



Delhi Skill and  
Entrepreneurship University UGC Recognized

DSEU

CRAFTING EXCELLENCE

# B.Tech. (Mechatronics Engineering)

Year-wise Course Structure

# Year 1 - Outline



Applied Mathematics	Applied Chemistry
Applied Physics	Electronic Devices
Manufacturing Processes	Introduction to Programming
Electrical Technology	Engineering Mechanics
Human Values and Professional Ethics	Communication Skills
Fundamentals of Computing	Environmental Studies

# Year 2 outline

Switching Theory and Logic Design	Organizational Behaviour
Numerical Analysis and Statistical Techniques	Kinematics and Dynamics of Machinery
Measurements and Instrumentation	Signals and Systems
Material Science And Metallurgy	Control Systems
Fluid Mechanics	Thermal science
Mechanics of Solids	Hydraulics and Pneumatics

# Year 3 outline



Machine Element Design	Manufacturing Technology
Metrology And Quality Control	Programmable Logic Controller and SCADA
Digital Signal Processing	Computer Integrated Manufacturing
Sensors and Transducers	Automotive Electronics
Power Electronics and Drives	Microprocessors and Microcontrollers
Management of Manufacturing System	

# Year 4 outline

Robotics	Flexible Manufacturing System
Embedded System	Intelligent and Smart Instrumentation
Factory Automation	Computer Aided Design
Refrigeration And Air Conditioning	Micro Electro Mechanical System and Nano-Technology
Engineering System Modelling and Simulation	Operation research
Digital Image Processing	Artificial intelligence
Finite Element Method	Mechatronics System Design