# Department of Computer Science Pavanatma College, Murickassery Idukki-685604

### **Curriculum Implementation Plan**



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### Course - I

### Semester - I

### **COMPUTER FUNDAMENTALS**

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
11	Total Week to complete	21
	Distribution of Inter	rnal Marks
12	Attendance	5
13	Assignment/Seminar	5
14	Assessment Test	$10 (2 \times 5 = 10)$

Module	Module Title	Delivery Methods	Total hours	Number of Weeks to complete
1	Fundamentals of Computers	Chalk and talk,	10	5
2	Basic Computer organization and number systems	Chalk and talk	6	3
3	Components of Computer	Chalk and talk	10	5
4	Software components and computer languages	Chalk and talk	10	5

### 1.3 Continuous Evaluation Schedule

#### 1.3.1 Test paper

No.			Time duration	Exam type
	marks	marks	duration	
1	7	20	1 Hours	Assessment Test
2	14	20	1 Hours	Assessment Test
3	21	80	3 Hours	Model Examination

#### 1.3.2 Assignments

No.	Week	Duration	Assignments type	
1	7	1 Week	Problem solving	
2	14	1 Week	Problem solving	
3	21	1 Week	Problem solving	
1.3.3 Sen	ninar	NAIN	A COLL	EG.

No	Week	Number of comin and	umber of seminars Time duration	
No.	week	Number of seminars	Time duration	method
1	7	3	20 Minute	Lecture
2	14	3	20 Minute	Lecture
3	21	3	20 Minute	Lecture

### Course - II

### Semester - I

### COMPUTER NETWORK AND INTERNET

### **TECHNOLOGIES**

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		
11	Total Week to complete	21		
Distribution of Internal Marks				
12	Attendance	5		
13	Assignment/Seminar	2		
14	14 Assessment Test $8 (2 \times 4 = 8)$			

Module	Module Title	Delivery Methods	Total hours	Number of Weeks to complete
1	Computer Networks	Chalk and talk,	8	4
2	Transmission media	Chalk and talk	10	5
3	Network Model	Chalk and talk	11	6
4	Internet	Chalk and talk	7	4

### 2.3 Continuous Evaluation Schedule

#### 2.3.1 Test paper

No.	Wools	Total	Time	Evan type
INO.	week	Week marks d		Exam type
1	7	20	1 Hours	Assessment Test
2	14	20	1 Hours	Assessment Test
3	21	60	3 Hours	Model Examination

#### 2.3.2 Assignments

No.	Week	Duration	Assignments type
1	7	1 Week	Problem solving
2	14	1 Week	Problem solving
3	21	1 Week	Problem solving

NI.	W71-	N	Number of seminars Time duration	
No.	o. Week Number of seminar		time duration	method
1	7	3	20 Minute	Lecture
2	14	3	20 Minute	Lecture
3	21	MA <sub>3</sub> MA	20 Minute	Lecture

### Course - III

### Semester – III

### **Database Management systems**

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
11	Total Week to complete	18
	Distribution of Inter	rnal Marks
12	Attendance	5
13	Assignment/Seminar	5
14	Assessment Test	$10 (2 \times 5 = 10)$

Module	Module Title	Delivery Methods	Total hours	Number of Weeks to complete
1	Basic concepts	Chalk and talk,	15	3
2	Data Models	Chalk and talk	15	3
3	Relational algebra modification of database	Chalk and talk,	20	4
4	Object oriented database	Chalk and talk,ICT	25	5
5	Query Processing	Chalk and talk,ICT	15	3

### 3.3 Continuous Evaluation Schedule

#### 3.3.1 Test paper

No	No. Week		Time	Throng true
No.			duration	Exam type
1	6	20	1 Hours	Assessment Test
2	12	20	1 Hours	Assessment Test
3	18	80	3 Hours	Model Examination

#### Assignments 3.3.2

No.	Week	Duration	Assignments type	
1	6	1 Week	Problem solving	
2	12	1 Week	Problem solving	
3	18	1 Week	Problem solving	

