SRI RAMAKRISHNA MISSION VIDYALAYA COLLEGE OF ARTS AND SCIENCE
COIMBATORE – 20.

B.Sc. Mathematics

PROGRAMME EDUCATIONAL OBJECTIVES (PEO)

PEO1: Demonstrate ability to adapt to a rapidly changing environment by having learned and applied new skills and new competencies.

PEO2: Solve the complex problems in the field of Mathematics with an understanding of the Societal, legal and cultural impacts of the solution.

PEO3: Progressively adopt and learn continuously through ICT module.

PEO4: Form a part of member in a team with right attitudes

PROGRAMME OUTCOMES (PO)

PO1: Provide platforms to learn Physics, Chemistry and Mathematics theories, concepts and practical skills with appropriate knowledge.

PO2: Assimilate the knowledge on understanding the nature and ability to link the facts to observe and discover scientific laws.

PO3: Create new skills and tools to obtain possible solutions in comprehension of the physical science problems incorporating mathematical modeling and theories.

PO4: Enhancement of critical thinking, problem solving skills, digitally efficient and making effective working professionals to suit for science, technical and research field.

PO5: Making best suitable personalities to serve for nation and society with ethical awareness and reasoning ability.

PROGRAMME SPECIFIC OUTCOMES (PSO)

PSO1: Graduates will be exposed to a wide range of modern mathematical ideas from pure and applied mathematics.

PSO2: Students will understand the mathematical and technical knowledge that provides a solid foundation for extended learning.

PSO3: Students will obtain mathematical and quantitative skills to solve the real life problems.

PSO4: Understanding the concepts of core and allied areas of mathematics that provides a strong foundation for the systematic development of learning process.

PSO5: Students will identify, formulate and analyze mathematical problems in reaching sustained conclusions.

Course Title : Core1: Classical Algebra **Course Code : 20UMA1C01**

Course Outcomes (CO)

CO1	Finding the roots of polynomial functions.	K1
CO2	Classifying convergence and divergence of series.	K2
CO3	Applying the Binomial theorem, Exponential theorem, logarithmic theorem to find the summation of series.	K3
CO4	Analyzing the nature of the roots of the equations.	K4

K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze

	PO1	PO2	PO3	PO4	PO5		PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S	S	S	S	S		S	S	S	S	S
CO2	S	S	S	S	S		S	S	*S*	S	S
CO3	S	S	S	M	M		S	M	S	M	M
CO4	S	S	S	M	L		M	S	M	S	L

S – Strong; M – Medium; L - Low

Course Title : Core2: Calculus **Course Code : 20UMA1C02**

Course Outcomes (CO)

CO1	Remembering the formulas in differentiation and integration.	K1
CO2	Interpret the definite integral geometrically as the area under a curve.	K2 & K3
CO3	Apply the concept of definite integral to solve various kinds of problems.	K3
CO4	Analyze the values of the derivative at a point algebraically.	K4

K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze

	PO1	PO2	PO3	PO4	PO5		PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S	M	M	M	L		M	S	M	S	M
CO2	S	S	S	S	M		S	S	S	S	M
CO3	S	S	S	S	M		S	S	M	S	S
CO4	S	S	S	S	M		S	S	M	S	M

S – Strong; M – Medium; L – Low

Course Title Allied Physics - I **Course Code** 20UMA1AL1

COURSE OUTCOMES (CO)

By the end of the course, the students will be able to

CO1	acquire knowledge on gravitation, thermodynamics, relativity, optics and electricity and magnetism	K1
CO2	understand various laws of thermodynamics, working of thermal devices, liquefaction of gases and superconductivity	K2
CO3	know the importance of special and general theory of relativity	K1,K2
CO4	calculate the wavelength of light, specific rotation and angular width	K3, K4
CO5	handle the sensitive galvanometers and magnetometers	K3

K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze;

