



DEPARTMENT OF B.SC MATHEMATICS

COURSE OUTCOMES

I B.Sc Mathematics

SEMESTER: I

Subject Name: THEORY OF EQUATIONS AND TRIGONOMETRY

Subject Code: U22MAC11/ U3MAC11

On completing this course, students can/are

Cos	CO Statements
CO1:	Capable of solving algebraic equations using the relations between the roots and
	coefficients.
CO2:	Get skills in transforming equations in one form into another.
CO3:	Capable of finding the solutions of numerical equations using Horner's method.
CO4:	Perform expansion of $\sin\theta$, $\cos\theta$ tan θ and power of $\sin\theta$ and $\cos\theta$, in terms of
	functions of multiples of θ .
CO5:	Understand hyperbolic functions and logarithm of complex numbers.

Subject Name: CALCULUS

Subject Code: U22MAC12

Cos	CO Statement
CO1:	Acquire knowledge about Differential Calculus, subfield of Calculus.
CO2:	Understand that the derivative of a function at a chosen input value describes the rate of change of the function near that input value.
CO3:	Learn about envelopes and evolutes and know that an evolute is the envelope of the normals to a curve.
CO4:	Find large number of industrial applications like the shape of cooking towers, mirrors used for long distance telescope.
CO5:	Get the skills of evaluating integrals by the method of substitution, integration of functions, integration of trigonometric functions, evaluation of definite integrals, reduction formula.
CO6:	Know the usage of special types of integrals namely Beta and Gamma integrals.

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Subject Name: APPLICATIONS OF CALCULUS Subject Code: U22MAS11

On completing this course, students can/are

Cos	CO Statement
	Able to apply the knowledge of differential calculus in finding the maximum/minimum
	values in the field of commerce, economics, science and engineering and other branches of
CO1:	arts.
CO2:	Understand the role of Jacobian in the context of integration
	Know the usefulness of series expansion in handling the functions by expanding the function
CO3:	in terms of series
	Much aware of how the concept of integration is very useful in getting the area and volume
CO4:	of the standard/random shapes which are essential in real life problems.

SEMESTER: II

Subject Name: DIFFERENTIAL EQUATIONS

Subject Code: U22MAC21

On completing this course, students can/are

Cos	CO Statement
CO1:	Get skill of solving the ordinary differential equations, particularly homogeneous and non
	homogeneous equations.
CO2:	Able to find particular integrals of ordinary differential equations.
CO3:	Get exposure to the concepts of Charpit's method.
CO4:	Acquire the knowledge of solving partial differential equations.
CO5:	Be familiar with Lagrange's equation.

Subject Name: Analytial Geometry 3D and Vector Calculus

Subject Code: U22MAC22/ U3MAC22

Cos	CO Statement
CO1:	Know various forms of equations of a plane in three dimensional space.
CO2:	Study vector differentiation and vector integration.
CO3:	Find the shortest distance between two skew lines.
CO4:	Understand the concept of Gradient, Curl and Divergene.
CO5:	Be able to evaluate line integrals and Surface integrals.





Subject Name: APPLICATIONS OF VECTOR CALCULUS

Subject Code: U22MAS21

On completing this course, students can/are

Cos	CO Statement
CO1:	Able to compute the double integrals much easier way by using line integrals
	Much aware of link between the double integrals and triple integrals and use a proper (easier)
CO2:	dimension to resolve the given problem.
	Able to apply the knowledge of line integrals or vector integrals to most of the physical problem
CO3:	but not limited branch of physics.
CO4:	Much flexible or well equipped in finding value of the double, triple integrals

I B.Sc Mathematics (Physics | Chemistry)

Subject Name: ALGEBRA AND TRIGONOMETRY Subject Code: U22MAAX11

In this course the students will

CO1:	Gain knowledge on various series like binomial series, logarithmic series, and
	trigonometric series.
CO2:	Develop the ability to solve equations and understand the nature of roots of higher
	order equations.
CO3:	Acquire knowledge on hyperbolic functions.

