



Name of the Program	<b>M.Sc. Mathematics</b>
Name of the Program Co-ordinator	<b>Ms. Anju C. Augustine</b>
Expected Achievement Level for PO, PSO & CO	<b>3</b>

### Analysis of CO Attainment

<i>Course No</i>	<i>Course Code</i>	<i>Course Name</i>	<i>Course Attainment Value</i>
Course 1	ME010101	Abstract Algebra	3
Course 2	ME010102	Linear Algebra	2.8
Course 3	ME010103	Basic Topology	2.8
Course 4	ME010104	Real Analysis	3
Course 5	ME010105	Graph Theory	3
Course 6	ME010201	Advanced Abstract Algebra	2.8
Course 7	ME010202	Advanced Topology	2.8
Course 8	ME010203	Numerical Analysis With Python	2.8
Course 9	ME010204	Complex Analysis	2.8
Course 10	ME010205	Measure Theory And Integration	2.8
Course 11	ME010301	Advanced Complex Analysis	2.8
Course 12	ME010302	Partial Differential Equations	3
Course 13	ME010303	Multivariate Calculus And Integral Transforms	2.6
Course 14	ME010304	Functional Analysis	2.75
Course 15	ME010305	Optimization Techniques	3
Course 16	ME010401	Spectral Theory	2.8
Course 17	ME010402	Analytic Number Theory	3
Course 18	ME800401	Differential Geometry	3
Course 19	ME800402	Algorithmic Graph Theory	2.5
Course 20	ME800403	Combinatorics	3
Course 21	ME010403	Dissertation	3
Course22	ME010404	Comprehensive Viva-Voce	3



### Recommendations:

- The learning outcomes of the courses, Multivariate calculus and integral transform, Algorithmic graph theory and functional analysis to improved by introducing interactive learning , assessments and regular feedback.
- Implement the strategies for enhancing the learning outcomes of second semester courses-advanced abstract algebra, advanced topology, numerical analysis with python, complex analysis by incorporating student centric teaching methods

### Analysis of PSO Attainment

<i>PSO No</i>	<i>PSO</i>	<i>PSO Attainment Value</i>
PSO1	Solve problems logically (Create)	2.85
PSO2	Apply graphical procedures to solve real life problems (Apply)	2.80
PSO3	Analyse mathematical situations with abstract thinking (Analyse)	2.86
PSO4	Adapt logical approach and divergent thinking in real life situations (Create)	2.85
PSO5	Apply the theoretical knowledge and skills to identify, investigate and formulate new ideas and concepts (Apply)	2.85

### Recommendations:

- Application oriented classes by experts to be arranged
- Encourage cooperative learning
- Feedbacks and follow up actions on a regular basis

### 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	2.84
PO2	Gain in-depth understanding of the principles and philosophies of the subject	2.84
PO3	Develop research aptitude	2.84
PO4	Acquire data interpretation and problem-solving skills	2.84
PO5	Acquire practical skills in the area of specialization	2.84
PO6	Effective communication. Principles and concepts	2.84
PO7	Enhance employability through application-oriented learning	2.84



PO8	Practice professional and publication ethics thereby improve ethical decision making ability	2.85
PO9	Create drive for leadership, innovation and entrepreneurship	2.84
PO10	Develop positive attitude towards environmental sustainability and inclusivity	2.84

### Recommendations:

- Personalized guidance for students may be provided
- Internship and external project opportunities to be identified
- Assistance can be provided for exam preparation methods
- More activities to be organized by students and more opportunities to be provided for interaction with experts in the field of the subject, environment, entrepreneurship etc.

Report Prepared by : Ms. Anju C. Augustine (Program Co-ordinator)

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