

Bachelor of Engineering (Hons) Mechanical Engineering

Coventry University, UK

This programme is designed for those who wish to acquire knowledge and skills of mechanical science, design, manufacturing and management and produce successful engineered products and systems to solve engineering problems in industry.

This programme will prepare you for a career across a broad range of industries such as automotive, manufacturing, oil and gas and aeronautical.

Mechanical Engineering graduates have excellent employment prospects across a range of industries, locally and internationally. This programme provides a route to attain the chartered engineer's status in UK professional body. Chartered engineers typically achieve high level of responsibility and reward early in their careers. Alternatively, the programme can provide access to postgraduate study and research.

Programme Details

- Duration: 3 years; 6 semesters
- Principal teaching and learning methods used to enable outcomes to be achieved are lectures, tutorials, seminars, site visits, CAD and drawing classes, laboratory classes, design projects, problem based learning, field courses, group and individual problem solving exercises and projects, interdisciplinary integrated project involvement including design drawing and modelling.
- Principal assessment methods used to enable outcomes to be demonstrated are laboratory reports, written examinations, essays, case study analysis, design and construction exercises, laboratory exercises, individual and group projects, verbal presentations and reports.

Subjects

LEVEL 1	
Semester A Manufacturing Technology & Materials Engineering Mathematics 1 Design Principles & Practice Skills for Academic Learning	Semester B Mechanical Science Product Innovation 1 Electrical Science Islamic Studies / Moral Studies (for Malaysians only)

LEVEL 2	
Semester A Solid Mechanics 1 Analytical Modelling Product Innovation 2 Malaysian Studies (for Malaysians only)	Semester B Thermofluid Mechanics Instrumentation & Control Engineering Management Employability Skills

LEVEL 3	
Semester A Solid Mechanics 2 Product Innovation 3 Computer Aided Engineering Workshop: Research & Project implementation	Semester B Thermofluid Dynamics Professional Development & Management Individual Project Bahasa Kebangsaan A (for Malaysians only)

Offered at
Kolej Universiti Linton - KP/JPS (PA 9346) 10/13
Institut Jati - KP/JPS (PA 9531) 01/14

Bachelor of Engineering (Hons) Mechanical Engineering Design

Coventry University, UK

This programme is designed for those who wish to obtain knowledge and skills in Mechanical Engineering along with the design tools. Mechanical Engineering Design programme provides you with the opportunity to explore real world engineering problems and their solutions. You will work both individually and in groups to challenge the way in which mechanical products are designed.

This programme will prepare you for a career across a broad range of industries such as manufacturing, automotive, oil and gas and aeronautica
Through this programme, you will develop progressively an in-depth knowledge of the essential technical subjects, along with the personal skills necessary to operate successfully and to progress to a leadership role in the industry.

These skills will be complemented by the design tools and techniques necessary for product development and improvement.

Programme Details

- Duration: 3 years; 6 semesters
- Principal teaching and learning methods used to enable outcomes to be achieved are lectures, laboratories, tutorials, seminars, design exercises and projects.
- Principal assessment methods used to enable outcomes to be demonstrated are coursework, graphical design packages, laboratory and project reports, examinations, presentations, design and make projects.

Subjects

LEVEL 1	
Semester A Manufacturing Technology & Materials Engineering Mathematics 1 Design Principles & Practice Skills for Academic Learning	Semester B Mechanical Science Product Innovation 1 Electrical Science Islamic Studies / Moral Studies (for Malaysians only)

LEVEL 2	
Semester A Solid Mechanics 1 Analytical Modelling Engineering Design Tools & Techniques Malaysian Studies (for Malaysians only)	Semester B Thermofluid Mechanics Instrumentation & Control Engineering Management Employability Skills

LEVEL 3	
Semester A Vehicle Structures & Advanced Materials Computer Aided Engineering Workshop: Research & Project Implementation Engineering Project: Principles & Application	Semester B Advanced Engineering Concept & Detailed Design Bahasa Kebangsaan A (for Malaysians only) Engineering Project: Principles & Application

Offered at
Kolej Universiti Linton - KP/JPS (PA 9347) 10/13
Institut Jati - KP/JPS (PA 9532) 01/14



KOLEJ LEGENDA
LEGENDA COLLEGE
N4PE017



INSTITUT
TEKNOLOGI PERTAMA
PERTAMA INSTITUTE
OF TECHNOLOGY
JPNS/PP(IPTS) 21/03



KOLEJ UNIVERSITI
LINTON
UNIVERSITY COLLEGE
KPT/JPT/DFT/US/N 03



IMM
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PERUBATAN MANTIN
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SCIENCES MANTIN (IMM)
N4P4006



INSTITUT JATI
JATI INSTITUTE
N4P4005

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Linton University College
Registration: KPT/JPT/DFT/US/N 03
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(449905-P)

Institut Teknologi Pertama
Pertama Institute of Technology
Registration: JPNS/PP(IPTS)21/03
ITP Sdn Bhd
(188561-U)

Institut Jati
Jati Institute
Registration: N4P4005
Jati Cerah Sdn Bhd
(266085-H)

Kolej Legenda
Legenda College
Registration: N4PE017
Kolej Legenda Sdn Bhd
(60518-A)

Institut Sains Perubatan Mantin
Institute of Medical Sciences Mantin (IMM)
Registration: N4P4006
Advance Extreme Sdn Bhd
(663209-A)

Diploma in Mechanical Engineering

This programme deals with the basic areas of mechanical engineering, design, materials and manufacturing technology. It aims to provide students with the skills and knowledge required for a career as a mechanical engineering technician. Modules include:

- engineering principles
- mathematics
- computing
- engineering and the environment
- mechanical science
- mechanics of materials.

