31.5 CO – PO Mapping	93
31.6 CO – PSO Mapping	94
32 Linear Algebra	95
32.1 Course Overview	95
32.2 Curriculum Structure	96
32.3 Evaluation Methods	96
32.4 Course Outcome	96
32.5 CO – PO Mapping	97
32.6 CO – PSO Mapping	97

33 Basic Topology	98
33.1 Course Overview	98
33.2 Curriculum Structure	99
33.3 Evaluation Methods	99
33.4 Course Outcome	100
33.5 CO – PO Mapping	100
33.6 CO – PSO Mapping	100
34 Real Analysis	101
34.1 Course Overview	101
34.2 Curriculum Structure	102
34.3 Evaluation Methods	102
34.4 Course Outcome	103
34.5 CO – PO Mapping	103
34.6 CO – PSO Mapping	103
35 Graph Theory	104
35.1 Course Overview	104
35.2 Curriculum Structure	105
35.3 Evaluation Methods	105
35.4 Course Outcome	105
35.5 CO – PO Mapping	106
35.6 CO – PSO Mapping	106
36 Advanced Abstract Algebra	107
36.1 Course Overview	107
36.2 Curriculum Structure	108
36.3 Evaluation Methods	108
36.4 Course Outcome	108
36.5 CO – PO Mapping	109

36.6 CO – PSO Mapping	109
37 Advanced Topology	110
37.1 Course Overview	110
37.2 Curriculum Structure	111
37.3 Evaluation Methods	111
37.4 Course Outcome	112
37.5 CO – PO Mapping	112
37.6 CO – PSO Mapping	112
38 Numerical Analysis with Python	113
38.1 Course Overview	113
38.2 Curriculum Structure	114
38.3 Evaluation Methods	114
38.4 Course Outcome	115
38.5 CO – PO Mapping	115
38.6 CO – PSO Mapping	115
39 Complex Analysis	116
39.1 Course Overview	116
39.2 Curriculum Structure	117
39.3 Evaluation Methods	117
39.4 Course Outcome	118
39.5 CO – PO Mapping	118
39.6 CO – PSO Mapping	118
40 Measure And Integration	119
40.1 Course Overview	119
40.2 Curriculum Structure	120
40.3 Evaluation Methods	120
40.4 Course Outcome	121

40.5 CO – PO Mapping	121
40.6 CO – PSO Mapping	121
41 Advanced Complex Analysis	122
41.1 Course Overview	122
41.2 Curriculum Structure	123
41.3 Evaluation Methods	123
41.4 Course Outcome	123
41.5 CO – PO Mapping	124
41.6 CO – PSO Mapping	124
42 Partial Differential Equations	125
42.1 Course Overview	125
42.2 Curriculum Structure	126
42.3 Evaluation Methods	126
42.4 Course Outcome	126
42.5 CO – PO Mapping	127
42.6 CO – PSO Mapping	127
43 Multivariate Calculus And Integral Transform	128
43.1 Course Overview	128
43.2 Curriculum Structure	129
43.3 Evaluation Methods	129
43.4 Course Outcome	130
43.5 CO – PO Mapping	130
43.6 CO – PSO Mapping	130
44 Functional Analysis	131
44.1 Course Overview	131
44.2 Curriculum Structure	132
44.3 Evaluation Methods	132

44.4 Course Outcome	132
44.5 CO – PO Mapping	133
44.6 CO – PSO Mapping	133
45 Optmization Technique	134
45.1 Course Overview	134
45.2 Curriculum Structure	135
45.3 Evaluation Methods	135
45.4 Course Outcome	135
45.5 CO – PO Mapping	136
45.6 CO – PSO Mapping	136
46 Spectral Theory	137
46.1 Course Overview	137
46.2 Curriculum Structure	138
46.3 Evaluation Methods	138
46.4 Course Outcome	139
46.5 CO – PO Mapping	139
46.6 CO – PSO Mapping	139
47 Analytic Number Theory	140
47.1 Course Overview	140
47.2 Curriculum Structure	141
47.3 Evaluation Methods	141
47.4 Course Outcome	142
47.5 CO – PO Mapping	142
47.6 CO – PSO Mapping	142
48 Differential Geometry	143
48.1 Course Overview	143
48.2 Curriculum Structure	144

48.3 Evaluation Methods	144
48.4 Course Outcome	144
48.5 CO – PO Mapping	145
48.6 CO – PSO Mapping	145
49 Algorithmic Graph Theory	146
49.1 Course Overview	146
49.2 Curriculum Structure	147
49.3 Evaluation Methods	147
49.4 Course Outcome	147
49.5 CO – PO Mapping	148
49.6 CO – PSO Mapping	148
50 Combinatorics	149
50.1 Course Overview	149
50.2 Curriculum Structure	150
50.3 Evaluation Methods	150
50.4 Course Outcome	151
50.5 CO – PO Mapping	151
50.6 CO – PSO Mapping	151

FOUNDATION OF MATHEMATICS**1.1 Course Overview**

1	Course	Core
2	Course Type	Theory
3	Course Code	MM1CRT01
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	72
9	Hours per Week	4
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 ($2 \times 5 = 10$)

1.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Basic Logic	Chalk and talk,	20
2	Set theory	Chalk and talk	12
3	Relations	Chalk and talk, ICT	20
4	Theory of Equations	Chalk and talk	20

1.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

1.4 Course Outcome

CO-1	Apply mathematical logic to practical situations for drawing conclusions and to understand method of proofs.
CO-2	Understand the basic theory of sets and to Perform set operations
CO-3	Understand relations and their properties
CO-4	Understand basic ideas of theory of equations

1.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	0	3	0	3	1	0	0	0
CO-2	2	0	0	0	2	0	0	0	0	0
CO-3	0	0	0	1	0	0	0	0	0	0
CO-4	0	0	0	2	2	0	0	0	0	0

1.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
CO-1	3	3	0	3	0
CO-2	3	0	3	0	3
CO-3	3	0	3	0	0
CO-4	2	0	0	2	0

ANALYTIC GEOMETRY, TRIGONOMETRY AND DIFFERENTIAL CALCULUS

2.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	MM2CRT02
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	72
9	Hours per Week	4
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 ($2 \times 5 = 10$)

2.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Conic Sections	Chalk and talk	22
2	Polar Co-ordinates	Chalk and talk	15
3	Trigonometry	Chalk and talk	17
4	Differential Calculus	Chalk and talk	18

2.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

2.4 Course Outcome

CO-1	Solve problems in conic sections
CO-2	Solve problems polar coordinates
CO-3	Solve trigonometrical problems
CO-4	Find nth derivative of a function

2.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	0	0	3	0	0	0	0	0	0
CO-2	0	2	0	3	0	0	0	0	0	0
CO-3	0	0	0	3	0	0	0	0	0	0
CO-4	0	0	0	3	0	0	0	0	0	2

2.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
CO-1	3	3	0	3	0
CO-2	3	0	3	0	3
CO-3	3	0	3	0	0
CO-4	2	0	0	2	0

CALCULUS**3.1 Course Overview**

1	Course	Core
2	Course Type	Theory
3	Course Code	MM3CRT03
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 ($2 \times 5 = 10$)

3.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Differential Calculus	Chalk and talk, ICT	27
2	Partial Differentiation	Chalk and talk ,ICT	18
3	Integral Calculus	Chalk and talk	20
4	Multiple Integrals	Chalk and talk	25

3.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

3.4 Course Outcome

CO-1	Solve problems using successive differentiation
CO-2	Solve problems using partial differentiation
CO-3	Integrate basic functions and find the area of a region
CO-4	Use multiple integration.

3.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	0	0	3	0	0	0	0	0	0
CO-2	0	2	0	3	0	0	0	0	0	0
CO-3	0	0	0	3	0	0	0	0	0	0
CO-4	0	0	0	3	0	0	0	0	0	2

3.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
CO-1	3	3	0	3	0
CO-2	3	0	3	0	3
CO-3	3	0	3	0	0
CO-4	2	0	0	2	0

VECTOR CALCULUS, THEORY OF NUMBERS AND LAPLACE TRANSFORM

4.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	MM4CRT04
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 ($2 \times 5 = 10$)

4.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Vector Differentiation	Chalk and talk, ICT	25
2	Vector Integration	Chalk and talk, ICT	30
3	Theory of Numbers	Chalk and talk, ICT	15
4	Laplace transforms	Chalk and talk	20

4.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

4.4 Course Outcome

CO-1	Solve problems using vector differentiation
CO-2	Solve problems using vector integration
CO-3	Understand and communicate the ideas of number theory
CO-4	Understand Laplace transform.

4.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	0	0	3	0	0	0	0	0	0
CO-2	0	2	0	3	0	0	0	0	0	0
CO-3	0	0	0	3	0	0	0	0	0	0
CO-4	0	0	0	3	0	0	0	0	0	2

4.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
CO-1	3	3	0	3	0
CO-2	3	0	3	0	3
CO-3	3	0	3	0	0
CO-4	2	0	0	2	0

MATHEMATICAL ANALYSIS

5.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	MM5CRT05
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	108
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 ($2 \times 5 = 10$)

5.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Real Numbers	Chalk and talk	30
2	Sequences	Chalk and talk	30
3	Series	Chalk and talk	24
4	Limits	Chalk and talk	24

5.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

5.4 Course Outcome

CO-1	Understand the arithmetical properties of Real Numbers
CO-2	Explain the concept of Sequences and their limits
CO-3	Explain the concept of Series and its convergence
CO-4	Demonstrate the concept of limits

5.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	3	0	0	0	0	0	0	0
CO-2	3	0	3	0	0	0	0	0	0	0
CO-3	3	0	3	0	0	0	0	0	0	0
CO-4	3	0	3	0	0	0	0	0	0	0

5.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
CO-1	3	2	3	0	0
CO-2	3	2	3	0	0
CO-3	3	2	3	0	0
CO-4	3	2	3	0	0

DIFFERENTIAL EQUATIONS

6.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	MM5CRT06
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	108
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 ($2 \times 5 = 10$)

6.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	What is a differential equation	Chalk and talk	26
2	Second order linear equations	Chalk and talk	26
3	Power Series solutions and special functions	Chalk and talk	26
4	Partial Differential equations	Chalk and talk	30

6.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

6.4 Course Outcome

CO-1	Solve first order ordinary differential equations.
CO-2	Solve second order ordinary differential equations.
CO-3	Solve ordinary differential equation using power series method.
CO-4	Understand what is a partial differential equations.