No	Week	Name have of coming and	Time denotion	Delivery
No.	week	Number of seminars	Time duration	method
1	6	3	20 Minute	Lecture
2	12	3	20 Minute	Lecture
3	18	3	20 Minute	Lecture

### Course - IV

### Semester – IV

### **Operating systems**

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	
11	Total Week to complete	18	
	Distribution of Inter	rnal Marks	
12	Attendance	5	
13	Assignment/Seminar	5	
14	Assessment Test	$10 (2 \times 5 = 10)$	

Module	Module Title	Delivery Methods	Total hours	Number of Weeks to complete
1	Introduction to operating systems	Chalk and talk	15	3
2	Process management and CPU scheduling	Chalk and talk ICT	25	5
3	Memory management basics	Chalk and talk,ICT	15	3
4	File systems	Chalk and talk	15	3
5	Protection and security	Chalk and talk ICT	20	4

### 4.3 Continuous Evaluation Schedule

#### 4.3.1 Test paper

No	No. Week		Time	Throng true
No.			duration	Exam type
1	6	20	1 Hours	Assessment Test
2	12	20	1 Hours	Assessment Test
3	18	80	3 Hours	Model Examination

#### Assignments 4.3.2

No.	Week	Duration	Assignments type	
1	6	1 Week	Problem solving	
2	12	1 Week	Problem solving	
3	18	1 Week	Problem solving	

No. Wool-		Number of seminars	Time duration	Delivery
No.	o. Week Number of s		semmars Time duration	method
1	6	3	20 Minute	Lecture
2	12	3	20 Minute	Lecture
3	18	3	20 Minute	Lecture

### Course - I

### Semester - I

### **COMPUTER FUNDAMENTALS**

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
11	Total Week to complete	21
	Distribution of Inter	rnal Marks
12	Attendance	5
13	Assignment/Seminar	5
14	Assessment Test	$10 (2 \times 5 = 10)$

Module	Module Title	Delivery Methods	Total hours	Number of Weeks to complete
1	Fundamentals of Chalk and talk,  Computers ICT		10	5
2	Basic Computer organization and number systems	Chalk and talk	6	3
3	Components of Computer	Chalk and talk	10	5
4	Software components and computer languages	Chalk and talk	10	5

#### 5.3 Continuous Evaluation Schedule

#### 5.3.1 Test paper

No.	Week	Total marks	Time duration	Exam type
1	7	20	1 Hours	Assessment Test
2	14	20	1 Hours	Assessment Test
3	21	80	3 Hours	Model Examination

#### 5.3.2 Assignments

No.	Week	Duration	Assignments type
1	7	1 Week	Problem solving
2	14	1 Week	Problem solving
3	21	1 Week	Problem solving

No. Week		Number of seminars	Time duration	Delivery
110.	week	Number of seminars	Time duration	method
1	7	3	20 Minute	Lecture
2	14	3	20 Minute	Lecture
3	21	3	20 Minute	Lecture

### Course - II

### Semester - I

### COMPUTER NETWORK AND INTERNET

### **TECHNOLOGIES**

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				
11	Total Week to complete	21				
	Distribution of Internal Marks					
12	Attendance	5				
13	Assignment/Seminar	2				
14	Assessment Test $8 (2 \times 4 = 8)$					

Module	Module Title	Delivery Methods	Total hours	Number of Weeks to complete
1	Computer Networks	Chalk and talk,	8	4
2	Transmission media	Chalk and talk	10	5
3	Network Model	Chalk and talk	11	6
4	Internet	Chalk and talk	7	4

### 6.3 Continuous Evaluation Schedule

#### 6.3.1 Test paper

No.	Week	Total	Time	Evan type
INO.	week	marks	duration	Exam type
1	7	20	1 Hours	Assessment Test
2	14	20	1 Hours	Assessment Test
3	21	60	3 Hours	Model Examination

#### 6.3.2 Assignments

No.	Week	Duration	Assignments type
1	7	1 Week	Problem solving
2	14	1 Week	Problem solving
3	21	1 Week	Problem solving

