

Course learning outcomes

Course learning outcomes of each course in B.Sc. Mathematics and B.A./B.Sc. Programme with Mathematics as a complementary course have been enshrined in the beginning of course contents of each course.

CORE COURSES													
Programme outcomes	Basic Logic and Number Theory	Calculus of Single Variable – 1	Calculus of Single Variable – 2	Linear Algebra	Abstract Algebra	Basic Analysis	Numerical Analysis	Linear Programming	Introduction to Geometry and Theory of Equations	Real Analysis	Complex Analysis	Calculus of Multi variable	Differential Equations
Disciplinary knowledge	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Communication skills	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Critical thinking	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Analytical thinking	✓	✓	✓			✓				✓	✓	✓	
Problem solving	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Research related skills	✓		✓	✓			✓		✓	✓	✓		✓
Information/ Digital Literacy	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Self-directed learning	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Lifelong learning	✓			✓		✓				✓			
Applicational skills	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Experimental learning	✓	✓	✓				✓	✓					✓
Employability options	✓			✓			✓	✓				✓	✓
Ethics	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

ELECTIVE COURSES			
Programme outcomes	Graph Theory	Topology of Metric spaces	Mathematical Programming with Python and \LaTeX
Disciplinary knowledge	✓	✓	✓
Communication skills	✓	✓	✓
Critical thinking		✓	✓
Analytical thinking		✓	✓
Problem solving	✓	✓	✓
Research related skills	✓	✓	✓
Information/Digital Literacy	✓	✓	✓
Self-directed learning	✓	✓	✓
Lifelong learning	✓	✓	✓
Applicational skills	✓	✓	✓
Experimental learning	✓		✓
Employability options	✓	✓	✓
Ethics	✓	✓	✓

OPEN COURSES				
Programme outcomes	Applied Calculus	Discrete Mathematics for Basic and Applied Sciences	Linear Mathematical Models	Mathematics for Decision Making
Disciplinary knowledge	✓	✓	✓	✓
Communication skills	✓	✓	✓	✓
Critical thinking	✓	✓	✓	✓
Analytical thinking	✓	✓	✓	
Problem solving	✓	✓	✓	✓
Research related skills	✓	✓	✓	✓
Information/ Digital Literacy	✓	✓	✓	✓
Self-directed learning	✓	✓	✓	✓
Lifelong learning	✓	✓	✓	✓
Applicational skills	✓	✓	✓	✓
Experimental learning	✓	✓	✓	✓
Employability options	✓	✓	✓	✓
Ethics	✓	✓	✓	✓

COMPLEMENTARY COURSES								
Programme outcomes	Mathematics				Mathematical Economics			
	MTS1 C01	MTS2 C02	MTS3 C03	MTS4 C04	MEC1 C01	MEC2 C02	MEC3 C03	MEC4 C04
Disciplinary knowledge	✓	✓	✓	✓	✓	✓	✓	✓
Communication skills	✓	✓	✓	✓	✓	✓	✓	✓
Critical thinking	✓	✓	✓	✓	✓	✓	✓	✓
Analytical thinking	✓	✓	✓			✓		✓
Problem solving	✓	✓	✓	✓	✓	✓	✓	✓
Research related skills				✓			✓	
Information/ Digital Literacy	✓	✓	✓	✓	✓	✓	✓	✓
Self-directed learning	✓	✓	✓	✓	✓	✓	✓	✓
Lifelong learning	✓			✓		✓		✓
Applicational skills	✓	✓	✓	✓	✓	✓	✓	✓
Experimental learning			✓	✓				✓
Employability options	✓			✓			✓	
Ethics	✓	✓	✓	✓	✓	✓	✓	✓