

An under graduate certificate in mechanical engineering will be awarded, if a student wishes to exit before completion of the fourth year degree programme i.e., B.Tech. in mechanical engineering.

Exit Criteria after First Year of Mechanical Engineering

Name of the Degree/Certificate: Undergraduate Certificate in Mechanical Engineering

Total Credits to be earned: 42+ 4 + 6 = 52 credits

Criteria:

1. Student should clear all the subjects of 1st year and should earn 42 credits.
2. Student should also complete minimum 8 weeks Industrial Internship and should earn 6 credits.
3. Student should also clear one skilled base course offered by the department and should earn 4 credits.

Name of the skilled base course:

Sr. No.	Subject Code	Subject Name	Teaching Scheme (In Hours)			Total Credit	Total Hour	Evaluation Scheme (Marks)		
			L	T	P			CCE	SEE	Total
1	BTME13207	Industrial Safety and Equipment Handling	4	0	0	4	4	50	50	100
2	BTME13208	Basic HVAC & Refrigeration Maintenance	3	0	0	3	3	50	50	100
3	BTME13209	Basic HVAC & Refrigeration Maintenance Lab	0	0	2	1	2	25	25	50
4	BTME13210	Hand Tools and Power Tools Mastery	3	0	0	3	3	50	50	100
5	BTME13211	Hand Tools and Power Tools Mastery Lab	0	0	2	1	2	25	25	50
6	BTME13212	Computer-Aided Drafting	3	0	0	3	3	50	50	100
7	BTME13213	Computer-Aided Drafting Lab	0	0	2	1	2	25	25	50
8	BTME16214	Internship/Training/Project	--	--	--	6	--	50	50	100



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Mechanical Engineering Department
Bachelor of Technology



Exit Criteria after Second Year of Mechanical Engineering

Name of the Degree/Certificate: Undergraduate Diploma in Mechanical Engineering

Total Credits to be earned: $87 + 4 + 6 = 97$ credits

Criteria:

1. Student should clear all the subjects of 1st year & 2nd year and should earn 87 credits.
2. Student should also complete minimum 8 weeks Industrial Internship and should earn 6 credits.
3. Student should also clear one skilled base course offered by the department and should earn 4 credits.

Name of the skilled base course:

Sr. No.	Subject Code	Subject Name	Teaching Scheme (In Hours)			Total Credit	Total Hour	Evaluation Scheme (Marks)		
			L	T	P			CCE	SEE	Total
1	BTME13410	Plant and Machinery Maintenance	4	0	0	4	4	50	50	100
2	BTME13411	Product Development using Manufacturing Processes	3	0	0	3	3	50	50	100
3	BTME13412	Product Development using Manufacturing Processes Lab	0	0	2	1	2	25	25	50
4	BTME13413	Computer Aided Design/Computer Aided Manufacturing	3	0	0	3	3	50	50	100
5	BTME13414	Computer Aided Design/Computer Aided Manufacturing Lab	0	0	2	1	2	25	25	50
6	BTME13415	Vehicle Maintenance, Safety, and Laws	4	0	0	4	4	50	50	100
7	BTME16416	Internship/Training/Project	--	--	--	6	--	50	50	100





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Exit Criteria after Third Year of Mechanical Engineering

Name of the Degree/Certificate: Bachelor of Vocational in Mechanical Engineering (B.Voc.)

Total Credits to be earned: 131 + 4 + 6 = 141 credits

Criteria:

1. Student should clear all the subjects of 1st, 2nd & 3rd year and should earn 131 credits.
2. Student should also complete minimum 8 weeks Industrial Internship and should earn 6 credits.
3. Student should also clear one skilled base course offered by the department and should earn 4 credits.

Name of the skilled base course:

Sr. No.	Subject Code	Subject Name	Teaching Scheme (In Hours)			Total Credit	Total Hour	Evaluation Scheme (Marks)		
			L	T	P			CCE	SEE	Total
1	BTME13605	CNC Machine Programming	3	0	0	3	3	50	50	100
2	BTME13606	CNC Machine Programming Lab	0	0	2	1	2	25	25	50
3	BTME13607	Product Design & Prototyping	4	0	0	4	4	50	50	100
4	BTME13608	Industrial Engineering	4	0	0	4	4	50	50	100
5	BTME13609	Inspection and Quality Control	4	0	0	4	4	50	50	100
6	BTME13610	Energy Audit and Management	4	0	0	4	4	50	50	100
7	BTME16611	Internship/Training/Project	--	--	--	6	--	50	50	100

