

(Deemed University)





NAAC Accredited with A++ Grade

Department of Mechanical Engineering

Semester-Wise General Scheme Structure & Important Guidelines for Flexible Curriculum

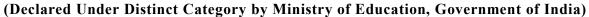
(Batch admitted in Academic Session 2025-26 onwards)

Abbreviations Used

L	Lecture
T	Tutorial
P	Practical
HSMC	Humanities and Social Sciences including Management Courses
BSC	Basic Science Courses
ESC	Engineering Science Courses
DC	Departmental Core
DE	Departmental Elective
SPC	Specialization Courses
OC	Open Category
DLC	Departmental Laboratory Courses
MOOC	Massive Open Online Course
MWS	Mandatory Workshop
SP	Semester Proficiency
SIP	Skill Internship Program
SLP	Self-learning Presentation
PDC	Professional Development Component
PBL	Project Based Learning
PC	Professional Certification
MAC	Mandatory Audit Course
NEC	Novel Engaging Course



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Department of Mechanical Engineering Scheme of Evaluation

B. Tech. I Semester (Mechanical Engineering)

(for batch admitted in academic session 2025-26)

				Ma	ximum Ma	rks Allotte	d			Cor	ıtact Ho	urs				
				Theory	Block		Practical	l Block		I	oer weel	K		36.1		D .: 6
Course Code	Category Code	Course Name	Cont	inuous Evalu	ation	Majan	Continuous Evaluation	Major	Total Marks				Total Credits	Mode of Learning	of Major	Duration of Major Evaluation
			Minor Evaluation I	Minor Evaluation II	Quiz/ Assignment	Evaluation	Lab Work & Sessional	Evaluation		L	T	P		S		
12251101	DC	Engineering Materials	25	25	20	30	-	-	100	3	-	-	3	Face to Face	MCQ	2 Hrs
12251102	ESC	Computer Programming	25	25	20	30	-	-	100	2	-	ı	2	Face to Face	MCQ	2 Hrs
12251103	DC	Manufacturing Science	25	25	20	30	-	-	100	2	1	-	3	Face to Face	MCQ	2 Hrs
12251104	DC	Basic Mechanical Engineering	25	25	20	30	-	-	100	2	1	-	3	Face to Face	MCQ	2 Hrs
12251105	ESC	Basic Electrical & Electronics Engineering	25	25	20	30	-	-	100	2	-	-	2	Face to Face	MCQ	2 Hrs
12251106	DLC	Computer Programming Lab	-	-	-	-	70	30	100	-	-	2	1	Experimental	AO	-
12251107	DLC	Electrical & Electronics Engineering Lab	-	-	-	-	70	30	100	-	-	2	1	Experimental	AO	-
12251108	SP	Semester Proficiency ^S	-	-	-	-	50	-	50	-	-	2	1	Face to Face	SO	-
12251109	PBL	Micro Project-I#	-	-	-	-	70	30	100	-	-	2	1	Experiential	SO	-
12251110	ESC	Engineering Chemistry Lab ^{ss}	-	-	-	-	70	30	100	-	-	2	1	Experimental	AO	-
NECXXXXX	NEC	Novel Engaging Course (Activity Based Learning)	-	-	-	-	50	-	50	-	1	-	1	Interactive	SO	-
		Total	125	125	100	150	380	120	1000	11	03	10	19	-	-	-
12251111			25	25	20	30	-	-	100	2	-	1	GRADE	Blended	MCQ	1.5 Hrs
12251112	MWS	Mandatory Workshop on Report Writing at Department	Level					•		•	•		GRADE	Interactive	MCQ	-
12251113	MWS	Mandatory Workshop on Indian Constitution and Cultu	ral Values at D	epartment Leve	1								GRADE	Interactive	MCQ	
	12251101 12251102 12251103 12251104 12251105 12251106 12251107 12251108 12251109 12251110 NECXXXXX	Code Code 12251101 DC 12251102 ESC 12251103 DC 12251104 DC 12251105 ESC 12251106 DLC 12251107 DLC 12251108 SP 12251109 PBL 12251110 ESC NECXXXXX NEC	Code Code Code 12251101 DC Engineering Materials 12251102 ESC Computer Programming 12251103 DC Manufacturing Science 12251104 DC Basic Mechanical Engineering 12251105 ESC Basic Electrical & Electronics Engineering 12251106 DLC Computer Programming Lab 12251107 DLC Electrical & Electronics Engineering Lab 12251108 SP Semester Proficiency S 12251109 PBL Micro Project-I# 12251110 ESC Engineering Chemistry Lab SS NECXXXXX NEC Novel Engaging Course (Activity Based Learning) Total 12251111 MAC Universal Human Values & Professional Ethics (UHVPE) 12251112 MWS Mandatory Workshop on Report Writing at Department	Code	Course Code	Course Code	Course Code	Course Code Code Code	Course Code	Course Code	Course Code	Course Code	Course Code	Course Code Category Code Code Course Name Course Name Continuous Evaluation Minor Evaluation Major Evaluation	Course Code Category Code Course Name Course Name	Course Code Category Code Continuous Evaluation Continuous Evaluation Major Eva

