

MASTER DEGREE PROGRAMMES



KOLEJ UNIVERSITI
LINTON
UNIVERSITY COLLEGE

KPT/JPT/DFT/US/N 03



POSTGRADUATE



Master of Science in
Computer Systems Engineering
(Integrated Systems)
KP/JPS (KA11008) 05/15



Master of Science in
Computer Systems Engineering
(Control Systems)
KP/JPS (KA11006) 05/15



Master of Science in
Computer Systems Engineering
(Software Systems)
KP/JPS (KA11007) 05/15



Master of Science in
Civil Engineering
KP/JPS (KA11005) 05/15



Master of Science in
Business Information Systems
KP/JPS (KA11003) 05/15



Master of Science in
Mobile Communications
KP/JPS (KA11004) 05/15

PROSPECTUS



We Lead in Engineering, Built Environment and Technology Education



Legenda Education Group is a fast growing educational Group and one of the largest private tertiary institutions in Malaysia. Currently, there are five private higher education institutions listed under the Group, two of which have been established for more than 23 years, while the other institutions have histories of over 10 years. The Legenda Education Group comprises Linton University College, Pertama Institute of Technology (ITP), Legenda College, Jati Institute and Institute of Medical Sciences Mantin (IMM).

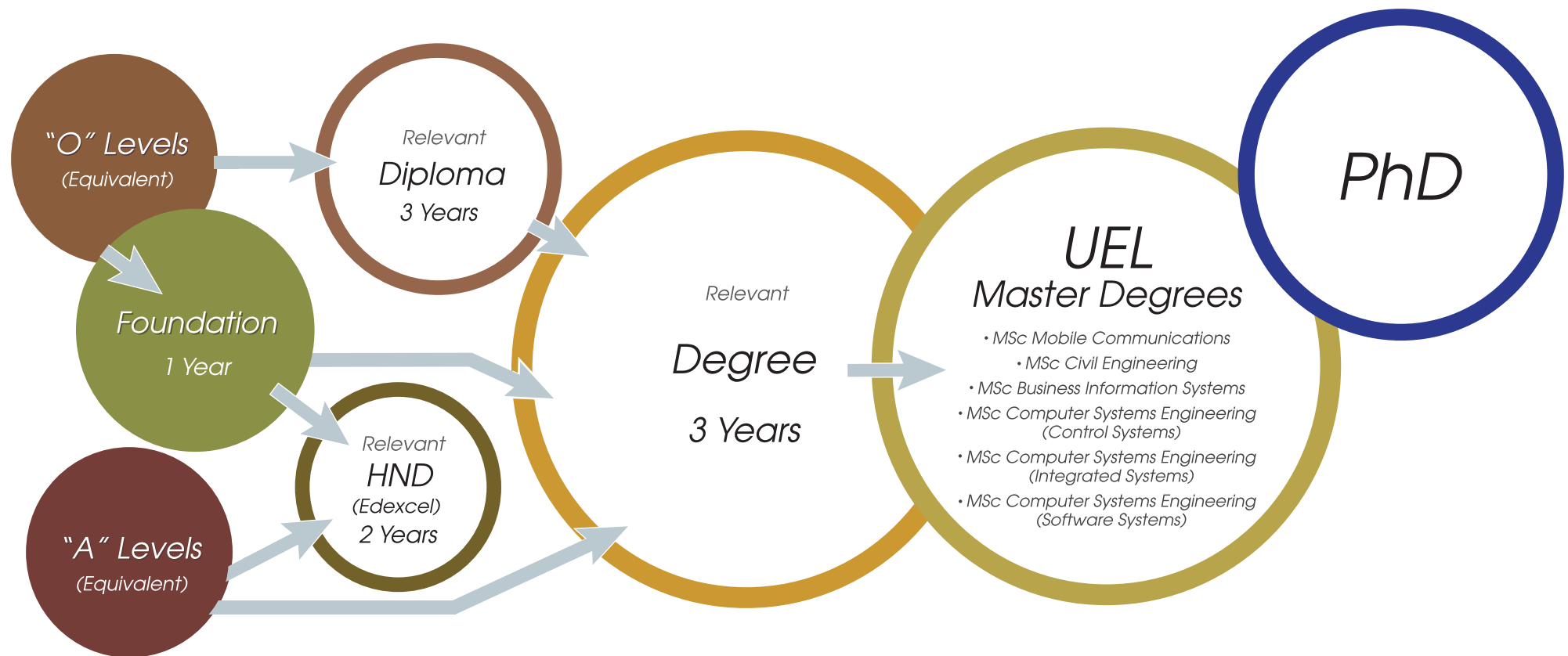
Legenda Education Group's campus is ideally located in a university township near Mantin town in the state of Negeri Sembilan, about 50 km from Kuala Lumpur, and can be reached within 30 minutes from the Kuala Lumpur city centre. The sprawling campus stretches over an area of more than 200 acres and presents an ideal and conducive environment for learning. With complete residential facilities, the integrated campus within the university township offers excellent facilities and amenities that, in many aspects, are unrivalled.



