
Department of Chemistry
Pavanatma College, Murickassery
Idukki-685604

Curriculum Implementation Plan



Academic Year 2018 – 2019

Table of Contents

1	General and Analytical Chemistry	1
1.1	Course Overview	1
1.2	Implementation Schedule	2
1.3	Continuous Evaluation Schedule	2
1.3.1	Test paper	2
1.3.2	Assignments	3
1.3.3	Seminar	3
2	Theoretical and Inorganic Chemistry	4
2.1	Course Overview	4
2.2	Implementation Schedule	5
2.3	Continuous Evaluation Schedule	5
2.3.1	Test paper	5
2.3.2	Assignments	6
2.3.3	Seminar	6
3	Organic Chemistry I	7
3.1	Course Overview	7
3.2	Implementation Schedule	8
3.3	Continuous Evaluation Schedule	8

3.3.1	Test paper	8
3.3.2	Assignments	9
3.3.3	Seminar	9
4	Organic Chemistry II	10
4.1	Course Overview	10
4.2	Implementation Schedule	11
4.3	Continuous Evaluation Schedule	11
4.3.1	Test paper	11
4.3.2	Assignments	12
4.3.3	Seminar	12
5	Environment Ecology and Human Rights	13
5.1	Course Overview	13
5.2	Implementation Schedule	14
5.3	Continuous Evaluation Schedule	14
5.3.1	Test paper	14
5.3.2	Assignments	15
5.3.3	Seminar	15
6	Organic Chemistry III	16
6.1	Course Overview	16
6.2	Implementation Schedule	17
6.3	Continuous Evaluation Schedule	17
6.3.1	Test paper	17
6.3.2	Assignments	18
6.3.3	Seminar	18
7	Physical Chemistry I	19
7.1	Course Overview	19
7.2	Implementation Schedule	20

7.3	Continuous Evaluation Schedule	20
7.3.1	Test paper	20
7.3.2	Assignments	21
7.3.3	Seminar	21
8	Physical Chemistry II	22
8.1	Course Overview	22
8.2	Implementation Schedule	23
8.3	Continuous Evaluation Schedule	23
8.3.1	Test paper	23
8.3.2	Assignments	24
8.3.3	Seminar	24
9	Chemistry in Everyday Life	25
9.1	Course Overview	25
9.2	Implementation Schedule	26
9.3	Continuous Evaluation Schedule	26
9.3.1	Test paper	26
9.3.2	Assignments	27
9.3.3	Seminar	27
10	Inorganic Chemistry	28
10.1	Course Overview	28
10.2	Implementation Schedule	29
10.3	Continuous Evaluation Schedule	29
10.3.1	Test paper	29
10.3.2	Assignments	30
10.3.3	Seminar	30
11	Organic Chemistry IV	31
11.1	Course Overview	31

11.2 Implementation Schedule	32
11.3 Continuous Evaluation Schedule	33
11.3.1 Test paper	33
11.3.2 Assignments	33
11.3.3 Seminar	33
12 Physical Chemistry III	34
12.1 Course Overview	34
12.2 Implementation Schedule	35
12.3 Continuous Evaluation Schedule	35
12.3.1 Test paper	35
12.3.2 Assignments	35
12.3.3 Seminar	36
13 Physical Chemistry IV	37
13.1 Course Overview	37
13.2 Implementation Schedule	38
13.3 Continuous Evaluation Schedule	38
13.3.1 Test paper	38
13.3.2 Assignments	38
13.3.3 Seminar	39
14 Soil and Agricultural Chemistry	40
14.1 Course Overview	40
14.2 Implementation Schedule	41
14.3 Continuous Evaluation Schedule	41
14.3.1 Test paper	41
14.3.2 Assignments	42
14.3.3 Seminar	42

15 Volumetric Analysis(P)	43
15.1 Course Overview	43
16 Qualitative Organic Analysis(P)	44
16.1 Course Overview	44
17 Qualitative Inorganic Analysis(P)	45
17.1 Course Overview	45
18 Organic Preparations and Basic Laboratory Techniques(P)	46
18.1 Course Overview	46
19 Physical Chemistry Practicals(P)	47
19.1 Course Overview	47
20 Gravimetric Analysis(P)	48
20.1 Course Overview	48