6.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	0	0	3	0	0	0	0	0	0
CO-2	0	2	0	3	0	0	0	0	0	0
CO-3	0	0	0	3	0	0	0	0	0	0
CO-4	0	0	0	3	0	0	0	0	0	2

6.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
CO-1	3	3	0	3	0
CO-2	3	0	3	0	3
CO-3	3	0	3	0	0
CO-4	2	0	0	2	0

ABSTRACT ALGEBRA**7.1 Course Overview**

1	Course	Core
2	Course Type	Theory
3	Course Code	MM5CRT07
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 ($2 \times 5 = 10$)

7.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Introduction to Groups	Chalk and talk	25
2	Permutation Group	Chalk and talk	25
3	Homomorphisms and Factor groups	Chalk and talk	20
4	Rings and Fields	Chalk and talk	20

7.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

7.4 Course Outcome

CO-1	Understand the basic properties of Groups
CO-2	Explain the concept of Permutations
CO-3	Explain the concept of homomorphism
CO-4	Demonstrate the concept of rings and Fields

7.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	2	0	0	0	0	0	0	0
CO-2	3	0	2	0	0	0	0	0	0	0
CO-3	3	0	2	0	0	0	0	0	0	0
CO-4	3	0	2	0	0	0	0	0	0	0

7.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
CO-1	3	2	3	0	0
CO-2	3	2	3	0	0
CO-3	3	2	3	0	0
CO-4	3	2	3	0	0

APPLICABLE MATHEMATICS**8.1 Course Overview**

1	Course	Open Course
2	Course Type	Theory
3	Course Code	MM5GET02
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	72
9	Hours per Week	4
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 ($2 \times 5 = 10$)

8.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Introduction to Numbers	Chalk and talk	18
2	Trigonometry	Chalk and talk, ICT	18
3	Simple Interest and Compound Interest	Chalk and talk, ICT	18
4	Introduction to Calculus	Chalk and talk, ICT	18

8.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

8.4 Course Outcome

CO-1	Understand basic mathematical concepts including HCF, LCM, fractions, percentage etc.
CO-2	Improve mathematical ability and problem solving skills
CO-3	Solve problems related to time and work , work and wages, time and distance etc. which often appears in competitive exams
CO-4	Learn shortcut methods to solve problems

8.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	1	0	0	3	0	0	0	0	0	0
CO-2	1	0	0	3	0	0	0	0	0	0
CO-3	1	0	0	3	0	0	0	0	0	0
CO-4	1	0	0	3	0	0	0	0	0	0

8.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
CO-1	1	0	0	3	0
CO-2	1	0	0	3	0
CO-3	1	0	0	3	0
CO-4	1	0	0	3	0

HUMAN RIGHTS AND MATHEMATICS FOR ENVIRONMENTAL STUDIES

9.1 Course Overview

1	Course	Environmental Maths
2	Course Type	Theory
3	Course Code	MM5CRT08
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	72
9	Hours per Week	4
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 ($2 \times 5 = 10$)

9.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Multidisciplinary nature of environmental studies	Chalk and talk, ICT	18
2	Biodiversity and its conservation	Chalk and talk, ICT	26
3	Fibonacci Numbers in nature	Chalk and talk, ICT	10
4	Golden Ratio	Chalk and talk, ICT	10
5	Human rights	Null	8

9.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

9.4 Course Outcome

CO-1	Acquire knowledge and skills to address various environmental issues and learn to appreciate and value nature
CO-2	understand Fibonacci numbers and their significance in nature and solve related problems
CO-3	Grasp deep knowledge about golden ratio and its pervasive appearance throughout nature
CO-4	Be aware about human rights and it strengthens their ability to contribute to the resolution of human rights issues and problems

9.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	3	0	3	0	0	0	2	0	0
CO-2	0	3	2	3	0	0	0	0	0	0
CO-3	0	3	2	3	0	0	0	0	0	0
CO-4	0	0	0	0	0	3	0	2	0	0

9.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
CO-1	3	2	3	0	0
CO-2	3	2	3	0	0
CO-3	3	2	3	0	0
CO-4	3	2	3	0	0

REAL ANALYSIS

10.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	MM6CRT09
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 ($2 \times 5 = 10$)

10.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Continuous Functions	Chalk and talk	30
2	Differentiation	Chalk and talk	24
3	The Reimann Integral	Chalk and talk	24
4	Sequences and Series of Functions	Chalk and talk	24

10.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

10.4 Course Outcome

CO-1	Understand the basic properties of Continuous functions
CO-2	Explain the concept of differentiation
CO-3	Explain the concept of Riemann Integral
CO-4	Demonstrate the concept of sequence and series of functions

10.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	2	0	0	0	0	0	0	0
CO-2	3	0	2	0	0	0	0	0	0	0
CO-3	3	0	2	0	0	0	0	0	0	0
CO-4	3	0	2	0	0	0	0	0	0	0

10.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
CO-1	3	2	3	0	0
CO-2	3	2	3	0	0
CO-3	3	2	3	0	0
CO-4	3	2	3	0	0

GRAPH THEORY AND METRIC SPACES**11.1 Course Overview**

1	Course	Core
2	Course Type	Theory
3	Course Code	MM6CRT10
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	108
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 ($2 \times 5 = 10$)

11.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Graph Theory	Chalk and talk, ICT	36
2	Graph Theory	Chalk and talk, ICT	30
3	Metric Spaces	Chalk and talk, ICT	24
4	Metric Spaces	Chalk and talk	18

11.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

11.4 Course Outcome

CO-1	Understand the basic properties of Analytic functions
CO-2	Explain the concept of complex integration
CO-3	Explain the concept of complex number series
CO-4	Demonstrate the concept of residues and poles

11.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	2	0	0	0	0	0	0	0
CO-2	3	0	2	0	0	0	0	0	0	0
CO-3	3	0	2	0	0	0	0	0	0	0
CO-4	3	0	2	0	0	0	0	0	0	0

11.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
CO-1	3	2	3	0	0
CO-2	3	2	3	0	0
CO-3	3	2	3	0	0
CO-4	3	2	3	0	0

COMPLEX ANALYSIS**12.1 Course Overview**

1	Course	Core
2	Course Type	Theory
3	Course Code	MM6CRT11
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

12.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Analytic functions	Chalk and talk	32
2	Integrals	Chalk and talk	25
3	Series	Chalk and talk	15
4	Residues and poles	Chalk and talk	18

12.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

12.4 Course Outcome

CO-1	Understand fundamentals of graph theory.
CO-2	Understand the ideas of Eulerian and Hamiltonian graphs.
CO-3	Understand fundamentals of Metric spaces.
CO-4	Understand fundamentals of Covergence and completeness.

12.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	0	3	0	0	1	0	0	3
CO-2	3	0	0	3	0	0	1	0	0	3
CO-3	3	0	0	3	0	0	1	0	0	3
CO-4	3	0	0	3	0	0	1	0	0	3

12.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
CO-1	3	0	2	0	0
CO-2	3	0	2	0	0
CO-3	3	0	2	0	0
CO-4	3	0	2	0	0

LINEAR ALGEBRA**13.1 Course Overview**

1	Course	Core
2	Course Type	Theory
3	Course Code	MM6CRT12
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 ($2 \times 5 = 10$)

13.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Introduction to Matrices	Chalk and talk	25
2	Vector Spaces	Chalk and talk	25
3	Null	Chalk and talk	20
4	Null	Chalk and talk	20

13.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

13.4 Course Outcome

CO-1	Understand and communicate algebraic techniques.
CO-2	Find inverse of a matrix and subspaces of a vector spaces.
CO-3	Use the idea of linear transformation ideas for solving a problem
CO-4	Find Eigen values of different matrices and solve eigen value problems.

13.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	0	0	3	0	0	0	0	0	0
CO-2	0	2	0	3	0	0	0	0	0	0
CO-3	0	0	0	3	0	0	0	0	0	0
CO-4	0	0	0	3	0	0	0	0	0	2

13.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
CO-1	3	3	0	3	0
CO-2	3	0	3	0	3
CO-3	3	0	3	0	0
CO-4	2	0	0	2	0

BASIC PYTHON PROGRAMMING AND TYPESETTING IN LATEX

14.1 Course Overview

1	Course	Choice Based Course
2	Course Type	Theory
3	Course Code	MM6CBT02
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	72
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 ($2 \times 5 = 10$)

14.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Beginning Python Programming	Chalk and talk	16
2	Advanced features	Chalk and talk	20
3	Beginning typesetting with using LaTeX	Chalk and talk	16
4	Typesetting Mathematics	Chalk and talk	20

14.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

14.4 Course Outcome

CO-1	Understand Basics Python Programming.
CO-2	Understand advanced features of Python Programming.
CO-3	Learn Latex type setting.
CO-4	Learn Latex Math type setting .

14.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	0	0	0	0	1	0	0	3
CO-2	3	0	0	0	0	0	1	0	0	3
CO-3	3	0	0	0	0	0	1	0	0	3
CO-4	3	0	0	0	0	0	1	0	0	3

14.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
CO-1	0	0	0	3	0
CO-2	0	0	0	3	0
CO-3	0	0	0	3	0
CO-4	0	0	0	3	0

LINEAR PROGRAMMING**15.1 Course Overview**

1	Course	Complementary
2	Course Type	Theory
3	Course Code	MM1CCT01
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	54
9	Hours per Week	3
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 ($2 \times 5 = 10$)

15.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Mathematical Preliminaries	Chalk and talk	15
2	General Problem of Mathematical Programming	Chalk and talk	12
3	Linear programming	Chalk and talk	10
4	Linear programming(Cont.)	Chalk and talk	17

15.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

15.4 Course Outcome

CO-1	Understand the abstract concept of Vector Space ,Matrix Operations, the basic theory convex sets
CO-2	Understand the concept of Quadratic forms
CO-3	Understand and apply Optimaztion problems
CO-4	Understand method of solving Optimaztion problems

15.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	2	3	0	0	0	0	0	0	0
CO-2	2	0	2	0	0	2	0	0	0	0
CO-3	3	3	0	2	0	0	0	0	0	0
CO-4	3	3	0	0	0	0	0	0	0	2

15.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
CO-1	3	3	0	3	0
CO-2	3	0	0	3	0
CO-3	0	3	3	3	0
CO-4	2	0	0	3	0

DUALITY,TRANSPORTATION AND ASSIGNMENT PROBLEM

16.1 Course Overview

1	Course	Complementary
2	Course Type	Theory
3	Course Code	MM2CCT02
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	54
9	Hours per Week	3
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 (2 × 5 = 10)

16.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Linear Programming	Chalk and talk	15
2	Transportation Problems	Chalk and talk	10
3	Looping Transportation	Chalk and talk	15
4	Assignment Problems	Chalk and talk	14

16.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

16.4 Course Outcome

CO-1	Find dual of an LPP and to solve an LPP
CO-2	Understand fundamentals of Transportation problem
CO-3	Solve transportation problem
CO-4	Understand and solve assignment problem

16.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	2	0	2	0	0	0	0	0	2
CO-2	0	2	0	2	0	0	0	0	0	2
CO-3	0	2	0	2	0	0	0	0	0	2
CO-4	0	2	0	2	0	0	0	0	0	2

16.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
CO-1	0	0	0	0	3
CO-2	0	0	0	0	3
CO-3	0	0	0	0	3
CO-4	0	0	0	0	3

QUEUEING THEORY

17.1 Course Overview

1	Course	Complementary
2	Course Type	Theory
3	Course Code	MM3CCT03
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	54
9	Hours per Week	3
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 ($2 \times 5 = 10$)

17.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Theory of Games	Chalk and talk	16
2	Project Management PERT and CPM	Chalk and talk	10
3	Project Management PERT and CPM(Cont.)	Chalk and talk	14
4	Queuing Theory	Chalk and talk	14

17.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

17.4 Course Outcome

CO-1	Realize the concept of game theory and learn different methods to solve a problem of it.
CO-2	Understand the fundamentals of Project Management
CO-3	Familiarize the methods of CPM and PERT
CO-4	Recognize basic ideas of Queuing Theory and know different models

17.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	2	0	2	0	0	0	0	0	2
CO-2	0	2	0	2	0	0	0	0	0	2
CO-3	0	2	0	2	0	0	0	0	0	2
CO-4	0	2	0	2	0	0	0	0	0	2

17.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
CO-1	0	0	0	0	3
CO-2	0	0	0	0	3
CO-3	0	0	0	0	3
CO-4	0	0	0	0	3

NONLINEAR PROGRAMMING**18.1 Course Overview**

1	Course	Complementary
2	Course Type	Theory
3	Course Code	MM4CCT04
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	54
9	Hours per Week	3
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 ($2 \times 5 = 10$)

