



Name of the Program	M.Sc Chemistry
Name of the Program Coordinator	Ms. Neenumol K. K
Expected Achievement Level for PO, PSO & CO	3

## Analysis of CO Attainment

<i>Course No</i>	<i>Course Code</i>	<i>Course Name</i>	<i>Course Attainment Value</i>
Course 1	CH500101	Organometallics And Nuclear Chemistry	3
Course 2	CH500102	Structural And Molecular Organic Chemistry	3
Course 3	CH500103	Quantum Chemistry And Group Theory	3
Course 4	CH500104	Thermodynamics, Kinetic Theory And Statistical Thermodynamics	2.75
Course 5	CH500201	Coordination Chemistry	2.75
Course 6	CH500202	Organic Reaction Mechanics	2.5
Course 7	CH500203	Chemical Bonding And Computational Chemistry	2.75
Course 8	CH500204	Molecular Spectroscopy	3
Course 9	CH500205	Inorganic Chemistry Practical 1	3
Course 10	CH500206	Organic Chemistry Practical 1	3
Course 11	CH500207	Physical Chemistry Practical 1	3
Course 12	CH500301	Structural Inorganic Chemistry	3
Course 13	CH 500302	Organic Synthesis	3
Course 14	CH500303	Chemical Kinetics Surface Chemistry And Crystallography	3
Course 15	CH500304	Spectroscopic Methods In Chemistry	3
Course 16	CH 800401	Advanced Inorganic Chemistry	3
Course 17	CH800402	Advanced Organic Chemistry	3
Course 18	CH 800403	Advanced Physical Chemistry	3



Course 19	CH010405	Inorganic Chemistry Practical 2	3
Course 20	CH010406	Organic Chemistry Practical 2	3
Course 21	CH010407	Physical Chemistry Practical 2	3
Course 22	CH010404	Project	3
Course 23	CH010408	Viva	3

### Recommendations:

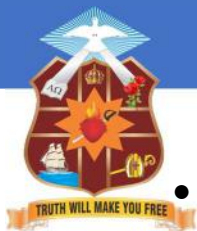
- Outcomes of Organic Reaction Mechanisms may be improved by student centric methods such as peer teaching and study circles.
- Provide assignments that improves research, reading and analytical skills.

## Analysis of PSO Attainment

<i>PSO No</i>	<i>PSO</i>	<i>PSO Attainment Value</i>
PSO1	Create awareness about the mechanisms of various organic reactions. ( Create)	2.59
PSO2	Explain the major concepts and theoretical principles in the field of organometallics and coordination chemistry. (Understand)	2.39
PSO3	Integrate scientific knowledge to design and analyse various molecular structures by computational methods. ( Analyse)	2.25
PSO4	Create knowledge about the analytical techniques in chemistry for the identification of ions. (Analyse)	2.31
PSO5	Solve problems using basic knowledge in quantum mechanics and group theory. ( Apply)	2.51

### Recommendations:

- Ask students to create a questionnaire from their syllabus
- To improve the subject learning by providing more self learning resources and engaging them in participative learning
- Subject-oriented workshops, seminars and activities to be organised



- Regular feedback to be provided based on student performance

## Analysis of PO Attainment

<i>PO No</i>	<i>PO's</i>	<i>PO Attainment Value</i>
PO1	Develop Critical thinking and drive for scientific exploration	2.42
PO2	Gain in-depth understanding of the principles and philosophies of the subject	2.40
PO3	Develop research aptitude	2.41
PO4	Acquire data interpretation and problem-solving skills	2.41
PO5	Acquire practical skills in the area of specialisation	2.41
PO6	Effective communication. Principles and concepts	2.42
PO7	Enhance employability through application-oriented learning	2.42
PO8	Practice professional and publication ethics thereby improve ethical decision-making ability	2.39
PO9	Create drive for leadership, innovation and entrepreneurship	2.38
PO10	Develop positive attitude towards environmental sustainability and inclusivity	2.39

### Recommendations:

- Internship and external project opportunities to be identified
- Seminars and workshops on the subject area as well as those for developing interpersonal skills need to be conducted
- More activities to be organised by students and more opportunities to be provided for interaction with experts in the field of environment, entrepreneurship etc

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