	PSO1	PSO2	PSO3	PSO4	PSO5		PO1	PO2	PO3	PO4	PO5
CO1	S	S	M	S	M		S	S	M	M	M
CO2	M	S	S	M	M		M	S	M	M	M
CO3	S	S	M	S	L		S	S	S	S	M
CO4	M	M	S	S	M		S	M	S	S	S
CO5	M	M	M	S	M		M	S	S	M	S

S - Strong; M - Medium; L - Low

Course Title : Core 3: Differential Equations and Laplace Transforms
Course Code : 20UMA2C03

Course Outcomes (CO)

CO1	Recalling the concept of first order linear differential equations.	K1
CO2	Understanding the concept of first order higher degree ordinary differential equations	K2
CO3	Solving Linear partial differential equations by using the Lagrange's method.	K3 & K4
CO4	Analyzing the concepts of Laplace transforms and inverse Laplace transforms to solve ODE with constant and variable coefficients.	K4

K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze

	PO1	PO2	PO3	PO4	PO5		PSO1	PSO2	PSO3	PSO4	PSO5
CO1	M	L	M	M	L		M	S	M	S	M
CO2	S	M	M	S	S		S	M	S	S	M
CO3	S	S	S	M	M		M	S	M	M	S
CO4	M	M	S	S	S		S	M	S	L	S

S – Strong; M – Medium; L - Low

Course Title : Core 4 : Trigonometry, Vector Calculus and Fourier Series Course Code : 20UMA2C04

Course Outcomes (CO)

CO1	Understanding the hyperbolic and inverse hyperbolic functions.	K1
CO2	Illustrating the Fourier co-efficient for periodic functions.	K2
CO3	Applying the differential operator to find gradient, divergence and curl.	K3
CO4	Examining the multiple integrals by applying Gauss divergence theorem, Stoke's theorem and Green's theorem.	K4

K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze

	PO1	PO2	PO3	PO4	PO5		PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S	M	M	M	S		M	S	M	S	S
CO2	S	M	S	S	M		S	M	S	S	M
CO3	S	S	L	S	M		S	S	M	S	S
CO4	M	S	S	S	M		S	S	M	S	M

S – Strong; M – Medium; L – Low

Course Title Allied Physics - II **Course Code** 20UMA2AL2

COURSE OUTCOMES (CO)

By the end of the course, the students will be able to

CO1	acquaint with different atomic models	K1
CO2	elucidate various theories, models, energy, expression associated with nucleus and nuclear forces	K2
CO3	explain the principle of quantum physics and behavior of matter waves	K2,K3
CO4	comprehend the working of various modes of transistors and simple circuits	K1, k2
CO5	Work with the basic digital circuits using logic gates and design logic circuits by employing Boolean algebra and Karnaugh maps	K3, k4

K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze;

	PSO1	PSO2	PSO3	PSO4	PSO5		PO1	PO2	PO3	PO4	PO5
CO1	S	M	S	S	S		S	S	M	S	M
CO2	S	M	M	S	M		S	S	M	M	M
CO3	S	M	S	S	M		S	M	M	M	M
CO4	S	S	M	S	M		S	M	M	S	M
CO5	S	S	S	S	S		S	M	S	S	M

S - Strong; M - Medium; L – Low

Course Title Allied Physics Practical **Course Code** 20UMA2AP1

COURSE OUTCOMES (CO)

At the end of the course, the students will be able to

CO1	calibrate the voltmeter and ammeter to know the sensitivity of the device.	K3
CO2	obtain the refractive Index of different transparent materials.	K3
CO3	verify the output characteristics of certain analog electronic devices and check some of its applications.	K3,K4
CO4	construct the circuit and verifying the truth tables of basic logic gates.	K3,K4
CO5	handle instruments independently and measure precisely.	K2,K3

K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze;

MAPPING

	PSO1	PSO2	PSO3	PSO4	PSO5		PO1	PO2	PO3	PO4	PO5
CO1	S	S	M	S	M		S	M	S	S	S
CO2	M	S	S	S	M		M	M	S	S	S
CO3	M	S	M	S	S		S	M	S	S	S
CO4	S	S	M	S	S		M	S	S	S	S
CO5	S	S	M	S	S		M	S	S	S	S

