# PROGRAMME STRUCTURE

## YEAR 1

- English for Academic Communication
- Co-Curriculum 1
- Ordinary Differential Equations
- Organic Chemistry
- Physical Chemistry
- English for Technical Communication
- Softskill 1
- Applied Calculus
- Analytical Chemistry
- Engineering Mechanics
- Thermodynamics
- Engineering Ethics & Professionalism

## YEAR 2

- Softskill 2
- English for Professional Communication
- Applied Statistics
- Fluid Mechanics
- Material & Energy Balance
- Islamic and Asian Civilization
- Co-Curriculum 2
- Chemical Engineering Thermodynamics
- Basic Science & Engineering Lab
- Electrical and Instrumentation Technology
- Computer Programming for Engineers
- Science & Engineering Materials
- Heat Transfer

## YEAR 3

- Ethnic Relations
- Foreign Language Level I
- Mass Transfer
- Numerical Methods & Optimization
- Chemical Reaction Engineering Lab
- Chemical Reaction Engineering I
- Technopreneurship
- Foreign Language Level 2
- Process Control & Dynamic
- Process Simulation and Computer-Aided Design
- Unit Operation
- OSH in Chemical Industries
- Elective 1

## YEAR 4

- Process Synthesis
- Unit Operation Lab
- Chemical Reaction Engineering II
- Undergraduate Research Project I
- Elective 2
- Process Control & Instrumentation Lab
- Separation Process
- Undergraduate Research Project II
- Elective 3
- Industrial Training

## YEAR 5

- Process Engineering Economics
- Environmental Engineering
- Process & Plant Design I
- Process Engineering Management
- Process & Plant Design II

## TOTAL CREDIT: 130