Subject Name: CALCULUS AND MATRICES

Subject Code: U22MAAX21/ U2MAA2X2

In this course the students will

CO1:	Apply the reduction formula to solve problems in integral calculus.
CO2:	Utilize the concept of vector differentiation to identify the curl, divergence of a given vector.
CO3:	Construct the evolute of any curve using differential calculus.
CO4:	Develop the skills of solving simultaneous equations by marking use of the rank of matrices.
CO5:	Find the eigeon values, eigeon vectors of a given matrix.



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COURSE OUTCOME

SEMESTER III

DIFFERENTIAL EQUATIONS

Subject Code: U3MAC3

- To understand the basic terminologies in differential equations.
- To solve the differential equations of first order and higher degree.
- To facilitate a better understanding of some special methods of solving standard forms of partial differential equations

ALLIED – 3 ELECTRICITY & ELECTRONICS

Subject Code: U2PHA3X3

- To understand the fundamentals electrostatic parameters, Gauss's law and its application, Electric Potential, Capacitance and different types Capacitors.
- To learn about Kirchhoff's Laws and its applications, principle of potentiometer.
- To Study about the principle & working of galvanometer and LCR circuits.
- To Know about performance of transistor amplifiers and op-amps.
- To study the Study the principle of digital electronics and related concepts.

ALLIED – 3 General Chemistry - III

Subject Code: U2CHA3X3

- To know the basic requirements of chemical calculations.
- To acquire fundamental knowledge in bonding.
- To gain fundamental knowledge about adsorption, catalysis and co-ordination compounds.
- To study the principles water analysis.

ALLIED - 4 NUMERICAL METHODS

Subject Code: U3MAA3

- Understanding the distinction between accuracy and precision.
- Learning how to quantify error.
- Understanding how to write forward, backward and centered finite- difference approximations of first and second derivatives

SBE - APPLICATIONS OF DIFFERENTIAL EQUATIONS AND LAPLACE TRANSFORMS

Subject Code :U3MAS3

- To solve the real life problems using differential equations
- To Understand and apply the Laplace transform techniques in solving differential equations.



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SEMESTER IV

MODERN ALGEBRA

Subject Code: U3MAC4

- To know about the properties of groups, subgroups, normal subgroups.
- To know about homomorphism ,isomorphism of groups.
- To learn about rings, sub rings, characteristic of a ring and ideals.

ALLIED - 5 OPTICS, SPECTROSCOPY & MODERN PHYSICS

Subject Code: U2PHA4X4

- To understand the basics of geometrical and physical optics.
- To Study about the different technique in spectroscopy and photoelectricity.
- To Get basic knowledge about quantum physics
- To Understand the concept of relativity

ALLIED - 5 General Chemistry - IV

Subject Code: U3CHA4X4

- To study the basics of chemical equilibrium.
- To acquire basic idea about drugs.
- To gain knowledge about the chromatographic techniques.
- To understand the role of bio-organic materials.

LAB: Organic Qualitative Analysis

Subject Code: U2CHA4PX

• To gain fundamental knowledge about organic analysis

ALLIED – 6 MECHANICS

Subject Code: U3MAA4

- To know the concepts of forces and resolution of forces and its applications
- To acquire knowledge in Dynamics

ALLIED – 6 NUMERICAL METHODS AND MECHANICS

Subject Code : U3MAA4P

• To develop the skills of the students to solve computationally large problems using electronic tools in Numerical Methods and Mechanics



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COURSE OUTCOME

SEMESTER V

GRAPH THEORY AND ITS APPLICATIONS

Subject Code : U2MAC51

CO1: Gain the knowledge & the basic concepts of graph theory.

CO2: Master the ways & solving real life problems using graph models.

CO3: Develop the ability to apply various graph concepts in solving the challenging problems in real life.

CO4: Possess the Knowledge & various important conjectures and established theorems in graph theory.

LINEAR ALGEBRA AND MATRICES

Subject code : U2MAC52

CO1: Gain knowledge about the basic concepts of vector spaces and linear transformations.

CO2: Know the relationship between matrices and linear transformations.

CO3: Become familiar with the rank of the matrices.

