Diploma in Mechanical Engineering

Eligibility	S.S.C with Work Experience
Duration	1 - 3 Years
Fees	27,500.00
Syllabus	**SEM – I** 1. English Communication 2. Applied Mathematics-I. 3. Basic Electrical & Electronics Engineering 4. Engineering Graphics 5. Basic Electrical & Electronics Lab **SEM – II** 1. Applied Mathematics-II 2. Applied Science 3. Mechanical Engineering Science 4. Computer aided Engineering 5. Applied Science Lab **SEM– III** 1. Engineering Mechanics 2. Strength of Materials 3. Fluid Mechanics 4. Manufacturing Technology-I 5. Mechanical Measurements **SEM - IV** 1. Engineering Mechanics 2. Strength of Materials 3. Fluid Mechanics 4. Manufacturing Technology-I 5. Mechanical Measurements **SEM– V** 1. Basic Management Skills 2. Thermal Engineering-II

	3. Design of machine elements 4. Mechatronics 5. C-Programming **SEM– VI** 1. Estimating and costing 2. Automobile Engineering 3. Computer integrated manufacturing 4. Thermal Engineering 5. Power plant engineering

Bachelors Program in Mechanical Engineering

Eligibility	3 Years Diploma or HSC with 3 years Work Experience
Duration	1 - 4 Year
Fees	37,500.00
Syllabus	**SEM – I** 1. Applied Mathematics - I 2. Applied Physics - I 3. Applied Chemistry - I 4. Manufacturing Process 5. Introduction to Computers & Auto CAD 6. Communication Skills - I **SEM – II** 1. Communication Skills - II 2. Applied Physics - II 3. Applied Chemistry - II 4. Introduction to Programming 5. Engineering Mechanics 6. Electrical Science

SEM – III

1. Applied Math's
2. Thermodynamics
3. Strength of Material
4. Production Process - I
5. Computer Aided Machine Drawing
6. Database Information Retrieval System

SEM – IV

1. Applied Math's IV
2. Fluid Mechanics
3. Theory of Machines
4. Production Process - II
5. Material Technology
6. Industrial Electronics

SEM – V

1. Business Communication & Ethics
2. Heat Transfer
3. Internal Combustion Machine
4. Mechanical Measurement & Control
5. Production Process III
6. Theory of Machine II

SEM – VI

1. Mechatronics
2. Hydraulic Machinery
3. Mechanical Vibrations
4. I.C. Engine
5. Machine Design I
6. Heat and Mass Transfer

SEM -VII

1. Machine Design II
2. CAD/CAM /CAE
3. Industrial Robotics
4. Cryogenic Engineering
5. Dynamic System Modeling & Analysis
6. Nuclear Technology

	SEM – VIII 1. Automobile Engineering 2. Finite Element Analysis 3. Artificial and Machine Intelligence 4. Mechanical System Design 5. Business Process Reengineering 6. Process Equipment Design

Master Program in Mechanical Engineering

Eligibility	Graduate or Diploma with 5 years of Work Experience
Duration	1 - 2 Year
Fees	34,500.00
Syllabus	**SEM – I** 1. Manufacturing Process & Analysis 2. Advanced Kinematics & Dynamics of Machines 3. Advanced Machine Design - I 4. Finite Element Analysis 5. Robotics & Manufacturing Automation 6. Advanced Machine Design - II 7. Research Methodology **SEM – II** 1. Computer Aided Design 2. Stress Analysis 3. Mechanical Design - I 4. Applied Dynamics & Vibrations 5. Cyber Security 6. Optimization Methods in Engineering Design 7. Finite Element & Boundary Element Methods

SEM – III

1. Design of Mechanisms & Manipulators
2. Mechanical Design - II
3. Manufacturing Technology
4. Modeling of Thermal System
5. Viscous Fluid Flow
6. Advanced Heat Transfer
7. Gas Dynamics

SEM – IV

1. Design of Heat Exchangers
2. Energy Analysis of Thermal System
3. Computational Fluid Dynamics
4. Energy Economics & Management
5. Mechanical Engineering
6. Hydraulics & Pneumatics
7. Specialization/ Optional Subject