

Program Outcomes (PO) for Under Graduate Programme in the subject of Mathematics

After successful completion of the programme, a student will be able to:

PO1 Have basic understanding and knowledge in different core areas of Mathematics such as algebra, analysis, calculus, differential equations, mechanics, numerical analysis and in some of the other elective areas. Demonstrate understanding of the concepts/theories/methods from such areas of Mathematics.

PO2. Have a broad background in Mathematics and develop the essential mathematical reasoning, knowledge, skills and aptitude to pursue further studies and research in Mathematics.

PO3 Communicate mathematics effectively and precisely by written, computational and graphical means.

PO4. Apply knowledge, understanding, methods, techniques and skills of Mathematics to analyze, evaluate and solve problems of Mathematics and/or the mathematical problems having applications in engineering/science/technology/life sciences/social sciences so as to enhance career prospects in different fields.

Course Outcomes (CO) for Under Graduate Programme in the Faculty of Sciences

CO1 Knowledge Capable of demonstrating comprehensive disciplinary knowledge gained during course of study

CO2 Communication Ability to communicate effectively on general and scientific topics with the scientific community and with society at large

CO3 Problem Solving Capability of applying knowledge to solve scientific and other problems

CO4 Individual and Team Work

Capable to learn and work effectively as an individual, and as a member or leader in diverse teams, in multidisciplinary settings.

CO5 Investigation of Problems

Ability of critical thinking, analytical reasoning and research based knowledge including design of experiments, analysis and interpretation of data to provide conclusions

CO6 Modern Tool usage Ability to use and learn techniques, skills and modern tools for scientific practices

CO7 Science and Society/Ability to apply reasoning to assess the different issues related to society and the consequent responsibilities relevant to the professional scientific practices

CO8 Life-Long Learning Aptitude to apply knowledge and skills that are necessary for participating in learning activities throughout the life


CO9 Environment and Sustainability

Ability to design and develop modern systems which are environmentally sensitive and to understand the importance of sustainable development.

CO10 Ethics Apply ethical principles and professional responsibilities in scientific practices

CO11 Project Management

Ability to demonstrate knowledge and understanding of the scientific principles and apply these to manage projects


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