Over the years, more than 32,000 students in the country and region have graduated from the Legenda Education Group with many charting successful careers.

The current student population of the Group stands at 5,800 students with more than 2,800 international students originating from over 46 countries which include Indonesia, Pakistan, Jordan, Iraq, Palestine, United Arab Emirates, Morocco, China, Zimbabwe, Kenya, Tanzania, India, Sri Lanka, Maldives, Nigeria, Kazakhstan and others.

Pathway to Master and PhD Degrees



Master of Science in Computer Systems Engineering

LINTON UNIVERSITY COLLEGE
(KOLEJ UNIVERSITI LINTON)
KP/JPS (PA 11006) 05/15

(Control Systems)

Programme Outline

The general aim of the programme is to enable engineers to develop specialist expertise in control systems simulation and modelling to meet the increasing demands of their profession. The programme intends to promote and engender a positive interest in current practice and through a dissertation an understanding of research methods. This is to encourage students to respond to changes and developments in computer systems technology and allow them to contribute to future innovations.

Programme Objectives

1. Understand, apply and extend your subject expertise in computer systems in a range of engineering and technology based applications;
2. Exercise appropriate engineering judgment in decision making processes;
3. Systematically analyse engineering, software and other related problems;
4. Design and implement effective solutions;
5. Enhance the level of knowledge and understanding regarding computer systems, information technology and relevant engineering applications;
6. Plan and implement a major engineering and/or IT related project;
7. Write a critical evaluation report and defend the conclusions and work undertaken;
8. Demonstrate an ability to study independently and effectively and convey technical information to others.

Entry Qualifications

1. BEng(Hons) in Electrical/Electronic Engineering, Computer Engineering and Computer Science in combination with Electronic Engineering, Physics, or an appropriate and related subject, with an award classification typically of (2:1) but of no less than a lower second class honours (2:2).
2. A degree qualification of a standard equivalent to (1) obtained after a course of full-time study extending over a period of not less than three years in a recognised university outside the UK.
3. Other equivalent qualifications recognized by Malaysian Government.

English Requirements

Applicants will also be required to meet the University standard for competence in English language and will be expected to hold GCE or equivalent grade C in English or a IELTS score of 6.0 or equivalent.

Intakes: September, February and May

Programme Modules

A selection of the following programme modules is offered in one and a half years subject to sufficient demand. Students have to choose from the available modules and the research dissertation, EEM118 must be successfully completed in order to achieve the award of MSc. Some modules may not be available at all stages of the programme.

Each module will be studied over a single semester of 14 weeks with a variety of teaching methods including lectures, tutorials, seminars and lab/practical work. Students are generally required to spend a further minimum period of independent study each week.

