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Faculty of Physical Science

Course Outcomes

Bachelor of Science (B.Sc.)

SUBJECT: Mathematics

B.Sc. I Sem.

Paper- I: Algebra, Vector Analysis and Geometry

CO No.	Course Outcomes	Cognitive Level
CO-1	Recognize consistent and inconsistent systems of linear equation by	An
	the row, echelon from the augmented matrix, using the rank of matrix	
CO-2	To find the Eigen values and corresponding Eigen vectors for a square	EV
	matrix.	
CO-3	Utilizing the principles of vector calculus to address geometric problems, tailored to meet global, national, and local/regional needs and applications	U & An
CO-4	Enhance the knowledge of three dimensional geometrical figure (eg. Cone and cylinder)	Арр

B.Sc. II Sem.

Paper- II: Calculus and Differential equations

CO No.	Course Outcomes	
CO-1	Sketch curves in a plane using its mathematical in the different	
	coordinate system of reference.	
CO-2	Using the derivatives in Optimization Social sciences, Physics and Life	U & Ev
	sciences etc.	
CO-3	Formulate the Differential equations for various Mathematical models.	
		App
CO-4	Applying methods to solve and analyze diverse mathematical models,	App & U
	addressing global, national, and local/regional challenges and	
	requirements.	



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B.Sc. II Year

Paper- I: Abstract Algebra and Linear Algebra

CO No.	Course Outcomes	Cognitive Level
CO-1	Recognize the algebraic structures as a group, and classify them as abelian, cyclic and permutation groups, etc.	U & An
CO-2	Link the fundamental concepts of groups and symmetrical figures.	EV
CO-3	Analyze the subgroups of cyclic groups.	U & An
CO-4	Explain the significance of the notion of cosets, normal subgroups, and quotient groups.	App
CO-5	The fundamental concept of rings, fields, subrings, integral domains and the corresponding morphisms	U & An
CO-6	Analyze whether a finite set of vectors in a vector space is linearly independent. Explain the concepts of basis and dimension of a vector space.	U & An
CO-7	Understand the linear transformations, rank and nullity, matrix of a linear transformation, algebra of transformations and change of basis.	U
CO-8	Compute the characteristic polynomial, eigenvalues, eigenvectors, and eigenspaces, as well as the geometric and the algebraic multiplicities of an eigenvalue and apply the basic diagonalization result.	EV

Paper- II: Advanced calculus and Partial differential equations

CO No.	Course Outcomes	Cognitive Level
CO-1	Understand many properties of the real line Rand sequences	U
CO-2	Calculate the limit superior, the limit inferior, and the limit of a bounded sequence	U & Ev
CO-3	Apply the mean value theorems and Taylor's theorem.	App
CO-4	Apply the various tests to determine convergence and absolute convergence of an infinite series of real numbers	App & U
CO-5	Formulate, classify and transform partial differential equations into canonical form.	App



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SUBJECT: PHYSICS

B. Sc. I Semester

Paper: Mechanics and General Properties of Matter (Major/Minor)

	Course Outcomes	Cognitive Level
CO-1	The learner will use second order linear differential equations to study and solve problems in Harmonic oscillations	U, R, Ap,E
CO -2	Learner will be able to understand / recall Rigid body, Centre of mass, the connection between Rotational Dynamics and moment of inertia. Learner will be able to determine the Moment of inertia about a given axis of symmetry for different uniform mass distributions.	R, ,U, Ap, An, R, E
CO-3	Learner will be able to understand and apply the law of conservation of linear momentum and understand the conceptof center of mass, Elasticity and various elastic moduli	R, U, An, Ap, E
CO -4	Learner will be able to understand Principles of fluid flow and the equations governing fluid dynamics such as equation of continuity, Bernoulli's Theorem etc.	R , U , Ap, An, E
CO -5	Learner will be able to understand / recall Conservative force field, Gravitational potential, Gravitational self-energy, Central force, reduced mass, Kepler's law, Scattering.	U,R,Ap,An
CO -6	Learners will be able to understand the principles of Astrophysics and the special theory of relativity, adapting the understanding to align with global, national, and local/regional contexts and needs.	U, Ap, E, C