N. 3771	XX71-	ek Number of seminars Time	Ti	Delivery
No.	No. Week		Time duration	method
1	7	3	20 Minute	Lecture
2	14	3	20 Minute	Lecture
3	21	MA <sub>3</sub> MA	20 Minute	Lecture

### Course - III

### Semester - II

### WORD AND DATA PROCESSING PACK-

### **AGES**

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
11	Total Week to complete	21
	Distribution of Inter	rnal Marks
12	Attendance	5
13	Assignment/Seminar	5
14	Assessment Test	$10 (2 \times 5 = 10)$

Module	Module Title	Delivery Methods	Total hours	Number of Weeks to complete
1	Word processing packages	Chalk and talk, ICT	12	6
2	Page Maker	Chalk and talk	12	6
3	MS-Excel	Chalk and talk	12	6

### 7.3 Continuous Evaluation Schedule

#### 7.3.1 Test paper

No.	Week	Total	Time	Exam type
110.	Week	marks	duration	Exam type
1	7	20	1 Hours	Assessment Test
2	14	20	1 Hours	Assessment Test
3	21	80	3 Hours	Model Examination

#### 7.3.2 Assignments

No.	Week	Duration	Assignments type
1	7	1 Week	Problem solving
2	14	1 Week	Problem solving
3	21	1 Week	Problem solving

NI.	Week Number of seminars	Ti	Delivery	
No.	week	Number of seminars	Time duration	method
1	7	3	20 Minute	Lecture
2	14	3	20 Minute	Lecture
3	21	MA <sub>3</sub> MA	20 Minute	Lecture

### Course - IV

### Semester – II

### PROGRAMMING IN ANSI C

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
11	Total Week to complete	21
	Distribution of Inter	rnal Marks
12	Attendance	5
13	Assignment/Seminar	2
14	Assessment Test	$8 (2 \times 4 = 8)$

Module	Module Title	Delivery Methods	Total hours	Number of Weeks to complete
1	Basic concept of programming	Chalk and talk,	8	4
2	Decision making and Branching	Chalk and talk	10	5
3	Arrays and strings	Chalk and talk,	8	4
4	User defined functions	Chalk and talk,ICT	10	5

#### 8.3 Continuous Evaluation Schedule

#### 8.3.1 Test paper

No.	Week	Total marks	Time duration	Exam type	
		marks	uuration		
1	7	20	1 Hours	Assessment Test	
2	14	20	1 Hours	Assessment Test	
3	21	60	3 Hours	Model Examination	

#### 8.3.2 Assignments

No.	Week	Duration	Assignments type
1	7	1 Week	Problem solving
2	14	1 Week	Problem solving
3	21	1 Week	Problem solving

NT.	W71-	Week Number of geniners	Time demotion	Delivery
No.	Week	Number of seminars	Time duration	method
1	7	3	20 Minute	Lecture
2	14	3	20 Minute	Lecture
3	21	A <sub>3</sub> WA	20 Minute	Lecture

### Course - V

### Semester - III

### CONCEPTS OF OBJECT ORIENTED PRO-

### **GRAMMING**

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
11	Total Week to complete	21
	Distribution of Inter	rnal Marks
12	Attendance	5
13	Assignment/Seminar	2
14	Assessment Test	8 (2 × 4 = 8)

Module	Module Title	Delivery Methods	Total hours	Number of Weeks to complete
1	Basic concept of object oriented languages	Chalk and talk	9	3
2	Classes and objects	Chalk and talk	12	4
3	constructor and destructor	Chalk and talk,ICT	10	4
4	Inheritance and operator overloading	Chalk and talk	23	8

#### 9.3 Continuous Evaluation Schedule

#### 9.3.1 Test paper

No.	Week	Total marks	Time duration	Exam type
		marks	uuration	
1	7	20	1 Hours	Assessment Test
2	14	20	1 Hours	Assessment Test
3	21	60	3 Hours	Model Examination

#### 9.3.2 Assignments

No.	Week	Duration	Assignments type
1	7	1 Week	Problem solving
2	14	1 Week	Problem solving
3	21	1 Week	Problem solving