Modules:

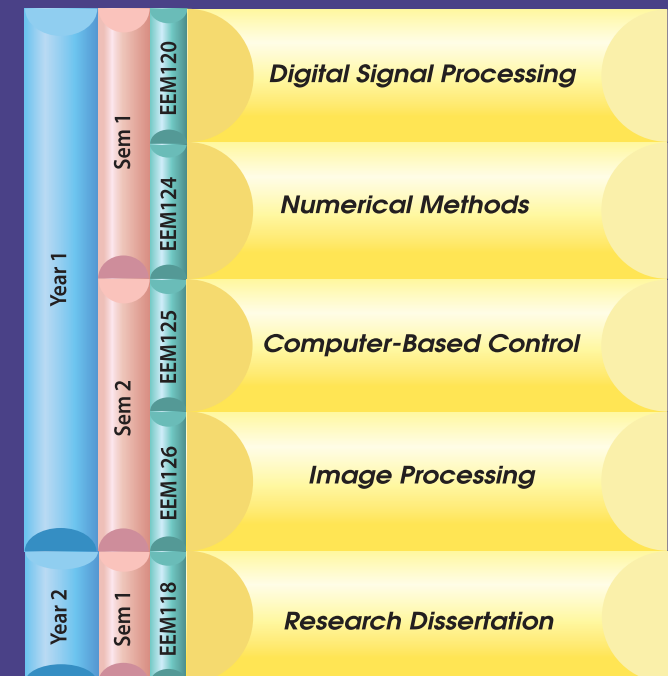
1. EEM120
2. EEM124
3. EEM125
4. EEM126
5. EEM118

Digital Signal Processing
Numerical Methods
Computer Based Control
Image Processing
Research Dissertation



Programme Structure

Duration : 1.5 years
Semesters : 3



Professional Progression

- Familiarisation of image processing techniques, control systems to support computer based systems, appropriate solutions to computer control systems, signal processing solutions and development and deployment of modules in FPGA environment.
- Graduates have the opportunity to embark on a career in the computer controlled systems industry.
- Research into signal processing, image processing, development of algorithms for specific applications allowing graduates to pursue their higher degree leading towards a PhD.

Career Prospects

Computer Systems Engineer, Control Systems Engineer, R & D Engineer, Embedded Systems Engineer

MSc Research Dissertations

To qualify for the award of the MSc, students must successfully complete a dissertation. The objective of the dissertation is to develop the students' ability to study independently, making their own critical appraisal of the chosen subject and drawing from this the appropriate conclusions.

Students will be required to demonstrate that the research undertaken has been completed to an appropriate level for a Masters award. The dissertation must therefore, in general terms, include elements of research, design, independent working, the derivation of a product (through laboratory testing, critical analysis or computer programming) and the analysis of data.

One or more members of the School of Electrical and Electronic Engineering and School of Computer Science and Information Technology in the software systems development area will supervise the dissertation work of each student. Students must undertake their research investigations in the Campus, unless work with an outside employer or authority is involved.

Prior to commencement of the dissertation, each student must submit to the Project Coordinator an outline proposal and methodology for the work. Guidelines on the content and presentation of your research proposal are provided.

Research dissertations must be completed in the teaching semester immediately after successfully completing all examinations and passing the taught modules.

Teaching Methods

Various teaching methods are employed in the programme, including lectures, tutorials, seminars and laboratory work. In a lecture period, a member of the academic staff or a visiting lecturer presents ideas or information to a large body of students. In a seminar, ideas are discussed by a group of students. The discussion is led by a member of staff or a nominated student and moderated by one or more members of staff. In a tutorial the students solve problems under the guidance of a member of staff with whom they can also discuss information presented in a previous lecture.

To enable students to derive maximum benefit from their period of attendance, lectures are designed to cover only essential subject matter, this being complemented by lecture hand-out notes. Considerable importance is attached to home assignments and a commitment to private study.

Students are recommended to plan their work in advance, where practicable a programme of work, requirements of home assignments, together with reading references and tutorial sheets are distributed at the beginning of each section of each module.