18.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Integer Programming	Chalk and talk	13
2	Branch and Bound Method	Chalk and talk	14
3	Kuhn-Tucker Theory and Non Linear Programming	Chalk and talk	15
4	Kuhn-Tucker Theory and Non Linear Programming (Cont.)	Chalk and talk	12

18.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

18.4 Course Outcome

CO-1	Realize the concept of game theory and learn different methods to solve a problem of it.
CO-2	Understand the fundamentals of Project Management
CO-3	Familiarize the methods of CPM and PERT
CO-4	Recognize basic ideas of Queuing Theory and know different models

18.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	2	0	2	0	0	0	0	0	2
CO-2	0	2	0	2	0	0	0	0	0	2
CO-3	0	2	0	2	0	0	0	0	0	2
CO-4	0	2	0	2	0	0	0	0	0	2

18.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
CO-1	0	0	0	0	3
CO-2	0	0	0	0	3
CO-3	0	0	0	0	3
CO-4	0	0	0	0	3

PARTIAL DIFFERENTIATION, MATRICES, T

AND NUMERICAL METHODS

19.1 Course Overview

1	Course	Complementary
2	Course Type	Theory
3	Course Code	MM1CMT01
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	72
9	Hours per Week	4
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 ($2 \times 5 = 10$)

19.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	PartialDifferentiation	Chalk and talk	14
2	Matrices	Chalk and talk	21
3	Trigonometry	Chalk and talk	23
4	NumericalMethods	Chalk and talk	14

19.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

19.4 Course Outcome

CO-1	Find partial derivative
CO-2	Find rank of a matrix , eigen values and eigen vectors and to solve simultaneous system of equations.
CO-3	Understand basic ideas of trigonometry
CO-4	apply numerical methods to determine roots of an equation

19.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	0	2	0	0	0	0	0	0
CO-2	0	0	0	2	0	0	0	0	0	0
CO-3	0	0	0	2	0	0	0	0	0	0
CO-4	0	0	0	2	0	0	0	0	0	0

19.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	0	3	0	0	0
CO-2	0	0	3	0	0	0
CO-3	0	0	3	0	0	0
CO-4	0	0	3	0	0	0

INTEGRAL CALCULUS AND DIFFERENTIAL EQUATIONS

20.1 Course Overview

1	Course	Complementary
2	Course Type	Theory
3	Course Code	MM2CMT02
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	72
9	Hours per Week	4
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 ($2 \times 5 = 10$)

20.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Integral Calculus	Chalk and talk	15
2	Multiple Integrals	Chalk and talk	17
3	Ordinary Differential Equations	Chalk and talk	20
4	Partial Differential Equations	Chalk and talk	20

20.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

20.4 Course Outcome

CO-1	Find volume and surface area using integration
CO-2	Evaluate double and triple integrals and apply it for finding area and volume.
CO-3	Solve ordinary differential equation of first order and first degree.
CO-4	Solve partial differential equation

20.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	0	3	0	0	0	0	0	0
CO-2	0	0	0	3	0	0	0	0	0	0
CO-3	0	0	0	3	0	0	0	0	0	0
CO-4	0	0	0	3	0	0	0	0	0	0

20.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	0	3	0	0	0
CO-2	0	0	3	0	0	0
CO-3	0	0	3	0	0	0
CO-4	0	0	3	0	0	0

VECTOR CALCULUS, ANALYTIC GEOMETRY AND ABSTRACT ALGEBRA

21.1 Course Overview

1	Course	Complementary
2	Course Type	Theory
3	Course Code	MM3CMT03
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 ($2 \times 5 = 10$)

21.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Vector valued Functions	Chalk and talk	15
2	Integration in Vector Fields	Chalk and talk	25
3	Analytic Geometry	Chalk and talk	25
4	Abstract algebra	Chalk and talk	25

21.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

21.4 Course Outcome

CO-1	Demonstrate the idea of vector differentiation.
CO-2	Apply vector integration.
CO-3	Explain basic ideas of analytic geometry.
CO-4	Demonstrate the fundamentals of abstract algebra.

21.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	0	3	0	0	0	0	0	0
CO-2	0	0	0	3	0	0	0	0	0	0
CO-3	0	0	0	3	0	0	0	0	0	0
CO-4	0	0	0	3	0	0	0	0	0	0

21.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	0	3	0	0	0
CO-2	0	0	3	0	0	0
CO-3	0	0	3	0	0	0
CO-4	0	0	3	0	0	0

FOURIER SERIES, LAPLACE TRANSFORM AND COMPLEX ANALYSIS

22.1 Course Overview

1	Course	Complementary
2	Course Type	Theory
3	Course Code	MM4CMT04
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 ($2 \times 5 = 10$)

22.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Fourier Series and Legendre Polynomials	Chalk and talk	25
2	Laplace Transforms	Chalk and talk	20
3	Complex Numbers and Functions	Chalk and talk	25
4	Complex Integration	Chalk and talk	20

22.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

22.4 Course Outcome

CO-1	Find fourier series expansions
CO-2	Solve problems in Laplace Transform.
CO-3	Demonstrate the basics of complex numbers
CO-4	Apply complex integration.

22.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	0	3	0	0	0	0	0	0
CO-2	0	0	0	3	0	0	0	0	0	0
CO-3	0	0	0	3	0	0	0	0	0	0
CO-4	0	0	0	3	0	0	0	0	0	0

22.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	0	3	0	0	0
CO-2	0	0	3	0	0	0
CO-3	0	0	3	0	0	0
CO-4	0	0	3	0	0	0

PARTIAL DIFFERENTIATION, MATRICES, T

AND NUMERICAL METHODS

23.1 Course Overview

1	Course	Complementary
2	Course Type	Theory
3	Course Code	MM1CMT01
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 ($2 \times 5 = 10$)

23.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	PartialDifferentiation	Chalk and talk	23
2	Matrices	Chalk and talk	21
3	Trigonometry	Chalk and talk	23
4	NumericalMethods	Chalk and talk	23

23.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

23.4 Course Outcome

CO-1	Find partial derivative
CO-2	Find rank of a matrix , eigen values and eigen vectors and to solve simultaneous system of equations.
CO-3	Understand basic ideas of trigonometry
CO-4	apply numerical methods to determine roots of an equation

23.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	0	2	0	0	0	0	0	0
CO-2	0	0	0	2	0	0	0	0	0	0
CO-3	0	0	0	2	0	0	0	0	0	0
CO-4	0	0	0	2	0	0	0	0	0	0

23.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	2	0	0	3	0
CO-2	0	2	0	0	3	0
CO-3	0	2	0	0	3	0
CO-4	0	2	0	0	3	0

INTEGRAL CALCULUS AND DIFFERENTIAL EQUATIONS

24.1 Course Overview

1	Course	Complementary
2	Course Type	Theory
3	Course Code	MM2CMT02
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 ($2 \times 5 = 10$)

24.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Integral Calculus	Chalk and talk	18
2	Multiple Integrals	Chalk and talk	20
3	Ordinary Differential Equations	Chalk and talk	26
4	Partial Differential Equations	Chalk and talk	26

24.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

24.4 Course Outcome

CO-1	Find volume and surface area using integration
CO-2	Evaluate double and triple integrals and apply it for finding area and volume.
CO-3	Solve ordinary differential equation of first order and first degree.
CO-4	Solve partial differential equation

24.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	0	3	0	0	0	0	0	0
CO-2	0	0	0	3	0	0	0	0	0	0
CO-3	0	0	0	3	0	0	0	0	0	0
CO-4	0	0	0	3	0	0	0	0	0	0

24.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	2	0	0	3	0
CO-2	0	2	0	0	3	0
CO-3	0	2	0	0	3	0
CO-4	0	2	0	0	3	0

VECTOR CALCULUS, ANALYTIC GEOMETRY AND ABSTRACT ALGEBRA

25.1 Course Overview

1	Course	Complementary
2	Course Type	Theory
3	Course Code	MM3CMT03
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 ($2 \times 5 = 10$)

25.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Vector valued Functions	Chalk and talk	15
2	Integration in Vector Fields	Chalk and talk	25
3	Analytic Geometry	Chalk and talk	25
4	Abstract algebra	Chalk and talk	25

25.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

25.4 Course Outcome

CO-1	Demonstrate the idea of vector differentiation.
CO-2	Apply vector integration.
CO-3	Explain basic ideas of analytic geometry.
CO-4	Demonstrate the fundamentals of abstract algebra.

25.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	0	3	0	0	0	0	0	0
CO-2	0	0	0	3	0	0	0	0	0	0
CO-3	0	0	0	3	0	0	0	0	0	0
CO-4	0	0	0	3	0	0	0	0	0	0

25.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	2	0	0	3	0
CO-2	0	2	0	0	3	0
CO-3	0	2	0	0	3	0
CO-4	0	2	0	0	3	0

FOURIER SERIES, LAPLACE TRANSFORM AND COMPLEX ANALYSIS

26.1 Course Overview

1	Course	Complementary
2	Course Type	Theory
3	Course Code	MM4CMT04
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 ($2 \times 5 = 10$)

26.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Fourier Series and Legendre Polynomials	Chalk and talk	25
2	Laplace Transforms	Chalk and talk	20
3	Complex Numbers and Functions	Chalk and talk	25
4	Complex Integration	Chalk and talk	20

26.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

26.4 Course Outcome

CO-1	Find fourier series expansions
CO-2	Solve problems in Laplace Transform.
CO-3	Demonstrate the basics of complex numbers
CO-4	Apply complex integration.

26.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	0	3	0	0	0	0	0	0
CO-2	0	0	0	3	0	0	0	0	0	0
CO-3	0	0	0	3	0	0	0	0	0	0
CO-4	0	0	0	3	0	0	0	0	0	0

26.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	2	0	0	3	0
CO-2	0	2	0	0	3	0
CO-3	0	2	0	0	3	0
CO-4	0	2	0	0	3	0

PARTIAL DIFFERENTIATION, MATRICES, T

AND NUMERICAL METHODS

27.1 Course Overview

1	Course	Complementary
2	Course Type	Theory
3	Course Code	MM1CMT01
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 ($2 \times 5 = 10$)

27.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	PartialDifferentiation	Chalk and talk	23
2	Matrices	Chalk and talk	21
3	Trigonometry	Chalk and talk	23
4	NumericalMethods	Chalk and talk	23

27.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

27.4 Course Outcome

CO-1	Find partial derivative
CO-2	Find rank of a matrix , eigen values and eigen vectors and to solve simultaneous system of equations.
CO-3	Understand basic ideas of trigonometry
CO-4	apply numerical methods to determine roots of an equation

27.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	0	2	0	0	0	0	0	0
CO-2	0	0	0	2	0	0	0	0	0	0
CO-3	0	0	0	2	0	0	0	0	0	0
CO-4	0	0	0	2	0	0	0	0	0	0

27.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	0	3	0	0	0
CO-2	0	0	3	0	0	0
CO-3	0	0	3	0	0	0
CO-4	0	0	3	0	0	0

INTEGRAL CALCULUS AND DIFFERENTIAL EQUATIONS

28.1 Course Overview

1	Course	Complementary
2	Course Type	Theory
3	Course Code	MM2CMT02
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 ($2 \times 5 = 10$)

28.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Integral Calculus	Chalk and talk	18
2	Multiple Integrals	Chalk and talk	20
3	Ordinary Differential Equations	Chalk and talk	26
4	Partial Differential Equations	Chalk and talk	26

28.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

28.4 Course Outcome

CO-1	Find volume and surface area using integration
CO-2	Evaluate double and triple integrals and apply it for finding area and volume.
CO-3	Solve ordinary differential equation of first order and first degree.
CO-4	Solve partial differential equation

28.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	0	3	0	0	0	0	0	0
CO-2	0	0	0	3	0	0	0	0	0	0
CO-3	0	0	0	3	0	0	0	0	0	0
CO-4	0	0	0	3	0	0	0	0	0	0

28.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	0	3	0	0	0
CO-2	0	0	3	0	0	0
CO-3	0	0	3	0	0	0
CO-4	0	0	3	0	0	0

VECTOR CALCULUS, ANALYTIC GEOMETRY AND ABSTRACT ALGEBRA

29.1 Course Overview

1	Course	Complementary
2	Course Type	Theory
3	Course Code	MM3CMT03
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 ($2 \times 5 = 10$)

29.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Vector valued Functions	Chalk and talk	15
2	Integration in Vector Fields	Chalk and talk	25
3	Analytic Geometry	Chalk and talk	25
4	Abstract algebra	Chalk and talk	25

29.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

29.4 Course Outcome

CO-1	Demonstrate the idea of vector differentiation.
CO-2	Apply vector integration.
CO-3	Explain basic ideas of analytic geometry.
CO-4	Demonstrate the fundamentals of abstract algebra.

