22MATS11

Mathematics - I for CSE Stream

(2-2-2) 4

Descr	iption of the Course Outcome:	Mapping to	POs(1-12)/	PSOs (13-16)
At the able to	end of the course the student will be o:	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	Familiarizewithmodernmathematical tools namelyMATHEMATICA/PYTHON / SCILAB	-	-	1,2,12
F	POs/PSOs 1 2 3 4 5 6 7	7 8 9 10 1	1 12 13	14 15 16

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

22CHES12

Chemistry for CSE Stream

(2-2-2) 4

Descr	iption of the Course Outcome:	Mapping to	POs(1-12)/	PSOs (13-16)
At the able to	end of the course the student will be o:	Substantial Level (3)	Moderate Level (2)	Slight Level (1)
CO-1	Identify the terms and processes involved in scientific and engineering applications.	-	1	3
CO-2	Explain the phenomena of chemistry to describe the methods of engineering processes.	1	-	-
CO-3	Solve for the problems in chemistry that are pertinent in engineering applications.	-	2	3
CO-4	Apply the basic concepts of chemistry to explain the chemical properties and processes.	1	-	-
CO-5	Analyze properties and processes associated with chemical substances in multidisciplinary situations.	-	2	1

POs/PSOs	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Mapping Level	2.3	2.0	1.0	I	-	-	-	-	-	-	I	-	-	-	-	-

22POP13

Principles of Programming Using C

(2-0-2) 3

D	escri	iption of th	e Co	urse	Outo	con	ne:		Ν	Лар	pir	ng to	PO	s(1-′	12)/	PSO	s (13	3-1 6))
A a	t the ble to	end of the c :	cours	e the	stud	ent	wil	l be	S	ubs Lev	stai /el	ntial (3)	Mo Le	odera evel (ate (2)	L	Sligl evel	nt (1)	
C	0-1	Design a thegiven represent flowchart.	a sol prob it	ution Iem usin	by scei g a	ar nari Igoi	naly io rithi	zing and m /			-			1,2,3	3		-		
C	0-2	Explain the language writing sime	ives, emin			-			1,2,3	3		-							
C	:0-3	Writing simpleprograms. B Write a C program using proper control structures to - 1,2,3 solvesimpleproblems.									3		-						
C	0-4	Write a C strings to s	prog solve	ram ι simp	ising le pro	arra oble	ays ems	and		-				2,6			-		
C	0-5	 strings to solve simple problems. 5 Explain the usage and the nee for writing modular programs an demonstrate its use in writin programs. 								-				-			1,2,	3	
	PC)s/PSOs	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
	Μ	apping Level	1.7	1.8	1.7	-	-	2.0	-	-	-	-	-	-	-	-	-	-	

22ESC142

(3-0-0) 3

Descr	iptior	n of t	he C	ours	e Out	tcom	e:		Марр	ping	g to	POs(1-12)	/ PS	Os (13-1	6)
At the able to	end c):	of the	cour	se th	e stu	dent	will b	e S	Subst Leve	ant el (3	ial 3)	Mod Leve	erate el (2)	•	Sli Lev	ght el (1)
CO-1	Und vario circu	ersta ous e uits.	and nergy	the y sou	co rces	ncep and I	ts Electr	of ic	1				2	3,	5, 6	,7,8,	12
CO-2	Apply the basic Electrical laws solve circuits.								1,	2			3		4,5,	6,12	
CO-3	Discuss the construction a operation of various Electric Machines.								1	l		2	2	3,	4,5,6	6,7,8	,12
CO-4	lden for p	tify soraction	suital cal in	ole E nplem	lectrio ienta	cal m tion.	achir	ne	1			2	,3	,	4,6,7	7,8,1	2
CO-5	for practical implementation. Explain the concepts of electricity power transmission and distribution electricity billing, circuit protective devices and personal safe measures.								1			3	,6	2,	5,7,8	3,11,	12
POs/P	Os/PSOs 1 2 3 4 5 6						6	7	8	9	10	11	12	13	14	15	16
Mapp Leve	POs/PSOs 1 2 3 4 5 6 7 8 9 10 11 1 Mapping Level 3.0 2.0 1.6 1.0 1.0 1.2 1.0 1.0 - - 1.0 1.				1.0	-	-	-	-								

(3-0-0) 3

D	escri	iption of th	ne Co	ourse	Οι	utco	ome:			Мар	opiı	ng to	PO o	s(1-	12)/	PS	Os (1	3-16)
A [:] al	t the ble to	end of the o	cours	e the	stu	nqe	nt wil	ll be	Э	Sub: Lev	sta vel	ntial (3)	N	lod∉ _eve	erate I (2)	2	Sli Lev	ght el (1))
С	0-1	Explain terminolog	jies.	the		С	yberc	rim	ne		-			1				8	
С	0-2	Describe Botnets.	Су	ber	of	fen	ses	ar	nd		-			1				8	
С	0-3	Illustrate on Cyberc	ed		-			5			8,	14							
с	0-4	Explain P encryption processes	ft, on		-			1,	2			8							
С	0-5	Justify tforensics.	he	need	C	of	com	oute	ər		-			1,	5			8	
С	0-6	Explain the procedure distribution of public and privative keys.									-			1,	2		8,	14	
	PC)s/PSOs	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16]
	Μ	apping Level	/PSOs 1 2 3 4 5 oping evel 2.0 2.0 - - 2.0									-	-	-	-	1.0) -	-	