Paper: Mechanics and General Properties of Matter (Elective)

	Course Outcomes	PSOs Addressed	Cognitive Level
C O -1	The learner will utilize a variety of mathematical tools to analyze and resolve issues across different domains of physics, considering global, national, and local/regional applications and requirements.	1,2,3,6	U, R, E



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C O -2	Learner will be able to understand concepts of Gradient, Divergence and Curl and their applications, recall Laws of motion and to build fundamentals of Mechanics, Significance of Kepler's Laws of Planetary Motion & Importance of Collisions	1,2,3,6	R, ,U, Ap, An, R, E
C O-3	Learner will be able to understand the concept of Elasticity and various elastic moduli, Concept of Simple, Periodic & Harmonic Oscillation.	3,4,5,6	R, U, An, Ap, E
C O 4	Learner will be able to extend the concept of Translational and Rotational Dynamics and their application. Learner will be able to evaluate the Moment of inertia about a given axis of symmetry for different uniform mass distributions. Principles of fluid flow and the equations governing fluid dynamics such as equation of continuity, Bernoulli's Theorem etc.	3,4,5,6	R , U , Ap, An, E
C O 5	Learner will be able to understand the concept of Astro Physics, special theory of relativity.	3,4,5,6	Ap, E, C

B. Sc. II Semester

Paper: Thermodynamics and Statistical Physics (Major & Minor)

	Course Outcomes	PSOs	Cognitive Level
		Addressed	
CO -I	Learner will be able to recollect the Specific Contributions of Indians in thermodynamics and statistical mechanics.	3,5,6	U, C
CO -II	Learner will be able to make use of Basic concepts of thermodynamics & apply Maxwell's thermodynamic relations to derive various formulae.	1,2	U, R, E,Ap
CO -III	Learner will be able to use and apply the idea of Micro and Macro states, Ensembles, Statistical Probability and Phase Space.	1,3,6	R, U, An , Ap, E
CO -IV	Learner will be able to apply the idea of partition function and distribution function to classical and quantum statistics.	4,5,6	R , U , Ap, An, E



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B. Sc. II Semester

Paper: Thermodynamics and Statistical Physics (Elective)

	Course Outcomes	PSOs	Cognitive Level
		Addressed	
CO -I	Learner will be able to make use of Basic concepts of thermodynamics	1,2,6	U, R, E
CO -II	Learner will be able to apply Maxwell's thermodynamic relations to derive various formulae.	1,2	U, R, E,Ap
CLO -III	Learner will be able to use and apply the idea of Micro and Macro states, Ensembles, Statistical Probability and Phase Space.	1,3,6	R, U, An , Ap, E
CO -IV	Learner will be able to apply the idea of partition function and distribution function to classical and quantum statistics.	4,5,6	R , U , Ap, An, E

B. Sc. II Year

Paper I : Waves and Optics (Major)

CO No.	Course	PSOs	Cognitive
	Outcomes	Addressed	Level*
CO -I	Students will be able to understand the various aspects	1,2,3,4	U, R, E
	of harmonic oscillations and waves specially		
	superposition of collinear and perpendicular harmonic		
	oscillations		
CO -II	Students will be able to explain various phenomena of	1,2,3,4,5	U, R, Ap, E
	daily life based on acoustic and optics		
CO -III	Students will be able to understand interference and its	1,2,3,6	R, U, Ap,
	applications		An, E
CO -IV	Students will understand diffraction and be able to	1,2,3,4,5	R, U, An,
	outline the use of optical instruments depending on		Ap, E, C
	diffraction. Will be able to apply Rayleigh's criterion		
	to optical instruments		
CO -V	Students will understand polarization, double	1,2,3,4,5	U, An, Ap,
	refraction in anisotropic media and will be able to		E, R



