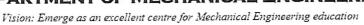


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DEPARTMENT OF MECHANICAL ENGINEERING





SEMESTER-I (Group-II: CD, CM, EE and ME) [NEP COMPLIANT]

	SEMIESTI	ER-1 (Group-II: CD			CONTRACTOR DESCRIPTION		CASE AND ASSESSMENT OF THE PARTY OF THE PART	O I VIII I		
		Scheme of Teaching &	Exami	nation	of Ba	chelor of	Technology			ALC: USANA
				Hours Per Week			Maximum Marks			ESE
Sr.	Course Code	Course Title	Hour				Continuous	End		Duration
No.			L	Т	P		Evaluation	Sem. Exam	Total	(Hrs)
1	N-BSC101T	Successive Differentiation and Differential Equation	3	1	0	4	40	60	100	3
2	N-BSC103T	Chemistry for Engineering	2	0	0	2	20	30	50	2
3	N-BSC103P	Engineering Chemistry Lab	0	0	2	1	25	25	50	-
4	N-ESC101T	Electrical Engineering	2	1	0	3	40	60	100	3
5	N-ESC101P	Electrical Engineering Lab	0	0	2	1	25	25	50	-
6	N-VSCME101P	Workshop Practices	0	0	4	2	25	25	50	-
7	N-ESC102T	Programming for Problem Solving	3	0	0	3	40	60	100	3
8	N-ESC102P	Programming for Problem Solving Lab	0	0	4	2	25	25	50	-
9	N-AEC101T	Communicative English	1	0	0	1	20	30	50	2
10	N-AEC101P	Communicative English Lab	0	0	2	1	25	25	50	-
11	N-CC102	Liberal Learning Course - 2	1	0	2	2	50	-	50	-
		TOTAL	12	2	16	22	335	365	700	

Revision	BoS Meeting	Date	wef. Academic Year
-	7 th	14-07-2023	2023-24

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DEPARTMENT OF MECHANICAL ENGINEERING



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SEMESTER-II (Group-II: CD, CM, EE and ME) [NEP-COMPLIANT]

Name of the	SENIESTI	K-II (Group-II: CD	NAME AND ADDRESS OF	MANAGEMENT OF STREET	A SANTON PROPERTY.	STATISTICS OF STATISTICS	AND DESCRIPTION OF THE PERSON	O IVII I		
		Scheme of Teaching &	Exan	nination	n of Ba	chelor of	Technology			
			Hours Per Week				Maximum Marks			ESE
Sr. No.	Course Code	Course Title	Hou	ırs Per	Week	Credits	Continuous	End Sem		Duration
			L	T	P		Evaluation	Exam	Total	(Hrs)
1	N-BSC104T	Integral Calculus and Linear Algebra	3	1	0	4	40	60	100	3
2	N-BSC102T	Applied Physics	2	0	0	2	20	30	50	2
3	N-BSC102P	Applied Physics Lab	0	0	2	1	25	25	50	-
4	N-ESC103T	Engineering Graphics and Design	1	0	0	i.	40	60	100	4
5	N-ESC103P	Engineering Graphics and Design Lab	0	0	4	2	25	25	.50	-
6	N-VSCME102P	Computer Aided Drafting	0	0	4	2	25	25	50	-
7	N-IKS101T	Indian Knowledge System	2	0	0	2	50	-	50	-
8	N-PCCME101T	Basics of Mechanical Engineering	2	0	0	2	20	30	50	2
9	N-PCCME101P	Basics of Mechanical Engineering Lab	0	0	2	1	25	25	50	-
10	N-CC101	Liberal Learning Course - 1	1	0	2	2	50	-	50	-
		TOTAL	11	1	14	19	320	280	600	

Revision BoS	Meeting	Date	wef. Academic Year			
-	7^{th}	14-07-2023	2023-24			

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DEPARTMENT OF MECHANICAL ENGINEERING



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2nd YEAR SEMESTER-III [NEP-COMPLIANT]

	Scheme of Teac	ching & Examination of Bachelor o	SATISTIC	The Revenue of the	The same of	NAMES AND STREET	A STATE OF THE STA	THE OWNER OF THE OWNER, WHEN	gineering)	
	participation of the second			ours p				um Marl		ESE
Sr. No.	Course Code	Course Title	L	week		Credits	Continuous Evaluation	End Sem. Exam	Total	Duration (Hrs.)
1	N-PCCME301T	Mathematics for Mechanical Engineering	2	1	0	3	40	60	100	3
2	N-PCCME302T	Kinematics of Machines	3	0	0	3	40	60	100	3
3	N-PCCME303T	Engineering Thermodynamics	3	0	0	3	40	60	100	3
4	N-PCCME304T	Material Science and Metallurgy	2	0	0	2	20	30	50	2
5	N-PCCME304P	Material Science and Metallurgy Lab	0	0	2	1	25	25	50	-
6	N-MDM	Multidisciplinary Minor Course: -1	3	0	0	3	40	60	100	3
7	N-OEC	Open Elective Course: -1	-3	0	0	3	40	60	100	3
9	N-HSSMME301T	Economics and Finance for Engineers	2	0	0	2	20	30	50	2
10	N-VECME301T	Universal Human Values	2	0	0	2	50	-	50	-
	N-CEPME301	Community Engagement Project (CEP)								
11	OR		0	0	4	2	50	-	50	-
	N-FPME301	Field Project (FP)								
12	N-MCME301	Indian Constitution	2	0	0		50	-	50	-
	Total		22	1	6	24	415	385	800	