29.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	0	3	0	0	0	0	0	0
CO-2	0	0	0	3	0	0	0	0	0	0
CO-3	0	0	0	3	0	0	0	0	0	0
CO-4	0	0	0	3	0	0	0	0	0	0

29.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	0	3	0	0	0
CO-2	0	0	3	0	0	0
CO-3	0	0	3	0	0	0
CO-4	0	0	3	0	0	0

FOURIER SERIES, LAPLACE TRANSFORM AND COMPLEX ANALYSIS

30.1 Course Overview

1	Course	Complementary
2	Course Type	Theory
3	Course Code	MM4CMT04
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 ($2 \times 5 = 10$)

30.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Fourier Series and Legendre Polynomials	Chalk and talk	25
2	Laplace Transforms	Chalk and talk	20
3	Complex Numbers and Functions	Chalk and talk	25
4	Complex Integration	Chalk and talk	20

30.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

30.4 Course Outcome

CO-1	Find fourier series expansions
CO-2	Solve problems in Laplace Transform.
CO-3	Demonstrate the basics of complex numbers
CO-4	Apply complex integration

30.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	0	3	0	0	0	0	0	0
CO-2	0	0	0	3	0	0	0	0	0	0
CO-3	0	0	0	3	0	0	0	0	0	0
CO-4	0	0	0	3	0	0	0	0	0	0

30.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	0	3	0	0	0
CO-2	0	0	3	0	0	0
CO-3	0	0	3	0	0	0
CO-4	0	0	3	0	0	0

Abstract Algebra

31.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	ME010101
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	150
7	Internal Assessment	25
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 ($0 \times 0 = 0$)

31.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Groups	Chalk and talk	25
2	Sylow Theorems	Chalk and talk	25
3	Ring Of Polynomials	Chalk and talk	20
4	Factor Rings	Chalk and talk	20

31.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

31.4 Course Outcome

CO-1	Understand the basic concepts of abstract algebra deeply
CO-2	Be able to use algebraic theories practically to build problem solving skill
CO-3	Have strong foundation in field theory
CO-4	Be able to understand ring theory practically

31.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	0	0	0	0	3	0	0	0
CO-2	3	0	0	0	0	0	0	0	0	0
CO-3	3	0	3	0	0	0	3	0	0	0
CO-4	3	0	3	0	0	0	3	0	0	0

31.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
CO-1	3	3	0	0	0
CO-2	3	3	0	0	0
CO-3	3	3	3	0	3
CO-4	3	3	3	2	3

Linear Algebra

32.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	ME010102
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	150
7	Internal Assessment	25
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

32.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Vector Space	Chalk and talk	20
2	Linear Transformatios	Chalk and talk	25
3	Determinants	Chalk and talk	20
4	Diagonalization	Chalk and talk	25

32.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

32.4 Course Outcome

CO-1	Define basic definitions and examples.
CO-2	Study a system of linear equations or matrix algebra
CO-3	Solve the advanced problems in linear algebra and efficient to attend the competitive exams for further studies.
CO-4	Model the given problems and convey the ideas interms of linear algebra

32.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	0	0	0	0	0	0	0	0
CO-2	0	0	0	0	0	0	0	0	0	0
CO-3	1	0	0	0	0	0	0	0	0	0
CO-4	0	0	2	0	2	0	0	0	0	0

32.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
CO-1	3	0	0	0	0
CO-2	0	0	0	0	0
CO-3	0	3	0	2	1
CO-4	0	0	0	0	0

Basic Topology

33.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	ME010103
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	150
7	Internal Assessment	25
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

33.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Topological Spaces	Chalk and talk	25
2	Basic Concepts	Chalk and talk	25
3	Spaces With Special Properties	Chalk and talk	20
4	Spaces With Special Properties	Chalk and talk	20

33.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

33.4 Course Outcome

CO-1	understand basic definitions, examples and theorems in general topology.
CO-2	Do the exercises and complete simple proofs.
CO-3	Understand connected spaces, compact spaces and illustrate the concepts diagrammatically, relate the ideas with practical problems
CO-4	Understand separation axioms and refer appropriate text for further study.

33.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	0	0	0	0	0	0	0	0
CO-2	0	0	0	1	0	0	0	0	0	0
CO-3	0	0	0	0	0	0	0	0	0	0
CO-4	0	0	3	0	0	0	0	0	0	0

33.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
CO-1	3	0	0	0	0
CO-2	3	3	0	0	0
CO-3	0	0	0	0	0
CO-4	0	2	0	1	0

Real Analysis

34.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	ME010104
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	150
7	Internal Assessment	25
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

34.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Functions of Bounded Variation And Rectifiable Curves	Chalk and talk	20
2	The Riemann Stieltjes Integral	Chalk and talk	20
3	Sequence And Series Of Functions	Chalk and talk	25
4	Weierstrass Approximation And Some Special Functions	Chalk and talk	25

34.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

34.4 Course Outcome

CO-1	understand basic analytic concepts such as limit, convergence ,differentiation and integration.
CO-2	Think, analyse mathematical situations and solve problems in real analysis
CO-3	Have enough ideas for further research in integral calculus
CO-4	identify the applications of real analysis in other scientific branches

34.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	3	0	0	0	2	0	0	2
CO-2	3	2	3	3	0	0	2	0	0	0
CO-3	0	0	3	0	0	0	3	0	0	0
CO-4	0	3	0	0	0	0	0	0	0	0

34.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
CO-1	3	2	1	3	2
CO-2	2	3	2	2	3
CO-3	1	2	0	3	3
CO-4	0	3	2	0	3

Graph Theory

35.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	ME010105
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	150
7	Internal Assessment	25
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

35.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Graph Basic Concepts	Chalk and talk	20
2	Connectivity	Chalk and talk	25
3	Eulerian And Hamiltonian Graphs	Chalk and talk	20
4	Planarity	Chalk and talk	25

35.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

35.4 Course Outcome

CO-1	understand and transact fundamental concepts of a graph theory
CO-2	Enhancing knowledge to apply graph theory in solving practical problems
CO-3	Acquire efficiency in logical thinking and writing proofs
CO-4	connect graph theory with real life situations

35.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	2	2	0	0	0	0	0	0	2
CO-2	3	3	3	3	1	0	0	0	0	0
CO-3	3	0	3	0	0	0	2	0	0	3
CO-4	0	2	2	2	1	0	3	0	0	3

35.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
CO-1	3	3	0	3	0
CO-2	2	3	1	2	2
CO-3	3	2	0	3	3
CO-4	0	2	3	0	2

Advanced Abstract Algebra

36.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	ME010201
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	150
7	Internal Assessment	25
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 ($0 \times 0 = 0$)

36.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Extention Field	Chalk and talk	20
2	UFD	Chalk and talk	20
3	Automorphism Of Fields	Chalk and talk	25
4	Separable Extentions	Chalk and talk	25

36.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

36.4 Course Outcome

CO-1	Have strong foundation in the concepts of extension fields
CO-2	Be able to understand the importance of euclidean domains effectively
CO-3	Be able to understand the properties of extension fields through further clarifications and examples
CO-4	Build positive approach towards research by understanding the importance of Galois theory

36.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	3	0	0	0	3	0	0	0
CO-2	0	0	3	2	0	0	3	0	0	0
CO-3	0	0	3	3	0	0	3	0	0	0
CO-4	0	0	3	0	0	0	3	0	0	0

36.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
CO-1	3	3	0	0	3
CO-2	3	3	2	0	3
CO-3	3	3	3	0	3
CO-4	3	3	3	0	3

Advanced Topology

37.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	ME010202
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	150
7	Internal Assessment	25
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

37.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Seperation Axioms	Chalk and talk	20
2	Product And Coproduct	Chalk and talk	25
3	Embedding And Metrisation	Chalk and talk	25
4	Definition and Convergence of Nets	Chalk and talk	20

37.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

37.4 Course Outcome

CO-1	Understand advanced topics and prove well known theorems in topology
CO-2	Can workout given problems and develop proofs of required theorems
CO-3	Find out continuation in topics and develop new ideas for research
CO-4	Communicate the ideas and results effectively for the audience

37.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	2	2	0	0	0	0	0	0	2
CO-2	3	3	3	3	1	0	0	0	0	0
CO-3	3	-	3	0	0	0	2	0	0	3
CO-4	0	2	2	2	3	0	3	0	0	3

37.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
CO-1	3	3	0	3	0
CO-2	2	3	1	2	2
CO-3	3	2	0	3	3
CO-4	0	2	3	0	1

Numerical Analysis with Python

38.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	ME010203
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	150
7	Internal Assessment	25
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

38.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Basics of Python	Chalk and talk, ICT	20
2	Limit of Functions	Chalk and talk, ICT	25
3	Interpolation And Curve Fitting	Chalk and talk, ICT	25
4	Gauss Elimination Method	Chalk and talk, ICT	20

38.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

38.4 Course Outcome

CO-1	program the numerical methods using python codes that output the numerical solutions at the required degree and accuracy
CO-2	do python programming and understand its applications in modern mathematics streams
CO-3	Acquire interest and confidence in learning this new subject
CO-4	define python concepts, programs and perform research in conjunction with others as well as individually for each students

38.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	3	3	3	0	0	2	0	0	2
CO-2	3	0	2	2	0	0	0	0	0	2
CO-3	2	0	2	0	0	0	3	0	0	2
CO-4	0	0	3	2	0	0	3	0	0	3

38.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
CO-1	2	3	3	2	2
CO-2	2	3	3	2	2
CO-3	0	2	2	1	2
CO-4	0	2	2	2	2

Complex Analysis**39.1 Course Overview**

1	Course	Core
2	Course Type	Theory
3	Course Code	ME010204
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	150
7	Internal Assessment	25
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

39.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Spherica Representation Of Complex Numbers	Chalk and talk	25
2	Fundamental Theorems on Complex Integration	Chalk and talk	20
3	Higher Derivatives	Chalk and talk	20
4	The General Form Of Cauchy's Theorem	Chalk and talk	25

39.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

39.4 Course Outcome

CO-1	Understand the spherical properties and related concepts of complex numbers deeply
CO-2	Build strong Mathematical knowledge about arcs.
CO-3	Create problem solving skill by understanding the importance of higher derivatives.
CO-4	Be able to perform competitive exams and build positive approach towards research .