CO4: Have thorough acquaintance with eigen values and eigen vectors.

REAL ANALYSIS

Subject Code : U3MAC53

CO1:	Able to identify the important properties of a non-empty subset of a metric space.
CO2:	Able to apply the concept of continuity in real life problems.
CO3:	Able to figure out similarities (in the sense of homeomorphism) among the metric
CO4:	Able to apply the theory to identify the complete metric spaces and make use of
	these spaces directly or indirectly to the real life problems.

SEQUENCES AND SERIES

Subject Code : U3MAA51

CO1:	Able to apply the important properties of order relation on \mathbb{R} .
CO2:	Capable of Solving problems pertaining to AM, GM and HM.
CO3:	Able to apply their skills in getting better approximation through the theory of
CO4:	Much aware about the concept of infinite series of numbers and their applications.
CO5:	Able to apply various tests of convergence of series to conclude the nature of series of positive terms.



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LINEAR PROGRAMMING

Subject Code : U3MAE51

- **CO1:** Getting the ability of converting the real life problems in to a LPP and apply the techniques of LPP to solve the problems.
- **CO2:** Able to apply the methods of optimization, viz., simplex method, Big-m method to solve the real life problems.
- CO3: Getting the idea of transporting the goods from source to destination at minimum
- **CO4:** Able to assign the jobs optimally to more suitable persons/machines so as to reduce the total working hours which in turn yields a maximum profit.
- **CO5:** Realize the mathematical background of each and every industry as a part of the industrial visit.

SBE- EMPLOYABILITY SKILLS

Subject Code: U1PS51

To enrich the Employability Skills by imparting Reason ing skills, Aptitude skills and General Knowledge.

Fundamentals of Mathematics

Subject code : U3MAN51

CO1: Classify different types of equations and solve them.

CO2: Be able to define sequence of numbers and understand progression as sequence.

CO3: Study different types of progressions and thereby study Arithmetic and Geometric means.

CO4: Understand the notion of set and describe different types of sets.

CO5: Possess the knowledge of Matrix and write down different types of matrices.

CO6: Perform algebra of Matrices.

SEMESTER VI COMPLEX ANALYSIS

Subject code : U2MAC61

- **CO1**: Demonstrate the idea of the Complex number system and work with arithmetic of complex numbers.
- **CO2**: Acquire a good knowledge of analytic functions in terms of power series approach, differentiability approach and the geometrical approach.
- **CO3**: Identify many important applications of line integrals and curve integrals by recalling Green's theorem, Stoke's theorem and Gauss Divergence theorem from vector calculus.
- **CO4**: Know the importance of improper integrals and the application of "Contour integration".
- **CO5**: Understand main ideas behind the elementary transformations like translation, rotation, homothetic transformation and inversion in transforming regions in the complex plane.





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STATISTICS

Subject Code : U3MAC62

CO1:	Is capable of analyzing statistical data using measures of central tendency and
CO2:	Could use the concept of the law of large numbers to define a random variable and
	the corresponding probabilities for a particular industrial or any real life problem.
CO3:	Is able to calculate probabilities, and derive the marginal and conditional
	distributions of bivariate random variables.
CO4:	Is able to translate real-world problems into probabilistic models and critically evaluate the
	underlying assumptions of analysis tools.
CO5:	Can understand and discuss the issues/significance in the framed hypothesis based on the
	samples.

OPERATIONS RESEARCH

Subject Code : U2MAC63

	6
CO1:	Identify and develop operations research models from the verbal description of the
CO2:	Understand the mathematical tools that are needed to solve optimization problems
CO3:	Apply the knowledge of game theory concepts to articulate real-world decision
	situations for identifying, analyzing, and practicing strategic decisions to counter
CO4:	Demonstrate solution methods including graphs and linear programming to analyze
	and solve the Two-person, zero-sum games
CO5:	Know the fundamental concepts of Operations Research.
CO6:	Develop mathematical models associated with network problems and find critical
	path analysis for an optimum solution

Project work

Subject Code : U1MA6PR

- Will get a little exposure to the field of research in mathematics.
- Able to convert a real life problem into a mathematical model and solve it by mathematical skills.
- Able to frame the hypothesis, derivations and conclusions of their mathematical model.
- Will familiarize about various applications of mathematics.

