



SARDAR PATEL UNIVERSITY, BALAGHAT

School of Engineering and Technology

Scheme of Examination

Course: B.Tech. Branch: Mechanical Semester: VII Sem

Academic Session: 2024-25

w.e.f. : _01-07-2025

S. No.	Sub code	Subject Name	Maximum Marks Allotted				Total	Contact Hrs per week			Total Credit
			Theory		Practical			L	T	P	
			CAT II	CAT I	End	Lab work					
1	BME071	Heat & Mass Transfer	70	30	0	0	100	3	1	0	4
2	BME072	Mechanical Estimation and Costing	70	30	0	0	100	3	1	0	4
3	BME073	Operation Research	70	30	0	0	100	3	1	0	4
4	BME074	Elective-III	70	30	0	0	100	3	1	0	4
5	BME075	Elective-IV	70	30	0	0	100	3	0	0	3
6	BME071P	Heat & Mass Transfer Lab	0	0	20	30	50	0	0	2	1
7	BME073P	Operations Research Lab	0	0	20	30	50	0	0	2	1
8	BME076P	Major Project-I	0	0	40	60	100	0	0	4	2
9	BME077P	MATLAB Lab	0	0	20	30	50	0	0	2	1
10	BME079P	Assessment of Internship 2	0	0	20	30	50	0	0	2	1
Total			350	150	120	180	800	15	4	12	25

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit

Theory Marks	500
Practical Marks	300
Total	800

Theory Credits	19
Practical Credits	6
Total	25

ELECTIVE- III (BME074)	ELECTIVE- IV (BME075)
BME0741- Energy System and Technologies	BME0751- Smart Material
BME0742- Maintenance Engineering	BME0752- Energy Conservation and Audit
BME0743- Mechanical Vibration & Noise Engineering	BME0753- Reliability Engineering and TPM

Note: Two subjects out of five must be learned through MOOCs/Swayam/NPTEL.