39.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	3	0	0	0	3	0	0	0
CO-2	0	0	3	2	0	0	3	0	0	0
CO-3	0	0	3	3	0	0	3	0	0	0
CO-4	0	0	3	0	0	0	3	0	0	0

39.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
CO-1	3	3	0	0	3
CO-2	3	3	2	0	3
CO-3	3	3	3	0	3
CO-4	3	3	3	0	3

Measure And Integration

40.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	ME010205
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	150
7	Internal Assessment	25
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

40.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Lebsegue Measure	Chalk and talk	25
2	Lebesgue Integration	Chalk and talk	25
3	General Measure Space And Measurable Functions	Chalk and talk	20
4	Integration Over General Measure Space And Product Measures	Chalk and talk	20

40.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

40.4 Course Outcome

CO-1	Understand the evolution of measure and related concepts, basic definitions ,theorems and wellknown examples.
CO-2	Understand lebesgue integral and prove known theorems
CO-3	Understand abstract measure and concept of integration and solve related problems
CO-4	Prove celebrated theorems in general measure theory and find advanced concepts in measure theory.

40.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	0	0	0	0	0	0	0	0
CO-2	0	0	1	1	0	0	0	0	0	0
CO-3	0	0	0	2	0	0	0	0	0	0
CO-4	1	0	2	0	0	0	0	0	0	0

40.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
CO-1	3	2	0	0	0
CO-2	0	0	0	0	0
CO-3	3	2	0	0	2
CO-4	0	0	0	2	0

Advanced Complex Analysis

41.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	ME010301
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	150
7	Internal Assessment	25
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

41.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Harmonic Function	Chalk and talk	20
2	Power Series Expansions	Chalk and talk	25
3	Riemann Zeta Function	Chalk and talk	25
4	The Riemann Mapping Theorem	Chalk and talk	20

41.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

41.4 Course Outcome

CO-1	Explain the fundamental concepts of complex analysis
CO-2	Explain the concepts, state and prove theorems from complex analysis.
CO-3	Acquire the ability to solve problems using complex analysis techniques.
CO-4	Apply complex analysis techniques to specific research areas.

41.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	0	3	3	0	0	0	0	0
CO-2	0	0	2	3	3	0	0	0	0	0
CO-3	0	0	0	3	0	0	0	0	0	0
CO-4	0	0	3	3	0	0	0	0	0	0

41.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
CO-1	3	2	0	2	0
CO-2	3	3	0	3	2
CO-3	0	3	0	0	0
CO-4	0	0	0	0	3

Partial Differential Equations

42.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	ME010302
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	150
7	Internal Assessment	25
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

42.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Solutions Of Pde	Chalk and talk	20
2	Linear Equation Of First Order	Chalk and talk	25
3	Jacobi's Method	Chalk and talk	20
4	Separation Of Variables	Chalk and talk	25

42.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

42.4 Course Outcome

CO-1	understand basic concepts of partial differential equation
CO-2	identify different types of partial differential equations and their methods of solving
CO-3	Acquire problem solving skills
CO-4	identify partial differential equations in different branches of science and enhance positive attitudes towards researches in this field

42.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	0	3	3	0	0	3	0	0	0
CO-2	3	0	0	3	0	0	0	0	0	0
CO-3	2	0	0	3	0	0	0	0	0	0
CO-4	2	2	0	2	0	0	3	0	0	3

42.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
CO-1	0	2	0	3	0
CO-2	2	2	0	3	2
CO-3	0	3	0	2	0
CO-4	3	3	3	3	3

Multivariate Calculus And Integral Transform

43.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	ME010303
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	150
7	Internal Assessment	25
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

43.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Weirstrass Theorem	Chalk and talk	20
2	Multivariable Differential Calculus	Chalk and talk	22
3	Mixed Partial Derivatives	Chalk and talk	28
4	Intgration Of Differential Forms	Chalk and talk	20

43.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

43.4 Course Outcome

CO-1	Have much knowledge in integral theory to perform further researches.
CO-2	differentiate multivariable functions and have basic knowledge in multivariable differentiation to workout problems.
CO-3	Prove well known theorems in differential calculus in terms of multivariable functions.
CO-4	Know the basic concepts of multivariable integration.

43.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	2	0	0	0	0	0	0	0
CO-2	1	0	0	2	0	0	0	0	0	2
CO-3	0	0	0	0	0	0	0	0	0	0
CO-4	0	0	0	1	0	0	0	0	0	0

43.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
CO-1	0	0	0	0	3
CO-2	3	2	0	0	0
CO-3	0	0	0	0	0
CO-4	0	0	0	2	2

Functional Analysis

44.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	ME010304
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	150
7	Internal Assessment	25
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

44.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Completion Theorem	Chalk and talk	20
2	Linear Operators	Chalk and talk	25
3	Inner Product Spaces	Chalk and talk	25
4	Hilbert Space	Chalk and talk	20

44.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

44.4 Course Outcome

CO-1	Understand normed spaces and relative concepts effectively.
CO-2	Be familiar with linear operators Functionals and dual spaces .
CO-3	Be able to understand the importance of inner product space .
CO-4	Build problem solving skill by understanding adjoint operators .

44.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	3	0	0	0	3	0	0	0
CO-2	0	0	3	2	0	0	3	0	0	0
CO-3	0	0	3	3	0	0	3	0	0	0
CO-4	0	0	3	0	0	0	3	0	0	0

44.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
CO-1	3	3	0	0	3
CO-2	3	3	2	0	3
CO-3	3	3	3	0	3
CO-4	3	3	3	0	3

Optmization Technique

45.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	ME010305
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	150
7	Internal Assessment	25
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

45.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Linear Programming	Chalk and talk	25
2	Integer Programming	Chalk and talk	25
3	Goal Programming And Flow and Potential in Networks	Chalk and talk	15
4	Non-Linear Programming	Chalk and talk	25

45.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

45.4 Course Outcome

CO-1	Understand theory of optimization methods and algorithm
CO-2	Use the theory and algorithm for solving various types of optimization problems
CO-3	Efficient in applying numerical techniques of optimization theory in practical problem
CO-4	Enhance research interest in applying optimization techniques in other branches of science and technology

45.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	2	2	0	0	0	0	0	0	2
CO-2	3	3	3	3	1	0	0	0	0	0
CO-3	3	0	3	0	0	0	2	0	0	3
CO-4	0	2	2	2	1	0	3	0	0	3

45.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
CO-1	3	3	0	3	0
CO-2	2	3	1	2	2
CO-3	3	2	0	3	3
CO-4	0	2	3	0	2

Spectral Theory

46.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	ME010401
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	150
7	Internal Assessment	25
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

46.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Convergence Of Sequence Of Operators And Functionals	Chalk and talk	20
2	Banach Fixed Point Theorem	Chalk and talk	25
3	Banach algebra	Chalk and talk	25
4	Spectral Properties Of Self Adjoint Linear Operator	Chalk and talk	20

46.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

46.4 Course Outcome

CO-1	Understand the concepts of category theory and further applications of linear operators.
CO-2	Be familiar with spectrum and related concepts .
CO-3	Be able to understand Banach spaces deeply .
CO-4	Understand spectral properties of linear operators and projections effectively .

46.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	3	0	0	0	3	0	0	0
CO-2	0	0	3	2	0	0	3	0	0	0
CO-3	0	0	3	3	0	0	3	0	0	0
CO-4	0	0	3	0	0	0	3	0	0	0

46.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
CO-1	3	3	0	0	3
CO-2	3	3	2	0	3
CO-3	3	3	3	0	3
CO-4	3	3	3	0	3

Analytic Number Theory

47.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	ME010402
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	150
7	Internal Assessment	25
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

47.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Arithmetic Functions	Chalk and talk	30
2	Some Elementry Theorems On The Distribution Of Prime Numbers	Chalk and talk	15
3	Congruances	Chalk and talk	25
4	Quadratic Residues	Chalk and talk	20

47.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

47.4 Course Outcome

CO-1	Know some special functions and how they related each other
CO-2	Identify more special functions and distribution functions and applications
CO-3	Relate the number theoretic problems with algebra and prove complicated theorems
CO-4	Advanced ideas number theory and prove well known theorems

47.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	2	0	0	0	0	0	0	0
CO-2	0	0	0	2	0	0	0	0	0	0
CO-3	0	0	2	3	0	0	0	0	0	0
CO-4	0	0	0	0	0	0	0	0	0	0

47.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
CO-1	3	0	0	0	0
CO-2	3	3	0	0	0
CO-3	0	3	0	0	3
CO-4	0	0	0	0	0

Differential Geometry

48.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	ME800401
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	150
7	Internal Assessment	25
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 ($0 \times 0 = 0$)

48.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Graph And Level Set	Chalk and talk	20
2	Gauss Map	Chalk and talk	20
3	Weingartn Map	Chalk and talk	25
4	Curvature Of Surfaces	Chalk and talk	25

48.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

48.4 Course Outcome

CO-1	Understand the basic concepts of differential geometry and its role in modern mathematics.
CO-2	Analyse and solve complex problems using appropriate techniques from differential geometry.
CO-3	Apply problem solving with differential geometry in engineering ,physics or other mathematical situations
CO-4	Apply differential geometry techniques to specific research areas .

48.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	0	0	3	0	0	3	0	0	0
CO-2	2	0	0	0	0	0	3	0	0	3
CO-3	3	3	3	3	0	0	3	0	0	3
CO-4	2	0	3	0	0	0	3	0	0	3

48.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
CO-1	3	0	0	3	0
CO-2	0	0	0	2	0
CO-3	0	3	2	2	3
CO-4	2	3	0	2	3

Algorithmic Graph Theory

49.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	ME800402
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	150
7	Internal Assessment	25
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

49.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Introduction to Graph And Algorithms	Chalk and talk	24
2	Trees And Distances	Chalk and talk	22
3	Networks	Chalk and talk	22
4	Matchings And Factorization	Chalk and talk	22

49.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

49.4 Course Outcome

CO-1	Understand fundamentals of graphs and algorithms
CO-2	learn about trees, path and distances
CO-3	Understand networks and related theorems
CO-4	Understand matchings and factorizationms

49.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	0	3	3	0	0	1	0	0	0
CO-2	0	0	3	3	0	0	1	0	0	0
CO-3	0	0	3	3	0	0	1	0	0	0
CO-4	0	0	3	3	0	0	1	0	0	0

49.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
CO-1	3	3	0	0	0
CO-2	3	3	0	3	0
CO-3	3	3	0	3	0
CO-4	3	3	0	0	0

Combinatorics**50.1 Course Overview**

1	Course	Core
2	Course Type	Theory
3	Course Code	ME800403
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	150
7	Internal Assessment	25
8	Total hours	90
9	Hours per Week	5
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	0
12	Assignment/Seminar	0
13	Assessment Test	0 (0 × 0 = 0)

50.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Permutations And Combinations	Chalk and talk	22
2	Pigeonhole Principle And Ramsey Number	Chalk and talk	18
3	The Principle of Inclusion And Exclusion	Chalk and talk	25
4	Generation Functions and Recurrence Relations	Chalk and talk	25

50.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

50.4 Course Outcome

CO-1	Understand difference between permutation and combination
CO-2	Solve different Ramsey Type problems
CO-3	Understand the principle of inclusion and exclusion
CO-4	Accure knowledge about generating functions and recurrence relations

50.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	0	3	0	0	0	0	0	0
CO-2	3	0	0	3	0	0	0	0	0	0
CO-3	3	0	0	3	0	0	0	0	0	0
CO-4	3	0	0	3	0	0	0	0	0	0

50.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5
CO-1	3	3	0	2	0
CO-2	3	3	0	0	0
CO-3	3	3	0	0	0
CO-4	3	3	0	2	0

Department of Physics
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Curriculum Framework