Induction programme of three weeks (MC): Physical activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to local Areas, Familiarization to Dept./Branch & Innovations.

Skill Internship Program (Soft Skill): Minimum 45 hours duration: To be credited in II Semester.

MCQ: Multiple Choice Question AO: Assignment + Oral PP: Pen Paper SO: Submission + Oral OB: Open Book

SS This course will be distributed in the I Year Group wise among the programmes where ever required.

^{*}Micro Project-I will be presented and evaluated through an interdisciplinary project evaluation committee.

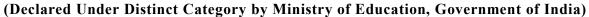
ESC	DC	DLC	NEC	SP	PBL	MAC	MWS
3	3	2	1	1	1	1	2

			Mode of Learnin	ıg					Mode of E	xamination			
The	ory	Proficiency	NEC		Lab			The	eory		La	ab	Total
Face to Face	Online	Face to Face	Interactive	Blended	Blended Experiential Experimental			AO	MCQ	ОВ	so	AO	Credits
13	-	1	1	-	1	3	6	-	7	-	3	3	19
68.42%	-	5.26%	5.26%	-	5.26%	15.79%	31.58%	-	21.05%	-	15.79%	15.79%	Credits %

Semester Proficiency- includes the weightage towards ability/ skill/ competency/knowledge level /expertise attained etc. in the semester courses.



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Department of Mechanical Engineering Scheme of Evaluation

B. Tech. II Semester (Mechanical Engineering) (for batch admitted in academic session 2025-26)

						,	Iarks Allott	ed	<i>S</i> /			tact H			venive sess		
					Theor	y Block		Practica	l Block		p	er wee	ek		M. J.	Mode	
S. No.	Course Code	Category Code	Course Name	Con	tinuous Evalu	ation	Major	Continuous Evaluation	Major	Total Marks				Total Credits	Mode of Learning	of Major	Duration of Major Evaluation
				Minor Evaluation I	Minor Evaluation II	Quiz/ Assignment	Evaluation	Lab Work & Sessional	Evaluation Evaluation		L	Т	P		20		
1.	12251201	DC	Engineering Graphics	25	25	20	30	-	-	100	2	1	-	3	Face to Face	MCQ	2 Hrs
2.	12251202	DC	Engineering Thermodynamics	25	25	20	30	-	-	100	2	1	-	3	Face to Face	MCQ	2 Hrs
3.	12251203	DC	Engineering Mechanics	25	25	20	30	-	-	100	2	1	-	3	Face to Face	MCQ	2 Hrs
4.	12251204	DC	Metal Cutting & Machine Tools	25	25	20	30	-	-	100	2	1	-	3	Face to Face	MCQ	2 Hrs
5.	12251205	BSC	Matrix, Differential Equations and Vector Calculus	25	25	20	30	-	-	100	3	-	-	3	Face to Face	MCQ	2 Hrs
6.	12251206	DLC	Engineering Graphics Lab	-	-	-	-	70	30	100	-	-	2	1	Experimental	AO	-
7.	12251207	DLC	Problem Solving through Python Programming	-	-	-	-	70	30	100	-	-	2	1	Experimental	AO	-
8.	12251208	SP	Semester Proficiency ^S	-	-	-	-	50	-	50	-	-	2	1	Face to Face	SO	-
9.	12251209	PBL	Micro Project-II#	-	-	-	-	70	30	100	-	-	2	1	Experiential	SO	-
10.	12251210	ESC	Engineering Physics Lab ^{ss}	-	-	-	-	70	30	100	-	-	2	1	Experimental	AO	-
11.	12251211	HSMC	Language Lab	-	-	-	-	70	30	100	-	-	2	1	Blended	AO	-
12.	NECXXXXX	NEC	Novel Engaging Course (Activity Based Learning)	-	-	-	-	50	-	50	-	1	-	1	Interactive	SO	-
13.	SIP1XXXX	SIP	Skill Internship Program (Soft Skill)	-	-	-	-	60	-	60	-	-	-	2**	Experiential	SO	-
			Total	125	125	100	150	510	150	1160	11	05	12	24	-	-	-
14.	12251212	MAC	Sustainability & Environmental Science	25	25	20	30	-	-	100	2	-	-	GRADE	Blended	MCQ	1.5 Hrs
15.	12251213	MWS Mandatory Workshop on Indian Knowledge System at Department Level (Duration: Two Days)												GRADE	Interactive	MCQ	-
			Summer Semester of si	v aight was	ke duration	will be cond	ucted for me	koun of I & I	Leamostar	avaminati	ion						