22PWS16

Professional Writing Skills in English (1

(1-0-0) 1

Descr	iption of the Course Outcome:	Mapping to	POs(1-12) /	/ PSOs (13-16)
At the able to	end of the course the student will be o:	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	AcquireEmploymentandWorkplace 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	-	-	-	-	-	-

22ICO17

Indian Constitution

(1-0-0) 1

Descr	iption of the Course Outcome:	Mapping to	POs(1-12)	/ PSOs (13-16)
At the able to	end of the course the student will be o:	Substantial Level (3)	Moderate Level (2)	Slight Level (1)
CO-1	Analyze the basic structure of Indian Constitution.	-	2	-
CO-2	Remember their Fundamental Rights, DPSP's and Fundamental Duties (FD's) of our constitution.	-	1	-
CO-3	Know about our Union Government, political structure & codes, procedures.	-	1	-
CO-4	Understand our State Executive & Elections system of India.	-	1	-
CO-5	Remember the Amendments and Emergency Provisions, other important provisions given by the constitution.	-	1	-

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

22SFH18

Scientific Foundations of Health

(1-0-0) 1

Descr	iption of the Course Outcome:	Mapping to	POs(1-12)	/ PSOs (13-16)
At the able to	end of the course the student will be o:	Substantial Level (3)	Moderate Level (2)	Slight Level (1)
CO-1	Explain and analyze about Health and wellness (and its Beliefs) & its balance for positive mindset.	-	1,2	-
CO-2	Develop the healthy lifestyles for good health for their better future.	-	1,2	-
CO-3	Build a Healthy and caring relationships to meet the requirements of good/social/positive life.	-	1,2	-
CO-4	Learn about Avoiding risks and harmful habits in their campus and outside the campus for their bright future.	-	1,2	-
CO-5	Prevent and fight against harmful diseases for good health through positive mindset.	-	1,2	-

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

II Semester (Physics Cycle)

<u>Stream:</u> Computer Science & Engineering <u>Branch:</u> Computer Science & Engineering

22MATS21	Mathematics - II for CSE Stream	(2-2-2) 4
----------	---------------------------------	-----------

Descr	iption of the Course Outcome:	Mapping to	POs(1-12) / 16)	PSOs (13-
to:		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	GetfamiliarizewithmodernmathematicaltoolsnamelyMATHEMATICA / 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	1.4	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
22PHYS22				Pł	າys	ics	fo	r C	SE	Stre	am				(2-	2-2)	4

Descr	iption of the Course Outcome:	Mapping to	POs(1-12) /	PSOs (13-16)
At the able to	end of the course the student will be o:	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 propertiesofsuperconductorsandapplicationsinQuantumComputing.	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	-	-	-	-

22CED23 Computer Aided Engineering Drawing

Descr	iption of the Course Outcome:	Mapping to	POs(1-12) /	PSOs (13-16)
At the able to	end of the course the student will be o:	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/F	PSOs 1 2 3 4 5 6 7	8 9 10	11 12 1	3 14 15 16

POS/PSOS	1	2	3	4	5	6	1	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	I	1.7	-	-	-	-

22ESC243 Introduction to Electronics Engineering

(3-0-0) 3

Descr	iption of the Course Outcome:	Mapping to	POs(1-12) /	PSOs (13-16)
At the able to	end of the course the student will be o:	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	-	I	I	I	I	-	-	-	1.0	I	-	-	-

22PLC25E

Advanced C Programming

(2-0-2) 3

Descr	iption of the Course Outcome:	Mapping to	POs(1-12) /	PSOs (13-16)
At the able to	end of the course the student will be o:	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	2.0	2.0	2.0	-	-	-	-	-	-	-	-	1.0	-	1.0	-	-
Level																

22ENG26

Communicative English

(1-0-0) 1

Descr	iption of the Course Outcome:	Mapping to POs(1-12) / PSOs (13-							
At the able to	end of the course the student will be o:	Substantial Level (3)	Moderate Level (2)	Slight Level (1)					
CO-1	ExplainandapplytheFundamentalsofCommunicationSkills in their communication skills.	-	10	-					
CO-2	Identify the nuances of phonetics,intonationandpronunciation 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	-	-	-	-	-	-

Descr	iption of the Course Outcome:	Mapping to POs(1-12) / PSOs (13-16)									
At the able to	end of the course the student will be o:	Substantial Level (3)	Moderate Level (2)	Slight Level (1)							
CO-1	Appreciate various design process procedure.	-	-	3							
CO-2	Generate and develop design ideas through different technique	-	-	3							
CO-3	Identify the significance of reverseEngineeringtoUnderstandproducts.	-	-	6							
CO-4	Draw technical drawing for design ideas.	-	-	1							
D		7 9 0 10	11 12 12	14 15 16							

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