No. Wool-	Name have of comin and	Ti	Delivery	
No.	Week	Number of seminars	Time duration	method
1	7	3	20 Minute	Lecture
2	14	3	20 Minute	Lecture
3	21	MA <sub>3</sub> MA	20 Minute	Lecture

### Course - VI

### Semester – III

### **OPERATING SYSTEMS**

Course	Vocational				
Course Type	Theory				
Course Code	CA3VOT06				
Credit	3				
Duration of External Examination	3 hours				
External Assessment	60				
Internal Assessment	15				
Total hours	54				
Hours per Week	4				
Number of Modules	4				
Total Week to complete	17				
Distribution of Internal Marks					
Attendance	5				
Assignment/Seminar	2				
Assessment Test	8 (2 × 4 = 8)				
	Course Type Course Code Credit Duration of External Examination External Assessment Internal Assessment Total hours Hours per Week Number of Modules Total Week to complete Distribution of Inter Attendance Assignment/Seminar				

Module	Module Title	Delivery Methods	Total hours	Number of Weeks to complete
1	Introduction to operating systems	Chalk and talk, ICT	10	3
2	Process management	Chalk and talk ICT	8	2
3	CPU scheduling	Chalk and talk	18	5
4	Memory management basics	Chalk and talk	18	5

#### 10.3 Continuous Evaluation Schedule

#### 10.3.1 Test paper

No	No. Week	Total	Time	Exam type
INO.		marks	duration	Exam type
1	5	20	1 Hours	Assessment Test
2	11	20	1 Hours	Assessment Test
3	17	60	3 Hours	Model Examination

#### 10.3.2 Assignments

No.	Week	Duration	Assignments type
1	5	1 Week	Problem solving
2	11	1 Week	Problem solving
3	17	1 Week	Problem solving

NT -	Week Number of seminars	N	Ti	Delivery
No.	week	Number of seminars	Time duration	method
1	5	3	20 Minute	Lecture
2	11	3	20 Minute	Lecture
3	17	MA <sub>3</sub> MA	20 Minute	Lecture

# Course - VII

# Semester - IV

# VISUAL BASIC PROGRAMMING

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				
11	Total Week to complete	14				
	Distribution of Internal Marks					
12	Attendance	5				
13	Assignment/Seminar	2				
14	Assessment Test	$8 (2 \times 4 = 8)$				

Module	Module Title	Delivery Methods	Total hours	Number of Weeks to complete
1	Introduction	Chalk and talk	22	5
2	methos, properties and events	Chalk and talk	14	3
3	Function and file handling	Chalk and talk	8	2
4	File handling	Chalk and talk ICT	10	2

#### 11.3 Continuous Evaluation Schedule

#### 11.3.1 Test paper

NT	337 1	Total	Time	
No.	Week	marks	duration	Exam type
1	4	20	1 Hours	Assessment Test
2	9	20	1 Hours	Assessment Test
3	14	60	3 Hours	Model Examination

#### 11.3.2 Assignments

No.	Week	Duration	Assignments type
1	4	1 Week	Problem solving
2	9	1 Week	Problem solving
3	14	1 Week	Problem solving

NT.	W71-	Number of seminars Time duration		Delivery
No.	Week	Number of seminars	Time duration	method
1	4	3	20 Minute	Lecture
2	9	3	20 Minute	Lecture
3	14	MA <sub>3</sub> MA	20 Minute	Lecture

# Course - VIII

# Semester – IV

# WEB DEVELOPMENT AND PHP PROGRAM

# **MING**

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			
11	Total Week to complete	21			
	Distribution of Internal Marks				
12	Attendance	5			
13	Assignment/Seminar	2			
14	Assessment Test	$8(2 \times 4 = 8)$			

Module	Module Title	Delivery Methods	Total hours	Number of Weeks to complete
1	HTML and CSS	Chalk and talk, ICT	18	6
2	Javascript	Chalk and talk	12	4
3	PHP And Mysql	Chalk and talk,	15	5
4	implementing MySQL using PHP	Chalk and talk,ICT	9	3