Summer Semester of six-eight weeks duration will be conducted for makeup of I & II semester examination.

MCQ: Multiple Choice Question

AO: Assignment + Oral

PP: Pen Paper

Semester Proficiency—includes the weightage towards ability/ skill/ competency/knowledge level/expertise attained etc. in the semester courses

SO: Submission + Oral

OB: Open Book

SS This course will be distributed in the I Year Group wise among the programmes where ever required.

** These credits will be transferred from Skill Internship Program (Soft Skill).

^{*}Micro Project-II will be presented and evaluated through an interdisciplinary project evaluation committee.

HSMC	BSC	ESC	DC	DLC	NEC	SP	SIP	PBL	MAC	MWS
1	1	1	4	2	1	1	1	1	1	1

			Mode of Learning						Mode of E	xamination			
The	eory	Proficiency	NEC		Lab			Th	eory		La	ab	Total Credits
Face to Face	Online	Face to Face	ce Interactive Blended Experiential Experimen		Experimental	PP	AO	MCQ	ОВ	so	AO	Total Credits	
15	-	1	1	1	3	3	6	-	9	-	5	4	24
62.5%	-	4.17%	4.17%	4.17%	12.5%	12.5%	50%	-	37.5%	-	20.83%	29.17%	Credits %



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Department of Mechanical Engineering Scheme of Evaluation

B. Tech. III Semester (Mechanical Engineering)

(for batch admitted in academic session 2025-26

					N	Iaximum M	arks Allot	ted			Con	tact H	ours				
					Theor	y Block		Practica	al Block		p	er wee	k		Mode	Mode	Duration
S. No.	Course Code	Category Code	Course Name	Con	tinuous Eval	uation	Major	Continuous Evaluation	Major	Total Marks				Total Credits	of Learning	of Major Evaluation	of Major Evaluation
				Minor Evaluation I	Minor Evaluation II	Quiz/ Assignment	Evaluation	Lab Work & Sessional	Evaluation Evaluation		L	Т	P			Evaluation	Evaluation
1.	12252101	BSC	Numerical Techniques	25	25	20	30	-	-	100	3	-	-	3	Face to Face	MCQ	2 Hrs
2.	12252102	DC	Data Structures	25	25	20	30	-	-	100	2	1	-	3	Face to Face	MCQ	2 Hrs
3.	12252103	DC	Fluid Mechanics	25	25	20	30	-	-	100	2	1	-	3	Face to Face	MCQ	2 Hrs
4.	12252104	DC	Mechanics of Materials	25	25	20	30	-	-	100	2	1	-	3	Face to Face	MCQ	2 Hrs
5.	12252105	DC	Industrial Engineering	25	25	20	30	-	-	100	2	1	-	3	Face to Face	MCQ	2 Hrs
6.	12252106	DLC	Fluid Mechanics Lab	-	-	-	-	70	30	100	-	-	2	1	Experimental	AO	-
7.	12252107	DLC	Mechanics of Materials Lab	-	-	-	-	70	30	100	-	-	2	1	Experimental	AO	-
8.	12252108	SP	Semester Proficiency ^S	-	-	-	-	50	-	50	-	-	2	1	Face to Face	SO	-
9.	12252109	PBL	Macro Project-I#	-	-	-	-	70	30	100	-	-	2	1	Experiential	SO	-
10.	12252110	SLP	Self-learning/Presentation ^{SSS} (SWAYAM/NPTEL/MOOC)	-	-	-	-	40	-	40	-	-	2	1	Mentoring	SO	-
11.	NECXXXXX	NEC	Novel Engaging Course (Activity Based Learning)	-	-	-	-	50	-	50	-	1	-	1	Interactive	SO	-
			Total	125	125	100	150	350	90	940	11	05	10	21	-	-	-
12.	12252111	MAC	Cyber Security	25	25	20	30	-	1	100	2	-	-	GRADE	Blended	MCQ	1.5 Hrs
13.	12252112	MWS	Mandatory Workshop on Mastering Competitive Succession	ess at Departm	nent Level		•	•	•	•				GRADE	Interactive	MCQ	-
			Skill Internshin Program	(Institute I	evel) (Qualif	ier). Minimu	m 30 hours	duration: To	he credited	in IV Sen	nester						

