



CIRCULAR

Ref. No.: GU/Acad –PG/BoS -NEP/2024/507 dated 12.09.2024

GU/Acad –PG/BoS -NEP/2025/257 dated 21.07.2025

In continuation to the above referred Circulars, the syllabus for Semester V & VI of the **Bachelor of Engineering in Mechanical Engineering** Programme as approved by the Academic Council in its meeting held on 20th February 2026 is attached.

The Dean, Faculty of Engineering and Principals of affiliated Colleges offering the **Bachelor of Engineering in Mechanical Engineering** Programme are requested to take note of the above and bring the contents of the Circular to the notice of all concerned.

ASHWIN V LAWANDE
Digitally signed by
ASHWIN V LAWANDE
Date: 2026.07.08
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(Ashwin V. Lawande)
Deputy Registrar – Academic

To,

1. The Dean, Faculty of Engineering, Goa University.
2. The Principals of Affiliated Engineering Colleges.

Copy to:

1. Chairperson, BoS in Mechanical Engineering, Goa University.
2. Controller of Examinations, Goa University.
3. Assistant Registrar Examinations (Technical and Allied), Goa University
4. Directorate of Internal Quality Assurance, Goa University for uploading the Syllabus on the University website.

MECHANICAL ENGINEERING SEMESTER V & VI SCHEME AY 2024-25

SEMESTER - V							
Sr. No.	Course Category	Course Code	Title of the Course	L	T	P	TCr
1	Major	MEC-300	Dynamics of Machines	3	0	0	3
		MEC-301	Dynamics of Machines Lab	0	0	1	1
2	Major	MEC-302	Material Science and Metallurgy	3	0	0	3
		MEC-303	Material Science and Metallurgy Lab	0	0	1	1
3	Major	MEC-304	Manufacturing Technology - II	3	0	0	3
		MEC-305	Manufacturing Technology - II Lab	0	0	1	1
4	Major	MEC-306	Engineering Statistics	2	0	0	2
		MEC-307	Engineering Statistics Lab	0	0	2	2
5	Prof. Elective	MEC-321	Composite Materials	3	0	0	3
		MEC-322	Composite Materials Lab	0	0	1	1
		OR					
		MEC-323	Mechatronics	3	0	0	3
		MEC-324	Mechatronics Lab	0	0	1	1
		OR					
		MEC-325	Power Plant Engineering	3	0	0	3
		MEC-326	Power Plant Engineering Lab.	0	0	1	1
		TOTAL		14	0	6	20

SEMESTER - VI							
Sr. No.	Course Category	Course Code	Title of the Course	L	T	P	TCr
1	Major	MEC-308	Heat and Mass Transfer	3	0	0	3
		MEC-309	Heat and Mass Transfer Lab	0	0	1	1
2	Major	MEC-310	Machine Design	3	0	0	3
		MEC-311	Machine Design Lab	0	0	1	1
3	Major	MEC-312	Digital Manufacturing	2	0	0	2
		MEC-313	Digital Manufacturing Lab	0	0	2	2
4	Major	MEC-314	Industrial Engineering and Operations Management	3	0	0	3
		MEC-315	Industrial Engineering and Operations Management Lab	0	0	1	1
5	Prof. Elective	MEC-327	Automobile Engineering and Electric Vehicles	3	0	0	3
		MEC-328	Automobile Engineering and Electric Vehicles Lab	0	0	1	1
		OR					
		MEC-329	Mechanical Vibration & Control Systems	3	0	0	3
		MEC-330	Mechanical Vibration & Control Systems Lab	0	0	1	1
		OR					
		MEC-331	Fluid Power Control	3	0	0	3
		MEC-332	Fluid Power Control Lab	0	0	1	1
TOTAL				14	0	6	20