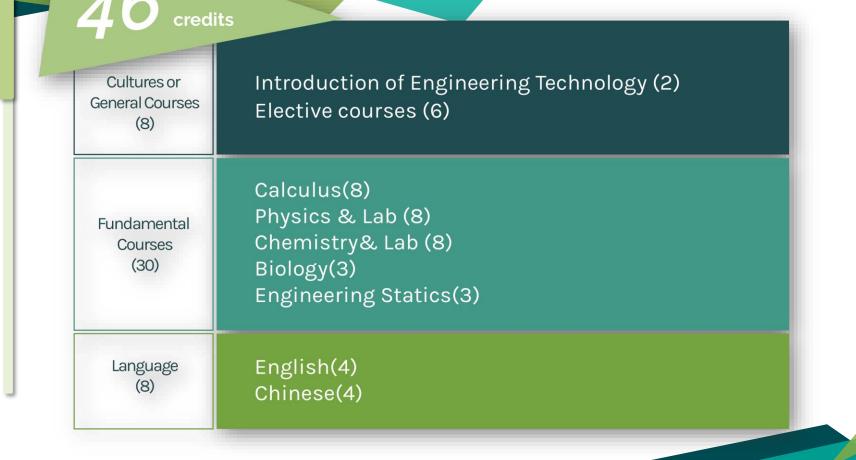
Freshman Year





Sustainable Chemical & Materials Science Smart Technology

Engineering Dynamics (3) Fluid Mechanics (3) Material Mechanics (3) Structure Analysis (3) Automation Control (3) Fundamental Electronics (3) Engineering Graphics / /(BIM or AutoCAD)(3) Lab. (3D Printing or PBL-Learning) (2)

Engineering Math. I (3)

Material Science (3)

Engineering Materials (3)

Computer Programming (3)

Advanced Structure

& Smart Control

Physical Chemistry + Lab (7) Organic Chemistry + Lab (7) Unit Operation I & II (6) Polymer Chemistry (3)

Engineering Cores (12)

Engineering

Profession

Courses

(23)

26+credits

Junior Year

Sustainable Chemical &

Materials Science Smart Technology

Advanced Structure & Smart Control

Mechanical Engineering

Engineering Profession Courses (13) Manufacturing (3) Thermodynamics (3) Mechanical Design (3) Mechanical design and practice(4) Civil & Construction Engineering Soil Mechanics and Lab. (4) Reinforced Concrete Design (3) Foundation Engineering (3) Engineering Management (3)

Polymer Chemistry (3) Instrumental Analysis (3) Thermodynamics(3) Kinetics(3) Lab in Materials and Fabrication (1)

Elective Courses (12) Advanced Structure & Robot and Control & Smart Technology Advanced Chemical & Material Engineering & Nanofabrication Technology Biomolecular and Medical Engineering

Junior Year

18+credits

Advanced Structure & Smart Control

Sustainable Chemical & Materials Science Smart Technology

Engineering Profession Courses (13) Undergraduate Thesis (6) Engineering Project & Practical Training (6) Elective Courses (12)