Skill Internship Program (Institute Level) (Qualifier): Minimum 30 hours duration: To be credited in IV Semester

Semester Proficiency—includes the weightage towards ability/ skill/ competency/knowledge level/expertise attained etc. in the semester courses

MCQ: Multiple Choice Question

AO: Assignment + Oral

PP: Pen Paper **SO:** Submission + Oral

OB: Open Book

**Macro Project-I will be presented and evaluated through an interdisciplinary project evaluation committee.

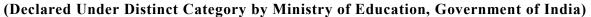
555 Compulsory registration for one online course using SWAYAM/NPTEL/ MOOC, evaluation through attendance and presentation.

BSC	DC	DLC	NEC	SP	SLP	PBL	MAC	MWS
1	4	2	1	1	1	1	1	1

			Mode	e of Learning						Mode of Ex	xamination			Total
The	ory	Proficiency	NEC	Self-Learning		Lab			Т	heory		La	ab	Credits
Face to Face	Online	Face to Face	Interactive	Mentoring	Blended	Experiential	PP	AO	MCQ	OB	SO	AO	Credits	
15	-	1	1	1	-	1	2	6		9	-	4	2	21
71.43%	-	4.76%	4.76%	4.76%	-	4.76%	28.57%	-	42.85%	•	19.05%	9.52%	Credits %	



(Deemed University)





NAAC Accredited with A++ Grade

Department of Mechanical Engineering Scheme of Evaluation

B. Tech. IV Semester (Mechanical Engineering)

(for batch admitted in academic session 2025-26)

					M	aximum Ma	arks Allott	ed			Con	tact H	ours				
					Theory	Block		Practical	Block		p	er wee	ek		36.1	Mode	Duration
S. N	Course Code	Category Code	Course Name	Cont	inuous Evalu	ation	Major	Continuous Evaluation	Major	Total Marks				Total Credits	Mode of Learning	of Major Evaluation	of Major Evaluation
				Minor Evaluation I	Minor Evaluation II	Quiz/ Assignment	Evaluation	Lab Work & Sessional	Evaluation		L	Т	P			Evaluation	Evaluation
1.	12252201	DC	Design of Machine Elements	25	25	20	30	-	-	100	2	1	-	3	Face to Face	MCQ	2 Hrs
2.	12252202	DC	Theory of Machines	25	25	20	30	-	-	100	2	1	-	3	Face to Face	MCQ	2 Hrs
3.	12252203	DC	Metrology and Measurements	25	25	20	30	-	-	100	2	1	-	3	Face to Face	MCQ	2 Hrs
4.	12252204	DC	Applied Thermodynamics	25	25	20	30	-	-	100	2	1	-	3	Face to Face	MCQ	2 Hrs
5.	12252205	DC	Advanced Production Technology	25 25 20			30	-	-	100	3	-	-	3	Face to Face	MCQ	2 Hrs
6.	12252206	DLC	Design of Machine Elements Lab				-	70	30	100	-	-	2	1	Experimental	AO	-
7.	12252207	DLC	Theory of Machines Lab	-	-	-	-	70	30	100	-	-	2	1	Experimental	AO	-
8.	12252208	DLC	Metrology and Measurements Lab	-	-	-	-	70	30	100	-	-	2	1	Experimental	AO	-
9.	12252209	SP	Semester Proficiency ^S	-	-	-	-	50	-	50	-	-	2	1	Face to Face	SO	-
10.	12252210	PBL	Macro Project-II#	-	-	-	-	70	30	100	-	-	2	1	Experiential	SO	-
11.	12252211	PC	Professional Certification	-	-	-	-	50	-	50	-	-	2	1	Blended	SO	-
12.	NECXXXXX	NEC	Novel Engaging Course (Activity Based Learning)	-	-	-	-	50	-	50	-	1	-	1	Interactive	SO	-
13.	SIP2XXXX	SIP	Skill Internship Program					60	-	60	-	-	-	2**	Experiential	SO	
			Total	125 125 100 150					120	1110	11	05	12	24	-	-	-
14.	12252212	MAC	Project Management, Economics & Financing	25 25 20 30 - -						100	2	-	-	GRADE	Blended	MCQ	1.5 Hrs
15.	12252213	MWS	Mandatory Workshop on Computer Vision at Depa	rtment Level	(Duration: Tw	o Days)								GRADE	Interactive	MCQ	-
16.	12252214	MWS	Mandatory Workshop on Life Skills at Department	y Workshop on Life Skills at Department Level (Duration: Two Days)										GRADE	Interactive	MCQ	
			Summar Samastar of si	v oight wool	re duration u	ill be conduc	tod for mal	oun of proviou	ic comoctor	ovaminat	ion						