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make use of optical instruments depending on	
polarization. Will be able to apply Huygen's principle	
to the phenomenon of polarization	

Paper II (Electricity, Magnetism and Electromagnetic theory) (Major /Minor & Elective)

CO No.	Course	PSOs	Cognitive
	Outcomes	Addressed	Level*
CO -I	The student will arrive at an understanding of	1,2,3,4	U, R, E, Ap
	electrostatics, Gauss's theorem, Gauss's law and their application,		
CO -II	The student will arrive at an understanding of Magnetostatistics with emphasis on Lorentz force, Biot-Savart law ant its application, Ampere's law, free and bound currents, magnetization vector, magnetic substances.	1,2,3,4,5	U, Ap, R, E
CO -III	The student will arrive at an understanding of steady & a-c, dc circuits, and various network theorem.	1,2,3,4	R, U,
CO -IV	The student will arrive at an understanding of the motion of charged particles in electric and magnetic fields, the relevant equipment and their use	1,2,3,4	U, R, Ap
CO -V	The student will arrive at an understanding of electrodynamics with emphasis on Faraday's laws, Maxwell equations and their application, Fresnel's equations,	1,2,3,4	U, R, Ap, C
CO -VI	The student will arrive at an understanding of electromagnetic waves with emphasis on, reflection, refraction and polarization at different media	1,2,3,4	U, Ap, E, C, An



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SUBJECT: Computer Science

B.Sc. I Sem

Paper: Minor Programming and Problem Solving through 'C'

CO No.	Course Outcomes	Cognitive
		Level
CO-1	Recognize scenarios where computational methods and computer	R, U
	technology can offer valuable solutions, tailored to address global,	
	national, and local/regional needs and challenges.	
CO-2	Given a computational problem, identify and abstract the	R, U
	programming task involved	
CO-3	Approach the programming tasks using techniques learned and write	AP
	pseudo code	
CO-4	Choose the right data representation formats based on the requirements	AP
	of the problem	
CO-5	Use the comparisons and limitations of the various programming	AP
	constructs and choose the right one for the task in hand	
CO-6	Write the program on a computer, edit, compile, debug, correct,	AN, C
	recompile and execute it.	
CO-7	Identify tasks in which the numerical techniques learned are applicable	AC, C
	and apply them to write programs, and hence use computers	
	effectively to solve the task.	

B.SC. II sem

Paper: Programming using C++ and Data Structure

CO	Course Outcomes	Cognitive
No.		Level
CO-1	Develop simple algorithms and flow charts to solve a problem with	AN
	programming using top down design principles.	
CO-2	Writing efficient and well-structured computer algorithms/programs	R, U
CO-3	Acquire the skill to develop iterative solutions and design array processing algorithms to tackle various problems, considering and adapting to global, national, and local/regional contexts and requirements	R, U, APP
CO-4	Use recursive techniques, pointers and searching methods in programming.	R, U, APP



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CO-5	Will be familiar with fundamental data structures, their implementation:	AN, U
	become accustomed to the description of algorithms in both functional and	
	procedural styles.	
CO-6	Have knowledge of complexity of basic operations like insert. delete, search	U
	on these data structures.	
CO-7	Possess ability to choose a data structure to suitably model any data used in	APP
	computer applications.	
CO-8	Design programs using various data structures including hash tables. Binary	APP
	and general search trees, heaps, graphs etc.	
CO-9	Assess efficiency tradeoffs among different data structure implementations	U
CO-	Implement and know the applications of algorithms for searching and	APP
10	sorting	

B.Sc. II Year

Paper- Minor

Object Oriented Programming with Java

CO No.	Course Outcomes	Cognitive
		Level
CO-1	Understand the basics of computer graphics, different graphics systems and applications of computer graphics	U
CO-2	Discuss various algorithms for scan conversion and filling of basic objects and their comparative analysis	U, APP
CO-3	Use of geometric transformations on graphics objects and their	U, APP,
	application in composite form.	С
CO-4	Extract scene with different clipping methods and its transformation to graphics display device	U, App, C
CO-5	Explore projections and visible surface detection techniques for display of 3D scene on 2D screen.	U, APP
CO-6	Understand the basics of computer graphics, different graphics systems and application of computer graphics	U, APP



