

# INDUSTRIAL AUTOMATION

## FIRST YEAR

18

BTI1413  
Computer Aided Design

BTI1133  
Manufacturing Processes

BTI1112  
Engineering Materials

BTI1212  
Statics

BUM1113  
Technical Mathematics

UQB1001  
Co-Curriculum 1

UHS1022  
Soft-skills

UHL2400  
Fundamental of English Language \*(MUET)

UHL2412  
English For Academic Communication

18

BTI1323  
Thermodynamics

BTI1523  
Electrical & Electronics

BTI1122  
Industrial Quality Control

BTI1423  
Programming

BUM1223  
Calculus

UQB2001  
Co-Curriculum 2

UHF1111  
Foreign Language 1

UHL2422  
English For Technical Communication

## SECOND YEAR

19

BTI2412  
Computer Aided Engineering and Manufacturing

BTI2223  
Strength of Materials

BTI2213  
Dynamics

BTI2313  
Fluid Mechanics

UHC2022  
Penghayatan Etika & Peradaban

BUM2113  
Applied Mathematic

UHF2041  
Foreign Language 2

UGE2002  
Techno-preneurship

19

BTX2643  
Robotics System Modelling

BTI3513  
Digital Electronics

BTI2622  
Microcontroller

BTI2121  
Materials Lab

BTI2123  
Project Management Eng. Economy

UHC1012  
Falsafah dan Isu Semasa

BUM2413  
Applied Statistic

UHL2432  
English for Professional Communication

## THIRD YEAR

20

BTI2623  
Industrial Automation

BTI3603  
Control Systems Engineering

BTI3523  
Sensors & Instrument System

BTI3413  
Programming for ET

BTX3612  
Industrial IoT

BT\*3\*\*3  
Elective 1

BT\*3\*\*3  
Elective 2

17

BTI3403  
Intro to Machine Learning

BTI3623  
CAPSTONE

BTI3822  
Internship Preparation

BTI3503  
Electrical Drive Systems

BT\*3\*\*3  
Elective 3

BT\*3\*\*3  
Elective 4

## FOURTH YEAR

17

BTI4710  
Final Year Project

BTI4113  
Occupational Safety and Health

BTI4122  
Professional Practice & Ethics

BTI3122  
Fundamentals of IR4.0

**Work-based Learning**

12

BTI4812  
Industrial Training

BTI4812  
Industrial Training

Matriculation/STPM/Diploma

B. MANUFACTURING ENG. TECH. (INDUSTRIAL AUTOMATION)

## ELECTIVE COURSES

Group A  
(Breadth Elective)

BTI3723  
Automated Manufacturing Systems

BTX3523  
Autonomous Robotics System

Group B  
(Depth Elective)

BTI3433  
Applied Machine Learning

BTI3423  
Machine Vision

Komponen	Kurikulum BTI (kredit)
Modul Wajib	18
Teras Umum	12
Teras Disiplin	86
Latihan Industri	12
Modul Elektif	12
<b>Total</b>	<b>140</b>

**UNIVERSITY COURSES**

**PROGRAM COURSES**

**ELECTIVE COURSES**