Summer Semester of six-eight weeks duration will be conducted for makeup of previous semester examination.

Additional Course for Honours or Minor Degree: Permitted to opt for maximum two additional courses for the award of Honours or Minor Degree

Semester Proficiency—includes the weightage towards ability/ skill/ competency/knowledge level/expertise attained etc. in the semester courses

MCQ: Multiple Choice Question **AO:** Assignment + Oral **PP:** Pen Paper **SO:** Submission + Oral

[#] Macro Project-II will be presented and evaluated through an interdisciplinary project evaluation committee.

** These credits will be transferred from Skill Internship Project.

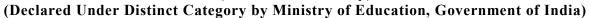
PC	DC	DLC	NEC	SP	SIP	PBL	MAC	MWS
1	5	3	1	1	1	1	1	2

			N	Tode of Learning	3					Mo	ode of Examinat	tion		
The	ory	Proficiency	NEC	Certification		Lab			T	heory		La	ıb	Total Credits
Face to Face	Online	Face to Face	Interactive	Blended	Blended	Experiential	Experimental	PP	AO	MCQ	OB	so	AO	Total Credits
15	-	1	1	1	-	3	3	6	-	9	-	6	3	24
62.5%	-	4.17%	4.17%	4.17%	-	12.5%	12.5%	25%	-	37.5%	-	25%	12.5%	Credits %

OB: Open Book



(Deemed University)





NAAC Accredited with A++ Grade

Department of Mechanical Engineering Scheme of Evaluation

B. Tech. V Semester (Mechanical Engineering)

(for batch admitted in academic session 2025-26,

						M	aximum N	Aarks Allott	ed				Cont	tact H	ours				
					Theory	Block		Practical	Block	MO	OCs		p	er wee	k		M. I.	Mode	Duration
S. No.	Course Code	Category Code	Course Name	Conti	nuous Eval	uation	Major	Continuous Evaluation	Major			Total Marks				Total Credits	Mode of Learning	of Major Evaluation	of Major Evaluation
				Minor Evaluation I	Minor Evaluation II	Quiz/ Assignment	Evaluation	Lab Work & Sessional	Evaluation	Assignment	Exam		L	Т	P				2,414444
1.	12253101	DC	Heat and Mass Transfer	25	25	20	30	-	-	-	-	100	2	1	-	3	Face to Face	MCQ	2 Hrs
2.	12253102	DC	Machine Design	25	25	20	30	-	-	-	-	100	2	1	-	3	Face to Face	MCQ	2 Hrs
3.	12253103	DC	Data Science	25	25	20	30	-	-	-	-	100	2	1	-	3	Face to Face	MCQ	2 Hrs
4.	122531XX	DE	Departmental Elective* (DE-1)	-	-	-	-	-	-	25	75	100	3	-	-	3	Online	MCQ	3 Hrs
5.	122531XX	SPC	Specialization Course (SPC-1)	25	25	20	30	-	-	-	-	100	2	1	-	3	Face to Face	MCQ	2 Hrs
6.	12253104	DLC	Heat and mass transfer Lab	-	-	-	-	70	30	-	-	100	-	-	2	1	Experimental	AO	-
7.	12253105	DLC	Data Science Lab	-	-	-	-	70	30	-	-	100	-	-	2	1	Experimental	AO	-
8.	12253106	SP	Semester Proficiency ^{\$}	-	-	-	-	50	-	-	-	50	-	-	2	1	Face to Face	SO	-
9.	12253107	PBL	Cornerstone Project	-	-	-	-	70	30	-	-	100	-	-	4	2	Experiential	SO	-
		Т	otal	100	100	80	120	260	90	25	75	850	11	04	10	20	-	-	-
10.	12253108	MAC	Supply Chain Management	25	25	20	30	-	-			100	2	-	-	GRADE	Blended	MCQ	1.5 Hrs
11.	12253109	MWS	Mandatory Workshop on Block	chain at Depa	artment Leve	el (Duration:	Two Days)									GRADE	Interactive	MCQ	-
		•	Additional Course for Ho	nours or M	inor Degre	e: Permitte	d to ont for	· maximum t	wo addition	al courses f	or the awa	rd of H	mour	s or N	1inor	Degree		•	