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B.SC. II Year

Paper: MAJOR

Computer Networks & Information Security

CO	Course Outcomes	Cognitive
No.		Level
CO-1	Define and describe the components of a data communication system	UN, AN
	such asvarious protocols. OSI Model, data transmission in analog and	
	digital format	
CO-2	Identify and differentiate among the network devices and drivers	R, U, AN
CO-3	Learn and describe various error detection and correction methods	R, U
CO-4	Describe Various terminologies used in Network and Application layers.	R, U

Bachelor of Science (B.Sc.) SUBJECT: Chemistry B.Sc. I SEM

Paper- I: Major/Minor (FUNDAMENTALS OF CHEMISTRY)

CO No.	Course Outcomes	Cognitive Level
CO-1	Gain a thorough knowledge about various theories and principles applied to reveal atomic structure and quantum number	U, An
CO-2	Understand concepts of periodic properties of elements.	R, App
CO-3	Develop the Acid-Base concept and pH buffer	U,App
CO-4	Gain a thorough knowledge about factors responsible for reactivity of organic molecules	An, Ev
CO-5	Develop an understanding related to basics and Mechanism of Chemical Kinetic	U, K

Paper- I: Elective (Fundamentals of Chemistry)

CO	Course Outcomes	Cognitive
No.		Level
CO-1	Gain a thorough knowledge about various theories and principles applied to reveal atomic structure and quantum number	U, An
CO-2	Understand concepts of periodic properties of elements.	R, App
CO-3	Develop the Acid-Base concept and pH buffer	U,App
CO-4	Gain a thorough knowledge about factors responsible for reactivity	An, Ev



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	of organic molecules	
CO-5	Develop an understanding related to basics and Mechanism of Chemical Kinetic	U, K

B.Sc. II SEM

Paper- II: Major/Minor/Elective (Analytical Chemistry)

CO No.	Course Outcomes	Cognitive Level
CO-1	Comprehend the fundamental applications of mathematics and computers in the field of chemistry, considering and adapting to global, national, and local/regional needs.	U, R
CO-2	Gain a thorough knowledge about fundamentals of analytical chemistry and steps involved in analysis.	K, C, An
CO-3	Build the concepts of thermodynamics and chemical equilibrium	App, An
CO-4	Develop an understanding about principle of chromatography and spectroscopy and utilization of chromatographic and spectroscopic techniques in analysis	R, Ev

B.Sc. II Year Major/Minor/Elective Paper-1

Paper- I: Reaction, reagent and Mechanism in Organic Chemistry

	Tupor Triteworlon, rougent und Prochambin in Organie Chemistry		
CO	Course Outcomes	Cognitive	
No.		Level	
CO-1	Develop knowledge of various organic reactions, reagents and	App, Ev	
	their mechanism in understanding organic synthesis		
CO-2	Gain an understanding of the practical applications of reactions in diverse industries such as pharmaceuticals, polymers, pesticides, textiles, and dyes, tailored to meet global, national, and local/regional needs.	U, App	
CO-3	Develop knowledge about important key reactions used in higher studies and research in chemistry	R, Ev	
CO-4	Perform various reactions, which will be helpful in understanding organic synthesis.	R, App	
CO-5	Understand the use reagents while performing experiments based	K, An	



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	on certain organic reactions	
CO-6	Analyze and Synthesize some organic compounds	U, App

B.Sc. II YEAR Major/Minor/Elective (Theory)

CO	Course Outcomes	Cognitivo
No.	Course Outcomes	Level
CO-1	Develop an understanding about traditional Indian Chemistry	R, Un
CO-2	Understand the concepts of chemistry of d & f block elements, basic concepts of coordination chemistry.	App, U
CO-3	Explain Stereochemistry of transition metal complexes.	R, An
CO-4	Gain a thorough knowledge about Laws of thermodynamics and thermochemistry	K, Un
CO-5	Develop the concept of phase equilibrium with reference to solid solution, liquid-liquid mixture, partially miscible liquids.	App, C
CO-6	Develop an understanding about basic concepts of electrochemistry, various types of electrodes and their reactions.	Un, C

Paper 2: Transition Elements, Energetic, Phase equilibrium

Bachelor of Computer Application (B. C. A.)

