

INENI LAKSHMAIAH





NAAC A+ Grade | Approved by digunta (V), Vatticherukuru (M).

DEPARTMENT OF SCIENCE AND HUMANITIES COURSE OUTCOME WITH POS

NAME OF THE PROGRAM

: B.TECH

SUBJECT NAME

: MATHEMATICS-1

SUBJECT CODE

: C102

REGULATION

: MR23

ACADEMIC YEAR

: 2023-24

SEMESTER

: I/I

FACULTY

: O.BHAVEENA SRI

After the completion of the course the student will able to learn

CO. NO	COURSE OUT COME	RBTL
C102.	Determine the rank of a matrix and Solve the system of linear algebraic equations	Understand(L2)
C102. 2	Determine the eigen values and Discuss the nature of quadratic forms	Apply(L3)
C102.	Concepts of various types of convergence and Concepts of various types of Mean Theorems	Apply(L3)
C102.	Concepts of Total Derivative and Jacobian and Determination of maximum and minimum values of functions of two variables.	Apply(L3)
C102.	Concept of double and triple integration and Evaluating area and volumes covered by region by applying double and triple integrations.	Apply(L3)

Remember- L1

Understand - L2

Apply - L3

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Dept. of Science and Humanital MALINENI LAKSHMAIAH OMEN'S ENGINEERING COLLEG

(AUTONOMOUS) PULLADIGUNTA, GUNTUR-522017

MALINENI LAKSHMAIAH WOMEN'S ENGINEERING COLLEG (AUTONOMOUS)

PULLADIGUNTA, GUNTUR-522017.



Mapping of course outcomes with program outcomes:

CO&PO	POI	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C102.1	2	2	,						, '	1.				-
C102.2	2	2												
C102.3	2	2												
C102.4	2	2												
C102.5	3	2												
TOTAL	11	10						1.27						
No of Co's Mapping With Po/Pso	5	5												
Average	2.2	2										= 7	1	

* Low: 1

*Medium: 2

*High: 3

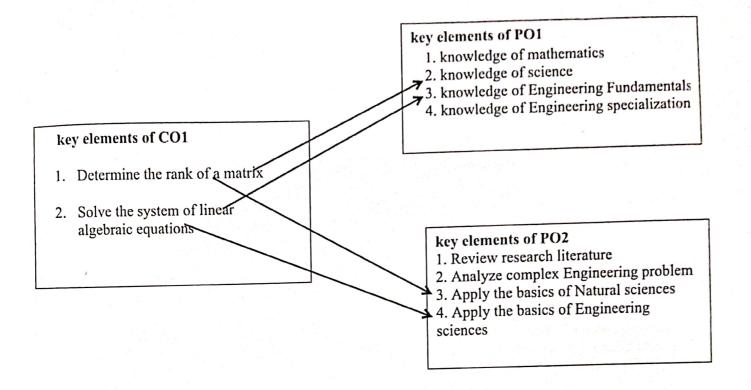
MALINENI LAKSHMAIAH WOMEN'S ENGINEERING COLLEGE

(AUTONOMOUS)
PULLADIGUNTA, GUNTUR-522017/

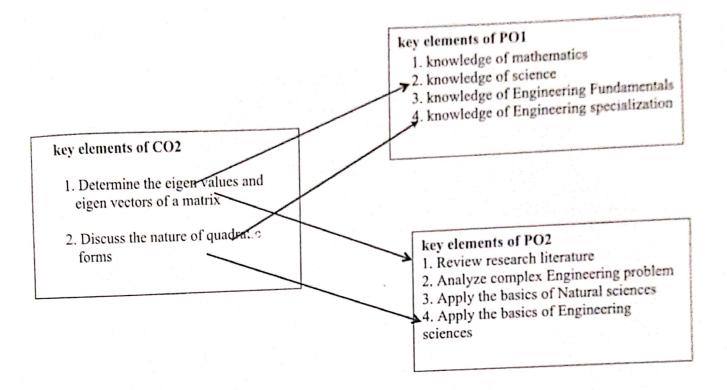
Faculty in-charge

Dept. of Science and Humanities MALINENI LAKSHMAIAH WOMEN'S ENGINEERING COLLEC (AUTONOMOUS) PULLADIGUNTA, GUNTUR-522017

CO1: Determine the rank of a matrix and solve the system of linear algebraic equations



No .of Key elements in PO1=n=4No. of key elements of CO1 mapping with key elements of PO1=m=2(m/n)*100=(2/4)*100=50%=2 No .of Key elements in PO2=n=4No. of key elements of CO1 is mapping with key elements of PO2=m=2(m/n)*100=(2/4)*100=50%=2



No .of Key elements in PO1=n = 4 No. of key elements of CO2 mapping with key elements of PO1=m=2 (m/n)*100=(2/4)*100=50%=2No .of Key elements in PO2=n = 4 No. of key elements of CO2 is mapping with key elements of PO2= m=2 (m/n)*100=(2/4)*100=50%=2 CO3: Utilize the Mean Value theorems to real life problems

key elements of CO3

- 1. Concepts of various types of convergence
- 2. Concepts of various types of Mean Theorems

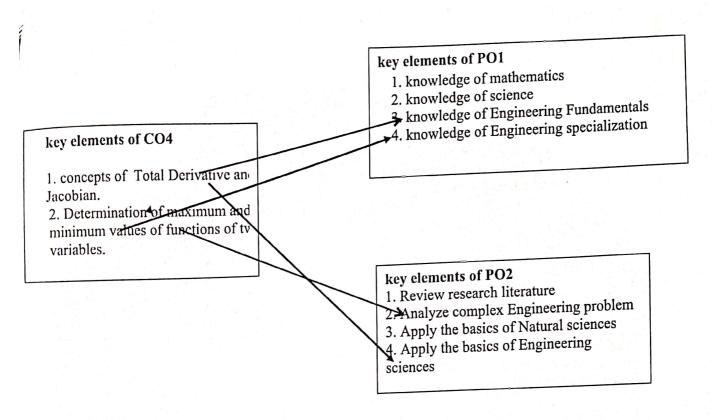
key elements of PO1

- A. knowledge of mathematics
- 2. knowledge of science
- 3. knowledge of Engineering Fundament
- 4. knowledge of Engineering specializati