#### 12.3 Continuous Evaluation Schedule

#### 12.3.1 Test paper

NT	Total Time			
No.	Week	marks	duration	Exam type
1	7	20	1 Hours	Assessment Test
2	14	20	1 Hours	Assessment Test
3	21	60	3 Hours	Model Examination

#### 12.3.2 Assignments

No.	Week	Duration	Assignments type
1	7	1 Week	Problem solving
2	14	1 Week	Problem solving
3	21	1 Week	Problem solving

NT -	Week Number of seminars Time duration		Ti	Delivery
No.	week	Number of seminars	Time duration	method
1	7	3	20 Minute	Lecture
2	14	3	20 Minute	Lecture
3	21	MA <sub>3</sub> MA	20 Minute	Lecture

# Course - I

# Semester - I

# **Computer Fundamentals**

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			
11	Total Week to complete	21			
	Distribution of Internal Marks				
12	Attendance	0			
13	Assignment/Seminar	0			
14	Assessment Test	$0 (0 \times 0 = 0)$			

Module	Module Title	Delivery Methods	Total hours	Number of Weeks to complete
1	Fundamentals of Computers	Chalk and talk,	10	5
2	Number systems	Chalk and talk	6	3
3	Boolean Algebra and Logic circuits	Chalk and talk	8	4
4	Computer Software and Languages	Chalk and talk	6	3
5	Operating system	Chalk and talk, ICT	6	3

### 13.3 Continuous Evaluation Schedule

#### 13.3.1 Test paper

No	Wools	Total	Time	Durana tauna
No.	Week	marks	duration	Exam type
1	7	20	1 Hours	Assessment Test
2	14	20	1 Hours	Assessment Test
3	21	60	3 Hours	Model Examination

#### 13.3.2 Assignments

No.	Week	Duration	Assignments type
1	7	1 Week	Problem solving
2	14	1 Week	Problem solving
3	21	1 Week	Problem solving

No	Week	Number of comin and	Time demotion	Delivery
No.	week	Number of seminars	Time duration	method
1	7	3	20 Minute	Lecture
2	14	3	20 Minute	Lecture
3	21	3	20 Minute	Lecture

# Course - II

# Semester – II

# Progarmming In C Language

1CourseComplementary2Course TypeTheory3Course CodeCA2CMT024Credit35Duration of External Examination3 hours6External Assessment607Internal Assessment108Total hours36						
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						
4 Credit 3 5 Duration of External Examination 3 hours 6 External Assessment 60 7 Internal Assessment 10 8 Total hours 36						
5 Duration of External Examination 3 hours 6 External Assessment 60 7 Internal Assessment 10 8 Total hours 36						
6 External Assessment 60 7 Internal Assessment 10 8 Total hours 36						
7 Internal Assessment 10 8 Total hours 36						
8 Total hours 36						
9 Hours per Week 2						
10 Number of Modules 5						
11 Total Week to complete 21						
Distribution of Internal Marks						
12 Attendance 0						
13 Assignment/Seminar 0						
14 Assessment Test $0 (0 \times 0 = 0)$						

Module	Module Title	Delivery Methods	Total hours	Number of Weeks to complete
1	Basic concepts of programming	Chalk and talk	6	3
2	Decision making and Branching	Chalk and talk	10	5
3	Arrays	Chalk and talk	8	4
4	User defined functions	Chalk and talk	8	4
5	Structure	Chalk and talk	4	2

#### 14.3 Continuous Evaluation Schedule

#### 14.3.1 Test paper

No.	Week	Total marks	Time duration	Exam type
<u> </u>		marks	daration	
1	7	20	1 Hours	Assessment Test
2	14	20	1 Hours	Assessment Test
3	21	60	3 Hours	Model Examination

#### 14.3.2 Assignments

No.	Week	Duration	Assignments type
1	7	1 Week	Problem solving
2	14	1 Week	Problem solving
3	21	1 Week	Problem solving

No.	Week	Number of seminars	Time duration	Delivery method
1	7	3	20 Minute	Lecture
2	14	3	20 Minute	Lecture
3	21	3	20 Minute	Lecture