Academic Year 2018 – 2019

Table of Contents

1	Methodology And Perspectives Of Physics	1
1.1	Course Overview	1
1.2	Curriculum Structure	2
1.3	Evaluation Methods	2
1.4	Course Outcome	3
1.5	CO – PO Mapping	3
1.6	CO – PSO Mapping	3
2	Mechanics And Properties Of Matter	4
2.1	Course Overview	4
2.2	Curriculum Structure	5
2.3	Evaluation Methods	5
2.4	Course Outcome	5
2.5	CO – PO Mapping	5
2.6	CO – PSO Mapping	6
3	Optics, Laser And Fiber Optics	7
3.1	Course Overview	7
3.2	Curriculum Structure	8
3.3	Evaluation Methods	8

3.4	Course Outcome	8
3.5	CO – PO Mapping	8
3.6	CO – PSO Mapping	9
4	Semiconductor Physics	10
4.1	Course Overview	10
4.2	Curriculum Structure	11
4.3	Evaluation Methods	11
4.4	Course Outcome	11
4.5	CO – PO Mapping	12
4.6	CO – PSO Mapping	12
5	Electricity And Electrodynamics	13
5.1	Course Overview	13
5.2	Curriculum Structure	14
5.3	Evaluation Methods	14
5.4	Course Outcome	15
5.5	CO – PO Mapping	15
5.6	CO – PSO Mapping	15
6	Classical And Quantum Mechanics	16
6.1	Course Overview	16
6.2	Curriculum Structure	17
6.3	Evaluation Methods	17
6.4	Course Outcome	17
6.5	CO – PO Mapping	18
6.6	CO – PSO Mapping	18
7	Digital Electronics And Programming	19
7.1	Course Overview	19
7.2	Curriculum Structure	20

7.3	Evaluation Methods	20
7.4	Course Outcome	20
7.5	CO – PO Mapping	21
7.6	CO – PSO Mapping	21
8	Environmental Physics And Human Rights	22
8.1	Course Overview	22
8.2	Curriculum Structure	23
8.3	Evaluation Methods	23
8.4	Course Outcome	24
8.5	CO – PO Mapping	24
8.6	CO – PSO Mapping	24
9	Our Universe	25
9.1	Course Overview	25
9.2	Curriculum Structure	26
9.3	Evaluation Methods	26
9.4	Course Outcome	26
9.5	CO – PO Mapping	26
9.6	CO – PSO Mapping	27
10	Thermal And Statistical Physics	28
10.1	Course Overview	28
10.2	Curriculum Structure	29
10.3	Evaluation Methods	29
10.4	Course Outcome	30
10.5	CO – PO Mapping	30
10.6	CO – PSO Mapping	30
11	Relativity And Spectroscopy	31
11.1	Course Overview	31

11.2 Curriculum Structure	32
11.3 Evaluation Methods	32
11.4 Course Outcome	32
11.5 CO – PO Mapping	32
11.6 CO – PSO Mapping	33
12 Nuclear, Particle Physics And Astrophysics	34
12.1 Course Overview	34
12.2 Curriculum Structure	35
12.3 Evaluation Methods	35
12.4 Course Outcome	36
12.5 CO – PO Mapping	36
12.6 CO – PSO Mapping	36
13 Solid State Physics	37
13.1 Course Overview	37
13.2 Curriculum Structure	38
13.3 Evaluation Methods	38
13.4 Course Outcome	39
13.5 CO – PO Mapping	39
13.6 CO – PSO Mapping	39
14 Material Science	40
14.1 Course Overview	40
14.2 Curriculum Structure	41
14.3 Evaluation Methods	41
14.4 Course Outcome	42
14.5 CO – PO Mapping	42
14.6 CO – PSO Mapping	42

15 Mechanics And Properties Of Matter(P)	43
15.1 Course Overview	43
15.2 Evaluation Methods	44
15.3 Course Outcome	44
15.4 CO – PO Mapping	44
15.5 CO – PSO Mapping	44
16 Optics and Semiconductor Physics(P)	45
16.1 Course Overview	45
16.2 Evaluation Methods	46
16.3 Course Outcome	46
16.4 CO – PO Mapping	46
16.5 CO – PSO Mapping	46
17 Electricity, Magnetism and LASER(P)	47
17.1 Course Overview	47
17.2 Evaluation Methods	48
17.3 Course Outcome	48
17.4 CO – PO Mapping	48
17.5 CO – PSO Mapping	48
18 Digital Electronics(P)	49
18.1 Course Overview	49
18.2 Evaluation Methods	50
18.3 Course Outcome	50
18.4 CO – PO Mapping	50
18.5 CO – PSO Mapping	50
19 Thermal Physics, Spectroscopy and C++ Programming(P)	51
19.1 Course Overview	51
19.2 Evaluation Methods	52

19.3 Course Outcome	52
19.4 CO – PO Mapping	52
19.5 CO – PSO Mapping	52
20 Acoustics, Photonics and Advanced Semiconductor Physics(P)	53
20.1 Course Overview	53
20.2 Evaluation Methods	54
20.3 Course Outcome	54
20.4 CO – PO Mapping	54
20.5 CO – PSO Mapping	54
21 Properties of matter and Thermodynamics	55
21.1 Course Overview	55
21.2 Curriculum Structure	56
21.3 Evaluation Methods	56
21.4 Course Outcome	56
21.5 CO – PO Mapping	57
21.6 CO – PSO Mapping	57
22 Mechanics and Superconductivity	58
22.1 Course Overview	58
22.2 Curriculum Structure	59
22.3 Evaluation Methods	59
22.4 Course Outcome	59
22.5 CO – PO Mapping	59
22.6 CO – PSO Mapping	60
23 Modern Physics and magnetism	61
23.1 Course Overview	61
23.2 Curriculum Structure	62
23.3 Evaluation Methods	62

23.4 Course Outcome	62
23.5 CO – PO Mapping	63
23.6 CO – PSO Mapping	63
24 Optics and solid state Physics	64
24.1 Course Overview	64
24.2 Curriculum Structure	65
24.3 Evaluation Methods	65
24.4 Course Outcome	65
24.5 CO – PO Mapping	66
24.6 CO – PSO Mapping	66
25 Complimentary Physics Practical I(P)	67
25.1 Course Overview	67
25.2 Evaluation Methods	68
25.3 Course Outcome	68
25.4 CO – PO Mapping	68
25.5 CO – PSO Mapping	68
26 Complimentary Physics Practical II(P)	69
26.1 Course Overview	69
26.2 Evaluation Methods	70
26.3 Course Outcome	70
26.4 CO – PO Mapping	70
26.5 CO – PSO Mapping	70

Methodology And Perspectives Of Physics**1.1 Course Overview**

1	Course	Core
2	Course Type	Theory
3	Course Code	PH1CRT01
4	Credit	2
5	Duration of External Examination	3 hours
6	External Assessment	60
7	Internal Assessment	15
8	Total hours	36
9	Hours per Week	2
10	Number of Modules	3
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	2
13	Assessment Test	8 ($2 \times 4 = 8$)

1.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Concepts and Development Physics	Chalk and talk, ICT	8
2	Number systems-Introductory Vector Analysis-Coordinate systems	Chalk and talk	18
3	Experimental methods and error analysis	Chalk and talk	10

1.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

1.4 Course Outcome

CO-1	Able to understand the developments in physics through centuries and its methodology.
CO-2	Able to understand different number systems, co-ordinate systems and their applications
CO-3	To understand various experimental methods to measure physical quantities and to estimate errors in measurement.

1.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	2	0	0	0	0	1	0	0	0
CO-2	3	0	0	0	0	0	0	0	0	0
CO-3	3	0	0	2	0	0	0	0	0	0

1.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	2	0	0	0	0	0
CO-2	2	0	1	0	0	0
CO-3	2	1	0	0	1	2

Mechanics And Properties Of Matter

2.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	PH2CRT02
4	Credit	2
5	Duration of External Examination	3 hours
6	External Assessment	60
7	Internal Assessment	15
8	Total hours	36
9	Hours per Week	2
10	Number of Modules	3
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	2
13	Assessment Test	8 (2 × 4 = 8)

2.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Wave motion-Oscillations	Chalk and talk	12
2	Rotational mechanics	Chalk and talk	7
3	Elasticity-Hydrodynamics	Chalk and talk	17

2.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

2.4 Course Outcome

CO-1	Able to understand the mathematical formulation of wave and oscillatory motions
CO-2	Able to understand the mathematical formulation of rotational motion
CO-3	Able to understand the concepts of mechanical properties of solids and fluids

2.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	0	2	0	0	0	0	0	1
CO-2	3	0	0	2	0	0	0	0	0	1
CO-3	3	0	0	2	0	0	0	0	0	1

2.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	3	1	2	1	1	2
CO-2	3	1	2	0	1	2
CO-3	3	1	2	0	1	2

Optics, Laser And Fiber Optics

3.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	PH3CRT03
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	60
7	Internal Assessment	15
8	Total hours	54
9	Hours per Week	3
10	Number of Modules	3
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	2
13	Assessment Test	8 (2 × 4 = 8)

3.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Interference	Chalk and talk, ICT	13
2	Diffraction- Polarization	Chalk and talk ,ICT	22
3	Laser- Fiber Optics	Chalk and talk	19

3.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

3.4 Course Outcome

CO-1	Able to understand the mathematical formulation and experimental aspects of interference of light
CO-2	Able to understand the mathematical formulation and experimental aspects of diffraction and polarization of light
CO-3	Able to understand the mathematical formulation and technological aspects of laser and fiber optics

3.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	0	0	2	0	0	0	0	0	0
CO-2	3	0	0	2	0	0	0	0	0	0
CO-3	3	0	0	2	0	0	0	0	0	2

3.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	3	1	2	0	2	2
CO-2	3	1	2	0	2	2
CO-3	3	1	2	1	2	2

Semiconductor Physics

4.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	PH4CRT04
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	60
7	Internal Assessment	15
8	Total hours	54
9	Hours per Week	3
10	Number of Modules	3
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	2
13	Assessment Test	8 ($2 \times 4 = 8$)

4.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Semiconducting diodes and applications	Chalk and talk, ICT	14
2	Transistors Configurations and Feed back- Amplifiers and Oscillators	Chalk and talk, ICT	24
3	FET, Operational Amplifier and Modulation	Chalk and talk, ICT	16

4.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

4.4 Course Outcome

CO-1	Able to understand basic concepts of electronics
CO-2	Able to understand transistors and its applications
CO-3	Able to understand integrated circuits and its applications

4.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	1	0	2	0	0	0	0	0	2
CO-2	3	1	0	2	0	0	0	0	0	2
CO-3	3	1	0	2	0	0	0	0	0	2

4.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	3	1	1	3	1	1
CO-2	3	1	1	3	1	1
CO-3	3	1	1	3	1	1

Electricity And Electrodynamics

5.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	PH5CRT05
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	60
7	Internal Assessment	15
8	Total hours	54
9	Hours per Week	3
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	2
13	Assessment Test	8 ($2 \times 4 = 8$)

5.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Alternating Current and Network Theorems	Chalk and talk	15
2	Transient Current and Thermo electricity	Chalk and talk	8
3	Electrostatics and Magnetostatics	Chalk and talk	20
4	Maxwell's Equations and Electromagnetic wave propagation	Chalk and talk	11

5.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

5.4 Course Outcome

CO-1	Able to analyse electrical networks and circuits
CO-2	Able to understand transient currents and thermoelectric effects
CO-3	Basic understanding of electrodynamics. Able to understand the mathematical formalism of e.m wave propagation

5.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	1	0	2	0	0	0	0	0	2
CO-2	3	1	0	2	0	0	0	0	0	2
CO-3	3	1	0	2	0	0	0	0	0	2

5.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	3	1	1	3	1	3
CO-2	3	1	1	3	1	3
CO-3	3	1	1	3	1	1