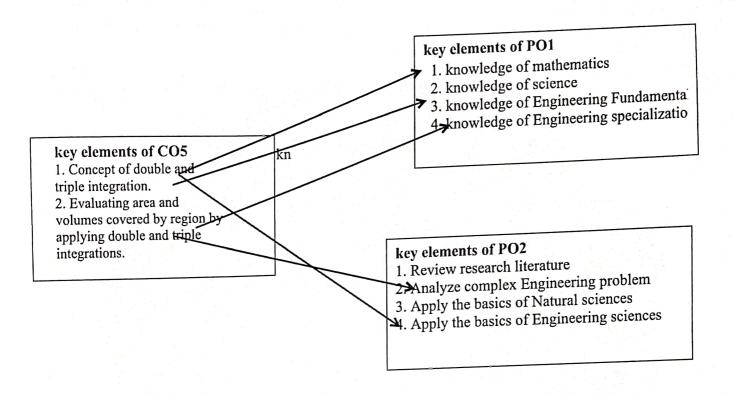
key elements of PO2

- 1. Review research literature
- 2. Analyze complexEngineeringproblem
- 3. Apply the basics of Natural sciences
- Apply the basics of Engineering sciences

No .of Key elements in PO1=n = 4No. of key elements of CO3 mapping with key elements of PO1=m=2 (m/n)*100=(2/4)*100=50%=2 No .of Key elements in PO2=n=4No. of key elements of CO3 is mapping with key elements of PO2= m=2 (m/n)*100=(2/4)*100=50%=2



No. of Key elements in PO1=n = 4 No. of key elements of CO4 mapping with key elements of PO1=m=2 (m/n)*100=(2/4)*100=50%=2No. of Key elements in PO2=n = 4 No. of key elements of CO4 is mapping with key elements of PO2= m=2 (m/n)*100=(2/4)*100=50%=2



No .of Key elements in PO1=n = 4 No. of key elements of CO5 mapping with key elements of PO1=m=3 (m/n)*100=(3/4)*100=75%=3No .of Key elements in PO2=n = 4 No. of key elements of CO5 is mapping with key elements of PO2= m=2 (m/n)*100=(2/4)*100=50%=2



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Rulladiguuta (XII), Xatticherukuru (Md), Prathipadu Road, Guntur - 522 017 A.P.



DEPARTMENT OF SCIENCE AND HUMANITIES

YEAR/SEMESTER:

I.B.Tech, I-SEMESTER

COURSE NAME:

COMMUNICATIVE ENGLISH

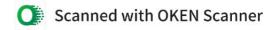
Lesson Plan

Unit Number	Topic covered	Source	Tools usage	Hours
	Text: "The Gift of Magi" (Listen & Reading (text)	Pathfinder	Green board & chalk	1-4
	Dialogue practice on self introduction (speaking)	web link	Audio practice on Computer	5
· · · · · ·	Skimming & Scanning	Textbook & weblink	Green board & chalk	6
	Capital Letters & Punctuation, Commonly Mis-spelt words, Content & function words	Textbook & weblink	Green board & chalk & PPT	7
-	Parts of Speech	Textbook & weblink	Green board & chalk & PPT	8
	Sentence Structure and word order	Textbook & weblink	Green board & chalk & PPT	9
1,1,4,1	Word roots, prefixes, suffixes	Textbook & weblink	Green board & chalk & PPT	10
	Synonyms and Antonyms	E-dictionary	Wenlink	11
Unit Number				
11	"The Brook" a poem written by Tennyson & Listen for the main idea of the text	Textbook	Green board & chalk & google	12 -14
	Short talk & Dialogue	Weblink of Google	Computer	15
	Sentence sequencing & Paragraph Writing	Weblink of Google & textbook	Green board & chalk & google Computer	16 -17
	Cohesive devices 53 were observed	Textbook & Google	Green board & chalk & google Computer	18
	Articles & prepositions	Textbook & Google	Green board & chalk & google Computer	19
	Homonyms, homographs & homophones	Textbook & Google	Green board & chalk & google Computer	20
Unit : III	Elon Musk	Textbook & Google	Green board & chalk & google Computer	21 - 24
	Listening Comprehension	Textbook & Google	Weblink of google	25

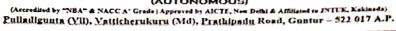
Dr.D.Subba Rao

Professor of English

Course File A.Y: 2023-24









		Textbook &	Green board &	
	Discussion, reporting and drawing inferences	Google	google link	26
1 2 11		Text-book &	Green board &	27-28
	Paraphrasing, summarizing & Note -making	weblinks	google link	
	Verb & Tense	Text-book &	Green board &	29 &
		weblinks	google link	30
	Concord	Text-book &	Green board &	31& 32
		weblinks Text-book &	google link Green board &	310.02
	Compound words & Collocations	weblinks	google link	33
		Text-book &	Green board &	
Unit: IV	and the second second	weblinks	google link	34-36
	"The Toys of Peace" written by Saki	Text-book &	Green board &	
	Expressions of Spoken English	weblinks	google link	37
	Expressions of Spoken English	Text-book &	Green board &	The state of the s
	Data Interpretation	weblinks	google link	38
	Data interpretation	Text-book &	Green board &	
	Writing Official letters	weblinks	google link	39
	Witting Official States	Text-book &	Green board &	
	Resume Writing	weblinks	google link	40
	Sentence Transformation:	Text-book &	Green board &	
	1.Active & Passive verb &	weblinks	google link	41-42
	2. Direct Indirec t Speech			40
		Text-book &	Green board &	43
	Words Often Confused / jargon	weblinks	google link	44.40
Unit: V		Text-book &	Green board &	44-48
	The Power of Intrapersonal Communication	weblinks	google link Green board &	49-50
	A December	Text-book & weblinks	google link	43-30
	How to make a Presentation	Text-book &	Green board &	51
	Reading Comprehension	weblinks	google link	
	Reading comprehension	Text-book &	Green board &	52
	Essay Writing Techniques	weblinks	google link	
		Text-book &	Green board &	53-54
	Correcting Common Errors	weblinks	google link	346
	Technical Vocabulary Practice	Text-book &	Green board &	55
		weblinks	google link	

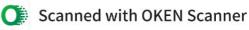
Prepard by Dr.D.Subba Rao

PRINCIPAL MALINENI LAKSHMAIAH WOMEN'S ENGINEERING COLLEGE (AUTONOMOUS)
PULLADIGUNTA, GUNTUR-522017.