# **Web Technology and Programming**

1CourseComplementary2Course TypeTheory3Course CodeCA3CMT034Credit25Duration of External Examination3 hours6External Assessment607Internal Assessment108Total hours36						
3 Course Code CA3CMT03 4 Credit 2 5 Duration of External Examination 3 hours 6 External Assessment 60 7 Internal Assessment 10						
4 Credit 2 5 Duration of External Examination 3 hours 6 External Assessment 60 7 Internal Assessment 10						
5 Duration of External Examination 3 hours 6 External Assessment 60 7 Internal Assessment 10						
6 External Assessment 60 7 Internal Assessment 10						
7 Internal Assessment 10						
8 Total hours 36						
9 Hours per Week 2						
10 Number of Modules 5						
11 Total Week to complete 21						
Distribution of Internal Marks						
12 Attendance 0						
13 Assignment/Seminar 0						
14 Assessment Test $0 (0 \times 0 = 0)$						

Module	Module Title	Delivery Methods	Total hours	Number of Weeks to complete
1	Computer networks	Chalk and talk,	6	3
2	Concept of ISP	Chalk and talk	6	3
3	Web server	Chalk and talk,	8	4
4	The art of creating the website	Chalk and talk,ICT	10	5
5	Introduction web browsers	Chalk and talk,	6	3

#### 15.3 Continuous Evaluation Schedule

#### 15.3.1 Test paper

No.	Week	Total	Time	Exam type
		marks	duration	
1	7	20	1 Hours	Assessment Test
2	14	20	1 Hours	Assessment Test
3	21	60	3 Hours	Model Examination

#### 15.3.2 Assignments

No.	Week	Duration	Assignments type
1	7	1 Week	Problem solving
2	14	1 Week	Problem solving
3	21	1 Week	Problem solving

NI. Wash	Wools	Week Number of seminars	Time duration	Delivery
No.	week			method
1	7	3	20 Minute	Lecture
2	14	3	20 Minute	Lecture
3	21	3	20 Minute	Lecture

# **Visual Programming Techniques**

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			
11	Total Week to complete	21			
	Distribution of Internal Marks				
12	Attendance	0			
13	Assignment/Seminar	0			
14	Assessment Test	$0 (0 \times 0 = 0)$			

Module	Module Title	Delivery Methods	Total hours	Number of Weeks to complete
1	Data Base Management System	Chalk and talk	4	2
2	Visual Basic - Basic Concepts	Chalk and talk	10	5
3	Designing the User Interface	Chalk and talk,ICT	8	4
4	Controls	Chalk and talk	8	4
5	Mastering Menus and Toolbars	Chalk and talk	6	3

### 16.3 Continuous Evaluation Schedule

#### 16.3.1 Test paper

No	Wools	Total	Time	Durana tauna
No.	Week	marks	earks duration Exam ty	Exam type
1	7	20	1 Hours	Assessment Test
2	14	20	1 Hours	Assessment Test
3	21	60	3 Hours	Model Examination

#### Assignments **16.3.2**

No.	Week	Duration	Assignments type	
1	7	1 Week	Problem solving	
2	14	1 Week	Problem solving	
3	21	1 Week	Problem solving	
16.3.3 Se	minar	NAII	A COLL	EGA
				n

No.	Week	Week Number of seminars Time duration		Delivery
140.	WEEK	rumper of seminars	Time duration	method
1	7	3	20 Minute	Lecture
2	14	3	20 Minute	Lecture
3	21	3	20 Minute	Lecture

# Course - I

# Semester - I & II

# Software Lab I (P)

1	Course Type	Practical
2	Course Code	CA1VOP01
3	Credit	3
4	Duration of External Examination	3 hours
5	External Assessment	80
6	Internal Assessment	20
7	Total hours	144
8	Hours per Week	4
9	Number of Experiments	15
10	Total Week to complete	21
	Distribution of Inter	rnal Marks
11	Attendance	2
12	Record	4
13	Assessment Test	$4(1\times 4=1)$

