



V.V.Sangha's

S.K. COLLEGE OF ARTS, COMMERCE AND SCIENCE,

Dist : Vijayapur

TALIKOTI

State : Karnataka



Department of Mathematics

Report

on

PROGRAMME OUTCOME,

PROGRAMME SPECIFIC

OUTCOME AND COURSE OUTCOME


IQAC Co-ordinator,
S. K. College of Arts, Comm. & Science,
Talikota, Dist: Vijayapur


HEAD
Department of Mathematics
S.K. Arts, Commerce and Science College,
Talikota-586214, Dist-Vijayapur.


PRINCIPAL
S. K. College of Arts, Comm. & Science,
TALIKOTI-586214, Dist-Vijayapur


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Program Outcome:

Programme	Objectives
PO1: Understand of Fundamental Knowledge	Definition, Concept, Principles, Types, Methods etc
PO2: Experimental Learning Methods	Sectioning, Mounting, Instruments Handlings, Demonstrations, Analysis
PO3: Opportunities	Higher Educations, Competitive exams, Self Business and job-Carrier.

* Program Specific Outcome:

Programme	Objectives
PSO1: Acquiring basic knowledge.	Definition, Concept, Types, Principles, Functions.
PSO2: Formulation of Equations	Aim and goal of the system.
PSO3: Enhance Skills	Brain teasers, Fishbone activity
PSO4: Approach of Scientific temper.	Applications of logic, Working mechanism of Mathematical instruments.
PSO5: Development of Designing skills.	Flow charts, Diagrams, Models and graphs.
PSO6: Beauty of Mathematics in nature.	Fibonacci Series.
PSO7: Research Methodology in Mathematics	Reliability and validity of research within the field of mathematics education.
PSO8: Building Applied Skills in Environmental Skills.	Building of Dams and Roads, Forest Management.
PSO9: Mathematics is the Candle of all Creations.	Be it a cook or a Farmer, a Carpenter or a mechanic, a shopkeeper or a Doctor, an Engineer or a Scientists, a musician or a magician, everyone needs mathematics in there day today life.
PSO10: Self Employment.	Vedic maths, Reasoning, short tricks for competitive exam, Quantitative aptitude.

B.Sc I Semester , Paper-I (Differential Calculus)

CO1-Student will learn concept of Real numbers.

CO2-Students will learn knowledge about limits and continuity.

CO3-Students will get the knowledge of Higher order Derivatives.

CO4-Students will learn and understand Mean Value Theorems.

CO5-They will understand about Indeterminate Forms.

B.Sc I Semester , Paper-II (Algebra and Trigonometry)

CO1-Students will learn about the Determinants.

CO2-Students will learn knowledge abouts the Matrices.

CO3-Students will learn about the process of Set Theory.

CO4-Students will learn about the Theory of Equations.

CO5-They will learn the structure and function of Trigonometry Functions.

B.Sc II Semester, Paper-I (Differential and Integral Calculus)

CO1-Students will learn concept of Angle between Radius vector and Tangent, Polar and Pedal equations.

CO2-Students will learn knowledge about Derivative of arc length, Curvature, Radius of curvature.

CO3-Students will get the knowledge of Limits and continuity of functions of two variables.

CO4-Students will learn and understand Concavity and convexity and point of Inflexion.

CO5-They will understand about Reduction formulae.

B.Sc II Semester, Paper-II (Algebra and Geometry)

CO1-Student will learn about the Boolean Algebra.

CO2-Students will learn knowledge about the Number theory.

CO3-Students will learn about the process of Sphere.

CO4-Students will learn about the Cone.

CO5-They will learn the structure of Cylinder.

B.Sc III Semester, Paper-I (Mathematical Logic and Real Analysis)

CO1-Student will learn concept of Mathematical logic.

CO2-Students will gain knowledge about Jacobians and mean value theorems.

CO3-Students will gain the knowledge of Maxima and Minima of two and three variables.

CO4-Students will learn and understand limit of a sequence, Bounded and unbounded sequence.

CO5-They will understand about criterion for convergence of Sequence.

B.Sc III Semester, Paper-II

(Group theory, Integral Calculus and Differential Equations)

CO1-Students will learn about the Meaning of Group, its types and properties of Group.

CO2-Students will learn knowledge about the cyclic group, cosets.

CO3-Students will learn about the process Applications of Definite Integrals.

CO4-Students will learn about the First order first degree equation and its types.

CO5-They will learn the first order higher degree differential equation.

B.Sc IV Semester, Paper-I (Vector calculus and infinite series)

CO1-Students will learn concept of Dot and cross product.

CO2-Students will learn knowledge about the differential operators.