Dr.D.Subba Rao

Professor of English

Course File A.Y: 2023-24





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DEPARTMENT OF SCIENCE AND HUMANITIES

YEAR/SEMESTER : I.B.Tech., I-Semester -2023-2024

COURSE NAME: COMMUNICATIVE ENGLISH

Mapping COs with POs/ PSOs

CO&PO	PO1	PO2	PO3	PO4	PO5	P06	P07	PO8	P09	PO1 0	P011	PO12	PSOI	PSO2
CO1	1 y									2	No. of the last of			
CO2							<i>*</i> 1						- 1	
CO2									O	1		•		
CO4										2			• 1927	
CO5					D.		-			3				
TOTAL			A STATE OF THE STA	3						9				
No of Co'sMappin gWithPo/Ps o		S								5				
Average		*	7							1.8				

Dept. of Science and Humanities MALINENI LAKSHMAIAH WOMEN'S ENGINEERING COLLEGE (AUTONOMOUS)

PULLADIGUNTA, GUNTUR-522017

Dr.D.Subba Rao

Professor of English

MALINENI LAKSHMAIAH WOMEN'S ENGINEERING COLLEGE (AUTONOMOUS)

PULLADIGUNTA, GUNTUR-522017.

Course File A.Y: 2023-24



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DEPARTMENT OF SCIENCE AND HUMANITIES

COURSE NAME: ACADEMIC YEAR: I.B.Tech, I-SEMESTER- 2023-24 CHEMISTRY

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super conductors- basic concept, applications.	Super conductors-Introduction		Semiconductors - basic concept, applications.	Semiconductors - Introduction	UNIT II Modern Engineering materials		π-molecular orbitals of Butadiene and Benzene,	bonding in hetero diatomic molecules – energy level diagrams of CO, bond order and magnetism	bonding in homo diatomic molecules - energy level diagrams of O2, bond order and magnetism	Molecular orbital theory	particle in one dimensional box		Significance of Ψ and Ψ²		Schrodinger Wave equation	Hiesenberg uncertainity principle,	Fundamentals of Quantum mechanics,bohr's theory ,debroglie theory	Iopic	
Chalk & Talk	Chalk & Talk		Chalk & Talk	Chalk & Talk				Chalk & Talk	Chalk & Talk	Chalk & Talk	Chalk & Talk		Chalk & Talk	РРТ	Chalk & Talk	Chalk & Talk	Chalk & Talk		Teaching Aid
T2,R3	T2,R3	**************************************	T2,R2	T1,A1				Т1,Т2	R3,R1,A1	T1,T2,R1	R1,T1,T2		R2,T1,T2,A1		A1,T1	T1,T2,A1	T1, A1		Books

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and mechanisms of polymer formation.	step growth polymerization with specific examples	Chain growth polymerization with specific examples and mechanisms of polymer formation.	Introduction to polymers functionality of monomers,	UNIT IV Polymer Chemistry	Polymer Electrolyte Membrane Fuel cells (PEMFC).	Fuel cells- Hydrogen-Oxygenfuel cell– working of the cells	Lead(Pb)-lead acid storage batteries	Secondary cells –Lithium-ion batteries	Primary cells – Zinc-air battery	Amperometric sensors with examples.	Potentiometric sensors with examples	Electrochemical sensors	standard hydrogen electrode, calomel electrode.	Electro chemical series	Nernst equation, cell potential calculations and numerical problems	single Electrode potential	Electrochemical cell	UNIT III Electrochemistry and Applications	properties and applications of Graphenes nanoparticles.	properties and applications of carbon nano tubes	properties and applications of Fullerenes	Nano materials: Introduction, classification	Basic Concept-Applications.	Supercapacitors: Introduction, Classification
	Chalk &Talk	Chalk & Talk	Chalk & Talk		Chalk & Talk	Chalk & Talk	Chalk & Talk	Chalk & Talk	Chalk & Talk	Chalk & Talk	Chalk & Talk	Chalk & Talk	Chalk & Talk	Chalk & Talk	Chalk & Talk	Chalk & Talk	Chalk & Talk		Chalk & Talk	Chalk & Talk	Chalk & Talk	Chalk & Talk	Chalk & Talk	Chalk & Talk
	T2,R1,A1	T2,R3	W3	(2) a	T1,T2,A1	T1,A1	W2	A1,T2	Т1,Т2	T2,R2	T1,A1	T2,R1	T2,R3	T2,R3	T2,R2	T1,A1	T2,R1		Т1,Т2	T2,R3	T2,R3	T2,R2	Т1,А1	T2,R1

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	CT scan -procedure and applications of CT scan	Magnetic resonance image(MRI) procedure and applications	IR spectroscopy and Instrumentation of IR	Instrumentation of UV	UV-Visible Spectroscopy, electronic transition	Absorption of radiation: Beer-Lambert's law	Electromagnetic spectrum	UNIT V Instrumental Methods and Applications	Bio-Degradable polymers - Poly Glycolic Acid (PGA), Polyl Lactic Acid (PLA).	polyaniline, – mechanism of conduction and applications	Conducting polymers – polyacetylene mechanism of conduction and applications	Elastomers-Buna-S, Buna-N-preparation, properties and applications	Preparation, properties and applications of Nylon-6,6 ,carbon fibres.	Preparation, properties and applications of Bakelite	Preparation, properties and applications of – PVC, Teflon	Thermosetting plastics	Plastics -Thermo Plastics	coordination polymerization with specific examples and mechanisms of polymer formation.
	Chalk & Talk		Chalk & Talk	Chalk & Talk	Chalk & Talk	Clair & Lan	Chall & Talk		Chalk & Talk	Clark	Chalk & Talk	Chalk & Talk		Chalk & Talk		Chalk & Talk	Chalk & Talk	Chalk & Talk
	T1,R3	W7	T2,R3,A1	1	W4		111, 112, 110	TT1 B2 B3	12,112	T2 B1	T2 A1	KL, NZ, 12	3	1,12	1	A1,T1,T2	T2,R3	Т1,А1

Text Books:

P.C. Jain and M. Jain "Engineering Chemistry", 15/e, Dhanpat Raí & Sons, Delhi, (Latest

edition).

