



**Universiti Kebangsaan Malaysia (UKM)** is one of twenty public universities in Malaysia. It was established on 18th May 1970. UKM is one of the leading universities in Malaysia and has been designated as a Research University by the Government of Malaysia since 2007.

The main campus, spanning an area of about 1,100 hectares, is in Bandar Baru Bangi, approximately 35 kilometres from Kuala Lumpur, strategically located close to the main gateway to Malaysia, the Kuala Lumpur International Airport.

UKM offers an excellent environment for academic activities with modern campus facilities. This academic institution was born from the aspiration of the people to uphold the Malay language as the national language as well as the language of knowledge.

UKM has grown rapidly and now has 13 faculties, 13 research institutes of excellence education, and 2 commercial entities which are UKM Holding Sdn. Bhd and UKM Technology Sdn. Bhd.

For further information, please visit: [www.ukm.my](http://www.ukm.my)

## FACULTY OF ENGINEERING AND BUILT ENVIRONMENT (FKAB)

was established on 1st May 1978. It has five departments:

- Department of Electrical Electronics & Systems Engineering (JKEES)
- Department of Mechanical & Material Engineering (JKMB)
- Department of Civil & Structural Engineering (JKAS)
- Department of Chemical & Process (JKKP)
- Department of Architecture (JSB)

The Faculty of Engineering offered the Bachelor of Engineering degree programmes, the Masters and Doctorate programmes.

For further information, please visit : [www.ukm.my/jurutera](http://www.ukm.my/jurutera)



## ACADEMIC CALENDER

The Academic Year is divided into a winter semester and a summer semester.

### Winter Semester:

September to February  
(Application deadline: 15th May)

### Summer Semester:

March to July  
(Application deadline: 15th October)

## INTERESTED?

Do not hesitate to file your application. We have an International office at Germany, University Duisburg-Essen. Get more details and contact us.

We look forward to hear from you.



## UKM International Office at UDE

Oststrasse 99, Raum 321,  
Faculty of Engineering,  
University of Duisburg-Essen  
47058 Duisburg, Germany  
Tel : +49-203 379 3200  
Email: [io-ude@ukm.edu.my](mailto:io-ude@ukm.edu.my)

[www.uni-due.de/iw/ukm](http://www.uni-due.de/iw/ukm)



## Engineering Courses for Exchange Students

Undergraduate

UKM International Office

# FACULTY OF ENGINEERING AND BUILT ENVIRONMENT (FKAB)

## ◆Department of Electrical Electronics & Systems Engineering (JKEES)

- ⇒ Electrical & Electronics Engineering (B.ENG)
- ⇒ Electronic & Communication Engineering (B.ENG)

Head of Department: Prof. Dr. Norbahiah Misran  
(kjkees@ukm.edu.my)

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Winter Semester : Engineering Mathematics 3 (Differential Equation)  
Analogue Electronics  
Signal and System  
Statistics and Numerical Method  
Measurements and Instrumentation  
Electrical Machine  
Electrical Power Generation and Energy Conversion  
Power Electronics  
Control System Design  
Power System Protection and Safety  
Biosignal and System

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Summer Semester : Complex Analysis  
Digital Electronics  
Electromagnetic Fields and Waves  
Communication Theory  
Control Engineering  
Power Engineering  
Digital Signal Processing  
System Design  
Engineering Economics and Cost Accounting  
Power System Analysis  
Power Quality  
Computer Controlled Systems

## ◆Department of Mechanical & Material Engineering (JKMB)

- ⇒ Mechanical Engineering (B.ENG)
- ⇒ Manufacturing Engineering (B.ENG)

Head of Department: Prof. Madya Dr. Zainuddin Sajuri  
(kjkmb@ukm.edu.my)

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Winter Semester : Engineering Mathematics 3 (Differential Equation)  
Thermodynamics and Heat Transfer  
Mechanical and Electrical Engineering Tools  
Mechanic of Materials  
Engineering Ethics & Technology Development  
Numerical Methods  
Heat System  
Analysis of Mechanical Components  
Mechanical Vibration  
Production Planning and Control

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Summer Semester : Engineering Statistic  
Measurement and Instrumentation  
Manufacturing Processes  
Fluid Mechanic  
Engineering Dynamics  
Machine and Electronics Power  
System Dynamics and Control Engineering  
Quality Management  
Computer Aided Applications  
Fluid Dynamics  
Project Management

## ◆Department of Civil & Structural Engineering (JKAS)

- ⇒ Civil & Structural Engineering (B.ENG)
- ⇒ Civil & Environmental (B.ENG)

Head of Department: Prof. Madya Ir. Dr. Othman Jaafar  
(kjkas@ukm.edu.my)

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Winter Semester : Geology and Soil Mechanics  
Mechanics of Materials  
Civil Engineering Materials and Technology  
Engineering Mathematics 3 (Differential Equation)  
Engineering Ethics and Technology Development  
Construction Management  
Transportation Engineering  
Reinforced Concrete Design  
Integrated Design Project 1

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Summer Semester : Engineering Statistics  
Structural Analysis  
Engineering Hydrology and Water Resources  
Environmental Engineering for Civil Engineer  
Geotechnics  
Numerical Analysis and Calculation Methods  
Open Channel Hydraulics  
Steel Structure Design  
Project Management  
Highway Engineering  
Integrated Design Project 2

## ◆Department of Chemical & Process (JKKP)

- ⇒ Chemical & Process Engineering (B.ENG)
- ⇒ Biochemical Engineering (B.ENG)

Head of Department: Prof. Ir. Dr. Siti Rozaimah Sheikh Abdullah  
(kjkas@ukm.edu.my)

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Winter Semester : Engineering Mathematics 3 (Differential Equation)  
Fluid Mechanics  
Cell Biology for Engineers  
Chemical Engineering Thermodynamics 2  
Engineering Ethics and Technological Development  
Separation Processes 1  
Chemical Reaction Engineering 2  
Biochemical and Biomolecular Engineering  
Industrial Safety  
Process Plant Design  
Pollution Control and Cleaner Production  
Process Plant Design Project 1

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Summer Semester : Engineering Statistics  
Heat and Mass Transfer  
Chemical Reaction Engineering 1  
Computer Aided Plant Design  
Separation Processes 2  
Utility and Pressure Vessel Design  
Process Dynamics and Control  
Engineering Management  
Process Modelling and Numerical Simulation  
Process Plant Design Project 2