DESIGN YOUR FUTURE HERE

UNIVERSITI KUALA LUMPUR
MALAYSIA ITALY DESIGN INSTITUTE (UniKL MIDI)
www.unikl.edu.my
Universiti Kuala Lumpur Kampus Cawangan Malaysia Italy Design Institute (UniKL MIDI) aims to generate graduates who are able to contribute an important role in the design and manufacturing fields for industries specializing in consumer products.

The graduates are exposed to hands-on-mode of training that will enable them to acquire good understanding of the aesthetic, analytic and manufacturing skills to effectively develop innovative designs and products of high commercial value that fulfil the users’ needs for environmental friendly gadgets.

Equipped with advanced manufacturing machines and up-to-date design and manufacturing software, UniKL MIDI develops students to seamlessly adapt to the industrial environment.

The programs are designed to enables graduates to become future talent force and entrepreneurs to fulfil the requirement for Malaysia to be a developed nation.

**PROGRAMS OFFERED**

- **Bachelor of Engineering Technology (Product Design) with Honours**
  JDPT/BPP (B2/522/6/0079) 16/26, MQA/FA11166

- **Bachelor of Engineering Technology (Manufacturing Systems) with Honours**
  JDPT/BPP (B3/540/6/0010) 04/20, MQA/FA11168

- **Bachelor of Engineering Technology (Railway System) with Honours**
  JDPT/BPP (N/522/6/0104) 09/25, MQA/FA11126

- **Bachelor of Technology Management (Honours)**
  JDPT/BPP (B/549/6/0885) 01/28, MQA/FA 7428

- **Bachelor of Design (Honours) in Industrial Design**
  JDPT/BPP (N/022/6/0001) 06/27, MQA/FA 15657

- **Diploma of Engineering Technology (Railway System)**
  JDPT/BPP (B/522/4/0111) 07/25, MQA/FA 13858

- **Foundation in Science and Technology**
  JDPT/BPP (B/010/3/0235) 09/24, MQA/FA 1157

- **Foundation in Creative Art and Design**
  JDPT/BPP (N/214/3/0195) 09/26, MQA/FA 14713

**ENTRY REQUIREMENTS**

**BACHELOR OF ENGINEERING TECHNOLOGY PROGRAMS**

Students intending to pursue engineering technology programs shall have a good understanding of Mathematics and Natural Sciences. The normal entry qualification may include:

- Pass in STPM/Matriculation/Foundation or its equivalent, with minimum CGPA 2.0 and at least Grade C in Mathematics and one relevant Science subject; OR
- Pass in International Baccalaureate (IB) with at least 24 points; OR
- Pass in A-Level with minimum Grade D in Mathematics one (1) relevant Science subject; OR
- Pass in Sijil Tinggi Agama Malaysia (STAM) with minimum grade of Ayyajid and pass SPM or its equivalent with minimum Grade C in Mathematics and one relevant Physical Science subjects (i.e; Physics, Chemistry & etc); OR
- Recognized Diploma in Engineering/Engineering Technology or its equivalent with CGPA 2.0; OR
- Recognized related Technical/Vocational/Skills Diploma with CCPA 2.0; OR
- Pass the DKM/DLKM/DVM with a minimum CGPA of 2.00 AND have at least two (2) years of work experience in the related field. The program must get Full Accreditation (FA) by MQA or others Accreditation bodies that had been recognized by government of Malaysia and according to approval by UniKL Senate.
BACHELOR OF TECHNOLOGY MANAGEMENT (HONOURS)

- A pass in STPM with at least Grade C (GP 2.0) in any TWO subjects and a pass in Mathematics and English at SPM; OR
- A pass in STAM with at least Grade Jayyid and a pass in Mathematics and English at SPM; OR
- Matriculation or Foundation with at least CGPA of 2.00; OR
- A Diploma (Level 4, MQF) with at least CGPA of 2.00; OR
- An Advanced Diploma (Level 5, MQF) with at least CGPA of 2.00;

*Can be waived should any other higher qualifications contain Mathematics and English subjects with an equivalent/higher achievement.

- Pass Diploma Kemahiran Malaysia (DKM)/ Diploma Lanjutan Kemahiran Malaysia (DLKM)/ Diploma Vokasional Malaysia (DVM) with a minimum CGPA of 2.50 and the program must get Full Accreditation (FA) by MQA or others Accreditation bodies that had been recognized by government of Malaysia and according to approval by UniKL Senate; OR
- Pass the DKM/DLKM/DVM with a minimum CGPA of 2.00 AND have at least two (2) years of work experience in the related field. The program must get Full Accreditation (FA) by MQA or others Accreditation bodies that had been recognized by government of Malaysia and according to approval by UniKL Senate;

BACHELOR OF DESIGN IN INDUSTRIAL DESIGN (HONOURS)