General and Analytical Chemistry

1.1 Course Overview

1	Teacher In Charge	Saji K. Jose Anju Augustine
2	Course	Core
3	Course Type	Theory
4	Course Code	CH1CRT01
5	Credit	2
6	Duration of External Examination	3 hours
7	External Assessment	60
8	Internal Assessment	15
9	Total hours	36
10	Hours per Week	2
11	Number of Modules	5
12	Total Week to complete	21
Distribution of Internal Marks		
13	Attendance	5
14	Assignment/Seminar	2
15	Assessment Test	8 (2 × 4 = 8)

1.2 Implementation Schedule

Module	Module Title	Delivery Methods	Total hours	Number of Weeks to complete
1	methodology of Chemistry	Chalk and talk, ICT	7	4
2	Periodic Table and Periodic Properties	Chalk and talk	5	3
3	Analytical Methods in Chemistry	Chalk and talk	12	6
4	Chromatographic Methods	Powerpoint Presenation	7	4
5	Evaluation of Analytical Data	Problem Solving	5	3

1.3 Continuous Evaluation Schedule

1.3.1 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	60	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 Seminar

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

Theoretical and Inorganic Chemistry

2.1 Course Overview

1	Teacher In Charge	Saji K. Jose Anju Augustine
2	Course	Core
3	Course Type	Theory
4	Course Code	CH2CRT02
5	Credit	2
6	Duration of External Examination	3 hours
7	External Assessment	60
8	Internal Assessment	15
9	Total hours	36
10	Hours per Week	2
11	Number of Modules	5
12	Total Week to complete	21
Distribution of Internal Marks		
13	Attendance	5
14	Assignment/Seminar	2
15	Assessment Test	8 (2 × 4 = 8)

2.2 Implementation Schedule

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

2.3 Continuous Evaluation Schedule

2.3.1 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	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

2.3.3 Seminar

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

Organic Chemistry I

3.1 Course Overview

1	Teacher In Charge	Saji K. Jose Anju Augustine Tijo Antony
2	Course	Core
3	Course Type	Theory
4	Course Code	CH3CRT03
5	Credit	3
6	Duration of External Examination	3 hours
7	External Assessment	60
8	Internal Assessment	15
9	Total hours	54
10	Hours per Week	3
11	Number of Modules	5
12	Total Week to complete	21
Distribution of Internal Marks		
13	Attendance	5
14	Assignment/Seminar	2
15	Assessment Test	8 (2 × 4 = 8)

3.2 Implementation Schedule

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

3.3 Continuous Evaluation Schedule

3.3.1 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	60	3 Hours	Model Examination

3.3.2 Assignments

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

3.3.3 Seminar

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

Organic Chemistry II

4.1 Course Overview

1	Teacher In Charge	Saji K. Jose Anju Augustine Tijo Antony
2	Course	Core
3	Course Type	Theory
4	Course Code	CH4CRT04
5	Credit	3
6	Duration of External Examination	3 hours
7	External Assessment	60
8	Internal Assessment	15
9	Total hours	54
10	Hours per Week	3
11	Number of Modules	3
12	Total Week to complete	21
Distribution of Internal Marks		
13	Attendance	5
14	Assignment/Seminar	2
15	Assessment Test	8 (2 × 4 = 8)

4.2 Implementation Schedule

Module	Module Title	Delivery Methods	Total hours	Number of Weeks to complete
1	Alcohols, Phenols and Ethers	Chalk and talk, ICT	16	6
2	Aldehydes and Ketones	Chalk and talk, ICT	20	7
3	Carboxylic acid, sulphonic acids and their Derivatives	Chalk and talk	18	6

4.3 Continuous Evaluation Schedule

4.3.1 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	60	3 Hours	Model Examination

4.3.2 Assignments

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

4.3.3 Seminar

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

Environment Ecology and Human Rights

5.1 Course Overview

1	Teacher In Charge	Saji K. Jose Anju Augustine Tijo Antony
2	Course	Core
3	Course Type	Theory
4	Course Code	CH5CRT05
5	Credit	4
6	Duration of External Examination	3 hours
7	External Assessment	60
8	Internal Assessment	15
9	Total hours	72
10	Hours per Week	4
11	Number of Modules	5
12	Total Week to complete	21
Distribution of Internal Marks		
13	Attendance	5
14	Assignment/Seminar	2
15	Assessment Test	8 (2 × 4 = 8)