Classical And Quantum Mechanics

6.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	PH5CRT06
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	60
7	Internal Assessment	15
8	Total hours	54
9	Hours per Week	3
10	Number of Modules	3
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	2
13	Assessment Test	8 ($2 \times 4 = 8$)

6.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Lagrangian and Hamiltonian Formulations of Classical Mechanics	Chalk and talk	15
2	Historical development and origin of quantum theory- General Formalism of Quantum Mechanics	Chalk and talk	24
3	Schrodinger equation and its applications	Chalk and talk	15

6.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

6.4 Course Outcome

CO-1	Able to understand potential formulation
CO-2	Able to understand the development and origin of q.m
CO-3	To understand schrodinger equation and its applications

6.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	1	0	2	0	0	0	0	0	1
CO-2	3	1	0	2	0	0	0	0	0	1
CO-3	3	1	0	2	0	0	0	0	0	1

6.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	3	1	3	3	1	1
CO-2	3	2	3	3	1	0
CO-3	3	2	3	3	1	0

Digital Electronics And Programming

7.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	PH5CRT07
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	60
7	Internal Assessment	15
8	Total hours	54
9	Hours per Week	3
10	Number of Modules	3
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	2
13	Assessment Test	8 (2 × 4 = 8)

7.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Boolean algebra and logic gates	Chalk and talk	9
2	Combinational logic- Sequential logic	Chalk and talk	19
3	Programming in C++	Chalk and talk	26

7.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

7.4 Course Outcome

CO-1	Identify logic gates and perform operations of boolean algebra
CO-2	Analyse combinational logic circuits and sequential logic circuits
CO-3	Analyse c++ program structure and create simple c++ programs

7.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	3	0	0	0	0	2	0	0	2
CO-2	3	3	0	0	0	0	2	0	0	2
CO-3	3	3	0	3	0	1	2	0	2	2

7.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	3	0	3	3	1	0
CO-2	3	0	3	3	1	0
CO-3	0	0	3	3	1	0

Environmental Physics And Human Rights**8.1 Course Overview**

1	Course	Core
2	Course Type	Theory
3	Course Code	PH5CRT08
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	72
9	Hours per Week	4
10	Number of Modules	5
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 ($2 \times 5 = 10$)

8.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Water Resources and Its Management- Remote sensing- Environmental Pollution	Chalk and talk	15
2	Waste Management- Environment Impact Assessment and Control	Chalk and talk, ICT	12
3	Non-renewable and Renewable Energy Sources	Chalk and talk, ICT	13
4	Solar energy	Chalk and talk, ICT	14
5	Human Rights- - Human Rights and United Nations- Human Rights National Perspective	Chalk and talk, ICT	18

8.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

8.4 Course Outcome

CO-1	To understand the importance of water resource and its management, and environmental pollution
CO-2	To understand the importance of waste management , environmental impact , non-renewable and renewable energy resources and solar energy
CO-3	To understand the importance of water resource and its management, and environmental pollution. To understand the importance of waste management and environmental impact assessment ,human right issues

8.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	2	0	0	0	0	0	1	0	1
CO-2	0	2	0	0	0	0	0	1	0	1
CO-3	0	2	0	0	0	0	0	1	0	1

8.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	0	1	0	0	0
CO-2	0	0	0	0	0	0
CO-3	1	0	0	0	0	0

Our Universe

9.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	PH5OPT01
4	Credit	4
5	Duration of External Examination	3 hours
6	External Assessment	80
7	Internal Assessment	20
8	Total hours	72
9	Hours per Week	4
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	5
13	Assessment Test	10 ($2 \times 5 = 10$)

9.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Our universe	Chalk and talk, ICT	10
2	Cosmology	Chalk and talk, ICT	14
3	Observational Astronomy	Chalk and talk, ICT	24
4	Solar system	Chalk and talk, ICT	24

9.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

9.4 Course Outcome

CO-1	To understand the structure of universe and galaxies
CO-2	To understand the evolution of universe and stars
CO-3	To understand the techniques and terms involved with astronomy, to understand the structure of solar system

9.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	0	3	0	0	0	0	3	0	0	0
CO-2	0	3	0	0	0	0	3	0	0	0
CO-3	0	3	0	0	0	0	3	0	0	0

9.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	0	0	2	0	1
CO-2	0	0	0	2	0	2
CO-3	0	0	0	2	0	1

Thermal And Statistical Physics

10.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	PH6CRT09
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	60
7	Internal Assessment	15
8	Total hours	54
9	Hours per Week	3
10	Number of Modules	3
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	2
13	Assessment Test	8 ($2 \times 4 = 8$)

10.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Equation of state for gases- Zeroth law of thermodynamics- First laws of thermodynamics- Heat engines and second law of thermodynamics	Chalk and talk	21
2	Entropy- Thermodynamic relations- Conduction and radiation	Chalk and talk	17
3	Statistical mechanics- Statistical distributions	Chalk and talk	16

10.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

10.4 Course Outcome

CO-1	Able to understand laws of thermodynamics
CO-2	Able to understand laws of thermodynamics
CO-3	Able to understand the various thermodynamic variables and their importance

10.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	1	0	0	0	0	0	0	0	0
CO-2	3	1	0	0	0	0	0	0	0	0
CO-3	3	1	0	0	0	0	0	0	0	0

10.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	3	1	3	0	1	1
CO-2	3	2	3	0	1	1
CO-3	3	2	3	0	1	0

Relativity And Spectroscopy

11.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	PH6CRT10
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	60
7	Internal Assessment	15
8	Total hours	72
9	Hours per Week	4
10	Number of Modules	3
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	2
13	Assessment Test	8 (2 × 4 = 8)

11.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Special Theory of Relativity	Chalk and talk	18
2	Atomic Spectroscopy	Chalk and talk, ICT	21
3	Molecular Spectroscopy- NMR and ESR Spectroscopy	Chalk and talk, ICT	33

11.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

11.4 Course Outcome

CO-1	Able to understand the special theory of relativity
CO-2	Able to understand the special theory of relativity
CO-3	Able to understand the concepts of atomic and molecular spectroscopy and its applications

11.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	1	0	0	0	0	0	0	0	0
CO-2	3	1	0	0	0	0	0	0	0	0
CO-3	3	1	0	0	0	0	0	0	0	0

11.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	3	1	1	2	1	0
CO-2	3	1	1	2	1	1
CO-3	3	1	1	2	1	1

Nuclear, Particle Physics And Astrophysics**12.1 Course Overview**

1	Course	Core
2	Course Type	Theory
3	Course Code	PH6CRT11
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	60
7	Internal Assessment	15
8	Total hours	54
9	Hours per Week	3
10	Number of Modules	3
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	2
13	Assessment Test	8 ($2 \times 4 = 8$)

12.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Nuclear structure- Nuclear Radiation Detectors, Counters and Particle Accelerators	Chalk and talk	18
2	Nuclear Transformations- Cosmic rays	Chalk and talk	19
3	Particle Physics- Astrophysics	Chalk and talk	17

12.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

12.4 Course Outcome

CO-1	Able to understand the properties of nucleus and its structure
CO-2	Able to understand the basic concepts various nuclear transformations and the physics of cosmic rays and its properties
CO-3	Able to understand the basic concepts particle physics and astrophysics

12.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	1	0	0	0	0	0	0	0	0
CO-2	3	1	0	0	0	0	0	0	0	0
CO-3	3	1	0	0	0	0	0	0	0	0

12.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	3	1	3	0	1	0
CO-2	3	2	3	0	1	0
CO-3	3	2	3	0	1	0

Solid State Physics

13.1 Course Overview

1	Course	Core
2	Course Type	Theory
3	Course Code	PH6CRT12
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	60
7	Internal Assessment	15
8	Total hours	54
9	Hours per Week	4
10	Number of Modules	3
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	2
13	Assessment Test	8 ($2 \times 4 = 8$)

13.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Crystal structure	Chalk and talk	18
2	Bonding in solids- Free electron theory and elementary band theory- Semiconducting properties of materials	Chalk and talk	31
3	Dielectric properties of materials- Magnetic properties of materials- Superconductivity	Chalk and talk	22

13.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

13.4 Course Outcome

CO-1	Able to understand the basic concept related to crystal structure
CO-2	Able to understand the basic concepts of bonding in solids, free electron theory, band theory, semiconducting properties of materials.
CO-3	Able to understand the basic concepts dielectric properties and magnetic properties of materials and superconductivity

13.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	1	0	0	0	0	0	0	0	0
CO-2	3	1	0	0	0	0	0	0	0	0
CO-3	3	1	0	0	0	0	0	0	0	0

13.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	3	1	3	0	1	2
CO-2	3	2	3	0	1	2
CO-3	3	2	3	0	1	1

Material Science**14.1 Course Overview**

1	Course	Core
2	Course Type	Theory
3	Course Code	PH6CBT02
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	60
7	Internal Assessment	15
8	Total hours	54
9	Hours per Week	3
10	Number of Modules	3
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	2
13	Assessment Test	8 (2 × 4 = 8)

14.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Structure and Properties of Materials	Chalk and talk	18
2	Optical Properties of Materials- Modern Engineering Materials	Chalk and talk	18
3	Nanoscience- Material Characterization Techniques	Chalk and talk	18

14.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

14.4 Course Outcome

CO-1	Able to understand the basic concepts of structure and properties of materials
CO-2	Able to understand the basic concepts of optical properties of materials and modern engineering materials
CO-3	Able to understand the basic concepts of nanoscience and material characterization techniques

14.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	2	2	1	1	0	0	1	0	0	1
CO-2	2	2	1	1	0	0	1	0	0	1
CO-3	2	2	1	1	0	0	1	0	0	1

14.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	2	1	2	0	2	2
CO-2	2	1	2	0	2	2
CO-3	2	1	2	0	2	2

Mechanics And Properties Of Matter(P)**15.1 Course Overview**

1	Course	Core
2	Course Type	Practical
3	Course Code	PH2CRP01
4	Credit	2
5	Duration of External Examination	3 hours
6	External Assessment	40
7	Internal Assessment	10
8	Total hours	72
9	Hours per Week	2
10	Number of Experiments	15
11	Total Week to complete	21
Distribution of Internal Marks		
12	Attendance	2
13	Record	4
14	Assessment Test	4 (1 × 4 = 1)

15.2 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Practical Record	Internal Assessment
3	Experimental Skill	Internal Assessment
4	University Examination	External Assessment

15.3 Course Outcome

CO-1	Have gained practical knowledge by applying the experimental methods related to mechanics, properties of matter
CO-2	Be able to apply the analytical techniques and graphical analysis to the experimental data related to mechanics, properties of matter

15.4 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	3	3	3	0	3	0	0	3	3
CO-2	3	3	3	3	0	3	0	0	3	3

15.5 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	3	3	0	3	3
CO-2	0	3	3	0	3	3

Optics and Semiconductor Physics(P)**16.1 Course Overview**

1	Course	Core
2	Course Type	Practical
3	Course Code	PH4CRP02
4	Credit	2
5	Duration of External Examination	3 hours
6	External Assessment	40
7	Internal Assessment	10
8	Total hours	72
9	Hours per Week	2
10	Number of Experiments	15
11	Total Week to complete	21
Distribution of Internal Marks		
12	Attendance	2
13	Record	4
14	Assessment Test	4 (1 × 4 = 1)

16.2 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Practical Record	Internal Assessment
3	Experimental Skill	Internal Assessment
4	University Examination	External Assessment

16.3 Course Outcome

CO-1	Have gained practical knowledge by applying the experimental methods related to optics, semiconductor physics
CO-2	Be able to apply the analytical techniques and graphical analysis to the experimental data related to optics, semiconductor physics

