

Department of Mathematics, Physics and Computer Science

Course Title	Credits	Year
BASIC MATHEMATICS	2	1~
TOPICS IN MATHEMATICS I	2	1~
TOPICS IN MATHEMATICS II-1	2	1~
TOPICS IN MATHEMATICS II-2	2	1~
INTRODUCTION TO PHYSICAL SCIENCE I	2	1~
INTRODUCTION TO PHYSICAL SCIENCE II	2	1~
INTRODUCTION TO CHEMICAL SCIENCE I	2	1~
INTRODUCTION TO CHEMICAL SCIENCE II	2	1~
EXPERIMENTS IN CHEMICAL SCIENCE I	2	1~
EXPERIMENTS IN CHEMICAL SCIENCE II	2	1~
INTRODUCTION TO BIOLOGICAL SCIENCE I	2	1~
INTRODUCTION TO BIOLOGICAL SCIENCE II	2	1~
EXPERIMENTS IN BIOLOGICAL SCIENCE I	2	1~
EXPERIMENTS IN BIOLOGICAL SCIENCE II	2	1~
INTRODUCTION TO COMPUTER SCIENCE	2	1~
EXERCISES IN PROGRAMMING	1	1~
GEOLOGY I	2	3
LABORATORY WORK IN GEOLOGY I	1.5	3
GEOLOGY II	2	3
INTRODUCTION TO NATURAL SCIENCE	2	1~
LINEAR ALGEBRA I	2	1
PROBLEM SESSION IN LINEAR ALGEBRA I	1	1
CALCULUS I	2	1
PROBLEM SESSION IN CALCULUS I	1	1
LINEAR ALGEBRA II	2	1
PROBLEM SESSION IN LINEAR ALGEBRA II	1	1
CALCULUS II	2	1
PROBLEM SESSION IN CALCULUS II	1	1
NEWTONIAN MECHANICS I	2	1
BASIC EXPERIMENTS IN PHYSICS I	1.5	1
BASIC EXPERIMENTS IN PHYSICS II	1.5	1
COMPUTER ARCHITECTURE I	2	1
LINEAR ALGEBRA III	2	2
PROBLEM SESSION IN LINEAR ALGEBRA III	1	2
GROUP THEORY	2	2
PROBLEM SESSION IN GROUP THEORY	1	2
RING AND FIELD	2	3
GALOIS THEORY	2	3
SET THEORY	2	2
PROBLEM SESSION IN SET THEORY	1	2
GENERAL TOPOLOGY	2	2
PROBLEM SESSION IN GENERAL TOPOLOGY	1	2

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Course Title	Credits	Year
TOPOLOGICAL SPACE	2	3
DIFFERENTIAL GEOMETRY I	2	3
DIFFERENTIAL GEOMETRY II	2	3
SURFACE AND TOPOLOGY	2	3
HOMOLOGY AND TOPOLOGY	2	2,3
KNOT AND TOPOLOGY	2	2,3
CALCULUS III	2	2
PROBLEM SESSION IN CALCULUS III	1	2
CALCULUS IV	2	2
PROBLEM SESSION IN CALCULUS IV	1	2
COMPLEX ANALYSIS I	2	3
PROBLEM SESSION IN COMPLEX ANALYSIS I	1	3
COMPLEX ANALYSIS II	2	3
PROBLEM SESSION IN COMPLEX ANALYSIS II	1	3
LEBESGUE INTEGRAL	2	3
THEORY OF STOCHASTIC PROCESS	2	2
FOUNDATION OF NUMBERS	2	2
NONLINEAR DIFFERENTIAL EQUATIONS	2	3
MATHEMATICAL FINANCE	2	3
ANALYSIS FOR REAL WORLD	2	3
DATA SCIENCE	2	2
PROBLEM SESSION IN DATA SCIENCE	1	2
STATISTICAL ANALYSIS	2	3
PROBLEM SESSION IN STATISTICAL ANALYSIS	1	3
INFORMATION STATISTICS	2	3
NEWTONIAN MECHANICS II	2	2
ANALYTICAL MECHANICS	2	2
MATHEMATICAL PHYSICS I	2	1
MATHEMATICAL PHYSICS II	2	2
LINEAR SYSTEMS	2	2
ELECTROMAGNETISM I	2	2
ELECTROMAGNETISM II	2	2
ELECTROMAGNETISM III	2	3
VIBRATIONS AND WAVES	2	2
OPTICAL INFORMATION PROCESSING	2	2
EXERCISE IN PHYSICS I	2	2
EXERCISE IN PHYSICS II	2	2
INTRODUCTION TO ELECTRONICS	2	3
THERMODYNAMICS	2	2
STATISTICAL MECHANICS	2	3

