

ME - B.Tech. in Mechanical Engineering 2026 Batch

Semester 1

S.No	Course No	Course Name	L	T	E	P	O	C	Ca t
1	ME1480	Engineering Drawing	1	0	0	3	3	7	E
2	CY1001	Chemistry I: Structure, Bonding & Reactivity	3	1	0	0	6	10	S
3	ME1401	Introduction to Computing for Mechanical Engineers	2	0	2	0	8	12	C
4	ME1100	Thermodynamics	3	1	0	0	6	10	P
5	CY1002	Chemistry Lab I	0	0	0	3	0	3	S
6	GN1101	Life Skills I	0	0	0	0	4	4	G
7		NCC (NC1011)/ NSS (NS1031)/ NSO (NS1021)/NCA(NC1021)	0	0	0	0	2	2	G
8	ID1300	Recreation Course	0	0	0	0	2	2	G
9	WS1301	Workshop I	0	0	0	3	0	3	P
	GN1001	Posh Training I	3	0	0	0	0	0	S
		Credits for semester 1						53	

Semester 2

S.No	Course No	Course Name	L	T	E	P	O	C	Ca t
1	MA1101*	Calculus	3	1	0	0	6	10	S
2	PH1010	Physics I	3	1	0	0	6	10	S
3	PH1030	Physics Laboratory I	0	0	0	3	1	4	S
4	AM1100	Engineering Mechanics	3	1	0	0	6	10	E
5	HSE1	Humanities Elective 1	3	0	0	0	6	9	H
6	ID1200	Ecology and Environment	2	0	0	0	0	2	G
7	GN1102	Life Skills II	0	0	0	0	2	2	G
8		NCC (NC2011)/ NSS (NS2031)/ NSO (NS2021)/NCA(NC2021)	0	0	0	0	3	0	G
9	HS3050	Professional ethics	0	0	0	0	2	2	G
10	ID1300	Recreation Course	0	0	0	0	2	2	G
11	WS1302	Workshop II	0	0	0	3	0	3	P
		Credits for semester 2						56	

Semester 3

S.No	Course No	Course Name	L	T	E	P	O	C	Ca t
1	AM2200	Strength of materials	3	1	0	0	6	10	P
2	AM2530	Foundations of fluid mechanics	3	1	0	0	6	10	P
3	AM2540	Applied mechanics/ Fluid mechanics lab	0	0	0	3	0	3	P
4	EE1100	Basic electrical engineering	3	1	0	0	6	10	E
5	MA2102	Differential equations	3	0	0	0	6	9	S
6	ME2201	Kinematics and dynamics of machinery	3	1	0	0	6	10	P
7	MXXXX	Entrepreneurship	3	0	0	0	6	9	M
		Credits for semester 3						61	

Semester 4

S.No	Course No	Course Name	L	T	E	P	O	C	Ca t
1	MA2101/2103/2104	Mathematics elective	3	0	0	0	6	9	S
2	ME2102	Foundations of Thermal Engineering-1	2	1	0	0	4	7	P
3	ME2200	Materials and design	3	1	0	0	6	10	P
4	ME2302	Manufacturing Technology-I	3	1	0	1	6	11	P
5	ME2400	Measurements and instrumentation	3	0	0	2	6	11	P
6	ME2482	Mechanical engineering lab 1	0	0	0	3	0	3	P
7	BT1010	Life sciences	3	0	0	0	6	9	S
		Credits for semester 4						60	

Semester 5

S.No	Course No	Course Name	L	T	E	P	O	C	Ca t
1	ME3101	Heat transfer	3	1	0	0	6	10	P
2	ME3105	Foundations of Thermal Engg-2	2	1	0	0	4	7	P
3	ME3203	Introduction to Machine Design	2	1	1	0	4	8	P
4	ME3305	Manufacturing Technology-II	3	1	0	1	6	11	P
5	ME3482	Mechanical engineering lab 2	0	0	0	3	0	3	P
6	ME3283	Computer Aided Machine Drawing	1	0	0	2	3	6	P
7	FE1	Free elective 1	3	0	0	0	6	9	E
8	GN1002	POSH Training-II	3	0	0	0	0	0	S
		Credits for semester 5						54	
		Honours Elective 1	3	0	0	0	6	9	P
		Credits for Semester 5 for Honours						63	