Additional Course for Honours or Minor Degree: Permitted to opt for maximum two additional courses for the award of Honours or Minor Degree

MCO: Multiple Choice Question **AO:** Assignment + Oral **PP:** Pen Paper **SO:** Submission + Oral

OB: Open Book

^{*} Course run through SWAYAM/NPTEL/ MOOC Learning Based Platform

DC	DE	SPC	DLC	SP	PBL	MAC	MWS
3	1	1	2	1	1	1	1

		Mode	of Learning					Mode of I	Examination			
The	eory	Proficiency		Lab			Theor	ry		1	Lab	Total Credits
Face to Face	Online	Face to Face	Blended	Experiential	Experimental	PP	AO	MCQ	ОВ	so	AO	Total Credits
12	3	1	-	2	2	6	-	9	-	3	2	20
60%	15%	5%	-	10%	10%	30%	-	45%	-	15%	10%	Credits %

Semester Proficiency—includes the weightage towards ability/ skill/ competency/knowledge level/expertise attained etc. in the semester courses



(Deemed University)





NAAC Accredited with A++ Grade

Department of Mechanical Engineering Scheme of Evaluation

B. Tech. VI Semester (Mechanical Engineering)

(for batch admitted in academic session 2025-26)

Course Code	Category Code			Theory	D1 1													
				THEOLY.	Block		Practical	Block	MOC	OCs		I	er wee	ek			Mode	Duration
		Course Name	Cont	inuous Evalu	ation	Major	Continuous Evaluation				Total Marks				Total Credits	Mode of Learning	of Major	of Major
			Minor Evaluation I	Minor Evaluation II	Quiz/ Assignment	Evaluation	Lab Work & Sessional	wiajoi	Assignment	Exam		L	T	P		Learning	Evaluation	Evaluation
2253201	DC	Refrigeration and Air-Conditioning	25	25	20	30	-	-	-	-	100	2	1	-	3	Face to Face	MCQ	2 Hrs
2253202	DC	Artificial Intelligence & Machine Learning	25	25	20	30	-	-	-	-	100	2	1	-	3	Face to Face	MCQ	2 Hrs
22532XX	DE	Departmental Elective* (DE-2)	-	-	-	-	-	-	25	75	100	3	-	-	3	Online	MCQ	3 Hrs
22532XX	OC	Open Category Course (OC-1)	25	25	20	30	-	-	-	-	100	2	1	-	3	Face to Face	MCQ	2 Hrs
22532XX	SPC	Specialization Course (SPC-2)	25	25	20	30	-	-	-	1	100	3	-	-	3	Face to Face	mCQ	2 Hrs
2253203	DLC	Refrigeration and Air- Conditioning Lab	-	-	-	-	70	30	-		100	-	-	2	1	Experimental	AO	-
2253204	DLC	Artificial Intelligence & Machine Learning Lab	-	-	-	-	70	30	-		100	-	-	2	1	Experimental	so	-
2253205	SP	Semester Proficiency ^{\$}	-	-	-	-	50	-	-	-	50	-	-	2	1	Face to Face	SO	-
2253206	PBL	Capstone Project	-	-	-	-	70	30	-	-	100	-	-	4	2	Experiential	SO	-
Total		otal	100	100	80	120	260	90	25	75	850	12	03	10	20	-	-	-
	MAC	Disaster Management	25	25	20	30	-	-	-	-	100	2	-	-	GRADE	Blended	MCQ	1.5 Hrs
2253207	2253208 MWS Mandatory Workshop on Intellectual Property Rights at Department Level (Duration: Two Days)														CDADE	Interactive	MCO	_
22	53204 53205 53206 53207	53204 DLC 53205 SP 53206 PBL T 53207 MAC	53204 DLC Conditioning Lab 53204 DLC Artificial Intelligence & Machine Learning Lab 53205 SP Semester Proficiency 53206 PBL Capstone Project Total 53207 MAC Disaster Management	Conditioning Lab	DLC Conditioning Lab - - -	DLC Conditioning Lab -	DLC Conditioning Lab - - - -	DLC Conditioning Lab - - - - -	DLC Conditioning Lab - - - - - - - - -	DLC Conditioning Lab - - - - - - - - -	DLC Conditioning Lab - - - - - - - - -	DLC Conditioning Lab - - - - - - 100	DLC Conditioning Lab - - - - - - - - -	DLC Conditioning Lab	DLC Conditioning Lab	DLC Conditioning Lab	DLC Conditioning Lab - - - - - - - - -	DLC Conditioning Lab - - - - - - - - -