- 5 (2019).Shikha Agarwal, "Engineering Chemistry", Cambridge University Press, New Delhi,
- w A S.S. Dara, "A Textbook of Engineering Chemistry", S.Chand & Co, (2010).
- Shashi Chawla, "Engineering Chemistry", Dhanpat Rai Publicating Co. (Latest edition).

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Mapping of course outcomes with program outcomes:



COLLEGE

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DEPARTMENT OF SCIENCE AND HUMANITIES

Mapping of course outcomes with program outcomes:

COURSE NAME:

ACADEMIC YEAR:

I.B.Tech, I-SEMESTER- 2023-24

CHEMISTRY

Average	No of Co's Mapping With Po/Pso	TOTAL	C105.5	C105.4	C105.3	C105.2	C105.1	CO&PO
	1							P01
								2 PO
		, <u>=</u>						PO3
				8,,				PO4
								5 PO
								P06
			7					P07
								P08
					Sar			9 PO
1.8	М	9	ь	ω	2	н -	2	PO1
								PO1
								PO1
1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 /								PSO 1
								PSO2

SIGNATURE OF THE FACULTY

(D.SUVARCHALA)

MALINENI LAKSHMAIAH
/OMEN'S ENGINEERING COLLEGE Dept. of Science and Humanities ロロロ

MALINENI LAKSHMAIAH
WOMEN'S ENGINEERING COLLEGI
(AUTONOMOUS)

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PULLADIGUNG, SINTUR.

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Malineni Lakshmaiah Women's Engineering College :: Guntur Department of Science and Humanities

COURSE OUTCOMES

Subject Name : ENGINEERING PHYSICS

Degree / Branch Year / Semester B. Tech / ECE

Academic Year 2023 - 2024

Regulation : Mr23

After the completion of course, the student will be able to

C101.5	C101.4	C101.3	C101.2	C101.1	CO No.
Identify applications of semiconductors in electronic devices.	Understand the significance of wave function	Explain the application of dielectric and magnetic materials.	Familiarize with the basics of crystals and their structures.	Analyze the differences between interference and diffraction with Applications	Course Outcome Statement
Understand L2	Understand L2	Understand L2	Apply L3	Analyze 14	Taxonomy Level

Faculty In-charge

WOMEN'S ENGINEERING COLLEGE (AUTONOMOUS) 522017 HOD Aku

MALINENI LAKSHIVAJAH

PRINCIPAL

WOMEN'S ENGINEERING COLLEGE Dept. of Science and Humanities PULLADIGUNTA_GUNTUR-522017 MALINENI LAKSHMAIAH (AUTONOMOUS)



WOMEN'S ENG ENGINEERING COL COLLEGE

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Subject Name Year / Semester

Degree / Branch

Academic Year

Regulation

DEPARTMENT OF SCIENCE AND HUMANITIES **ENGINEERING PHYSICS**

B. Tech / ECE

: Mr23 2023 - 2024

	Name of the Course:	
	ENGINEERING PHYSICS	
	Course Code:	
CTO	3	

Course Outcomes:

After the completion of course, the student will be able to

	electronic devices.	A COMPANY OF THE PROPERTY OF T
Understand L2	Identify applications of semiconductors in	C101.5
Understand L2	Understand the significance of wave function	C101.4
Understand L2	Explain the application of dielectric and magnetic materials	C101.3
Apply L3	Familiarize with the basics of crystals and their structures.	C101.2
Analyze L4	Analyze the differences between interference and diffraction with Applications	C101.1
Taxonomy Level	Course Outcome Statement	CO No.

Mapping of course outcomes with program outcomes:

High -3

Medium -2

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		C101.5	C101.4	C101.3	C101.2	C101.1	РО/СО
		2	w	ယ	w	2	PO1
		w	2	2	1	w	P02
		_	_	-	2	1	P03
							P04
							POS
	1		4) 121				P06
				i i			P07
							P08
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		7		P09
		7 See & 10					PO10
,							POS PO6 PO7 PO8 PO9 PO10 PO11 PO12
							PO12
							PSO1
							PSO

Name and Signature of the Course Coordinator:

MINA HOD

0 OMENS ENGINEERING COLLEGE (AUTONOMOUS) MALINENI LAKSHMAIAH of Solence and Humanities

M. By Nowal

WOMEN'S ENGIN MALINENI LAKSHMAIAH

PULLADIGUNTA, GU AUTO PRINCIPAL

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3 | Page

No. of key elements of CO1 is mapping with key elements of PO2= m=3, (m/n)*100=(2/3)*100=100%==3 No. of key elements of CO1 mapping with key elements of PO1=m=2, (m/n)*100=(2/3)*100=66%==2

No. of key elements of CO1 is mapping with key elements of PO3= m=1, (m/n)*100=(1/3)*100=33%==1

No .of Key elements in CO1: n = 3

No. of key elements of CO1 is mapping with key elements of PO2= m=1,(m/n)*100=(1/3)*100=33%==1 No. of key elements of CO1 mapping with key elements of PO1=m=3,(m/n)*100=(3/3)*100=100%==3 No .of Key elements in CO1: n = 3No. of key elements of CO1 is mapping with key elements of PO3= m=1,(m/n)*100=(2/3)*100=66%==2

