

Course Outcomes (COs):

Description of the Course Outcome: At the end of the course the student will be able to:		Mapping to POs(1-12)/ PSOs (13-16)		
		Substantial Level (3)	Moderate Level (2)	Slight Level (1)
CO-1	Apply the knowledge of calculus to solve problems related to polar curves and learn the notion of partial differentiation to compute rate of change of multivariate functions	-	-	1,2,12
CO-2	Analyze the solution of linear and nonlinear ordinary differential equations	-	-	1,2,12
CO-3	Get acquainted and apply modular arithmetic to computer algorithms	-	-	1,2,12
CO-4	Make use of matrix theory for solving system of linear equations and compute eigenvalues and eigenvectors	-	1,2	12
CO-5	Familiarize with modern mathematical tools namely MATHEMATICA / MATLAB / PYTHON / SCILAB	-	-	1,2,12

POs/PSOs	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Mapping Level	1.2	1.2	-	-	-	-	-	-	-	-	-	1.0	-	-	-	-

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CO-1	Understand the concepts of various energy sources and Electric circuits.	1	2	3, 5, 6,7,8,12
CO-2	Apply the basic Electrical laws to solve circuits.	1,2	3	4,5,6,12
CO-3	Discuss the construction and operation of various Electrical Machines.	1	2	3,4,5,6,7,8,12
CO-4	Identify suitable Electrical machine for practical implementation.	1	2,3	4,6,7,8,12
CO-5	Explain the concepts of electric power transmission and distribution, electricity billing, circuit protective devices and personal safety measures.	1	3,6	2,5,7,8,11,12

POs/PSOs	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Mapping Level	3.0	2.0	1.6	1.0	1.0	1.2	1.0	1.0	-	-	1.0	1.0	-	-	-	-

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CO-1	Explain the cybercrime terminologies.	-	1	8
CO-2	Describe Cyber offenses and Botnets.	-	1	8
CO-3	Illustrate Tools and methods used on Cybercrime.	-	5	8,14
CO-4	Explain Phishing and Identity Theft, encryption and decryption processes.	-	1,2	8
CO-5	Justify the need of computer forensics.	-	1,5	8
CO-6	Explain the procedure of distribution of public and private keys.	-	1,2	8,14

POs/PSOs	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Mapping Level	2.0	2.0	-	-	2.0	-	-	1.0	-	-	-	-	-	1.0	-	-

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		Substantial Level (3)	Moderate Level (2)	Slight Level (1)
CO-1	Explain and identify the Common Errors in Writing and Speaking.	-	10	-
CO-2	Achieve better Technical writing and Presentation skills.	-	10	-
CO-3	Read Technical proposals properly and make them to Write good technical reports.	10	-	-
CO-4	Acquire Employment and Workplace communication skills.	-	10	-
CO-5	Learn about Techniques of Information Transfer through presentation in different level.	10	-	-

POs/PSOs	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Mapping Level	-	-	-	-	-	-	-	-	-	2.4	-	-	-	-	-	-

II Semester (Physics Cycle)

Stream: Computer Science & Engineering

Branch: Computer Science & Engineering

22MATS21	Mathematics - II for CSE Stream	(2-2-2) 4
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		Substantial Level (3)	Moderate Level (2)	Slight Level (1)
CO-1	Apply the concept of change of order of integration and variables to evaluate multiple integrals and their usage in computing area and volume.	-	-	1,2,12
CO-2	Understand the applications of vector calculus refer to solenoidal, and irrotational vectors, Orthogonal curvilinear coordinates.	-	-	1,2,12
CO-3	Demonstrate the idea of Linear dependence and independence of sets in the vector space, and linear transformation	-	-	1,2,12
CO-4	Apply the knowledge of numerical methods in analysing the discrete data and solving the physical and engineering problems.	-	-	1,2,12
CO-5	Get familiarize with modern mathematical tools namely MATHEMATICA / MATLAB / PYTHON / SCILAB	-	-	1,2,12

POs/PSOs	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
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Mapping Level	1.4	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-
22PHYS22	Physics for CSE Stream											(2-2-2) 4			