# Course - II

# Semester - I & II

# Software Lab II(P)

1	Course Type	Practical
2	Course Code	CA2VOP02
3	Credit	3
4	Duration of External Examination	3 hours
5	External Assessment	80
6	Internal Assessment	20
7	Total hours	144
8	Hours per Week	4
9	Number of Experiments	15
10	Total Week to complete	21
	Distribution of Inter	rnal Marks
11	Attendance	2
12	Record	4
13	Assessment Test	4 (1 × 4 = 1)

# Course - III

# Semester – II & III

# Software Lab III(P)

1	Course Type	Practical
2	Course Code	CA3VOP03
3	Credit	3
4	Duration of External Examination	3 hours
5	External Assessment	80
6	Internal Assessment	20
7	Total hours	180
8	Hours per Week	6
9	Number of Experiments	15
10	Total Week to complete	18
	Distribution of Inter	rnal Marks
11	Attendance	2
12	Record	4
13	Assessment Test	$4(1\times 4=1)$

# Course - IV

# Semester – III & IV

# Software Lab IV Project(P)

1	Course Type	Practical
2	Course Code	CA4VOP04
3	Credit	3
4	Duration of External Examination	3 hours
5	External Assessment	80
6	Internal Assessment	20
7	Total hours	180
8	Hours per Week	6
9	Number of Experiments	15
10	Total Week to complete	18
	Distribution of Inter	rnal Marks
11	Attendance	2
12	Record	4
13	Assessment Test	4 (1 × 4 = 1)

# Course - I

# Semester - I & II

# Introduction to Computers and ANSI C Programming(P)

1	Course Type	Practical			
2	Course Code	CA2VOP01			
3	Credit	2			
4	Duration of External Examination	3 hours			
5	External Assessment	40			
6	Internal Assessment	10			
7	Total hours	72			
8	Hours per Week	2			
9	Number of Experiments	15			
10	Total Week to complete	21			
	Distribution of Internal Marks				
11	Attendance	2			
12	Record	4			
13	Assessment Test	4 (1 × 4 = 1)			

# Semester – III & IV

# Data Processing Packages, Operating System and Visual Basic Programming(P)

1	Course Type	Practical		
2	Course Code	CA4VOP02		
3	Credit	2		
4	Duration of External Examination	3 hours		
5	External Assessment	40		
6	Internal Assessment	10		
7	Total hours	72		
8	Hours per Week	2		
9	Number of Experiments	15		
10	Total Week to complete	21		
Distribution of Internal Marks				
11	Attendance	2		
12	Record	4		
13	Assessment Test	4 (1 × 4 = 1)		

# Course - III

# Semester – III & IV

# C++ Programming and Web Development(P)

1	Course Type	Practical
2	Course Code	CA4VOP03
3	Credit	2
4	Duration of External Examination	3 hours
5	External Assessment	40
6	Internal Assessment	10
7	Total hours	72
8	Hours per Week	2
9	Number of Experiments	15
10	Total Week to complete	21
	Distribution of Inter	rnal Marks
11	Attendance	2
12	Record	4
13	Assessment Test	4 (1 × 4 = 1)

# Course - I

# Semester - I & II

# Software Lab I (P)

1	Course Type	Practical
2	Course Code	CA2CMP01
3	Credit	2
4	Duration of External Examination	3 hours
5	External Assessment	40
6	Internal Assessment	20
7	Total hours	144
8	Hours per Week	2
9	Number of Experiments	15
10	Total Week to complete	39
	Distribution of Inter	rnal Marks
11	Attendance	2
12	Record	4
13	Assessment Test	$4 (1 \times 4 = 1)$

# Course - II

# Semester – III & IV

# Software Lab II(P)

1	Course Type	Practical
2	Course Code	CA2CMP02
3	Credit	2
4	Duration of External Examination	3 hours
5	External Assessment	40
6	Internal Assessment	20
7	Total hours	144
8	Hours per Week	2
9	Number of Experiments	15
10	Total Week to complete	39
	Distribution of Inter	rnal Marks
11	Attendance	2
12	Record	4
13	Assessment Test	$4(1\times 4=1)$