S - Strong; M - Medium; L - Low

Course Title : Core 5 : Analytical Geometry of 2D& 3D
Course Code : 20UMA3C05

Course Outcomes (CO)

CO1	Remembering the equation of a line that passes through a given point which is parallel or perpendicular to a given line.	K1
CO2	Understanding the results based on the properties of a sphere.	K2
CO3	Identifying conic sections.	K1& K3
CO4	Analyzing the concepts of geometry.	K4

K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze

	PO1	PO2	PO3	PO4	PO5		PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S	M	M	M	M		M	S	M	S	M
CO2	S	S	S	S	M		S	S	S	S	M
CO3	S	S	S	S	L		S	S	M	S	S
CO4	S	S	S	S	M		S	S	M	S	M

S – Strong; M – Medium; L – Low

Course Title : Core 6: Statics **Course Code : 20UMA3C06**

Course Outcomes (CO)

CO1	Remembering the notions of friction and equilibrium of strings and deploy them in solving the problems.	K1&K3
CO2	Understanding the concepts of forces and moments.	K2
CO3	Applying the concepts of forces in finding the resultant of any number of forces.	K3
CO4	Analyzing the basics of coplanar forces and equilibrium of forces acting on a rigid body and solving the problems.	K4

K1 - Remember; K2 - Understand; K3 - Apply; K4 – Analyze

	PO1	PO2	PO3	PO4	PO5		PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S	S	S	S	M		S	S	S	S	S
CO2	S	S	S	S	M		S	S	S	S	M
CO3	S	S	S	S	M		S	S	M	S	S
CO4	S	S	S	S	M		S	S	M	S	M

S – Strong; M – Medium; L - Low

Course Title : Allied 3: Mathematical Statistics I Course Code : 20UMA3AL3

Course Outcomes (CO)

CO1	Remembering the concepts of probability and random variables	K1
CO2	Understanding the properties of some distributions.	K2
CO3	Finding mean, median, mode, moments and moment generating functions of Binomial, Poisson and Normal distributions.	K1&K3
CO4	Analyzing how correlation is used to identify the relationships between variables and how regression analysis is used to predict outcomes.	K3 &K4

K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze

	PO1	PO2	PO3	PO4	PO5		PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S	S	M	M	L		M	M	S	M	L
CO2	S	S	S	M	M		S	M	S	S	S
CO3	S	S	S	S	M		M	S	M	S	M
CO4	S	S	S	M	S		S	S	S	S	M

S – Strong; M – Medium; L - Low

Course Title : Core 7: Dynamics Course Code : 20UMA4C07

Course Outcomes (CO)

CO1	Remembering the concepts of motion of a particle and projectile in different angles.	K1
CO2	Understanding the notions of impact between two smooth spheres in different ways.	K2
CO3	Applying the concept of simple harmonic motions in composition of two bodies in different directions.	K3
CO4	Distinguishing between the pedal equations of well-known curves and solving two-fold problems in central orbits.	K2 &K4

K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze

	PO1	PO2	PO3	PO4	PO5		PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S	S	M	S	M		S	S	S	S	M
CO2	S	S	S	S	M		S	S	S	S	M
CO3	S	S	M	S	M		S	S	M	M	S
CO4	S	S	S	S	M		S	M	S	S	M

S – Strong; M – Medium; L - Low

Course Title : Core 8: Numerical Methods Course Code : 20UMA4C08

Course Outcomes (CO)

CO1	Derive numerical methods for approximating the solution of the problems of algebraic and transcendental equations, ordinary differential equations.	K1
CO2	Implement a variety of numerical algorithms using appropriate technology	K2&K3
CO3	Get practical knowledge of polynomial interpolation, also numerical algorithms are used in C++ for solving scientific problems	K3
CO4	Solve the ordinary differential equations by using the methods like Euler's, Runge Kutta, Modified Euler and Improved Euler	K4

