

Syllabus of Manufacturing Science & Engineering.

Subjects in 1st year are common to all branches.

THEORY	SESSIONALS
Mathematics-I	Engineering Drawing-I
Physics-I	'C' Programming Lab
Chemistry-I	Workshop Practice-I
Mechanics-I	Physics Laboratory
Basic Electrical Engineering	Chemistry Laboratory
Communicative English	Communication Practice Laboratory-II
Thermodynamics	Engineering Drawing-II
Basic Electronic Engineering	Data Structure in 'C' Laboratory
Programming in 'C'	Workshop Practice-II
Mathematics-II	Communication Practice Laboratory-II
Business Communication In English	
Data Structure Using 'C'	

3rd Semester

THEORY	SESSIONALS
Mathematics-III	Basic Electrical Engineering Laboratory
Fluid Mechanics & Hydraulic Machines	Object Oriented Programming Laboratory
Physics-II	Fluid Flow Lab.
Machine Dynamics	Workshop
Object Oriented Programming Using C++	
Organizational Behaviour	

4th Semester

THEORY	SESSIONALS
Mathematics-IV	Basic Electronics Laboratory
Mechanics of Materials-I	Relational Database Management System Laboratory
Materials Sciences	Workshop
Relational Database Management System	
Engineering Economics and Costing	
Electrical Machines	

5th Semester

THEORY	SESSIONALS
Optimization in Engineering	Mfg. Eng. Lab-I
Manufacturing By Shaping & Joining	Material Testing & Heat Power Lab.
Design of Machine Elements	Design & Drawing
Non Traditional Machining	Comprehensive Viva
Theory of Metal Machining	

Introduction to Physical Metallurgy	
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6th Semester

THEORY	SESSIONALS
Product and Operation Management	Comprehensive Viva
Product Design Production Tooling	Metal Forming Lab
Theory of Metal Forming	Tool Design Sessional
Quality Assurance & Reliability	
Heat Transfer	
Mechatronics	

7th Semester

THEORY	SESSIONALS
CAD/CAM	Minor Project
Advance Casting & Welding	CAD/CAM Lab.
Production Inventory System	Practical Training Seminar
Environmental Engg.	
High Energy Density Forming	

8th Semester

THEORY	SESSIONALS
Instrumentation and Control	Major Project
Robotics and FMS	Seminar
Marketing Management	Comprehensive Viva Voce
Simulation and Modeling	