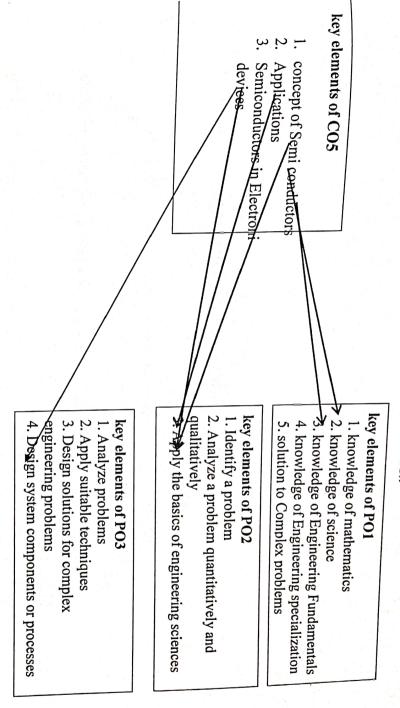
No .of Key elements in CO1: n = 3

No. of key elements of CO1 is mapping with key elements of PO2= m=2, (m/n)*100=(2/3)*100=66%==2 No. of key elements of CO1 mapping with key elements of PO1=m=3, (m/n)*100=(3/3)*100=100%==3 No. of key elements of CO1 is mapping with key elements of PO3= m=1, (m/n)*100=(1/3)*100=33%==1

No .of Key elements in CO1: n = 3

No. of key elements of CO1 mapping with key elements of PO1=m=3, (m/n)*100=(3/3)*100=100%==3 No. of key elements of CO1 is mapping with key elements of PO2= m=2, (m/n)*100=(2/3)*100=66%==2

No. of key elements of CO1 is mapping with key elements of PO3= m=1, (m/n)*100=(1/3)*100=33%==1



No .of Key elements in CO1: n = 3

No. of key elements of CO1 is mapping with key elements of PO2= m=3,(m/n)*100=(3/3)*100=100%==3No. of key elements of CO1 mapping with key elements of PO1=m=2,(m/n)*100=(2/3)*100=67%==2 No. of key elements of CO1 is mapping with key elements of PO3= m=1,(m/n)*100=(1/3)*100=34%==1



Malineni Lakshmaiah Womens Engineering College::Guntur

Department of Science and Humanities

LESSON PLAN FOR TUTORIALS

Degree & Branch Academic Year Course Name **Faculty Name**

: M.PRASAD

ENGINEERING PHYSICS 2023-24 I Semester-2023-2024

: I B. Tech ECE

		12 Pag	
7 2	The state of the s	Schrodinger Time dependent & Independent wave equation.	
T1,T3	Chalk & Talk		10
R1		Properties of matter waves, De brogely hypothesis.	9.
Т1,Т3	Chalk & Talk		
2		separation between successive (hkl) planes.	,×
Т1,Т3	Chalk & Talk		0
和		Miller indices	7.
T1,T3	PPT		1
R1		packing fraction of SC, BCC & FCC	6.
11,13	Chalk & Talk		
R1		Quarter wave plate and half wave plates, Nicols prism.	y.
T1,T3	Chalk & Talk		1
R1		Grating equation, Resolving power of a grating	+
Т1,Т3	Chalk & Talk		_
R1		Fraunhoffer diffraction at single slit, Maxima & Minima conditions.	
Т1,Т3	Chalk & Talk		u
R1		Newton's rings construction and working and its applications.	
T1,T3	Chalk & Talk		2
R1		ill terrerence in thin films by reflection.(Qualitative method).	
T1,T3	Chalk & Talk		1.
Books	Teaching Aid	lopic	
		Torio	S.No

		Chalk & Talk	T1,T3, R1
1	Difference hetween C.F.T& Q.F.T.		
		Chalk & Talk	11,13
12.	Origin of magnetic materials.		R1
		Chalk & Talk	T1,T3
13.	Classification of magnetic materials, Dia, Para, Ferro materials.		R1
		Chalk & Talk	T1,T3
14.	Hysteresis Loop. Soft & Hard magnetic materials		R1
		Chalk & Talk	11,13
15.	Types of polarizations, Electrics , Ionic , Orientation.		R1
		Chalk & Talk	П1,П3
16.	Local internal flieds.		R1
		Chalk & Talk	11,13
17.	Drift & Diffusion, Relevance of Einstein's equation.		R1
		Chalk & Talk	11,13
18.	Hall effect in semiconductors		3

Textbooks:

- A Text book of Engineering Physics, M. N. Avadhanulu, P.G.Kshirsagar ArunMurthy, S. Chand Publications, 11th Edition 2019. & TVS
- 9 Engineering Physics - D.K.Bhattacharya and Poonam Tandon, Oxford press
- Basic Engineering Physics Dr.P.Sreenivasarao and Dr.K.muralidhar, Himalaya house 2013.
- Engineering Physics Dr.P.Sreenivasarao and Dr.K.muralidhar, Himalaya publishing
- ∞ publishing house 2017.

Reference Book

- 5 Engineering Physics - B.K. Pandey and S. Chaturvedi, Cengage Learning 2021
- 6 Engineering Physics - Shatendra Sharma, Jyotsna Sharma, Pearson Education, 2018.
- Engineering Physics" UniversityPress. 2010 Sanjay D. Jain, D. Sahasrabudhe and Girish,
- α Engineering Physics - M.R. Srinivasan, New Age international publishers (2009)

Web Resources: https://www.loc.gov/rr/scitech/selected-internet/physics

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XX (Ju)

MALINENI LAKSHMAIAH Dept. of Science and Humanities (AUTONOMOUS)

WOMEN'S ENGINEERING COLLEG (AUTONOMOUS).
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MALINENI LAKSHMAIAH WOMEN'S ENGINEERING COLLEGE

(Autonomous)

(Approved by AICTE, Affiliated to JNTUK) (An ISO9001:2008 Certified Institution) Pulladigunta (Village), Vatticherukuru (Mandal), Guntur-522017, Andhra Pradesh, India

