BEKM Programme

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BACHELOR OF MECHATRONICS ENGINEERING - BEKM

Bachelor of Mechatronics Engineering is a synergistic combination of several engineering disciplines, namely electrical & electronic, mechanical, control, and computer systems design. This program aims to produce graduates who are competent in creating, designing and producing mechatronics products that consist of mechanical and electronic systems which require control of the computer system.

Course Implementation This course would take four (4) years minimum and consist of at least 139 credit hours. The course will
emphasize on Mechatronics Engineering with the composition of the credits are as follows: Credit Hours Percentage Compulsory University Courses 22-23 16-17%

Core Program Courses

Engineering (96)

Programming & Mathematics 111 81%

Core Course & Elective 6 4% This course will be conducted with approximately 80% of contact hours that emphasize theory and the
remainder 20% meeting hour, involving the practical / laboratory experiments, computer-aided learning, and Problem Based Learning (PBL). It also encourages active and cooperative learning activities other than carrying out assignments, job workshops, industrial training and one final year project based on industrial problem.

Graduates Career ProspectsVacancies within the industries for engineers that are skilled and practical-oriented is on the rise. Lots of
highly trained workforces in the entire engineering sector including Industry Power, Control, Instrumentation and Automation, Power Electronics and Drive and Mechatronics in professional level are required. Job opportunities for UTeM graduates in these fields will be more desirable by the industry once they have been equipped with the technical knowledge and strong practical skills.
Field of works for Bachelor of Electrical Engineering and Mechatronics Engineering graduates include:

- Semiconductor manufacturing industries
- Electrical items manufacturing
- High and Low Voltage components manufacturing
- Renewable Energy sector
- Oil and Gas Industries
- Consultancies Companies
- High technology industries such as aerospace industries
- Automation System manufacturing industries
- Biomedical Engineering Firms
- Software Development Sector
- Research and development Sector Some of the career fields that are suitable include Process and Manufacturing Engineer, Design and
Research Engineer, Consultancies Engineer, Testing and Quality Engineer, System Engineer and Academicians.

Curriculum Structure Subject Details For Bachelor Programme Admission Requirements