SUBJECT: COMPUTER APPLICATION

B.C.A. I Sem

Paper: Elective Data Analysis & Visualization through spread sheet

CO	Course Outcomes	Cognitive
NO.		Level
CO-1	Prepare a spread sheet file and enter data into the sheet	AN
CO-2	Illustrate formatting and editing capabilities on the data	R, U
CO-3	Demonstrate basic calculation and save data	R, U, APP
CO-4	Demonstrate basic visualizing, analysing, organizing and sharing techniques	R, U, APP



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B.C.A. I Sem

Paper: Major Computer Fundamental Organization and Architecture

СО	Course Outcomes	Cognitive
No.		Level
	To study basic Gates practical implementation (AND, OR, NOT)	R, U
CO1	and verify their truth tables.	
CO2	Practical implementation NAND as Universal gate using IC 7400.	A, A
CO3	Practical implementation of half and full adder.	С, А, Е
CO4	Practical Implementation of Flip-Flop and De-Morgan's Law	С, А, Е
CO5	Quiz for understanding various types of memories.	U, A

B.C.A. I Sem

Paper: Minor Programming and Problem Solving through 'C'

CO No.	Course Outcomes	Cognitive Level
CO-1	Identify situations where computational methods and computers would be useful.	R, U
CO-2	Given a computational problem, identify and abstract the programming task involved	R, U
CO-3	Approach the programming tasks using techniques learned and write pseudo code	AP
CO-4	Choose the right data representation formats based on the requirements of the problem	AP
CO-5	Use the comparisons and limitations of the various programming constructs and choose the right one for the task in hand	AP
CO-6	Write the program on a computer, edit, compile, debug, correct, recompile and execute it.	AN, C
CO-7	Recognize practical applications where the numerical techniques learned are relevant and employ them to develop programs, effectively utilizing computers to address the task at hand, while considering global, national, and local/regional needs and contexts. Top of Form	AC, C



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Paper: Computational Mathematics

CO No.	Course Outcomes	Cognitive Level
CO-1	Implement trigonometric solutions for measurements in real world scenarios.	AN
CO-2	Implement. simultaneous & quadratic equations to solve complex problems	R, U
CO-3	Use Mathematical Logic and Predicate calculus for solving problems	R, U, APP
CO-4	Apply the concepts of set theory for finding solutions to set related problems	R, U, APP

B.C.A. II Sem

Paper: Elective Multimedia and Animation

СО	Course Outcomes	Cognitive
No.		Level
CO-1	Describe the various elements and aspect of multimedia and animation	AN
CO-2	Understand the role played by various multimedia platform	R, U
CO-3	Learn to add pictures, graphics, sound and animation to prepare a	R, U,
	project	APP
CO-4	Acquire presentation skills and foster creative ideas through the use of	R, U,
	multimedia tools, considering and adapting to global, national, and	APP
	local/regional requirements and contexts	
CO-5	Apply tools and techniques to create basic 2D and 3D animation	AN, U

B.C.A. II Sem

Minor Paper: Operating System

CO	Course Outcomes	Cognitive
No.		Level
CO-1	Describe the importance of computer system resources and the role of	AN
	operating system in their management policies and algorithms.	
CO-2	Specify objective of modern operating system and describe how operating	R, U
	systems and describe how operating systems have evolved over time.	
CO-3	Understand various process management concept and can compare various	R, U,
	scheduling techniques, synchronizationad deadlocks.	APP
CO-4	Describe the concepts of multithreading and memory management	R, U,
	techniques.	APP