- A pass in STPM with at least Grade C (GP 2.0) in any TWO subjects, or its equivalent; OR
- A pass in STAM with at least Grade Jayyid, or its equivalent; OR
- Matriculation or Foundation with at least CGPA of 2.00; OR
- A Diploma (Level 4, MQF) with at least CGPA of 2.00; OR
- Pass Diploma Kemahiran Malaysia (DKM)/ Diploma Lanjutan Kemahiran Malaysia (DLKM)/ Diploma Vokasional Malaysia (DVM) with a minimum CGPA of 2.50 and the program must get Full Accreditation (FA) by MQA or others Accreditation bodies that had been recognized by government of Malaysia and according to approval by UniKL Senate; OR
- Pass in DKM/DLKM/DVM with a minimum CGPA 2.00 and at least have 2 years working experience in a related discipline.
- Pass an interview OR submission of portfolio determined by the HEP as required

DIPLOMA OF ENGINEERING TECHNOLOGY (RAILWAY SYSTEM)

Students intending to pursue engineering technology programs shall have a good understanding of Mathematics and Natural Sciences. The normal entry qualification may include,

- Pass in SPM or its equivalent with at least credits (minimum Grade C and higher) in Mathematics and Natural Sciences or Technical Based Subjects; OR
- Pass in O-Level with minimum Grade C in three (3) subjects including Mathematics and science or technical based subjects; OR
- Accredited Certificate in Engineering, Engineering Technology, Technical or Malaysian Skills Certificate Level 3 with PT3; or its equivalent; OR
- Recognized related Technical/Vocational/Skills qualifications AND an adequate and relevant bridging program; OR
- Pass Technical/Vocational/Skills qualifications and recognized and approve by UniKL Senate
- Pass in Sijil Vokasional Malaysia (SVM) qualification been recognized by government of Malaysia and according to approval by UniKL Senate. SVM is recognized as equivalent to 3 credits SPM for candidates who obtain;
  - Academic CGPA is equal to or greater than 2.00;
  - Vocational CGPA is equal to or greater than 2.67 and competent in all vocational modules;
  - Credit in Bahasa Melayu with SVM Code 1104;
  - Pass in Sejarah for graduate cohort 2013-2016

FOUNDATION PROGRAMS

- Pass in Sijil Pelajaran Malaysia (SPM) with at least Grade C in 5 subjects
- Pass the O-Level with at least Grade C in 5 subjects OR Other equivalent qualifications

These entry requirements serve as guidelines only. For detailed information on the entry requirements please log on to: www.unikl.edu.my
BACHELOR OF ENGINEERING TECHNOLOGY (RAILWAY SYSTEM) WITH HONOURS

JPT/BPP (N/525/6/0104) 09/25, MQA/FA 11126

PROGRAM CONTENTS

YEAR 1 - SEMESTER 1
- Engineering Mathematics 1
- Fundamental English
- Professional English 1
- Palsafah dan Isu Semasa
- Bahasa Melayu Komunikasi 2
- Isu-Isu Keterperiodi Islam di Malaysia
- Culture and Lifestyle in Malaysia 2

YEAR 2 - SEMESTER 2
- Engineering Sciences
- Engineering Mathematics 2
- Engineering Drawing
- 3D Physical Modelling
- Mechanical Design and Modelling
- Computer Programming

YEAR 3 - SEMESTER 5
- Rolling Stock Technology
- Railway Signalling
- Railway Communication
- Railway Operations Management
- Technopreneurship
- Professional English 2
- Elective 1

YEAR 3 - SEMESTER 6
- Advanced Rail Electrification
- Railway Transportation System
- Railway Maintenance and Inspection Technology
- Rail Safety and Discipline Practices
- Final Year Project 1
- Elective 2

YEAR 4 - SEMESTER 3
- Electrical & Electronics Railway Fundamentals
- Materials Engineering
- Mechanics of Materials
- Applied Statistics
- Co-curriculum
- Foreign Language 1
- Philosophy and Current Issues / Penghayatan Etika & Peradaban

YEAR 4 - SEMESTER 7
- Elective 3

YEAR 4 - SEMESTER 8
- Industrial Training

ELECTIVE SUBJECTS
- High Voltage Engineering and Application
- Sustainable Energy
- Quality Engineering
- Design for Manufacture and Assembly
- Geometrical Dimensional and Tolerance

CAREER PATH
- Electrical Engineer
- Maintenance Engineer
- Rail System Leader
- Signalling And Communication Engineer
- Rolling Stock Engineer

BACHELOR OF TECHNOLOGY MANAGEMENT (HONOURS)

JPT/BPP (R/345/6/0885) 01/28, MQA/FA 7428

PROGRAM CONTENTS

YEAR 1 - SEMESTER 1
- Business Mathematics
- Fundamental English
- Professional English 1
- Business Management
- Marketing
- Palsafah Dan Isu Semasa
- Isu-Isu Keterperiodi Islam di Malaysia
- Culture and Lifestyle in Malaysia 2

YEAR 3 - SEMESTER 5
- Quality Engineering
- Project Management
- Technopreneurship
- Professional English 2
- Co-curriculum
- Elective 2
- Final Year Project 1

YEAR 3 - SEMESTER 6
- Six Sigma Methodology
- Innovation Management
- Enterprise Resource Planning
- Final Year Project 2
- Elective 3