Course Outcomes (COs):

Description of the Course Outcome: At the end of the course the student will be able to:		Mapping to POs(1-12) / PSOs (13-16)		
		Substantial Level (3)	Moderate Level (2)	Slight Level (1)
CO-1	Describe the principles of LASERS and Optical fibers and their relevant applications.	1	2,12	-
CO-2	Discuss the basic principles of Quantum Mechanics and their application in Quantum Computing.	1,2	12	-
CO-3	Summarize the essential properties of superconductors and applications in Quantum Computing.	1,2	12	-
CO-4	Illustrate the application of physics in design and data analysis.	1	2,12	3,5
CO-5	Practice working in groups to conduct experiments in physics and perform precise and honest measurements.	1,8,9	2,5,12	3

POs/PSOs	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Mapping Level	3.0	2.4	1.0	-	1.5	-	-	3.0	3.0	-	-	2.0	-	-	-	-

Course Outcomes (COs):

Description of the Course Outcome: At the end of the course the student will be able to:		Mapping to POs(1-12) / PSOs (13-16)		
		Substantial Level (3)	Moderate Level (2)	Slight Level (1)
CO-1	Draw and communicate the objects with definite shape and dimensions	1,5,10	2,12	6,8,9
CO-2	Recognize and Draw the shape and size of objects through different views	1,5,10	2,12	6,8,9
CO-3	Develop the lateral surfaces of the object	1,5,10	2,12	6,8,9
CO-4	Create a Drawing views using CAD software	1,2,5,10	-	6,7,9,12
CO-5	Identify the interdisciplinary engineering components or systems through its graphical representation.	1,5,10	2,12	9

POs/PSOs	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Mapping Level	3.0	2.6	-	-	3.0	1.0	1.0	1.0	1.0	3.0	-	1.7	-	-	-	-

Course Outcomes (COs):

Description of the Course Outcome: At the end of the course the student will be able to:		Mapping to POs(1-12) / PSOs (13-16)		
		Substantial Level (3)	Moderate Level (2)	Slight Level (1)
CO-1	Develop the basic knowledge on construction and operation of rectifiers and amplifiers.	-	3	1
CO-2	Apply the acquired knowledge to construct small scale circuits consisting of oscillators and operational amplifiers.	-	1	-
CO-3	Develop the competence knowledge to construct basic digital circuit by making use of basic gates and its function.	-	1	3
CO-4	Apply the acquired knowledge to construct small scale embedded circuits.	-	1	12
CO-5	Study the conceptual blocks of basic communication system and acquire the knowledge of analog and digital communication schemes.	-	1	12

POs/PSOs	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Mapping Level	1.8	-	1.5	-	-	-	-	-	-	-	-	1.0	-	-	-	-

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		Substantial Level (3)	Moderate Level (2)	Slight Level (1)
CO-1	Explain the usage and the need for writing programs using structures, unions and pointers.	-	1,2,3	-
CO-2	Solve real time problems using concepts of dynamic memory allocation and storage classes.	-	1,2,3	-
CO-3	Construct Programming solutions using user defined functions and files for storage.	-	1,2,3	-
CO-4	Demonstrate sorting and searching algorithms.	-	1,2,3	-
CO-5	Select appropriate programming constructs and data structures to build solutions to variety of problems.	-	1,2,3	12,14

POs/PSOs	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Mapping Level	2.0	2.0	2.0	-	-	-	-	-	-	-	-	1.0	-	1.0	-	-

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		Substantial Level (3)	Moderate Level (2)	Slight Level (1)
CO-1	Explain and apply the Fundamentals of Communication Skills in their communication skills.	-	10	-
CO-2	Identify the nuances of phonetics, intonation and enhance pronunciation skills.	-	10	-
CO-3	Impart basic English grammar and essentials of language skills as per present requirement.	10	-	-
CO-4	Explain and use all types of English vocabulary and language proficiency.	-	10	-
CO-5	Adopt the Techniques of Information Transfer through presentation.	10	-	-

POs/PSOs	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Mapping Level	-	-	-	-	-	-	-	-	-	2.4	-	-	-	-	-	-