Master of Science in Computer Systems Engineering

LINTON UNIVERSITY COLLEGE
(KOLEJ UNIVERSITI LINTON)
KP/JPS (PA 11007) 05/15

(Software Systems)

Programme Outline

The general aim of the programme is to enable engineers to develop specialist expertise in the design and development of high integrity software suitable for the specification of critical systems. This will involve a comprehensive understanding of formal model-based development methods and the application of mathematical reasoning to interrogate a formal specification. The design and development of large heterogeneous software systems will be explored which will involve reliability and performance features of concurrency and distributed systems, and the management of software development projects. Concepts of artificial intelligence and mathematical modelling in the support and development of software systems will also be analysed. The programme is designed for students to develop a comprehensive systems software approach for applications which will provide an important contribution to the needs of the computer software industry.

Programme Objectives

1. Understand, apply and extend your subject expertise in computer systems in a range of engineering and technology based applications;
2. Exercise appropriate engineering judgment in decision making processes;
3. Systematically analyse engineering, software and other related problems;
4. Design and implement effective solutions;
5. Enhance the level of knowledge and understanding regarding computer systems, information technology and relevant engineering applications;
6. Plan and implement a major engineering and/or IT related project;
7. Write a critical evaluation report and defend the conclusions and work undertaken.

Entry Qualifications

1. BEng(Hons) in Electrical/Electronic Engineering, Computer Engineering and Computer Science in combination with Electronic Engineering, Physics, or an appropriate and related subject, with an award classification typically of (2:1) but of no less than a lower second class honours (2:2).
2. A degree qualification of a standard equivalent to (1) obtained after a course of full-time study extending over a period of not less than three years in a recognised university outside the UK.
3. Other equivalent qualifications recognized by Malaysian Government.

English Requirements

Applicants will also be required to meet the University standard for competence in English language and will be expected to hold GCE or equivalent grade C in English or a IELTS score of 6.0 or equivalent.

Intakes: September, February and May

Programme Modules

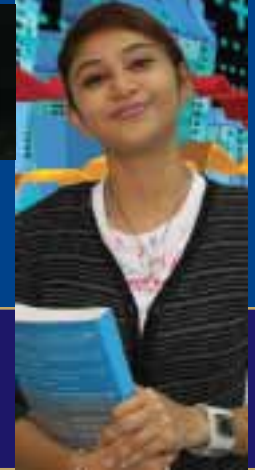
A selection of the following programme modules is offered in one and a half years subject to sufficient demand. Students have to choose from the available modules and the research dissertation, EEM118 must be successfully completed in order to achieve the award of MSc. Some modules may not be available at all stages of the programme.

Each module will be studied over a single semester of 14 weeks with a variety of teaching methods including lectures, tutorials, seminars and lab/practical work. Students are generally required to spend a further minimum period of independent study each week.

Modules:

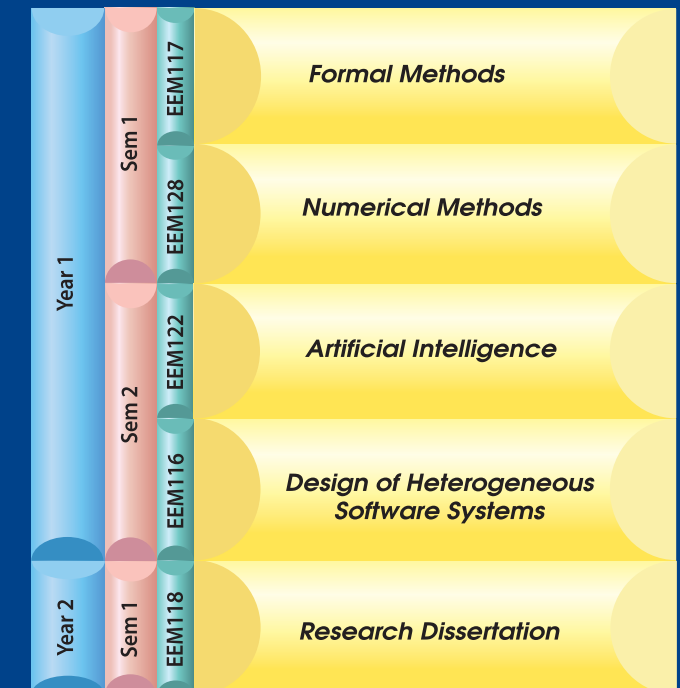
1. EEM117
2. EEM128
3. EEM122
4. EEM116
5. EEM118