Skill Enhancement Program/Research Internship/On Job Training for Four weeks duration

Summer Semester of six-eight weeks duration will be conducted for makeup of previous semester examination.

Additional Course for Honours or Minor Degree: Permitted to opt for maximum two additional courses for the award of Honours or Minor Degree

Semester Proficiency—includes the weightage towards ability/ skill/ competency/knowledge level/expertise attained etc. in the semester courses

MCQ: Multiple Choice Question * Course run through SWAYAM/NPTEL/ MOOC Learning Based Platform.

AO: Assignment + Oral PP: Pen Paper **SO:** Submission + Oral OB: Open Book

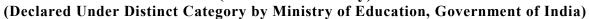
OC DLC SP **PBL** MAC MWS DC DE SPC

			Mo	de of Learn	ing				Mode of	Examination			
	Th	eory	Proficiency		Lab			The	eory		Lab)	Total
	Face to Face	Online	Face to Face	Blended	Experiential	Experimental	PP	AO	MCQ	ОВ	so	AO	Credits
Ì	12	3	1	-	2	2	6	-	9	-	4	1	20
	60%	15%	5%	-	10%	10%	30%	-	45%	-	20%	5%	Credits %
				I						<u> </u>			,,,

	Open Cat	egory Course (OC-1)
S.No.	Subject Code	Subject Name
1		Smart Manufacturing
2		Statistical Quality control
3		Basic Mechanical Engineering



(Deemed University)





NAAC Accredited with A++ Grade

Department of Mechanical Engineering Scheme of Evaluation

B. Tech. VII Semester (Mechanical Engineering)

(for batch admitted in academic session 2025-26)

							Ma	ximum Ma	rks Allotted	l					tact H					
	İ					Theory	Block		Practical	Block	MO(OCs		p	er wee	ek			Mode	Duration
5	S. No.	Course Code	Category Code	Course Name	Cont	inuous Evalu	ation	Major	Continuous Evaluation	Major			Total Marks				Total Credits	Mode of Learning	of Major	of Major
					Minor Evaluation I	Minor Evaluation II	Quiz/ Assignment	Evaluation	Lab Work & & Sessional	Evaluation	Assignment	Exam		L	T	P		g	Evaluation	Evaluation
	1.	122541XX	DE	Departmental Elective [#] (DE-3)	25	25	20	30	-	-	-	-	100	2	1	-	3	Blended	MCQ	2 Hrs
	2.	122541XX	DE	Departmental Elective* (DE-4)	-	-	-	-	-	-	25	75	100	3	-	-	3	Online	MCQ	3 Hrs
	3.	122541XX	OC	Open Category Course * (OC-2)	-	-	-	-	-	-	25	75	100	3	-	-	3	Online	MCQ	3 Hrs
	4.	122541XX	SPC	Specialization Course # (SPC-3)	25	25	20	30	-	-	-	-	100	2	1	-	3	Blended	MCQ	2 Hrs
	5.	12254101 SEP Specialization Course (SPC-3) Skill Enhancement Program/Research Internship/ On Job Training			-	-	-	-	-	50	-	-	50	-	-	2	1**	Experiential	so	-
	6.	12254102	DLC	Creative Problem Solving	-	-	-	-	-	50	-	-	100	-	-	2	1	Experiential	SO	-
			,	Total	50	50	40	60	-	100	50	150	500	10	02	04	14	-	-	-
Ī				Additional Course	for Honours	or Minor Degr	ee: Permitte	d to opt for m	aximum two ad	ditional cou	rses for the a	ward of H	onours o	r Min	or Deg	ree				