5.2 Implementation Schedule

Module	Module Title	Delivery Methods	Total hours	Number of Weeks to complete
1	Introduction to Environmental Studies: Natural Resources	Chalk and talk	10	3
2	Environment: Pollution and Social Issues	Chalk and talk	18	5
3	Population and Environmental Issues	Chalk and talk	8	2
4	Ecological Chemistry	Chalk and talk	18	5
5	Human Rights	Chalk and Talk	18	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	60	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

5.3.3 Seminar

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

Organic Chemistry III

6.1 Course Overview

1	Teacher In Charge	Saji K. Jose Anju Augustine Tijo Antony
2	Course	Core
3	Course Type	Theory
4	Course Code	CH5CRT06
5	Credit	3
6	Duration of External Examination	3 hours
7	External Assessment	60
8	Internal Assessment	15
9	Total hours	54
10	Hours per Week	3
11	Number of Modules	7
12	Total Week to complete	21
Distribution of Internal Marks		
13	Attendance	5
14	Assignment/Seminar	2
15	Assessment Test	8 (2 × 4 = 8)

6.2 Implementation Schedule

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

6.3 Continuous Evaluation Schedule

6.3.1 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	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

6.3.3 Seminar

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

Physical Chemistry I

7.1 Course Overview

1	Teacher In Charge	Saji K. Jose Anju Augustine Tijo Antony
2	Course	Core
3	Course Type	Theory
4	Course Code	CH5CRT07
5	Credit	2
6	Duration of External Examination	3 hours
7	External Assessment	60
8	Internal Assessment	15
9	Total hours	36
10	Hours per Week	2
11	Number of Modules	4
12	Total Week to complete	21
Distribution of Internal Marks		
13	Attendance	5
14	Assignment/Seminar	2
15	Assessment Test	8 (2 × 4 = 8)

7.2 Implementation Schedule

Module	Module Title	Delivery Methods	Total hours	Number of Weeks to complete
1	Gaseous State	Chalk and talk	12	6
2	Liquid State	Chalk and talk	3	2
3	Solid State	Chalk and talk	12	6
4	Surface Chemistry and Colloidal State	Chalk and talk	9	5

7.3 Continuous Evaluation Schedule

7.3.1 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	60	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

7.3.3 Seminar

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

Physical Chemistry II

8.1 Course Overview

1	Teacher In Charge	Saji K. Jose Anju Augustine Tijo Antony
2	Course	Core
3	Course Type	Theory
4	Course Code	CH5CRT08
5	Credit	3
6	Duration of External Examination	3 hours
7	External Assessment	60
8	Internal Assessment	15
9	Total hours	36
10	Hours per Week	2
11	Number of Modules	3
12	Total Week to complete	21
Distribution of Internal Marks		
13	Attendance	5
14	Assignment/Seminar	2
15	Assessment Test	8 (2 × 4 = 8)

8.2 Implementation Schedule

Module	Module Title	Delivery Methods	Total hours	Number of Weeks to complete
1	Quantum Mechanics	Chalk and talk	14	7
2	Molecular Spectroscopy I	Chalk and talk, ICT	12	6
3	Molecular Spectroscopy II	Chalk and talk	10	5

8.3 Continuous Evaluation Schedule

8.3.1 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	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

8.3.3 Seminar

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

Chemistry in Everyday Life

9.1 Course Overview

1	Teacher In Charge	Saji K. Jose Anju Augustine Tijo Antony
2	Course	Core
3	Course Type	Theory
4	Course Code	CH5OPT01
5	Credit	3
6	Duration of External Examination	3 hours
7	External Assessment	80
8	Internal Assessment	20
9	Total hours	72
10	Hours per Week	4
11	Number of Modules	7
12	Total Week to complete	21
Distribution of Internal Marks		
13	Attendance	5
14	Assignment/Seminar	5
15	Assessment Test	10 (2 × 5 = 10)

9.2 Implementation Schedule

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

9.3 Continuous Evaluation Schedule

9.3.1 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

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

9.3.3 Seminar

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

Inorganic Chemistry

10.1 Course Overview

1	Teacher In Charge	Anju Augustine
2	Course	Core
3	Course Type	Theory
4	Course Code	CH6CRT09
5	Credit	3
6	Duration of External Examination	3 hours
7	External Assessment	60
8	Internal Assessment	15
9	Total hours	54
10	Hours per Week	3
11	Number of Modules	7
12	Total Week to complete	21
Distribution of Internal Marks		
13	Attendance	5
14	Assignment/Seminar	2
15	Assessment Test	8 (2 × 4 = 8)