Formal Methods
Numerical Methods
Artificial Intelligence
Design of Heterogeneous Software Systems
Research Dissertation



Programme Structure

Duration :1.5 years
Semester :3



Professional Progression

- Familiarisation of formal methods, computer based systems, systems analysis, software requirements to support systems, artificial intelligence and genetic algorithms, fuzzy logic based systems support.
- Graduates have the opportunity to embark on a career in the software development and support industry to provide appropriate solutions.
- Research into related fields such as generic algorithm solution, algorithms and software development and deployment for computer based communications systems, MIMO systems allowing graduates to pursue their higher degree leading towards a PhD.

Career Prospects

Software Engineer, Systems Analyst, Algorithm Development Engineer, Computing Software Developer, Computer Systems Engineer.

MSc Research Dissertations

To qualify for the award of the MSc, students must successfully complete a dissertation. The objective of the dissertation is to develop the students' ability to study independently, making their own critical appraisal of the chosen subject and drawing from this the appropriate conclusions.

Students will be required to demonstrate that the research undertaken has been completed to an appropriate level for a Masters award. The dissertation must therefore, in general terms, include elements of research, design, independent working, the derivation of a product (through laboratory testing, critical analysis or computer programming) and the analysis of data.

One or more members of the School of Electrical and Electronic Engineering and School of Computer Science and Information Technology in the software systems development area will supervise the dissertation work of each student. Students must undertake their research investigations in the Campus, unless work with an outside employer or authority is involved.

Prior to commencement of the dissertation, each student must submit to the Project Coordinator an outline proposal and methodology for the work. Guidelines on the content and presentation of your research proposal are provided.

Research dissertations must be completed in the teaching semester immediately after successfully completing all examinations and passing the taught modules.

Teaching Methods

Various teaching methods are employed in the programme, including lectures, tutorials, seminars and laboratory work. In a lecture period, a member of the academic staff or a visiting lecturer presents ideas or information to a large body of students. In a seminar, ideas are discussed by a group of students. The discussion is led by a member of staff or a nominated student and moderated by one or more members of staff. In a tutorial the students solve problems under the guidance of a member of staff with whom they can also discuss information presented in a previous lecture.

To enable students to derive maximum benefit from their period of attendance, lectures are designed to cover only essential subject matter, this being complemented by lecture hand-out notes. Considerable importance is attached to home assignments and a commitment to private study.

Students are recommended to plan their work in advance, where practicable a programme of work, requirements of home assignments, together with reading references and tutorial sheets are distributed at the beginning of each section of each module.



We Lead in Engineering, Built Environment and Technology Education

Legenda
Education Group

Master of Science in Computer Systems Engineering

LINTON UNIVERSITY COLLEGE
(KOLEJ UNIVERSITI LINTON)
KP/JPS (PA 11008) 05/15

(Integrated Systems)

Programme Outline

The general aim of the programme is to enable engineers to develop specialist expertise in the design and development of integrated and distributed systems by combining a number of smaller digital sub-systems into a larger and more powerful computer based system. The programme is designed to promote and engender a positive interest in current and future technologies and stimulate the development of a systems approach using software applications, artificial intelligence, computer communications and ASIC/ VLSI design methodologies. This will encourage and enthuse students to respond to developments in sub-systems design and integration through their studies and dissertation and allow them to contribute to future substantial engineering projects.