TRANSFORMATION TECHNIQUES

	Subject Code : U3MAS61
CO1:	Understand and apply Z Transforms techniques.
CO2:	Solve the finite difference problems using Z transforms.
CO3:	Write the Fourier series of functions which arouse naturally in real world problems.
CO4:	Apply the techniques of Fourier transform to solve the differential equations.



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RANDOM PROCESSES

Subject Code: U2MAS62

- CO1: Demonstrate about mathematical basis of continuous-time Markov chains.
- CO2: To formulate continuous-time Markov chain models for relevant practical systems.
- **CO3**: To apply the theory developed to specific problems in signal communications.
- CO4: Develop the attitude of the analyzing the role of random processes in system modeling.

NME 2 - STATISTICS AND OPERATIONS RESEARCH

Subject code : U2MAN61

CO1:	Able to apply mean, median and mode concepts in real life problems.
CO2:	Getting the ability of analyzing the economic problems using index numbers.
CO3:	Able to apply the optimization techniques in real life situations.
CO4:	Getting the ability of converting the real life problems in to a LPP and apply the techniques of LPP to solve the problems.
CO5:	Getting the idea of transporting the goods from source to destination at minimum



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COURSE OUTCOME

SELF LEARNING

ADVANCED PROGRAMMING TECHNIQUES

Subject code: U1MASL51

• To know various techniques of programming





DEPARTMENT OF B.SC MATHEMATICS

COURSE OUTCOMES

I M.Sc. Mathematics

SEMESTER: I

Subject Name: ABSTRACT ALGEBRA – I

Subject Code: P22MAC11

In this course the students will

Cos	CO Statements
CO1:	Learn the concept of group theory.
CO2:	Construct new groups from some groups already on hand.
CO3:	Learn the symmetry to analyse the object using group theoretic methods.
CO4:	Know about the concept of group, the algebraic structure such as rings, fields and
	modules.
CO5:	Use group theory as a powerful tool for research in robotics, computer vision, computer
	graphics and medical image analysis.

Subject Name: Real Analysis - I

Subject Code: P22MAC12

In this course the students will

CO1:	Know how to connect abstract statement with concrete examples.
CO2:	Get experience in reading and writing proofs.
CO3:	Acquire more ideas about Calculus and Linear Algebra.
CO4:	Analyse the technical proofs and intuitive ideas.
CO5:	Learn how the principles and theory of Real Analysis can be applied in a variety of
	fields.

Subject Name: Differential equations

Subject Code: P22MAC13/ P19MAC13

In this course the students will

CO1:	Understand the method of solving initial value problems.
CO2:	Acquire the knowledge of relationship between Wronstian and independent of
	solutions.
CO3:	Become familiar with Legendre, Euler and Bessel equations.
CO4:	Be able solve many types of partial differential equations.





Subject Name: PROBABILITY AND STATISTICS

Subject Code: P22MAC14/ P19MAC14

In this course the students will

Apply the different statistical measures for any data.
Understand Statistics facilitates comparison.
Attain several skills to solve various problems in all statistical concepts.
Be able to deal with all sciences such as Biology, Zoology, Education, Economics,
Planning, industry, Medical sciences.

Subject Name: DIFFERENTIAL GEOMETRY

Subject Code: P22MAE11

On completing this course, students can/are

Cos	CO Statements
CO1:	Determine the Arc length, Curvature, Torsion and Osculating Plane for any curve in the
	Euclidean space.
CO2:	Analyze the behavior of a space curve and its contact with the surfaces.
CO3:	Find the moving triad of a point in the space curve to identify the Evolutes and
	Involutes of the curve.
CO4:	Parameterize a surface using the local intrinsic properties of a surface.
CO5:	Construct the first and second fundamental forms for any given surface.