Revision	BoS Meeting	Date	wef. Academic Year
-	7 th	14-07-2023	2024-25

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DEPARTMENT OF MECHANICAL ENGINEERING



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2nd YEAR SEMESTER-IV [NEP-COMPLIANT]

S. Alexander	Scheme of Teachin	ng & Examination of Bachelor o	f Tech	nolo	gy, IV	Semester B	.Tech. (Mecha	nical En	gineerin	g)
Sr.			Но	urs	per		Maximum Marks			ESE
No	Course Code	Course Title		week		Credits	Continuous	End Sem.	Total	Duration
	_		L	T	P		Evaluation	Exam	Total	(Hrs.)
1	N-PCCME401T	Fluid Mechanics	3	0	0	3	40	60	100	3
2	N-PCCME401P	Fluid Mechanics Lab	0	0	2	1	25	25	50	-
3	N-PCCME402T	Mechanics of Deformable Solids	2	0	0	2	20	30	50	2
4	N-PCCME402P	Mechanics of Deformable Solids Lab	0	0	2	1	25	25	50	-
5	N-PCCME403T	Manufacturing Processes	2	0	0	2	20	30	50	2
6	N-PCCME403P	Manufacturing Processes Lab	0	0	2	1	25	25	50	-
7	N-MDM	Multidisciplinary Minor Course: -2	3	0	0	3	40	60	100	3
8	N-OEC	Open Elective Course: - 2	3	0	0	3	40	60	100	3
9	N-SECME401P	Skill Enhancement Course: - 1	0	0	2	1	25	25	50	-
10	N-SECME402P	Skill Enhancement Course: - 2	0	0	2	1	25	25	50	-
11	N-AECME02	Ability Enhancement Course	2	0	0	2	50	-	50	-
12	N-HSSMME401T	Entrepreneurship Development	2	0	0	2	20	30	50	2
13	N-VECME401T	Environmental Studies	2	0	0	2	50	-	50	-
	T	otal	19	0	10	24	405	395	800	

Revision	Revision BoS Meeting - 7 th	Date	wef. Academic Year
-	7 th	14-07-2023	2024-25

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3rd YEAR SEMESTER-V [NEP-COMPLIANT]

	Scheme of Teac	ching & Examination of Bachelo	or of T	echna	logy,	V Semester	B.Tech. (Mecl	hanical E	ngineerin	g)
Sr.			Hours per week				Maximum Marks			ESE
No.	Course Code	Course Title				Credits	Continuous	End Sem.	Total	Duration
٠			L	T	P		Evaluation	Exam	Total	(Hrs.)
1	N-PCCME501T	Design of Machine Elements	3	0	0	3	40	60	100	3
2	N-PCCME502T	Heat Transfer	3	0	0	3	40	60	100	3
3	N-PCCME502P	Heat Transfer Lab	0	0	2	1	25	25	50	-
4	N-PCCME503T	Manufacturing Technology	2	0	0	2	20	30	50	2
5	N-PCCME503P	Manufacturing Technology Lab	0	0	2	1	25	25	50	-
6	N-PCCME504T	Measurements & Metrology	2	0	0	2	20	30	50	2
7	N-PCCME504P	Measurements & Metrology Lab	0	0	2	1	25	25	50	
8	N-PCCME505P	Machine Drawing and Solid Modelling Lab	0	0	2	1	25	25	50	-
9	N-PEC	Program Elective: - 1	3	0	0	3	40	60	100	3
10	N-MDM	Multidisciplinary Minor Course: -3	3	0	0	3	40	60	,100	3
11	N-OEC	Open Elective Course: - 3	2	0	0	2	20	30 •	• 50	2
		Total	18	0	8	22	320	430	750	

	Program Elective: - 1								
Sr. No.	Course Code	Course Title							
1 N-PECME501T		Hydraulic Machines							
2	N-PECME502T	Optimization Techniques							
3	N-PECME503T	Control Systems Engineering							

Revision BoS Meeting		Date	wef. Academic Year			
-	7 th	14-07-2023	2025-26			

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DEPARTMENT OF MECHANICAL ENGINEERING



Vision: Emerge as an excellent centre for Mechanical Engineering education

3rd YEAR SEMESTER-VI [NEP-COMPLIANT]