K1 - Remember; K2 - Understand; K3 - Apply; K4 – Analyze

	PO1	PO2	PO3	PO4	PO5		PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S	S	L	M	M		M	S	M	S	M
CO2	S	S	S	S	M		S	S	S	S	M
CO3	S	S	S	M	M		S	S	M	S	S
CO4	S	S	S	S	M		S	S	M	S	M

S – Strong; M – Medium; L - Low

Course Title : Allied 4: Mathematical Statistics II Course Code : 20UMA4AL4

Course Outcomes (CO)

CO1	Finding the derivations of $t, \chi 2$ and F distributions.	K1
CO2	Explaining the procedure for testing of hypothesis and sampling of attributes.	K2
CO3	Applying the concepts of various distributions in real time situations.	K2 & K3
CO4	Analyzing one - way and two – way classifications and design of experiments.	K3 &K4

K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze

	PO1	PO2	PO3	PO4	PO5		PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S	M	M	M	L		S	M	M	L	M
CO2	S	S	S	S	M		S	M	S	S	M
CO3	S	S	S	S	M		S	S	S	M	M
CO4	S	S	S	M	S		S	S	M	S	M

S – Strong; M – Medium; L - Low

Course Title : Core 9 : Modern Algebra Course Code : 20UMA5C09

Course Outcomes (CO)

CO1	Finding whether a given abstract structure is a group or a ring.	K1
CO2	Understanding the elementary concepts of rings and fields.	K2
CO3	Applying the concepts of homomorphism and isomorphism for comparing the algebraic features of mathematical systems in groups, rings and fields	K3
CO4	Examining the results from group theory to study the properties of rings and fields.	K4

K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze

	PO1	PO2	PO3	PO4	PO5		PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S	S	S	S	S		S	S	S	S	S
CO2	S	S	S	S	S		S	S	*S*	S	S
CO3	S	S	S	M	M		S	S	M	S	M
CO4	S	S	S	L	M		S	S	L	S	S

S – Strong; M – Medium; L - Low

Course Title : Core 10 : Real Analysis – I Course Code : 20UMA5C10

Course Outcomes (CO)

CO1	Remembering the basic properties in the field of real numbers.	K1
CO2	Understanding the concepts of continuity,convergent sequences and metric spaces.	K2 & K3
CO3	Applying the concept of point set topology in related theorems	K3
CO4	Analyzing the compactness and to classify the continuity of a function with its limits.	K4

K1-Remmber, K2-Understand, K3-Apply, K4-Analyze

	PO1	PO2	PO3	PO4	PO5		PSO1	PSO2	PSO3	PSO4	PSO5
CO1	M	S	M	S	M		S	M	M	M	M
CO2	S	S	S	S	S		S	S	S	M	M
CO3	S	S	M	S	S		S	S	S	S	L
CO4	S	S	S	S	S		S	S	S	S	M

S- Strong, M- Medium, L- Low

Course Title : Core 11: Complex Analysis Course Code : 20UMA5C11

Course Outcomes (CO)

CO1	Defining continuity, differentiability and analyticity of a complex valued function which helps the students to acquire deeper knowledge.	K1
CO2	Showing the condition(s) for a complex valued function to be analytic and/or harmonic.	K2
CO3	Developing the concept of sequences and series with respect to the complex number system.	K3
CO4	Analyzing complex integration, Cauchy's integral formulae and Cauchy's fundamental theorem.	K4

K1- Remember; K2-Understand; K3-Apply; K4-Analyse

	PO1	PO2	PO3	PO4	PO5		PSO1	PSO2	PSO3	PSO4	PSO5
CO1	M	S	M	S	M		M	M	M	M	L
CO2	S	S	S	S	S		S	S	S	S	M
CO3	S	S	S	S	S		S	S	S	S	M
CO4	S	S	S	S	S		S	S	S	S	M