16.4 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	3	3	3	0	3	0	0	3	3
CO-2	3	3	3	3	0	3	0	0	3	3

16.5 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	3	3	0	3	3
CO-2	0	3	3	0	3	3

Electricity, Magnetism and LASER(P)**17.1 Course Overview**

1	Course	Core
2	Course Type	Practical
3	Course Code	PH6CRP03
4	Credit	2
5	Duration of External Examination	3 hours
6	External Assessment	40
7	Internal Assessment	10
8	Total hours	72
9	Hours per Week	2
10	Number of Experiments	15
11	Total Week to complete	21
Distribution of Internal Marks		
12	Attendance	2
13	Record	4
14	Assessment Test	4 (1 × 4 = 1)

17.2 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Practical Record	Internal Assessment
3	Experimental Skill	Internal Assessment
4	University Examination	External Assessment

17.3 Course Outcome

CO-1	Have gained practical knowledge by applying the experimental methods related to electricity, magnetism and laser
CO-2	Be able to apply the analytical techniques and graphical analysis to the experimental data related to electricity, magnetism and laser

17.4 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	3	3	3	0	3	0	0	3	3
CO-2	3	3	3	3	0	3	0	0	3	3

17.5 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	3	3	0	3	3
CO-2	0	3	3	0	3	3

Digital Electronics(P)**18.1 Course Overview**

1	Course	Core
2	Course Type	Practical
3	Course Code	PH6CRP04
4	Credit	2
5	Duration of External Examination	3 hours
6	External Assessment	40
7	Internal Assessment	10
8	Total hours	72
9	Hours per Week	2
10	Number of Experiments	15
11	Total Week to complete	21
Distribution of Internal Marks		
12	Attendance	2
13	Record	4
14	Assessment Test	4 (1 × 4 = 1)

18.2 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Practical Record	Internal Assessment
3	Experimental Skill	Internal Assessment
4	University Examination	External Assessment

18.3 Course Outcome

CO-1	Have gained practical knowledge by applying the experimental methods related to digital electronics
CO-2	Be able to apply the analytical techniques and graphical analysis to the experimental data related to digital electronics

18.4 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	3	3	3	0	3	0	0	3	3
CO-2	3	3	3	3	0	3	0	0	3	3

18.5 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	3	3	0	3	3
CO-2	0	3	3	0	3	3

Thermal Physics, Spectroscopy and C++ Programming(P)

19.1 Course Overview

1	Course	Core
2	Course Type	Practical
3	Course Code	PH6CRP05
4	Credit	2
5	Duration of External Examination	3 hours
6	External Assessment	40
7	Internal Assessment	10
8	Total hours	72
9	Hours per Week	2
10	Number of Experiments	15
11	Total Week to complete	21
Distribution of Internal Marks		
12	Attendance	2
13	Record	4
14	Assessment Test	4 (1 × 4 = 1)

19.2 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Practical Record	Internal Assessment
3	Experimental Skill	Internal Assessment
4	University Examination	External Assessment

19.3 Course Outcome

CO-1	Have gained practical knowledge by applying the experimental methods related thermal physics, spectroscopy, c++
CO-2	Be able to apply the analytical techniques and graphical analysis to the experimental data related to thermal physics, spectroscopy, c++

19.4 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	3	3	3	0	3	0	0	3	3
CO-2	3	3	3	3	0	3	0	0	3	3

19.5 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	3	3	0	3	3
CO-2	0	3	3	0	3	3

Acoustics, Photonics and Advanced Semiconductor Physics(P)

20.1 Course Overview

1	Course	Core
2	Course Type	Practical
3	Course Code	PH6CRP06
4	Credit	2
5	Duration of External Examination	3 hours
6	External Assessment	40
7	Internal Assessment	10
8	Total hours	72
9	Hours per Week	2
10	Number of Experiments	15
11	Total Week to complete	21
Distribution of Internal Marks		
12	Attendance	2
13	Record	4
14	Assessment Test	4 (1 × 4 = 1)

20.2 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Practical Record	Internal Assessment
3	Experimental Skill	Internal Assessment
4	University Examination	External Assessment

20.3 Course Outcome

CO-1	Have gained practical knowledge by applying the experimental methods related to acoustics, photonics, advanced semiconductor physics
CO-2	Be able to apply the analytical techniques and graphical analysis to the experimental data related to acoustics, photonics, advanced semiconductor physics

20.4 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	3	3	3	0	3	0	0	3	3
CO-2	3	3	3	3	0	3	0	0	3	3

20.5 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	3	3	0	3	3
CO-2	0	3	3	0	3	3

Properties of matter and Thermodynamics

21.1 Course Overview

1	Course	Complementary
2	Course Type	Theory
3	Course Code	PH1CMT02
4	Credit	2
5	Duration of External Examination	3 hours
6	External Assessment	60
7	Internal Assessment	15
8	Total hours	36
9	Hours per Week	2
10	Number of Modules	3
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	2
13	Assessment Test	8 ($2 \times 4 = 8$)

21.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Elasticity	Chalk and talk	13
2	Surface tension - Hydrodynamics	Chalk and talk	10
3	Thermodynamics	Chalk and talk	13

21.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

21.4 Course Outcome

CO-1	Analyse the theory of elasticity and the experimental methods for the determination of modulus elasticity
CO-2	Analyse the theory and experimental methods of surface tension and liquid flow.
CO-3	Analyse thermodynamic laws and relations and the theory of heat engines

21.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	3	1	1	0	0	2	0	1	0
CO-2	3	3	1	1	0	0	2	0	1	0
CO-3	3	3	1	1	0	0	2	0	1	0

21.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	3	0	0	0	1	1
CO-2	3	0	0	0	1	1
CO-3	3	0	0	0	1	1

Mechanics and Superconductivity

22.1 Course Overview

1	Course	Complementary
2	Course Type	Theory
3	Course Code	PH2CMT02
4	Credit	2
5	Duration of External Examination	3 hours
6	External Assessment	60
7	Internal Assessment	15
8	Total hours	36
9	Hours per Week	2
10	Number of Modules	3
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	2
13	Assessment Test	8 ($2 \times 4 = 8$)

22.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Motion under gravity- Rotational dynamics	Chalk and talk	15
2	Oscillations, Waves	Chalk and talk	13
3	Superconductivity	Chalk and talk	8

22.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

22.4 Course Outcome

CO-1	Analyse the theory of motion under gravity and rotational motion
CO-2	Analyse the theory of oscillatory motion and waves
CO-3	Analyse the experimental observations regarding the superconducting phenomenon

22.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	3	1	1	0	0	2	0	1	0
CO-2	3	3	1	1	0	0	2	0	1	0
CO-3	3	3	1	1	0	0	2	0	1	0

22.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	3	0	0	0	1	1
CO-2	3	0	0	0	1	1
CO-3	3	0	0	0	1	1

Modern Physics and magnetism**23.1 Course Overview**

1	Course	Complementary
2	Course Type	Theory
3	Course Code	PH3CMT02
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	60
7	Internal Assessment	15
8	Total hours	54
9	Hours per Week	3
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	2
13	Assessment Test	8 ($2 \times 4 = 8$)

23.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Modern Physics	Chalk and talk	18
2	Quantum Mechanics-Spectroscopy	Chalk and talk	18
3	Electronics	Chalk and talk	8
4	Magnetism	Chalk and talk	10

23.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

23.4 Course Outcome

CO-1	To understand the basics of modern physics- atom models, nuclear models and radioactivity
CO-2	To understand the inadequacies of classical physics and the development of quantum theory and its basics principles
CO-3	To understand the basics of semiconductor electronics and fundamentals of magnetism

23.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	3	1	1	0	0	2	0	1	0
CO-2	3	3	1	1	0	0	2	0	1	0
CO-3	3	3	1	1	0	0	2	0	1	0

23.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	3	0	0	0	1	1
CO-2	3	0	0	0	1	1
CO-3	3	0	0	0	1	1

Optics and solid state Physics**24.1 Course Overview**

1	Course	Complementary
2	Course Type	Theory
3	Course Code	PH4CMT02
4	Credit	3
5	Duration of External Examination	3 hours
6	External Assessment	60
7	Internal Assessment	15
8	Total hours	54
9	Hours per Week	3
10	Number of Modules	4
Distribution of Internal Marks		
11	Attendance	5
12	Assignment/Seminar	2
13	Assessment Test	8 ($2 \times 4 = 8$)

24.2 Curriculum Structure

Module	Module Title	Delivery Methods	Total hours
1	Interference, diffraction and Polarization	Chalk and talk	22
2	laser and fiber optics	Chalk and talk	10
3	Dielectrics	Chalk and talk	10
4	Crystallography	Chalk and talk	12

24.3 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Assignments	Internal Assessment
3	Seminar	Internal Assessment
4	University Examination	External Assessment

24.4 Course Outcome

CO-1	To understand the fundamentals of the optical phenomena- Interference, diffraction and polarization
CO-2	To understand the principles and applications of Lasers and fibre optics
CO-3	To understand crystal structure and crystallography , electrical properties of materials

24.5 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	3	1	1	0	0	2	0	1	0
CO-2	3	3	1	1	0	0	2	0	1	0
CO-3	3	3	1	1	0	0	2	0	1	0

24.6 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	3	0	0	0	1	1
CO-2	3	0	0	0	1	1
CO-3	3	0	0	0	1	1

Complimentary Physics Practical I(P)**25.1 Course Overview**

1	Course	Complementary
2	Course Type	Practical
3	Course Code	PH2CMP02
4	Credit	2
5	Duration of External Examination	3 hours
6	External Assessment	40
7	Internal Assessment	10
8	Total hours	144
9	Hours per Week	2
10	Number of Experiments	15
11	Total Week to complete	39
Distribution of Internal Marks		
12	Attendance	2
13	Record	4
14	Assessment Test	4 (1 × 4 = 1)

25.2 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Practical Record	Internal Assessment
3	Experimental Skill	Internal Assessment
4	University Examination	External Assessment

25.3 Course Outcome

CO-1	Have gained practical knowledge by applying the experimental methods related to mechanics, properties of matter and thermodynamics
CO-2	Be able to apply the analytical techniques and graphical analysis to the experimental data related to mechanics, properties of matter and thermodynamics

25.4 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	3	3	3	0	3	0	0	3	3
CO-2	3	3	3	3	0	3	0	0	3	3

25.5 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	2	0	0	0	0
CO-2	0	0	3	0	0	0

Complimentary Physics Practical II(P)**26.1 Course Overview**

1	Course	Complementary
2	Course Type	Practical
3	Course Code	PH4CMP02
4	Credit	2
5	Duration of External Examination	3 hours
6	External Assessment	40
7	Internal Assessment	10
8	Total hours	144
9	Hours per Week	2
10	Number of Experiments	15
11	Total Week to complete	39
Distribution of Internal Marks		
12	Attendance	2
13	Record	4
14	Assessment Test	4 (1 × 4 = 1)

26.2 Evaluation Methods

No.	Assessment Methods	Evaluation Type
1	Assessment tests	Internal Assessment
2	Practical Record	Internal Assessment
3	Experimental Skill	Internal Assessment
4	University Examination	External Assessment

26.3 Course Outcome

CO-1	Have gained practical knowledge by applying the experimental methods related to mechanics, properties of matter and thermodynamics
CO-2	Be able to apply the analytical techniques and graphical analysis to the experimental data related to mechanics, properties of matter and thermodynamics

26.4 CO – PO Mapping

CO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	3	3	3	0	3	0	0	3	3
CO-2	3	3	3	3	0	3	0	0	3	3

26.5 CO – PSO Mapping

CO	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO-1	0	2	0	0	0	0
CO-2	0	0	3	0	0	0