	Scheme of Tea	ching & Examination of Bachelor o			Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, whic	MANUFACTURE STATE OF THE PARTY	OF THE STREET SHOWS AND ADDRESS OF THE	Name and Address of the Owner, where the	gineering)	in the second
			н	ours p	er		Maximum Marks			ESE
Sr. No.	Course Code	Course Title	week		Credits	Continuous	End Sem.	Total	Duration	
			L	T	P		Evaluation	Exam		(Hrs.)
1	N-PCCME601T	Computer Aided Design	3	0	0	3	40	60	100	3
2	N-PCCME601P	Computer Aided Design Lab	0	0	2	1	25	25	50	-
3	N-PCCME602T	Energy Conversion-I	3	0	0	3	40	60	100	3
4	N-PCCME603T	Dynamics of Machines	3	0	0	3	40	60	100	3
5	N-PCCME603P	Dynamics of Machines Lab	0	0	2	1	25	25	50	-
6	N-PEC	Program Elective: - 2	3	0	0	3	40	60	100	3
7	N-PEC	Program Elective: - 3	3	0	0	3	40	60	100	3
8	N-MDM	Multidisciplinary Minor Course: - 4	3	0	0	3	40	60	100	3
9	N-SECME601P	Skill Enhancement Course: - 3	0	0	2	1	25	25	50	-
10	N-SECME602P	Skill Enhancement Course: - 4	0	0	2	1	25	25	50	-
Lan	Total				8	22	340	460	800	

Program Elective: - 2							
Sr. No. Course Code Course Title							
1	N-PECME601T	Internal Combustion Engines					
2	N-PECME602T	Industrial Engineering					
3	N-PECME603T	Hydraulic and Pneumatic Systems					

Program Elective: - 3							
Sr. Course Code Course Title							
1	N-PCCME604T	Refrigeration & Air Conditioning					
2	N-PCCME605T	Automobile Engineering					
3	N-PCCME606T	Environmental Engineering					

Revision	BoS Meeting	Date	wef. Academic Year
-	7 th	14-07-2023	2025-26

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DEPARTMENT OF MECHANICAL ENGINEERING



Vision: Emerge as an excellent centre for Mechanical Engineering education

4th YEAR SEMESTER-VII [NEP-COMPLIANT]

	Scheme of Teaching	g & Examination of Bachelor	of Tec	hnolo	gy, Vl	II Semester	B.Tech. (Mecl	nanical	Engineer	ing)
		Course Title	Hours per week			Maximum Marks			ESE	
Sr.							End Sem			
No .	Course Code		L	T	P	Credits	Continuous Evaluation	Exa m	Total	Duration (Hrs.)
1	N-PCCME701T	Energy Conversion-II	3	0	0	3	40	60	100	3
2	N-PCCME701P	Energy Conversion-II Lab	0	0	2	1	25	25	50	· -
3	N-PCCME702T	Design of Mechanical Drives	3	0	0	3	40	60	100	3
4	N-PEC	Program Elective: - 4	3	0	0	3	40	60	100	3
5	N-PEC -	Program Elective: - 5	3	0	0	3	40	60	100	3
6	N-MDM	Multidisciplinary Minor Course: - 5	2	0	0	2	20	30	50	2
7	N-PROJME701	Project: - I	0	0	8	4	75	75	150	-
MA	To	otal	14	0	10	19	280	370	650	

Program Elective: - 4							
Sr. No. Course Code Course Title							
1	N-PECME701T	Power Plant Engineering					
2 N-PECME702T Statistics and Quality Control		Statistics and Quality Control					
3	N-PECME703T	Product Design and Development					

Program Elective: - 5					
Sr. No. Course Code Course Title					
1	N-PECME704T	Finite Element Analysis			
2	N-PECME705T	Additive Manufacturing			
3	N-PECME706T	Solar Energy Utilization			

Revision	Revision BoS Meeting		wef. Academic Year		
-	7 th	14-07-2023	2026-27		

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DEPARTMENT OF MECHANICAL ENGINEERING



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4th YEAR SEMESTER-VIII [NEP-COMPLIANT]

	Scheme of Teach	ing & Examination of Bachelo	or of T	echnol	ogy, V	III Semeste	er B.Tech. (Med	chanical l	Engineeri	ng)
C			Hours per			Maximum Marks			ESE	
Sr. No	Sr. Woolf	Credits	Continuous	End	m . 1	Duration				
٠			L	Т	P		Evaluation	Sem. Exam	Total	(Hrs.)
1	N-PEC	Program Elective: - 6	3	0	0	3	40	60	100	3
2	N-RMEE801T	Research Methodology	3	0	0	3	40	60	100	3
3	N- PROJME801	Project-II	0	0	12	6	100	100	200	-
Total		6	0	12	12	180	220	400		
				OR						
1	N-ELCME801	Internship/On-Job Training (OJT)	One	e Seme	ster	12	100	100	200	-

Program Elective: - 6							
Sr. No. Course Code Course Title							
1	N-PECME801T	Renewable Energy Systems					
2	N-PECME802T	Industrial Management					
3	3 N-PECME803T Automation in Manufacturing						

Revision	BoS Meeting	Date	wef. Academic Year		
-	$7^{ m th}$	14-07-2023	2026-27		

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