Semester 6

S.No	Course No	Course Name	L	T	E	P	O	C	Ca t
1	ME	Professional elective 1	0	0	0	3	0	9	P
2		Professional elective 2	3	0	0	0	6	9	P
3	HS	Humanities elective 2	3	0	0	0	6	9	H
4		Free elective 2	3	0	0	0	6	9	
5		Free elective 3	3	0	0	0	6	9	
		Credits for semester 6						45	
		Honors elective 2	3	0	0	0	6	9	
		Credits for semester 6 for honors						54	

Summer

S.No	Course No	Course Name	L	T	E	P	O	C	Ca t
1	ME3500	Summer Internship	0	0	0	0	20	0	

Semester 7

S.No	Course No	Course Name	L	T	E	P	O	C	Ca t
1		Professional elective 3/ Free elective 4	3	0	0	0	6	9	
2		Professional elective 4/ Free elective 5	3	0	0	0	6	9	
3		Professional elective 5/ Free elective 6	3	0	0	0	6	9	
4	HS	Humanities elective 3	3	0	0	0	6	9	H
5		Credits for semester 7						36	
		Honors elective 3	3	0	0	0	6	9	
		Credits for semester 7 for honors						45	

Semester 8

S.No	Course No	Course Name	L	T	E	P	O	C	Ca t
1		Professional elective 6/ Free elective 4	3	0	0	0	6	9	
2		Professional elective 7/ Free elective 5	3	0	0	0	6	9	
3		Professional elective 8/ Free elective 6	3	0	0	0	6	9	
4		Professional elective 6	3	0	0	0	6	9	
		Credits for semester 8 for honors						36	

Note:

- (1) Project in other department can be taken only in lieu of Free Electives
- (2) Project in ME Department can be taken in lieu of free or departmental electives
- (3) It may be noted that any combination of free electives should lead to 72 credits and not necessarily 8 courses
- (4) Students pursuing B.Tech (Honors) in ME must complete ME 4490 Project (B.Tech Project) with a guide from the ME department (P Category requirement)
- (5) For students who do not opt for B.Tech project the number of Professional Category Electives will be 4 out of 6 ME courses
- (6) For students who do B.Tech Project in ME the number of Professional Category Electives is at least one out of three ME courses.
- (7) For doing a course under professional category in a sister department such as AM/AE/ED/CH due to its non-availability in ME, the faculty advisor/HoD can approve the total of three electives outside the departments.

Semester	I	II	III	IV	V	VI	VII	VIII	Total
Credits	53	56	61	60	54	45	36	36	401

***Please note that the indicated credits are only for core program.**

Category	Engineering (E)	Professional (P) Core+Elective	Humanities (H)	Science (S)	General (G)	Management (M)	Computing (C)	Un-allotted Credits	Total
Credits	27	190	27	64	18	9	12	54	401

BTech (honours): (Total credit requirement: $401 + 27 = 428$)

- **Eligibility:** minimum CGPA of 8.5 at the end of 5th sem without U or W grade in any course. They need to maintain these conditions until graduation.
- **Extra credit requirement:** Additional 27 credits to be taken in VI-VIII from Mechanical department (or equivalent)
- BTP in ME Department Compulsory for Honours.

Exit Option for B.Tech : Requirements of Core + Elective credits for each category

	Total Credits	S+E+C credits	P Credits
3-year Engg. ExitCredits	240	67	NA*

*ME Department provided B.Sc in General Engineering as the only exit option.