YEAR 4 - SEMESTER 7
- Industrial Training

ELECTIVES: INDUSTRIAL DESIGN
- Computer Aided Industrial Design
- 3D Physical Modelling
- Design Media and Communication
- Industrial Design Studio 1

ELECTIVES: PRODUCT DESIGN
- Product Design Studio
- Solid Modeling
- Visual Design Development

ELECTIVES: RAILWAY SYSTEM
- Rail Safety and Discipline Practices
- Railway Transportation Systems
- Railway Engineering Assurance
- Railway Maintenance and Inspection Technology

ELECTIVES: MANUFACTURING SYSTEMS
- Applied Statistics
- Manufacturing Optimization
- Lean and Agile Manufacturing
- Design for Manufacture and Assembly
- Engineering Economic

CAREER PATH
- Graduates in this field have a wide variety of employment opportunities as:
  - A supervisor in technical areas
  - An executive in industry production and manufacturing
  - Computer system analysts
  - Management Information System executive
# Bachelor of Design (Honours) in Industrial Design

**Program Contents**

**Year 1 - Semester 1**
- Design Fundamental and Visual
- Communication
- Industrial Design Sketching
- Fundamental English
- Mathematics for Design
- Falsafah dan Isu Semasa/Bahasa Melayu
- Komunikasi 2
- Isu dan Kontemporer Muslim di Malaysia/Culture and Lifestyle in Malaysia 2
- Professional English 1

**Year 1 - Semester 2**
- Penghayatan Etika dan Peradaban
- Philosophy and Current Issues
- Digital Technology
- Safety, Health and Environment

**Year 2 - Semester 3**
- Technical Drawing
- Professional English 2
- Solid Modeling
- History and Theory of Industrial Design
- Design Thinking
- Model Making Technique
- Product Design

**Year 2 - Semester 4**
- Surface Modelling
- Design Studio One (Majoring: Furniture, Transport or Product Design)
- Ergonomics
- 2D Computer Aided Design
- Design Research and Method
- Foreign Language 4
- Advanced Product Design

**Year 3 - Semester 5**
- Design Business and Marketing
- Material and Technology for Designer
- Technopreneurship

**Year 3 - Semester 6**
- Co-Curriculum (Community Service 2)
- CAE Driven Design
- Design Studio Two (Majoring: Furniture, Transport or Product Design)
- Innovation Management
- Foreign Language 2
- Sustainability in Design (Envo, Social, Economis)
- Aesthetics and Product Language

**Year 4 - Semester 7**
- Final Design Project
- Furniture Materials: Wood and Non-Wood
- Elective
- Elective

**Year 4 - Semester 8**
- Industrial Training

**Elective Subjects**
- Design for Manufacture and Assembly
- Electrical and Electronics Fundamental
- Lean for Product Design Development
- Six Sigma Methodology
- Fundamentals of Transport Design and Packaging
- Transport Styling and Design

**Career Path**
- Industrial Designer
- Consumer Product Designer
- Transport Designer
- Graphic Designer
- Technical Designer
- Model Maker

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# Diploma of Engineering Technology (Railway System)

**Program Contents**

**Year 1 - Semester 1**
- Amalan Islam di Malaysia / Religious Practice in Malaysia / Culture and Lifestyle in Malaysia
- Interpersonal Skills
- Technical Mathematics 1
- Competency English
- Computer Science and Programming
- Basic Electrical Railway
- Foreign Language 1

**Year 2 - Semester 2**
- Basic Electronics Railway
- Technical Mathematics 2
- Integrated Railway Automations Technology
- Communication English 1
- Railway Machines and Processes Technology
- Mechanical Design and 3D Modelling
- Co-Curriculum 1

**Year 3 - Semester 5**
- Rolling Stock and Maintenance
- Signalling and Communication
- Final Year Project

**Year 3 - Semester 6**
- Industrial Training

**Year 2 - Semester 3**
- Rolling Stock
- Railway Safety
- Statics and Strength of Materials
- Materials Science
- Engineering Physics
- Foreign Language 2 (Mandarin 2)

**Year 2 - Semester 4**
- Railway Track Engineering
- Railway Signalling and Communication Technology
- Engineering Dynamics
- Introduction to Entrepreneurship
- Communication English 2
- Pengajian Malaysia 2 / Bahasa Malaysia Komunikasi 1
- Penghayatan Etika Dan Peradaban or Falsafah dan Isu Semasa / Bahasa Malaysia Komunikasi 1

**Career Path**
- Permanent Way Technician
- Trackwork Technician
- Railway System Maintenance Technician
- Signalling Technician
- Rolling Stock Technician
FOUNDATION IN SCIENCE AND TECHNOLOGY

JPT/BPP (R/010/3/0295) 09/24, MQA/FA 5157

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FOUNDATION IN CREATIVE ART AND DESIGN

JPT/BPP (N/214/3/0195) 09/26, MQA/FA 14713

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ELECTIVE SUBJECTS

- Introduction to Graphic Design
- Introduction to Multimedia Design
- Introduction to Furniture Design
- Introduction to Consumer Product Design

UniKL MIDI 7