Subject Name: Fuzzy sets and Logics

Subject Code: P22MAE12/ P19MAE12

In this course the students will

CO1:	Gain the main subject of fuzzy sets.
CO2:	Learn crips and fuzzy set theory.
CO3:	Decide the difference between crips set and fuzzy set theory.
CO4:	Make calculation on fuzzy set theory.
CO5:	Gain the methods of fuzzy logic.
CO6:	Recognize fuzzy logic membership function.
CO7:	Recognize fuzzy logic fuzzy inference systems.
CO8:	Make applications on Fuzzy logic membership function and fuzzy inference systems.





Subject Name: Java and Web Designing

Subject Code: P22MAE13/ P19MAE13

On completing this course, students can/are

COs	CO Statements
CO1:	Create Java programs that solve simple business problems.
CO2:	Understand the concept of exception handling and Input / Output operations. Construct a
	Java class based on a UML class diagram.
CO3:	Perform a test plan to validate a Java program.
CO4:	Document a Java program.
CO5:	Design the applications of Java & Java applet.
CO6:	Analyze & Design the concept of Event Handling and Abstract Window Toolkit.

SEMESTER: II

Subject Name: ABSTRACT ALGEBRA – II

On completing this course, students can/are

Cos	CO Statements
CO1:	Understand the concept of dual spaces, inner product space.
CO2:	Understand the concept of the types of linear transformation and algebra of transformation
CO3:	Know about main application of the algebra in cryptography area.
CO4:	Learn about the determinants and its properties

Subject Name: REAL ANALYSIS – II

Subject Code: P22MAC22/P19MAC22

On completing this course, students can/are

Cos	CO Statements
CO1.	Understand the analytic properties of functions, sequences, convergence, limit of
001.	sequences, continuity, linear transformation, differentiation, etc.,
CO2:	Become familiar with the concept of Riemann integrals.
CO3:	Analyse inverse operations such as integration and differentiation.
CO4:	Try to analyse the problems that arise when limit processes are interchanged.

Subject Code: P22MAC21/P19MAC21



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Subject Name: Topology

Subject Code: P22MAC23/P19MAC23

On completing this course, students can/are

Cos	CO Statements
CO1:	Understand the terms and definitions of Topological Spaces, Accumulation Points, Interior, Closure, Boundary and exterior of sets, Coarser and Finer, Topologies –
	Subspace and theorems related to topology.
CO2:	Be motivated to unify the basics like open set, closed sets, components, continuity, completeness and so on, that are learnt through one semester course on Real and complex analysis.
CO3:	Elaborate the knowledge of concepts such as connectedness and compactness.
CO4:	Recognize Bases and Subbases for topologies and write Topologies generated by classes of sets.
CO5:	Understand the importance of Metrizable topological spaces and know sufficient conditions for metrizability of a topological space.
CO6:	Use the concept of homeomorphism to identify the spaces that are having similar geometrical structures.

Subject Name: ADVANCED GRAPH THEORY

Subject Code: P22MAC24/P19MAC24

On completing this course, students can/are

Cos	CO Statements
CO1:	Know basic definitions in Graph theory.
CO2:	Use mathematical definitions to identify, construct examples and to distinguish the
	existence and non-existence of certain properties.
CO3:	Gather the graph theoretical knowledge and its applications through algorithm.
CO4:	Identify special graphs and know related theorems.
CO5:	Solve some real time problems using the concepts of Graph theory.
CO6:	Apply graph as models for many standard problems.

Subject Name: Number Theory and Cryptography

Subject Code: P22MAC25

Cos	CO Statements
CO1:	Apply the concept of different number theoretic functions.
CO2:	Understand the application of congruences in solving number theoretic problems.
CO3:	Learn more things on arithmetic functions and primitive roots.
CO4:	Have introduction in cryptography.
CO5:	Be Enriched with the knowledge of doing research in number theory





Subject Name: Industrial Statistics (NME)

Subject Code: P22MAN21/ P19MAN21

COs	CO Statements
CO1:	Understand the concept of statistical inference by testing hypothesis.
CO2:	Apply t-test for small samples.
CO3:	Understand the concept of control chart, types of control chart.
CO4:	Learn the construction of index numbers and uses of index numbers.
CO5:	Utilize the concept of time series to fit a given straight line and parabola.



