

chemical E  
that deals with  
manufacture of product

programme at 32:10

## ENTRY REQUIREMENTS

STPM

A pass  
pass

with at least CGPA 2.0 out of 4.0 AND  
Physics

CGPA 2.5 out of 4.0 AND

## MAIN COURSES

### MAJOR CORE COURSES

Physical and Organic Chemistry

Chemical Engineering Drawing

Fundamentals of Computer

Chemical Engineering Thermodynamics

Heat and Mass Transfer

Unit Operations of Chemical

Fluid Mechanics for Chemical

Chemical Process Safety

Reaction Engineering

Modeling and Simulation

Chemical Process Technology

Biochemistry

Process Control and Automation

Catalysis Technology

Biorefinery and Biotechnology

Particle Technology

Processes

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Environmental Management

Project Management and Economics

Pollution Sampling and Analysis

Engineering Mathematics

Probability and Statistics

Numerical Methods in Engineering

Information Skills

Research Methodology

Engineering Ethics

### MAJOR ELECTIVE COURSES

Advanced Drying Technology

System Optimisation

Computational Fluid Dynamics

Multi-Scale Modelling and Simulation

Membrane Technology

Nanomaterials