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DST-FIST Supported & STAR College Scheme by DBTCO-5Identify the best suited memory management techniques for any processAN, UCO-6Describe various file operations, file allocation methods and disk space
management.AN, UCO-7To understand and identify potential threats to operating systems and the
security features design to guard against themImage: Colspan="2">CO-7

B.C.A. II Sem

Paper: Programming using C++ and Data Structure

CO	Course Outcomes	Cognitive
No.		Level
CO-1	Develop simple algorithms and flow charts to solve a problem with	AN
	programming using top down design principles.	
CO-2	Writing efficient and well-structured computer algorithms/programs	R, U
CO-3	Learn to formulate iterative solutions and array processing algorithms for problems.	R, U, APP
CO-4	Use recursive techniques, pointers and searching methods in programming.	R, U, APP
CO-5	Will be familiar with fundamental data structures, their implementation: become accustomed to the description of algorithms in both functional and procedural styles.	AN, U
CO-6	Have knowledge of complexity of basic operations like insert. delete, search on these data structures.	
CO-7	Possess ability to choose a data structure to suitably model any data used in computer applications.	
CO-8	Design programs using various data structures including hash tables. Binary and general search trees, heaps, graphs etc.	
CO-9	Assess efficiency tradeoffs among different data structure implementations	
CO- 10	Implement and know the applications of algorithms for searching and sorting	

B.C.A. II Year

Paper: MAJOR

Data Communication and Computer Networks

CO No.	Course Outcomes	Cognitive Level
CO-1	Demonstrate the Basic Concepts of Networking, Networking Principles, Routing Algorithms, IP Addressing and working of Networking Devices.	AN
CO-2	Demonstrate the significance, purpose and application of Networking protocols and Standards.	R, U



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CO-3	Describe, compare and contrast LAN, WAN, MAN, Intranet, Internet, AM,	R, U
	FM, PM and Various Switching Techniques.	
CO-4	Explain the working of Layers and apply the various protocols of OSI & amp;	R, U
	TCP/IP model.	
CO-5	Analyze the Requirement for a given Organizational structure and select the	AN, U
	most appropriate Networking Architecture and Technologies.	
CO-6	Design the Network Diagram and solve the Networking problems of the	AN, U,
	The organization with consideration of Human and the Environment install and configure the network devices	APP

Paper:Minor

Internet Applications using Java Programming

CO No.	Course Outcomes	Cognitive Level
CO-1	Use an integrated development environment to write, compile, run, and test simple object-oriented Java programs.	AN
CO-2	Read and make elementary modifications to Java programs that solve real- world problems.	R, U
CO-3	Validate input in a Java program.	R, U
CO-4	Design and use basic applet for web page	R, U, APP

B.C.A. II Year

Paper: Minor Data Base Management System

CO	Course Outcomes	Cognitive
No.		Level
CO-1	Explain the features of database management systems and relational database.	AN
CO-2	Design conceptual models of a database using ER modeling for real life applications and construct queries in relational algebra.	R, U
CO-3	Create and populate a RDBMS for a real-life application, with constraints and keys, using SQL.	R, U
CO-4	Retrieve any type of information from a database by formulating complex	R, U,
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CO-5	Analyse the existing design of a database schema and	AN, U
	apply concepts of normalization to design an optimal database.	



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B.C.A. II Year

Paper: ELECTIVE

Internet of Things (IOTs)

CO	Course Outcomes	Cognitive
No.		Level
CO-1	To understand the basics of the Internet of Things	AN
CO-2	To get an idea of some of the application areas where the Internet of Things can be applied.	R, U
CO-3	To understand the middleware for the Internet of Things and the concepts of the Web of Things.	R, U
CO-4	To understand the concepts of the Cloud of Things with an emphasis on Mobile cloud computing.	R, U, APP
CO-5	To understand the IOT protocols.	AN, U