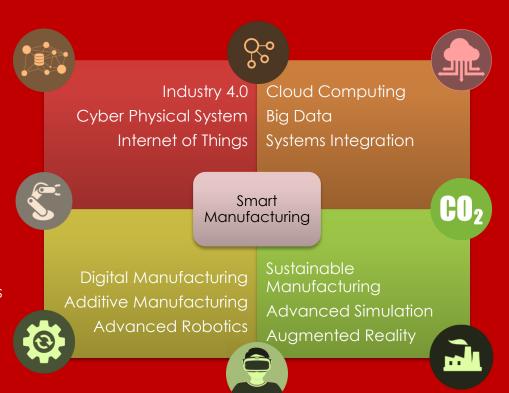
B.TECH - MECHANICAL (SMART MANUFACTURING)

A New Undergraduate Program from 2016 for Next Generation Industries

Smart Manufacturing

The 21st century manufacturing facilities have ushered a new wave of manufacturing with an amalgamation of technologies from advanced information technology to fully integrated production systems. With Smart Manufacturing or Industry 4.0, manufacturers are moving towards a new level of interconnected and intelligent manufacturing system which incorporates the latest advances in sensors, robotics, big data, and controllers.

To keep pace with the evolution of these "smart" factories requires highly skilled and nimble engineers to manage the increasing complexity and shorter mind-to-market product cycles. Future manufacturing engineers need to have basic knowledge on IT. Strong problem-solving skills can equate to the ability to autonomously adjust robots and production systems real-time.









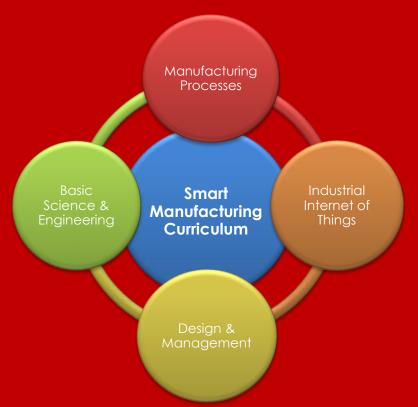


About the Program

B.Tech. Mechanical (Smart Manufacturing) program has adopted a multi-faceted approach to manufacturing, education by giving equal importance to basic sciences & engineering courses, unit manufacturing processes, automation, assembly, electronic manufacturing, virtual manufacturing, and information systems technology.

Students will be trained in manufacturing processes, manufacturing systems, systems engineering, IT, Networks, and basic shop floor communications. Experiential learning approach will be followed and students will be gaining hands-on experience in many spheres of technology related to smart manufacturing.

Students will also undergo internships for five months duration and will be exposed to real world challenges of the present day industry. The students will have an option to serve in smart factories of automobile, defense, space and consumer goods manufacturing industries.





About IIITDM Kancheepuram

Indian Institute of Information Technology Design and Manufacturing Kancheepuram (IIITDM Kancheepuram) is an Institute of National Importance established in 2007 by the Ministry of Human Resource Development, Government of India to pursue design and manufacturing oriented engineering education and research and to promote the competitive advantage of Indian products in global markets. IIITDM Kancheepuram functions in its modern campus located at outskirts of Chennai.





"The Design and Manufacturing Centric Engineering programs offered at IIITDM Kancheepuram are designed to meet the demands of next generation industries. Our graduands are capable of designing and making smart products needed for the Society"

Prof Gnanamoorthy
Director



Program Structure

Color

Codes

Basic Sciences

Design

B Tech - Mechanical (Smart Manufacturing)

	1			Earth, Envir. & Design	English	nglish Computation Engineering			Engineering Mechanics		Engineering Graphics	Engineering Skills	
Semesters	2	Differential Equations	Basic Electrical & Electronics Engg	Design History	Prof. Ethics	Science 8 Engg of Materials	Fle	Engineering Electro Magnetics		Industrial Design Sketching Realizat			
	က	Probability & Statistics	Thermal Concepts for Manufacturing	Engg Econo- mics		Manufacturing Processes - I			Manufa		ction Drawing nufacturability Analysis	acturability Electrical Drives	
	4	Mathematics Elective	Operations & Manufactu Supply Chain Management Processes				Machine to Machine Communications		Sensors & Controls		Expert Lecture		
	5	Entrepre- neurship & Design Managt Concepts		Manufacturing Systems Robotics & A		obotics & Aut	tomation		mbedded Systems		Inspection & t Validation	Expert Lecture	
	9	Elective – I	Elective - II Operations Research			Special Manufacturing Processes Processes				Computer Aided Design and Manufacturing			
	7	Free Elective-I	Data Analytics	Desi	sign and Manufacturing Project			Internship (5 Months)					
	8	Elective – III	Free Elective-II	Manage- ment Elective	nent Project								

Basic

Engineering

ICT Courses

Manufacturing

Humanities &

Elective

Courses

Border

Lines

Theory

Courses

Theory & Practice

Courses