10.2 Implementation Schedule

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

10.3 Continuous Evaluation Schedule

10.3.1 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	60	3 Hours	Model Examination

10.3.2 Assignments

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

10.3.3 Seminar

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

Organic Chemistry IV

11.1 Course Overview

1	Teacher In Charge	Saji K. Jose Anju Augustine Tijo Antony
2	Course	Core
3	Course Type	Theory
4	Course Code	CH6CRT10
5	Credit	3
6	Duration of External Examination	3 hours
7	External Assessment	60
8	Internal Assessment	15
9	Total hours	54
10	Hours per Week	3
11	Number of Modules	9
12	Total Week to complete	21
Distribution of Internal Marks		
13	Attendance	5
14	Assignment/Seminar	2
15	Assessment Test	8 (2 × 4 = 8)

11.2 Implementation Schedule

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

11.3 Continuous Evaluation Schedule

11.3.1 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	60	3 Hours	Model Examination

11.3.2 Assignments

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

11.3.3 Seminar

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

Physical Chemistry III

12.1 Course Overview

1	Teacher In Charge	Tijo Antony
2	Course	Core
3	Course Type	Theory
4	Course Code	CH6CRT11
5	Credit	3
6	Duration of External Examination	3 hours
7	External Assessment	60
8	Internal Assessment	15
9	Total hours	54
10	Hours per Week	3
11	Number of Modules	6
12	Total Week to complete	21
Distribution of Internal Marks		
13	Attendance	5
14	Assignment/Seminar	2
15	Assessment Test	8 (2 × 4 = 8)

12.2 Implementation Schedule

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

12.3 Continuous Evaluation Schedule

12.3.1 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	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

12.3.3 Seminar

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

Physical Chemistry IV

13.1 Course Overview

1	Teacher In Charge	Saji K. Jose
2	Course	Core
3	Course Type	Theory
4	Course Code	CH6CRT12
5	Credit	3
6	Duration of External Examination	3 hours
7	External Assessment	60
8	Internal Assessment	15
9	Total hours	54
10	Hours per Week	3
11	Number of Modules	5
12	Total Week to complete	21
Distribution of Internal Marks		
13	Attendance	5
14	Assignment/Seminar	2
15	Assessment Test	8 (2 × 4 = 8)

13.2 Implementation Schedule

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

13.3 Continuous Evaluation Schedule

13.3.1 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	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

13.3.3 Seminar

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

Soil and Agricultural Chemistry

14.1 Course Overview

1	Teacher In Charge	saji K. Jose Anju Augustine Tijo Antony
2	Course	Core
3	Course Type	Theory
4	Course Code	CH6CBT03
5	Credit	3
6	Duration of External Examination	3 hours
7	External Assessment	60
8	Internal Assessment	15
9	Total hours	54
10	Hours per Week	3
11	Number of Modules	5
12	Total Week to complete	21
Distribution of Internal Marks		
13	Attendance	5
14	Assignment/Seminar	2
15	Assessment Test	8 (2 × 4 = 8)

14.2 Implementation Schedule

Module	Module Title	Delivery Methods	Total hours	Number of Weeks to complete
1	Origin of Soil	Chalk and talk	9	3
2	Physical Properties of Soil	Chalk and talk	9	3
3	Chemistry aspects of soil	Chalk and talk	9	3
4	Plant Nutrients	Chalk and talk	18	6
5	Pesticides, Fugicides and Herbicide	Chalk and Talk	9	3

14.3 Continuous Evaluation Schedule

14.3.1 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	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

14.3.3 Seminar

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

Volumetric Analysis(P)

15.1 Course Overview

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

Qualitative Organic Analysis(P)

16.1 Course Overview

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

Qualitative Inorganic Analysis(P)

17.1 Course Overview

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

Organic Preparations and Basic Laboratory Techniques(P)

18.1 Course Overview

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

Physical Chemistry Practicals(P)

19.1 Course Overview

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

Gravimetric Analysis(P)

20.1 Course Overview

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