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COURSE OUTCOME

SEMESTER III FIELD THEORY

Subject Code : P19MAC31

- To enable the students to understand the concept of Field
- To enable the students to understand the concept of Galois theory
- To enable the students to understand the concept of chain conditions

Complex Analysis

Subject code: P19MAC32

- To lay the foundation for this subject, to develop clear thinking and analyzing capacity for further study.
- To learn about Cauchy's Theorem which leads to useful techniques for evaluating real integrals based on the 'calculus of residues'.
- To learn more about normal families in the context of families of analytic functions.

NUMERICAL METHODS

Subject code: P19MAC33

- To know about the direct and indirect methods for finding the roots of transcendental
- and polynomial equations
- To know various methods for finding eigen values and eigen vectors.
- To discuss the single step and multistep methods for solving first order initial value
- problems.
- To discuss several methods of differentiation
- To discuss several methods of integration

MEASURE THEORY

Subject Code: P19MAC34

- Enable the students to know about the concept of measure on the real line
- To get the knowledge about integration measurable functions
- Enable the students to know about the extension of measure and integration to more abstract spaces and their consequences.

ELECTIVE 2 (a) - INTEGRAL EQUATIONS

Subject Code : P19MAE31

- Develop the ability to solve the problems involving integral equations.
- To know the method of converting initial and boundary value problems into integral equations.
- To understand the Classical Fredholm theory in solving problems
- To practice the application of Green's function in the conversion of initial and boundary value problems.



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CLASSICAL MECHANICS

Subject code: P19MAE32 / P19MAE41

- To enable the students to understand the concept of generalized co-ordinates and Lagrange's equation for holonomic system.
- To enable the students to understand the different variational principles.
- To derive the equation of motion.
- To enable the students to deal with the canonical transformation.

SEMESTER IV OPTIMIZATION TECHNIQUES

Subject Code: P19MAC41

- To know the techniques of network models and classical optimizations
- To give the tools of solving non-linear programming

FUNCTIONAL ANALYSIS

Subject code:P19MAC42

- Understand the basic concepts of Normed linear Spaces and continuity of linear maps
- Know the two important theorems on Banach spaces
- Understand the three fundamental theorems in functional analysis and how to use this theorems in problems

COMBINATORICS

Subject code: P19MAC43

- Understand the basic concepts of permutations and combinations
- Be familiar with generating functions and techniques
- Develop skills to obtain solutions of recurrence relations by generating functions
- Solve problems using the principle of inclusion and exclusion
- know the applications of Polya's fundamental theorem in Combinatorics

APPLICATIONS OF GRAPH THEORY

Subject Code: P19MAE41 / P19MAE31

• To help the students to know various applications of Graph theory and motivate them towards research on Graph theory.

ADVANCED TOPOLOGY

Subject code: P19MAE42

• To get deep knowledge about various compactifications and metrization and theorems on completeness.

Elective 3C - Stochastic Processes

Subject code: P19MAE43

• To introduce the basic concepts in stochastic process.

• To motivate preliminary definitions in Markov Chain, Markov, Process, Poisson Process etc.



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COURSE OUTCOME

SELF LEARNING

RESEARCH TOPICS IN MATHEMATICS

Subject code: P19MASL31

- To motivate the students to learn about completeness in functions spaces and the notion of various convergence in the topological spaces.
- To motivate the students to learn about the regular and semi regular graphs and some interesting properties of switching in graphs



COURSE OUTCOMES

UNDERGRADUATE

<u>III - Year</u>

V - Semester

Employability Skills

Subject Code: U1PS51

In this course, the students will

CO1:	Enrich them with the employability skills like reasoning skills and aptitude skills.
CO2:	Get adequate exposure to various types of competitive examinations.
CO3:	Get enough training in OMR based answer sheet.



COURSE OUTCOMES

UNDERGRADUATE

I - Semester

Value Education

Subject Code: U1VE11

In this course, the students will

CO1:	Learn to choose their own personal moral and spiritual values.
CO2:	Learn to become responsible citizens.
CO3:	Get sensitized to value formation.