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Course Title	Credits	Year
QUANTUM MECHANICS I	2	3
QUANTUM MECHANICS II	2	3
ELECTRONIC CIRCUITS	2	3
CRYSTALLOGRAPHY	2	3
CONDENSED MATTER PHYSICS	2	3
INTRODUCTION TO ASTRONOMY	2	2
UNIVERSE AND MODERN PHYSICS	2	3
APPLIED PHYSICS	2	3
COMPUTATIONAL PHYSICS	2	3
METHODS OF PHYSICAL MEASUREMENTS	2	3
EXPERIMENTS IN PHYSICS	2	2
ADVANCED EXPERIMENTS IN PHYSICS I	2	3
ADVANCED EXPERIMENTS IN PHYSICS II	2	3
BASIC MATHEMATICS FOR INFORMATION	2	2
DISCRETE MATHEMATICS	2	2
COMPUTER ARCHITECTURE II	2	2
DIGITAL CIRCUITS AND LOGIC DESIGN	2	2
DATA STRUCTURES AND ALGORITHMS	2	2
SIMULATION AND VISUALIZATION	2	2
COMPUTATIONAL MATHEMATICS I	2	2
COMPUTATIONAL MATHEMATICS II	2	2
MACHINE LEARNING	2	3
ADVANCED PROGRAMMING	2	3
EXPERIMENTS IN INFORMATION SCIENCE	2	2
PRACTICE OF INFORMATION RETRIEVAL AND DATABASE	1	2
EXERCISES IN PROGRAMMING II	1	2
PRACTICE OF WEB MEDIA PROCESSING	1	2
INTRODUCTION TO MULTI-MEDIA IN COMPUTER SCIENCE	2	3
APPLICATION OF INTELLIGENT SYSTEM	2	3
APPLICATION OF INTELLIGENT SYSTEM: PRACTICE	1	3
COMPUTER GRAPHICS	2	3
COMPUTER NETWORKS	2	2
INFORMATION SECURITY AND COMPUTER NETWORK SYSTEMS	2	3
ADMINISTRATION AND MANAGEMENT OF COMPUTER NETWORKS: PRACTICE	1	3
CODING THEORY	2	3
CRYPTOGRAPHY AND SECURITY	2	3
INFORMATION THEORY	2	3
ARTIFICIAL INTELLIGENCE	2	3
SOFTWARE ENGINEERING	2	3
WEB PROGRAMMING	2	3
PROFESSIONAL ETHICS IN INFORMATION SOCIETY	2	3

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Course Title	Credits	Year
TOPICS IN ALGEBRA A	2	4
TOPICS IN ALGEBRA B	2	4
TOPICS IN TOPOLOGICAL GEOMETRY A	2	4
TOPICS IN TOPOLOGICAL GEOMETRY B	2	4
TOPICS IN DIFFERENTIAL GEOMETRY A	2	4
TOPICS IN DIFFERENTIAL GEOMETRY B	2	4
TOPICS IN ANALYSIS A	2	4
TOPICS IN ANALYSIS B	2	4
TOPICS IN ANALYSIS C	2	4
TOPICS IN ANALYSIS D	2	4
SPECIAL TOPICS IN MATHEMATICAL STATISTICS A	2	4
SPECIAL TOPICS IN MATHEMATICAL STATISTICS B	2	4
SPECIAL TOPICS IN QUANTUM MECHANICS	2	4
SPECIAL TOPICS IN THERMODYNAMICS AND STATISTICAL MECHANICS	2	4
SPECIAL TOPICS IN SURFACE SCIENCE	2	4
SPECIAL TOPICS IN CONDENSED MATTER PHYSICS	2	4
SPECIAL TOPICS IN MATERIAL SCIENCE	2	4
SPECIAL TOPICS IN ASTROPHYSICS	2	4
SPECIAL TOPICS IN INFORMATION SCIENCE A	2	4
SPECIAL TOPICS IN INFORMATION SCIENCE B	2	4
SPECIAL TOPICS IN INFORMATION SCIENCE C	2	4
SPECIAL TOPICS IN INFORMATION SCIENCE D	2	4
SPECIAL TOPICS IN INFORMATION SCIENCE E	2	4
SPECIAL TOPICS IN INFORMATION SCIENCE F	2	4
BASIC SEMINAR IN MATHEMATICS	1	2
SEMINAR IN MATHEMATICS	1	3
SEMINAR IN PHYSICS I	1	3
SEMINAR IN PHYSICS II	1	3
SEMINAR IN INFORMATION SCIENCE I	1	3
SEMINAR IN INFORMATION SCIENCE II	1	3
GRADUATION STUDY OF MATHEMATICS I	1	4
GRADUATION STUDY OF MATHEMATICS II	1	4
ADVANCED STUDY OF MATHEMATICS I	1	4
ADVANCED STUDY OF MATHEMATICS II	1	4
ADVANCED STUDY OF PHYSICS I	2	4
ADVANCED STUDY OF PHYSICS II	2	4
ADVANCED STUDY OF INFORMATION SCIENCE I	2	4
ADVANCED STUDY OF INFORMATION SCIENCE II	2	4
GRADUATION THESIS	4	4