

PSN College of Engineering and Technology (Autonomous)
Melathediyoor, Tirunelveli – 627 152

M.Sc. Applied Chemistry
Curriculum

Semester I		L	P	C
1	Organic Chemistry - I	4	0	4
2	Inorganic Chemistry - I	4	0	4
3	Physical Chemistry - I	4	0	4
4	Applied Chemistry - I	3	0	3
5	Organic Chemistry Practical - I	0	5	-
6	Inorganic Chemistry Practical - I	0	5	-
7	Physical Chemistry Practical - I	0	5	-
		15	15	15
Semester II		L	P	C
1	Organic Chemistry – II	4	0	4
2	Inorganic Chemistry – II	4	0	4
3	Physical Chemistry – II	4	0	4
4	Applied Chemistry - II	3	0	3
5	Mini Project			3
6	Organic Chemistry Practical - I	0	5	4
7	Inorganic Chemistry Practical - I	0	5	4
8	Physical Chemistry Practical - I	0	5	4
		15	15	30
Semester III		L	P	C
1	Organic Chemistry – III	4	0	4
2	Inorganic Chemistry – III	4	0	4
3	Physical Chemistry – III	4	0	4
4	Applied Chemistry - III	3	0	3
5	Organic Chemistry Practical – II	0	5	4
6	Inorganic Chemistry Practical – II	0	5	4
7	Physical Chemistry Practical - II	0	5	4
		15	15	27
Semester IV		L	P	C
1	Applied Chemistry – IV	4	0	4
2	Applied Chemistry – V	4	0	4
3	Project	0	22	10
		08	22	18

Semester I and II

Seminar – 2 hours

Library – 2 hours

Summer Internship (II Semester):

Summer Internship shall be taken up by the students in reputed Industry or Research Institute with the approval of the Head of the Department. The duration of the internship will be a minimum of 2 weeks and a maximum of 3 weeks. The students should produce an Internship Completion Certificate from the Head of the industry/institution concerned after the completion of the internship. After the successful completion of the Internship the students shall submit a brief report and give a presentation to the faculty and fellow students on a day fixed for the same.

Internal and External Examinations:

For theory courses, the marks for the Continuous Internal Assessment (CIA) and End semester examination will be in the ratio 30:70.

30 marks for the CIA will be distributed as follows:

Average of three internal tests	=	20 marks
Attendance	=	05 marks
Seminar	=	05 marks

		30 marks

For practical courses, the marks for the CIA and End semester examination will be in the ratio 50:50.

50 marks for CIA will be distributed as follows:

Observation submission in time	=	15 marks
Record submission in time	=	10 marks
Attendance	=	05 marks
Comprehensive viva voce	=	20 marks

		50 marks

Evaluation of Mini Project is purely internal and the marks will be awarded as follows:

First Review*

(The student has to give a presentation on the objective, problem identified, highlights expected outcome) - 10 marks

Second Review*

(To be conducted in the middle of the course. The student should present the progress of the work carried out so far) - 15 marks

Final Review

Evaluation of Project Report by the Guide	-	10 marks
Viva Voce to be conducted by the Panel nominated by the HoD	-	15 marks

		50 marks

Evaluation of Project work in the IV semester will be done as follows:

Internal Evaluation = 50 marks

External Evaluation = 50 marks

The distribution of marks under internal evaluation will be as follows:

First Review*

(The student has to give a presentation on the objective, problem identified, highlights expected outcome)

- 10 marks

Second Review*

(To be conducted in the middle of the course. The student should present the progress of the work carried out so far)

- 15 marks

Final Review

Evaluation of Project Report by the Guide - 10 marks

Viva Voce to be conducted by the Panel nominated by the HoD - 15 marks

50 marks

*Review will be done by the Panel constituted by the HoD with Guide as the Convener (minimum three members including Guide)

Special Topics of Applied Chemistry

1. Chemical modeling – methods, software and applications.
2. Pharmaceutical chemistry
3. Polymer chemistry
4. Inorganic material science and technology
5. Biochemistry
6. Applied organic chemistry
7. Petro chemicals