CO3-Students will get the knowledge of infinite series and its convergent, divergent and oscillatory series.

CO4-Students will learn and understand Different types of Tests for Convergent, Divergent and Oscillatory series.

CO5-They will understand about Different types of convergence.

B.Sc IV Semester, Paper-II

(Group theory, Fourier Series and Differential Equations)

CO1-Students will learn about the Meaning of Normal Subgroup, Homomorphism and Isomorphism.

CO2-Students will learn knowledge about the Fourier Series.

CO3-Students will learn about the Fourier Transforms.

CO4-Students will learn about the Linear differential Equations of nth Order with constants coefficients.

CO5-They will learn the Homogeneous linear differential equation of nth order.

B.Sc V Semester, Paper-I (Real Analysis)

- CO1-Students will Study the Riemann Integration.
- CO2-Student will gain Knowledge about Mean Value Theorems in Riemann Integration.
- CO3-Student will Learn about the "Methods of Improper Integrals.
- CO4-Students will learn about the Beta and Gamma Function.
- CO5-They will learn the Multiple Integrals.

B.Sc V Semester, Paper-II (Numerical Analysis)

- CO1-Students will Study about solutions of Algebraic and Transcendental Equations.
- CO2-Student will get the Knowledge about Finite Differences.
- CO3-Student will Learn about the Numerical Differentiation.
- CO4-Students will learn about the Solutions of Initial Value Problems.
- CO5-They will learn the Difference Equations.

B.Sc V Semester, Paper-III (Dynamics and Calculus of Variations)

- CO1-Students will Study about the Kinematics.
- CO2-Student will get the Knowledge about the Central Orbits.
- CO3-Student will Learn about the Motion of Projectile.
- CO4-Students will learn about the Calculus of Variations.
- CO5-They will learn the Geodesic on a plane, on a sphere.

B.Sc VI Semester, Paper-I (Differential Equations)

CO1-Students will get the knowledge of Differential Equations.

CO2-Student will gain the Knowledge on Series of solutions of Ordinary Differential Equations.

CO3-Student will understand the Legendre Equations and Functions

CO4-Students will learn about the Partial Differential Equations of First Order.

CO5-They will learn the Non linear differential equations.

B.Sc VI Semester, Paper-II (Complex Analysis and Ring Theory)

CO1-Students will Study the Basic Knowledge of Complex Analysis.

CO2-Student will get the Knowledge of Complex Integration.

CO3-Student will understand the Taylor's and Laurent's Series.

CO4-Students will learn about the Residue Theorems.

CO5-They will learn about the Rings and Integral Domains.

B.Sc VI Semester, Paper-III (Topology and Laplace Transforms)

CO1-Students will understand the Basic Knowledge of Topology.

CO2-Student will get the Knowledge of Base and Sub Base.

CO3-Student will understand the Basic Knowledge of Laplace Transforms.

CO4-Students will learn about the Laplace transforms of Periodic Functions.

CO5-They will learn about the Heaviside functions and Convolutions Theorems.

CBCS Syllabus

B.Sc I Semester, Paper (Algebra-I and Calculus-I)

- CO1-Students will learn about the Matrices and Determinants.
- CO2-Student will learn Concept of Real Numbers.
- CO3-Student will gain the knowledge about Limits and Continuity.
- CO4-Students will understand about the Indertminants Forms.
- CO5-Students will learn about the Higher order Derivatives.
- CO6- Students will learn and understand the Mean Value Theorems.

B.Sc I Semester, Paper (Algebra-I and Calculus-I)

- PCO1-Students will gain the knowledge about the operations of Matrices with Programmes.
- PCO2-Student will understand the concepts of Trance and Transpose of Matrices with programmes.
- PCO3-Student will gain the knowledge about Solutions of system of Homogeneous Equations.

B.Sc II Semester, Practical Paper

CO1-Students will learn Concept of Angle between Radius Vector and Tangent, Polar and Pedal Equations.

CO2-Student will learn knowledge about the Derivative of Arc length, Curvature and Radius of Curvature.

CO3-Student will get the knowledge of Limits and Continuity of Functions of Two Variables.

CO4-Students will understand about the Reduction Formulae.

CO5-They will learn about the Sphere, Cone and Cylinder.

B.Sc II Semester, Practical Paper

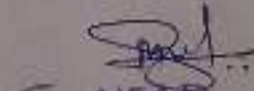
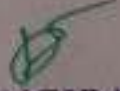
PCO1-Students will gain the knowledge about Sequence of odd numbers, even Numbers and Prime numbers with programmes.

PCO2-Student will understand the concepts of the Tracing of Curves with Programmes.

PCO3-Student will gain the knowledge about Tracing of Curves in 3-D.



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