LESSON PLAN

Subject Name

: ENGINEERING GRAPHICS

Year / Semester

:1/1

Degree / Branch

: B.Tech / ECE

Academic Year

: 2023-24

S.No	Topic(s)	No. of Periods	Reference Book	Teaching Aid
	UNIT – I			
1	Introduction to engineering drawing, lettering, dimensioning & polygons	2	T1, R3	Chalk & talk
2	Parabola, Ellipse, Hyperbola - General method	2	T2, R1	Chalk & talk
3	Cycloids & Involutes	4	T3, R3	Chalk & talk
4	Scales- Plain, Diagonal & Vernier scales	4	T2, R1	Chalk & talk
	UNIT – II		12, 10	Chark te talk
5	Projections of points	4	T2, R3	Chalk & talk
6	Projections of straight lines parallel to both the planes and inclined to one plane	4	T1, R1	Chalk & talk
7	Projections of straight lines inclined to both	4	T1, R1	Chalk & talk
8	Determination of true length	2	T1, R2	Chalk & talk
9	Projection of planes inclined to H.P/V.P and parallel to V.P/H.P	4	T1, R3	Chalk & talk
10	Projections of planes inclined to both	4	T2, R2	Chalk & talk
	UNIT – III		7.7	Chair & lark
11	Projection of cylinder and prisms in simple position	2	T1, R1	Chalk & talk
12	Projection of cone and pyramid in simple position	2	T1, R1	Chalk & talk
13	Projection of cylinder and prism in inclined position	3	T1, R1	Chalk & talk
14	Projection of cone and pyramid in simple position	3	T1, R1	Chalk & talk
	UNIT – IV			
15	Sections of solids parallel to HP/VP	2	T1, R1	Chalk & talk
16	Sections of solids inclined to HP/VP	4	T1, R1	Chalk & talk
17	Development of surfaces for cylinder and Prism	2	T2, R3	Chalk & talk

UNIT -	V		Visit and
18 Conversion of isometric into orthographic	4	T2, R1	PPT
19 Conversion of Orthographic to isometric	4	T1, R3	PPT
TOTAL NO.OF CLASSES	60		

TEXT BOOKS

- 1. Engineering Drawing by N.D. Butt, Chariot Publications.
- 2. Engineering Drawing by K.L.Narayana & P. Kannaiah, Scitech Publishers.
- 3. Engineering Graphics by PI Varghese, McGrawHill Publishers

REFERENCES

- 1. Engineering Graphics for Degree by K.C. John, PHI Publishers.
- Engineering Drawing by Agarwal & Agarwal, Tata McGraw Hill Publishers.
- 3. Engineering Drawing + AutoCad K Venugopal, V. Prabhu Raja, New Age Publishers.

Web References:

- W1. https://nptel.ac.in/courses/112103019/
- W2. https://www.smartdraw.com/cad/technical-drawing-software.htm
- W3. https://www.autodesk.com/solutions/technical-drawing
- W4. http://home.iitk.ac.in/~anupams/ME251/EDP.pdf
- W5. http://www.staff.city.ac.uk/~ra600/ME1105/Lectures/ME1110-02.pdf
- W6. https://www.teachengineering.org/activities/view/cub_engrdrawings_activity01
- W7. https://ocw.mit.edu/courses/mechanical-engineering/2-007-design-and-manufacturing-i-

spring-2009/related-resources/drawing and sketching/

Faculty In-charge

HOD

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(AUTONOMOUS)
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PULLADIGUNTA, GUNTUR, 522017.





MALINENI LAKSHMAIAH WOMEN'S ENGINEERING COLLEGE

(Autonomous)

(Approved by AICTE, Affiliated to JNTUK) (An ISO9001:2008 Certified Institution) Pulladigunta (Village), Vatticherukuru (Mandal), Guntur-522017, Andhra Pradesh, India

Subject Name

: Engineering Graphics

Year / Semester Degree / Branch

: I / I Sem

Academic Year

: B.Tech / ECE : 2023 - 2024

MAPPING CO WITH PO/PSO

Cos / Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	POS	POO	PO10	DO11	DO12	ngo	7000
POS					103	100	107	108	rog	POID	POII	PO12	PSOI	PSO2
CO1	2	-	3		1 1 2	-	: <u>-</u> -	_	-	_	1 0	1.1		
CO2	3	1					_						-	-
CO3	-, <u>-</u>		3	_	2			-	<u> </u>	-		- 11	-	
CO4		3	2				-	-	-	-	-	-	-	
CO5	-	-	2	-	_	-		-	-	-		- "		. - , , , ,
	-		3	-	2	-	-	-	-	- 1	-	-		
AVG	2.5	2	2.75	, -	2	-		-		- 10-	_	-	_	

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MALINENI LAKSHMAIAH

WOMEN'S ENGINEERING COLLEGE (AUTONOMOUS)

PULLADIGUNTA, GUNTUR-522017.



DEPARTMENT OF SCIENCE AND HUMANITIES COURSE OUTCOME WITH PO S

NAME OF THE PROGRAM : I B.TECH

SUBJECT NAME : MATHEMATICS-II

SUBJECT CODE : C109.

REGULATION : MR23

ACADEMIC YEAR : 2023-24

SEMESTER : I/II

BRANCH : CSE

NAME OF THE COURSE CO-ORDINATOR: Dr P.SRILAKSHMI

After the completion of the course the student will able to learn

CO. NO	COURSE OUT COME	RBTL
C102.1	Solving the first order differential equations and applications of first order differential equations	Understand(L3)
C102.2	Solving the linear differential equations of higher order and Applications	Apply(L3)
C102.3	Concepts and solving of Homogeneous linear partial equations	Apply(L3)
C102.4	Concepts on Vector Differentiation, scalar potential and proofs on vector operators	Apply(L2)
C102.5	Concepts on Vector Integration, vector integrals and problems on vector integral theorems	Apply(L2)

Remember- L1

Understand - L2

Apply - L3

Mapping of course outcomes with program outcomes:

CO&PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C102.1	2	2		21				, , , , , , , , , , , , , , , , , , ,						
C102.2	2	2						1	-					, , , , , , , , , , , , , , , , , , ,
C102.3	2	2												
C102.4	3	2								,			1.	
C102.5	3	2			*,		,	es in a						3
TOTAL	12	10		179-1		ige ob.			-1					
No of Co's Mapping With Po/Pso	5	5												
Average	2.4	2		- ,	-1 -									

* Low: 1

*Medium: 2

*High: 3

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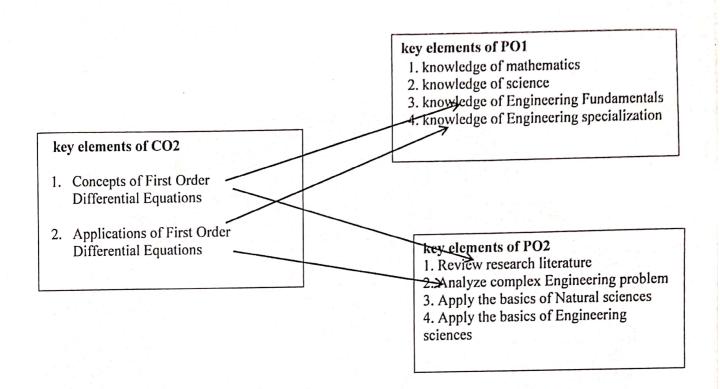
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(AUTONOMOUS)

PULLADIGUNTA, GUNTUR-522017.