S-Strong; M-Medium; L-Low

Course Title : Core 12 – Discrete Mathematics Course Code : 20UMA5C12

Course Outcomes (CO)

CO1	Acquire knowledge about the basic concepts of Discrete Mathematics and its applications	K1
CO2	Apply logically valid forms of arguments to avoid logical errors by studying mathematical logic	K2
CO3	Understand abstract algebra, posets, lattices, Boolean algebra and their applications in the field of engineering and computer science.	K3
CO4	Define the basic definitions of graph theory and a knowledge about types of graphs including isomorphic graphs, homeomorphic graphs, Eulerian graphs and Hamiltonian graphs	K4

K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze

	PO1	PO2	PO3	PO4	PO5		PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S	M	M	M	L		M	S	M	S	M
CO2	S	S	M	S	M		S	S	S	S	M
CO3	S	S	S	S	M		S	S	M	S	S
CO4	S	S	S	S	M		S	S	M	S	M

S – Strong; M – Medium; L - Low

Course Title : Core 13: Operations Research – I Course Code : 20UMA5C13

Course Outcomes (CO)

CO1	Remembering the concept of linear programming problem using Simplex Method.	K1
CO2	Applying the notions of linear programming in solving transportation problems and assignment Problem.	K3
CO3	Understanding the rules for sequencing problems.	K2
CO4	Analyzing the concepts of dynamic programming.	K4

K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze

	PO1	PO2	PO3	PO4	PO5		PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S	M	S	M	S		M	S	M	S	M
CO2	S	L	S	S	M		S	S	S	M	M
CO3	S	S	S	L	M		S	S	M	S	S
CO4	M	S	S	S	S		S	L	M	S	M

S – Strong; M – Medium; L – Low

Course Title : Elective: Web Programming Course Code : 20UMA5EL1

Course Outcomes:

On completion of this Course, the student will be able to

CO Number	CO Statement	Knowledge level
CO1	Know the basic concepts of HTML	K1
CO2	Know the various HTML properties	K1
CO3	Understanding the form designing using HTML	K2
CO4	Know the concepts of XML applications	K1

K1-Remember; K2-Understand; K3-Apply; K4 - Analyze

COS	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	L	L	L	L	L	S	S	M	M	L
CO2	L	S	M	L	L	S	S	M	M	L
CO3	L	S	M	S	L	S	S	M	S	L
CO4	L	S	L	S	M	S	S	S	S	M

S–Strong; M–Medium; L -Low

Course Title : Core 14 - Linear Algebra Course Code : 20UMA6C14

Course Outcomes (CO)

CO1	Recalling the basic concepts of matrices, rank of a matrix.	K1
CO2	Understanding the basic ideas of vector spaces and the concepts of linear span, linear independence, basis, dimension.	K2
CO3	Applying the principles of matrix algebra to linear transformations.	K3
CO4	Examining whether the given set of vectors is linearly dependent or independent.	K4

K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze

	PO1	PO2	PO3	PO4	PO5		PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S	S	S	S	S		S	S	S	S	S
CO2	S	S	S	M	L		S	S	*S*	M	S
CO3	S	S	M	S	S		S	S	S	S	L
CO4	S	S	S	S	S		S	M	S	S	S

S – Strong; M – Medium; L - Low

Course Title : Core 15 - Real Analysis II Course Code : 20UMA6C15

Course Outcomes (CO)

CO1	Remembering the concept of derivatives, bounded variations.	K1
CO2	Understanding the concept of connectedness.	K2
CO3	Applying the differentiability of real functions.	K3
CO4	Analyzing the Riemann integrals to a finite sum.	K4

K1-Remember, K2-understand, K3-Apply, K4-Analyze

	PO1	PO2	PO3	PO4	PO5		PSO1	PSO2	PSO3	PSO4	PSO5
CO1	M	S	M	S	M		S	M	M	M	M
CO2	S	S	S	S	M		S	S	M	S	M
CO3	S	S	S	S	S		S	S	S	S	M
CO4	S	S	S	S	S		S	S	S	S	L