MCQ: Multiple Choice Question AO: Assignment + Oral PP: Pen Paper SO: Submission + Oral

OB: Open Book

DE	SPC	OC	DLC	SP	MWS
2	1	1	1	1	1

		Mode	of Learning				Mo	de of Examir	ation		
The	ory	Proficiency		Lab			Theo	ry		Lab	Total Credits
Face to Face	Online	Face to Face	Blended	Experiential	Experimental	PP	AO	MCQ	OB	so	Total Credits
9	3	1	-	1	-	6	-	6	-	2	14
64.29%	21.43%	5%	_	7.14%	-	42.86%	-	42.86%	-	14.29%	Credits %

S.No.	DE-3 (Code)	DE-3 Subject Name	DE-4	DE-4 Subject	OC-2 (Code)	OC-2 Subject Name
			(Code)*	Name*		
1		Turbo Machinery				Solar Energy
2		Dynamics of Machines				Process Planning and Cost Estimation
3		Operations Research				Hybrid Vehicles
		Machinery Fault Diagnosis				

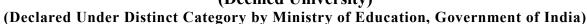
^{*}Course run through SWAYAM/NPTEL/ MOOC Learning Based Platform

^{**} These credits will be transferred from Skill Enhancement Program/Research Internship/On Job Training

^{*} Course run through MITS-DU MOOCs



(Deemed University)





NAAC Accredited with A++ Grade

Department of Mechanical Engineering Scheme of Evaluation

B. Tech. VIII Semester (Mechanical Engineering)

(for batch admitted in academic session 2025-26)

							Max	imum Ma	rks Allotte	ed				Con	ıtact H	Iours				
			.			Theory	Block		Practica	l Block	MOO	Cs	m	F	er we	ek		Mode	Mode	Duration
S	No.	Course Code	Category Code	Course Name	Conti	nuous Eval	uation						Total Marks				Total Credits	of	of Major	of Major
					Minor Evaluation I	Minor Evaluation II	Quiz/ Assignment	Evaluation	Continuous Evaluation		Assignment	Exam		L	T	P		Learning	Evaluation	Evaluation
	1.	122542XX	DE	Departmental Elective* (DE-5)	-	-	-	-	-	-	25	75	100	3	-	-	3	Online	MCQ	3 Hrs
	2.	122542XX	OC	Open Category Course* (OC-3)	-	-	-	-	-	-	25	75	100	3	-	-	3	Online	MCQ	3 Hrs
	3.	12254201	PBL	Industry Internship/ Research Internship/ Innovation & Start-up	-	-	-	-	280	120	-	-	400	-	1	20	10	Experiential	SO	-
	4.	12254202	PDC	Professional Development##	-	-	-	-	-	50	-	-	50	-	-	4	2	Interactive	SO	-
			Total		-	-	-	-	280	170	50	150	650	06	-	24	18	-	-	-

Summer Semester of six-eight weeks duration will be conducted to complete any backlog courses.

Additional Course for Honours or Minor Degree: Permitted to opt for maximum two additional courses for the award of Honours or Minor Degree

MCQ: Multiple Choice Question **AO:** Assignment + Oral

PP: Pen Paper

SO: Submission + Oral

OB: Open Book

*Course run through SWAYAM/NPTEL/ MOOC Learning Based Platform

**Evaluation will be based on participation/laurels brought by the students to the institution in national/state level technical and other events during the complete tenure of the UG programme (participation in professional chapter activities, club activities, cultural events, sports, personality development activities, collaborative events, MOOCs, technical events, institute/department committees, etc.)

DE OC		PDC	PBL	
1	1	1	1	

	Mode of Learning					Mode of Examination					
Theory		Professional Development	Lab			Theory			Lab	Total Credits	
Face to Face	Online	Interactive	Blended	Experiential	Experimental	PP	AO	MCQ	OB	so	
-	6	2	-	10	-	-	-	6	-	12	18
-	33.33%	11.11%	-	55.56%	-	-	-	33.33%	-	66.67%	Credits %

S.No.	DE-5 (Code) *	DE-5 Subject Name [*]	OC-3 (Code) *	OC-3 Subject Name [*]		
1						
2						
3						