

## UniKL AWARD & RECOGNITION



# FLEXILEARN

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## BACHELOR OF MECHANICAL ENGINEERING TECHNOLOGY (INDUSTRIAL REFRIGERATION AND AIR CONDITIONING) WITH HONOURS



## OVERVIEW

Bachelor of Mechanical Engineering Technology (Industrial Refrigeration and Air Conditioning System) with Honours programme integrates four basic disciplines of engineering; the combination of mechanical, electrical, electronics and computer and software engineering technology. The study of Air Conditioning and Industrial Refrigeration involves aspects of Heating, Ventilating, Air Conditioning Design as the role of Consultancy, contractors, solution provider and mechanical engineering together with an understanding of Troubleshooting and Commissioning.

## FLEXIBLE LEARNING

Offering flexibility to cater to your schedule, so that you can pursue additional knowledge without interfering with your work schedule.

UniKL offers the flexibility to cater to your work schedule and provide you with the opportunity to enhance your skills whilst not compromising your work time. This workaround learning schedule is the main reason many professionals choose to enter UniKL's FlexiLearn programmes. Selected Professional Certificates can be embedded into the programmes as well. Furthermore, prior academic qualifications and working experience may be

## APEL

Accreditation of Prior Experiential Learning

APEL (Accreditation of Prior Experiential Learning) is a systematic process which involves the IDENTIFICATION, DOCUMENTATION, and ASSESSMENT of prior experience related to a study programme.

APEL is a systematic process that involves the identification, documentation and assessment of prior experiential learning, i.e. knowledge, skills and attitudes, to determine the extent to which an individual has achieved the desired learning outcomes, for access to a programme of study and/or award of credits.

## PROFESSIONAL CERTIFICATION

- CSTP in Refrigerant Handling for Car Air-Conditioning Technician

## PROFESSIONAL RECOGNITIONS

- Engineering Technology Accreditation Council (ETAC)
- Department of Environment Malaysia

## ENTRY REQUIREMENT

- Passed Sijil Tinggi Pelajaran Malaysia (STPM) or equivalent with a minimum of at least Grade C (CGPA 2.0) in 3 subjects including Mathematics, a Science subject related and one other subjects AND pass in English at SPM or equivalent; OR
  - Pass Sijil Tinggi Agama Malaysia (STAM) with at least Jayyid Level and pass English at SPM or equivalent level; OR
  - Passed Diploma in Engineering / Engineering Technology (Level 4,KKM) in related field from a recognized PPT by the Malaysian Government with minimum CGPA 2.0; OR
  - Passed Diploma (Level 4, KKM) in the field of Vocational, Science or Technical/related skills and from the recognized PPT by the Malaysian Government with a minimum CGPA of 2.0 and a pass in English at SPM level or equivalent; OR
  - Pass in Foundation in Science and Technology / Science / Matriculation / Preparatory Program in Science from recognized PPT by the Malaysian Government with minimum CGPA 2.0 including Mathematics and one Science subject INCLUDING a pass in English at SPM or equivalent; OR
  - Pass in International Baccalaureate (IB) with at least 24/45 points including Mathematics and one Science subject; OR
  - Passed Higher National Diploma (HND), UK (Level 4, KKM) in related field from recognized PPT by the Malaysian Government with a minimum CGPA of 2.00 and
- 
- Other qualifications recognized by the Malaysian Government
- 
- POSSESSED A MALAYSIAN UNIVERSITY ENGLISH TEST (MUET) AT LEAST OF BAND 2; OR
  - AT LEAST MINIMUM IELTS BAND 4.0; OR
  - HAVE MINIMUM SCORES FOR TOEFL AT LEAST 450 (PBT) or 135 (CBT) or 40 (IBT)

## PROGRAMME STRUCTURE

### SEMESTER 1

- Tamadun Islam & Tamadun Asia (TITAS)
- Bahasa Melayu Komunikasi 2
- Technopreneurship
- Applied Calculus 1
- Fundamental English
- Professional English 1

### SEMESTER 2

- Isu-Isu Kotemporari Muslim di Malaysia (L-M)
- Culture and Lifestyle in Malaysia (L-NM&I)
- Electrical Principles
- Material Science
- Statics and Dynamics
- Workshop Practice
- Engineering Drawing
- Co-Curriculum 2

### SEMESTER 3

- Engineering Ethics
- Applied Calculus 2 (Electrical)
- Basic Programming
- Hubungan Etnik (L)
- Malaysian Studies 3
- Refrigeration Fundamentals
- Computer Assisted Design and Simulation 1
- RAC System Studies and Troubleshooting

### SEMESTER 4

- Statistical Data Analysis
- Professional English 2
- Occupational Safety & Health
- Ducting and Piping Network
- Engineering Thermofluids
- Introduction and Study of Air-Conditioning System
- Heating and Cooling Load of Building

### SEMESTER 5

- French 1
- Project Management
- Production of Refrigeration
- Computer Assisted Design and Simulation 2
- Applied Acoustic and Vibration
- Practical Work 1
- Elective 1

### SEMESTER 6

- Final Year Project 1
- French 2
- Applied Thermodynamics
- Practical Work 2
- Technology and Control Refrigeration System
- Heat Exchanger and Transportation of Air-Conditioning
- Elective 2

### SEMESTER 7

- Final Year Project 2
- Innovation Management
- ACIR Capstone
- Air Distribution and Secondary Fluids
- Elective 3

### SEMESTER 8

- Industrial Training

### Elective Subjects

- Indoor Air Quality
- Biological Applications and Refrigeration
- Cold Room and Refrigerated Showcase
- Green Energy and Environment
- Building Energy Simulation
- Building Life Cycle Assesment

\* the duration of the programme will be based in the actual credit transfer and number of courses taken by student on every semester.