Students are actively encouraged to participate in acquiring work experience during the course and this usually takes the form of a work- based project involving the solution to a real industrial problem with a mechanical engineering theme.

Students will be able to follow a career in a wide range of manufacturing, processing and service industries, supporting the work of professional engineers. Using a “hands-on” approach, this programme has good employment prospect within and outside Malaysia.

Programme Details

- Duration: 3 years; 9 semesters
- Assessment: 60% examination, 40% coursework

Subjects

Bahasa Kebangsaan A (for Malaysians only) Pengajian Malaysia Pendidikan Moral / Pendidikan Islam Academic Communicative English 1 Academic Communicative English 2 Mathematics 1 Mathematics 2 Computer Applications Principles of Physics Statics Dynamics Materials Science Engineering Drawing Mathematics 3 Heat Transfer and Combustion Programming with MATLAB	Programmable Logic Controllers Mechanical Principles Materials Engineering Fluid Mechanics Thermodynamics Mechanical Engineering Design Engineering Mathematics Workshop Practice Manufacturing Process Mechatronic Systems Principles Advanced Computer Aided Design Techniques Project Industrial Training
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Offered at

Kolej Universiti Linton - KP/JPS (A 1470) 09/10
Institut Teknologi Pertama - KP/JPS (KR 8114 / A 1551) 05/12
Institut Jati - KP/JPS (PA 9057) 01/14

Diploma in Mechatronic Engineering

This programme is to provide an opportunity for the students with knowledge, skills, abilities, attitudes and experience which will enable them to perform as competent technicians in the field of Mechatronics. This programme provides students with the engineering knowledge required in the development and improvement of their careers in the mechatronics field. The programme also offers adequate background for further studies / research at graduate level and beyond both locally and abroad.

Program Details

- Duration: 3 years; 9 semesters
- Assessment: 60% examination, 40% coursework

Subjects

Bahasa Kebangsaan A (for Malaysians only) Pengajian Malaysia Pendidikan Moral / Pendidikan Islam Academic and Communicative English 1 Academic and Communicative English 2 Mathematics 1 Mathematics 2 Mathematics 3 Computer Applications Principles of Physics Statics Dynamics Materials Science Engineering Drawing	Programming with MATLAB Advanced Computer Aided Design Techniques Programming Concepts Electrical, Electronic and Digital Principles Instrumentation and Measurement Electromechanical Systems Mechatronic Systems Principles Thermofluid Engineering Control Systems and Automation Programmable Logic Controllers Applications of Pneumatics and Hydraulics Mechatronic System Design Microprocessor Systems Project Industrial Training
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Offered at

Kolej Universiti Linton – KP / JPS (A2973 / KR 10375) 07/14

Foundation Studies in Engineering

The programme is designed as a foundation study in electrical and electronic principles and specialist training for people who wish to pursue a career in electronics at technical or engineering assistant level. Technical or engineering assistants possess good understanding of technical skills in commercial and industrial organisations. The programme also covers fundamental design of electrical and electronic circuits along with simulation, analysis and lab test, which help students to carry out investigation of circuit behaviour and performance.

The candidate will gain skills in the areas of designing, and modifying electronic circuits, designing electronic assemblies with the aid of computers and also writing and maintaining microprocessor software. Tasks also include carrying out microprocessor-interfacing installation / commissioning of electronic systems and the supervision of technicians and tradespersons.

Programme Details

- Duration: 1 year; 3 semesters
- Assessment: 60% examination, 40% coursework

Subjects

Bahasa Kebangsaan A (for Malaysians only) Malaysian Studies (for Malaysians only) Islamic Studies / Moral Studies (for Malaysians only) Academic & Communicative English 1 Mathematics 1 Computer Applications Principles of Physics Dynamics Introduction to Programming	Introduction to Engineering Mathematics 2 Statics Academics & Communicative English 2 Engineering Drawing Technical English Statistics & Probability Critical Thinking Materials Science
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Offered at

Kolej Universiti Linton - KP/JPS (A3246 / KR 10600) 08/14
Institut Teknologi Pertama - KP/JPS (A 1374 / KR 10601) 08/14
Institut Jati - KP/JPS (PA 8904) 08/13

HND in Mechanical Engineering

The Business & Technology Education Council (BTEC), UK

This programme aims to provide students with the skill set and knowledge required for careers in mechanical engineering at senior technical or supervisory level. The programme provides students with a broad engineering knowledge base in mechanical and production engineering technologies which are rapidly developing and highly sought after by employers.

The focus of all modules is on industrial applications, including basic design engineering, energy & power, mechanical systems, modelling & simulation and professional skills development.

A major project gives students valuable experience in designing a system which covers a selection of materials, circuits and devices, costing, standards and safety aspects.

Programme Details

- Duration: 2 years; 6 semesters
- Assessment: 40% examination, 60% coursework

Subjects

Bahasa Kebangsaan A (for Malaysians only) Malaysian Studies (for Malaysians only) Islamic Studies / Moral Studies (for Malaysians only) Analytical Methods for Engineers Engineering Science Business Management Techniques Engineering Thermodynamics Fluids Mechanics Engineering Design Materials Engineering	Further Analytical Methods for Engineers Mechanical Principles Manufacturing Processes Engineering Mathematics Industrial Design (Design for Manufacture) Advanced Computer Aided Design Techniques Application of Machine Tools Programmable Logic Controller Mechatronics System Principles Project
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Kolej Universiti Linton - KP/JPS (A 2911) 09/10
Institut Teknologi Pertama - KP/JPS (A 1312 / KR 7056) 06/11
Institut Jati - KP/JPS (PA 8882) 08/13