S- Strong, M- Medium, L- Low

Course Title : Core 16– Special Functions Course Code : 20UMA6C16

Course Outcomes (CO)

CO1	Remembering the concept of special functions.	K1
CO2	Understanding the applications of hyper geometric functions.	K2
CO3	Using the solution of Bessel's equation in solving science and engineering problems.	K3
CO4	Analyzing the use of Hermite's polynomial.	K4

K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze

	PO1	PO2	PO3	PO4	PO5		PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S	S	M	S	M		S	S	S	S	M
CO2	S	S	M	S	M		S	S	S	S	M
CO3	S	S	M	S	S		S	S	M	S	S
CO4	S	S	M	S	S		S	S	M	S	M

S – Strong; M – Medium; L – Low

Course Title : Core 17: Operations Research II Course Code : 20UMA6C17

Course Outcomes (CO)

CO1	Applying the maximin and minimax principles in game theory.	K1
CO2	Analyzing the classifications of queueing models.	K4
CO3	Applying the concept of inventory control and replacement techniques in business.	K2
CO4	Examining the concept of traffic intensity in real life problems.	K3

K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze

	PO1	PO2	PO3	PO4	PO5		PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S	M	S	S	M		M	M	S	S	M
CO2	S	L	S	M	M		S	S	M	S	M
CO3	M	S	S	S	M		S	M	S	M	S
CO4	S	S	S	S	M		S	S	M	S	M

S – Strong; M – Medium; L - Low

Course Title : Core 18: Number Theory **Course Code : 20UMA6C18**

Course Outcomes(CO)

CO1	Recall the theory of integers from a list of axioms.	K1
CO2	Classify the problems to solve using the learned principles and theorem.	K2&K3
CO3	Explaining various divisibility tests and apply them in real life problems.	K4
CO4	Apply number theory algorithms and procedures to basic problems in mathematics.	K3

K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze

	PO1	PO2	PO3	PO4	PO5		PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S	M	M	M	L		M	S	M	S	M
CO2	S	S	S	M	M		S	S	S	S	M
CO3	S	S	S	S	M		S	S	M	S	S
CO4	S	S	S	S	M		S	S	M	S	M

S – Strong; M – Medium; L – Low

Course Title : ELECTIVE: INTRODUCTION TO C
Course Code : 20UMA6EL2

Course outcomes

On the successful completion of the course, students will be able to

CO Number	CO Statement	Knowledge level
CO1	Understand the concepts of C programming	K2
CO2	Know the concepts of Operators and Expression	K1
CO3	Understand the various Decision making and branching techniques	K2
CO4	Know the Concepts of arrays and structures	K1

K1-Remember; K2-Understand; K3-Apply; K4 - Analyze

COS	PO1	PO2	PO3	PO4	PO5	PSO1	PSO 2	PSO3	PSO 4	PSO 5
CO1	L	L	S	L	L	M	M	L	M	M
CO2	L	L	S	L	L	M	M	L	M	M
CO3	L	M	S	M	L	M	M	M	S	S
CO4	L	M	S	M	L	M	M	L	M	M

S–Strong; M–Medium; L -Low

Course Title : ELECTIVE PRACTICAL: WEB PROGRAMMING AND C
Course Code : 20UMA6EP1

Course outcomes

On the successful completion of the course, students will be able to

CO Number	CO Statement	Knowledge level
CO1	Understand the fundamental programming concepts	K2
CO3	Apply the concepts to find solution for the problems	K3
CO4	Design and develop the simple application.	K4
CO4	Know the basic concepts of HTML	K1

K1-Remember; K2-Understand; K3-Apply; K4 - Analyze

COS	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO 4	PSO 5
CO1	M	L	M	M	L	L	M	M	M	L
CO2	M	L	M	S	L	M	M	S	M	L
CO3	M	L	M	S	L	M	M	S	S	M
CO4	M	L	M	M	L	M	M	M	M	M

S–Strong; M–Medium; L -Low

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