

10 Steps for B.Tech & M.Tech Mechanical Engineering Course Enhancement in 2021

01	FACULTY	<ul style="list-style-type: none"> • Highly skilled faculty with over 10 years of teaching experience in the domain • Alumni of some reputed institutes like the University of Michigan, USA, Brunel University UK, NIT Rourkela, IIT Bombay, NIT Suratkal, Anna University, etc.
02	LABORATORIES	<ul style="list-style-type: none"> • State-of-the-art laboratories with high-grade equipment and ISO certifications
03	PROJECTS	<ul style="list-style-type: none"> • Three-phase project scrutiny for enhancing the quality of the project. • Orientation sessions from industry experts to understand the latest trends in the industry including industry-relevant project topics & explore the possibility of project fundings. • Project exhibitions to demonstrate the student's skills • Research publication writing support to publish papers in peer-reviewed journals. • JU Incubators to support start-ups for remarkable projects which can be prototyped and marketed.
04	FINISHING SCHOOL	<ul style="list-style-type: none"> • In conjunction with IMTMA (Indian Machine Tool Manufacturers Association) department extends finishing school program for final year students making the students industry ready and equips them with the knowledge of the latest technologies in the field of manufacturing. • The course is well recognized in the industry and the trainees of this course have been given preference during placements.

05	STUDENT CLUBS	<p>The clubs in the department give the students a chance to apply classroom learning in the outside world. This helps in gaining invaluable leadership as well as life skills.</p> <ul style="list-style-type: none"> • SAE club – Helps students acquire knowledge on mobility technology and participate in many events in India and abroad. • 3D Tech hub - 3-D Printing Club provides students with the means and opportunity to construct and work with open-source 3-D printers and projects associated with 3-D printers. • Yantrik Club – Helping students in building design skills with hands-on experience.
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06	VALUE ADDED PROGRAMS	Semester	Program
		III Semester	Design Software Tool 1 (Unigraphics / Catia)
		IV Semester	Design Software Tool 2 (Crio / Pro E)
		Vth Semester	Analysis Software (with options in thermal , design & Manufacturing Viz, Ansys, Nastran Patran, Procast, Star CCM +)
		VIth Semester	Soft skills training for placements

07	SPECIALIZATION DOMAINS	<ul style="list-style-type: none"> • Choice Based Credit System leading to specializations in <ul style="list-style-type: none"> - 3D Printing - Mechatronics/ Smart Manufacturing
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08	TOYOTA – COE	<ul style="list-style-type: none"> • Toyota Centre of excellence - The concept of establishing the centers at the University is in tune with Toyota's concept of enhancing skills, encourage entrepreneurs, and providing a well-trained, competent workforce for the automotive industry. • Through this skill initiative, the department also provides expert trainers, facilities, and equipment.
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09	INDUSTRY VISITS	<ul style="list-style-type: none">• Industry visits to hydel power plants, thermal power plants, steel industries, casting industries, automation industries are a part of the course in Mechanical Engineering at the University.• These visits offer practical exposure to industry operation standards.
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10	INDUSTRY MAPPED CURRICULAM	<ul style="list-style-type: none">• The syllabus is designed by seeking inputs from industry & academic experts to map the diverse functions and the quality of human assets needed to deliver a particular function.
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