CO1: Solving thefirst order differential equations and applications of first order differential equations



No .of Key elements in PO1=n=4No. of key elements of CO1 mapping with key elements of PO1=m=2 (m/n)*100=(2/4)*100=50%=2 No .of Key elements in PO2=n=4No. of key elements of CO1 is mapping with key elements of PO2= m=2 (m/n)*100=(2/4)*100=50%=2

key elements of PO1 ledge of mathematics. 2. knowledge of science 3. knowledge of Engineering Fundamentals key elements of CO2 4. knowledge of Engineering specialization 1concepts of linear differentialequations of higher order 2. Applications of linear differential equations of higher order key elements of PO2 1. Review research literature 2. Analyze complex Engineering problem 3. Apply the basics of Natural sciences Apply the basics of Engineering sciences

No .of Key elements in PO1=n = 4No. of key elements of CO2 mapping with key elements of PO1=m=2 (m/n)*100=(2/4)*100=50%=2 No .of Key elements in PO2=n=4No. of key elements of CO2 is mapping with key elements of PO2= m=2 (m/n)*100=(2/4)*100=50%=2

CO3: Concepts and solving of Homogeniouslinear partial equations

key elements of PO1

- 1 knowledge of mathematics
- 2. knowledge of science
- 3. knowledge of Engineering Fundamentals
- 4 knowledge of Engineering specialization

key elements of CO3

- 1. concepts of Linear Partial differential equations with constant coefficients
- 2. Solving Homogeneous Linear Partial differential equations with constant coefficients.

key elements of PO2

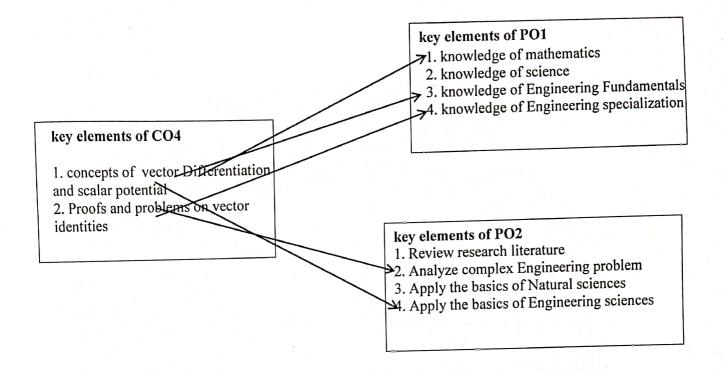
- 1. Review research literature
- 2. Analyze complex Engineering problem
- 3. Apply the basics of Natural sciences
- Apply the basics of Engineering sciences

No .of Key elements in PO1=n=4No. of key elements of CO3 mapping with key elements of PO1=m=2

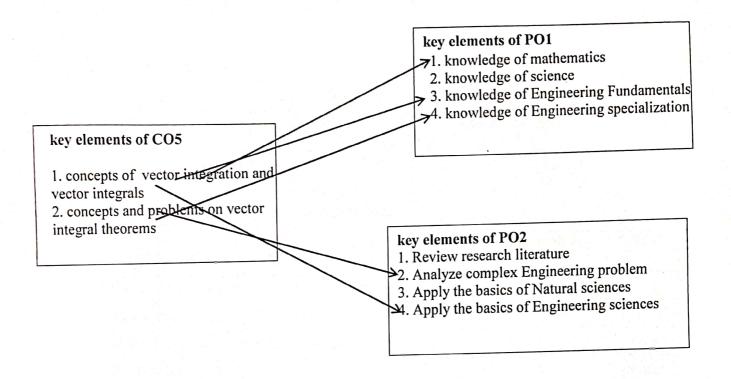
(m/n)*100=(2/4)*100=50%=2 No .of Key elements in PO2=n = 4

No. of key elements of CO3 is mapping with key elements of PO2= m=2 (m/n)*100=(2/4)*100=50%=2

CO4: Concepts on Vector Differentiation ,scalar potential and proofs on vector operators



No .of Key elements in PO1=n = 4 No. of key elements of CO4 mapping with key elements of PO1=m=3 (m/n)*100=(3/4)*100=75%=3No .of Key elements in PO2=n = 4 No. of key elements of CO4 is mapping with key elements of PO2= m=2 (m/n)*100=(2/4)*100=50%=2 CO5: Concepts on Vector Integration, vector integrals and problems on vector integral theorems



No .of Key elements in PO1=n = 4No. of key elements of CO5 mapping with key elements of PO1=m=3 (m/n)*100=(3/4)*100=75%=3 No .of Key elements in PO2=n=4No. of key elements of CO5 is mapping with key elements of PO2= m=2 (m/n)*100=(2/4)*100=50%=2

Faculty in-charge

Dept. of Science and Humanities

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PRINCIPAL MALINENI LAKSHMAIAH WOMEN'S ENGINEERING COLLEGE WOMEN'S ENGINEERING COLLEGE PULLADIGUNTA, GUNTUR-522017





LESSON PLAN

Academic Year: 2023-24

Year / Semester: II

Faculty Name: Dr.P.Srilakshmi

Credits: 3

Regulation: MR23

Branch: I.B.TECH., CSE

COURSE: MATHEMATICS-II (DE&VC)

LESSON PLAN

S.No	Торіс	Teaching Aid	Books
UNIT	I: Differential Equations of first order and first degree		
1	First order and first degree of Differential Equations	Chalk & Talk	T1,T2
2	Fundamentals on First order Differential Equations	Chalk & Talk	T1,T2
3	Exact Differential Equations	Chalk & Talk	T1,T2
4	Non Exact Differential Equations Type-I	Chalk & Talk	T1,T2
5	Non Exact Differential Equations Type-II	Chalk & Talk	T1,T2
6	Non Exact Differential Equations Type-III	Chalk & Talk	T1,T2
7	Non Exact Differential Equations Type-IV	Chalk & Talk	T1,T2
8	Linear differential equations	Chalk & Talk	T1,T2
9	Non Linear differential equations	Chalk & Talk	T1,T2
10	Bernoulli's equations	Chalk & Talk	T1,T2
11	Newton's Law of cooling	Chalk & Talk	T1,T2
12	Problems on Law of natural growth and decay	Chalk & Talk	T1,T2

13	Problems on Electrical circuits L-R and C-R circuit		
4	Problems Problems	Chalk & Talk	T1,T2
	II: Linear differential equations of higher order (Constant Coef	Chalk & Talk	T1,T2
		ficients)	200 A 100 A
5	Solution	Chalk & Talk	T1,T2
6	Find Complementary Solution	· · · · · · · · · · · · · · · · · · ·	
7	To find yp, if $Q(x)=e^{ax}$	Chalk & Talk	T1,T2
18	To find yp, if $Q(x) = Sin(ax + b)$	Chalk & Talk	T1,T2
19	To find yp, if $Q(x) = Cos (a x + b)$,	Chalk & Talk	T1,T2
20	To find yp, If $Q(x) = x^n$	Chalk & Talk	T1,T2
21	To find yp, If $Q(x) = e^{ax} v(x)$	Chalk & Talk	T1,T2
22	To find Y p if $Q(x)=x V(x)$,	Chalk & Talk	T1,T2
23	Problems using Definitions	Chalk & Talk	T1,T2
24	Problems on LCR circuit	Chalk & Talk	T1,T2
25	Problems on Simple Harmonic Motion	Chalk & Talk	T1,T2
26	Problems	Chalk & Talk	T1,T2
UNI	T:III: Partial Differential Equations		
27	Basics on Partial Differential Equations	Chalk & Talk	T1,T2
28	Formation of Partial Differential Equations by elimination of arbitrary constants	Chalk & Talk	T1,T2
29	Formation of Partial Differential Equations by elimination of arbitrary functions	Chalk & Talk	T1,T2
30	Solutions of first order linear equations using Lagrange's method	Chalk & Talk	T1,T2
31	Homogeneous Linear Partial differential equations with constant coefficients	Chalk & Talk	T1,T2

	Problems on Homogeneous Linear Deal Linear		
32	Problems on Homogeneous Linear Partial differential equations with constant coefficients	Chalk & Talk	T1,T2
	Non Homogeneous Linear Partial differential equations with	ANCHE LEGISLANI CONTRACTOR DE	
33	constant coefficients	Chalk & Talk	T1,T2
34	Problems	Chalk & Talk	T1,T2
UNIT	IV : Vector differentiation		
35	Vector Differentiation	Chalk & Talk	T1,T2
36	Vector operator, Div, Del, Grad, curl, Scalar Potential	Chalk & Talk	T1,T2
37	Directional derivative, Scalar potential	Chalk & Talk	T1,T2
38	Problems on Scalar potential	Chalk & Talk	T1,T2
39	Problems on Directional derivative	Chalk & Talk	T1,T2
40	Problems on Evaluation of Angle between Vectors	Chalk & Talk	T1,T2
41	Proofs on Vector operator.	Chalk & Talk	T1,T2
42	Problems on Solenoidal, irrotational	Chalk & Talk	T1,T2
43	Problems on Unit Normal Vectors	Chalk & Talk	T1,T2
44	Vector Identities	Chalk & Talk	T1,T2
45	Vector Identities	Chalk & Talk	T1,T2
46	Vector Identities	Chalk & Talk	T1,T2
	ΓV: Vector integration		
47	Fundamentals on Vector Integrals	Chalk & Talk	T1,T2
48	Concepts Line integral	Chalk & Talk	T1,T2
49	Problems on Line integral	Chalk & Talk	T1,T2
50	surface integral	Chalk & Talk	T1,T2
51	Problems on surface integral	Chalk & Talk	T1,T2
52	Problems on surface integral	Chalk & Talk	T1,T2
53	Volume integral	Chalk & Talk	T1,T2
54	Problems on Volume integral	Chalk & Talk	T1,T2
55	Problems on Volume integral	Chalk & Talk	T1,T2
56	Green's theorem in the plane	Chalk & Talk	TI,T
57	Problems on Green's theorem in the plane	Chalk & Talk	T1,T2

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and the same of	Problems on Green's theorem in the plane	Chalk & Talk	T1,T2
8 	Stoke's theorem	Chalk & Talk	T1,T2
	Problems on Stoke's theorem	Chalk & Talk	T1,T2
	Problems on Stoke's theorem	Chalk & Talk	T1,T2
		Chalk & Talk	T1,T2
	Divergence theorem Problems on Divergence theorem	Chalk & Talk	T1,T2
		Chalk & Talk	T1,T2
	Problems on Divergence theorem	Chalk & Talk	T1,T2
	applications of these theorems	Chark & Turn	

Textbooks:

- 1. Higher Engineering Mathematics, B. S. Grewal, Khanna Publishers, 2017, 44th Edition
- 2. Advanced Engineering Mathematics, Erwin Kreyszig, John Wiley & Sons, 2018, 10th Edition.

Reference Books:

- 1. Thomas Calculus, George B. Thomas, Maurice D. Weir and Joel Hass, Pearson Publishers, 2018, 14th Edition.
- 2. Advanced Engineering Mathematics, Dennis G. Zill and Warren S. Wright, Jones and Bartlett,
- 3. Advanced Modern Engineering Mathematics, Glyn James, Pearson publishers, 2018, 5th Edition.
- 4. Advanced Engineering Mathematics, R. K. Jain and S. R. K. Iyengar, Alpha Science International Ltd., 2021 5th Edition (9th reprint).
- 5. Higher Engineering Mathematics, B. V. Ramana, McGraw Hill Education, 2017

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