Programme Objectives

1. Understand, apply and extend your subject expertise in computer systems in a range of engineering and technology based applications;
2. Exercise appropriate engineering judgment in decision making processes;
3. Systematically analyse engineering, software and other related problems;
4. Design and implement effective solutions;
5. Enhance the level of knowledge and understanding regarding computer systems, information technology and relevant engineering applications;
6. Plan and implement a major engineering and/or IT related project;
7. Write a critical evaluation report and defend the conclusions and work undertaken;
8. Demonstrate an ability to study independently and effectively and convey technical information to others;
9. Develop interpersonal skills and be able to contribute and work effectively in a team environment.

Entry Qualifications

1. BEng(Hons) in Electrical/Electronic Engineering, Computer Engineering and Computer Science in combination with Electronic Engineering, Physics, or an appropriate and related subject, with an award classification typically of (2:1) but of no less than a lower second class honours (2:2).
2. A degree qualification of a standard equivalent to (1) obtained after a course of full-time study extending over a period of not less than three years in a recognised university outside the UK.
3. Other equivalent qualifications recognized by Malaysian Government.

English Requirements

Applicants will also be required to meet the University standard for competence in English language and will be expected to hold GCE or equivalent grade C in English or a IELTS score of 6.0 or equivalent.

Intakes: September, February and May

Programme Modules

A selection of the following programme modules is offered in one and a half years subject to sufficient demand. Students have to choose from the available programmes and the research dissertation, EEM118 must be successfully completed in order to achieve the award of MSc. Some modules may not be available at all stages of the programme.

Each module will be studied over a single semester of 14 weeks with a variety of teaching methods including lectures, tutorials, seminars and lab/practical work. Students are generally required to spend a further minimum period of independent study each week.

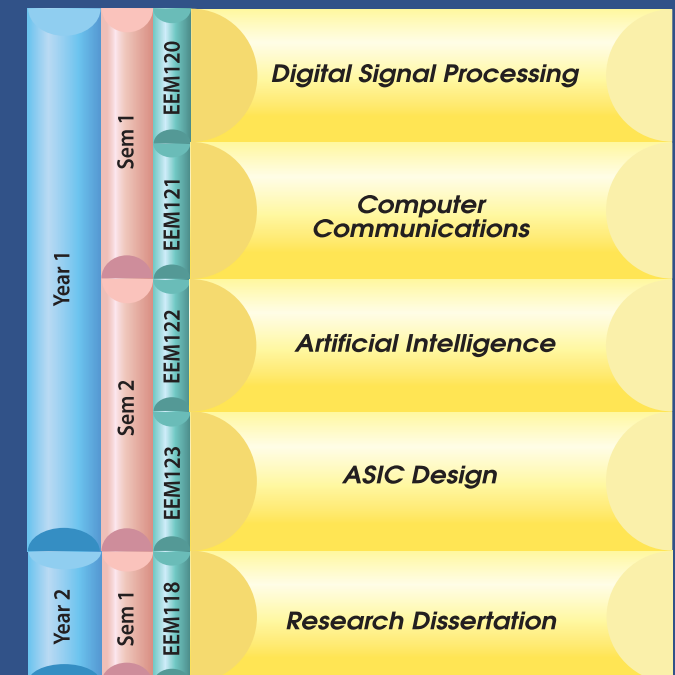
Modules:

1. EEM120
2. EEM121
3. EEM122
4. EEM123
5. EEM118

Digital Signal Processing
Computer Communications
Artificial Intelligence
ASIC Design
Research Dissertation



Programme Structure
Duration : 1.5 years
Semesters : 3



Professional Progression

- Familiarisation of current trends in semiconductor industry, VLSI, Verilog and VHDL based ASIC design, deployment of module in FPGA environment.
- Graduates have the opportunity to embark on a career in the microelectronics and semiconductor industry.
- Research into deep submicron integrated circuits, VHDL programming and deployment, VLSI, ASIC design and microelectronics allowing graduates to pursue their higher degree leading towards a PhD

Career Prospects

Computer Systems Engineer, ASIC Design Engineer, R & D Engineer, Embedded Systems Engineer, Algorithm Development Engineer.

MSc Research Dissertations

To qualify for the award of the MSc, students must successfully complete a dissertation. The objective of the dissertation is to develop the students' ability to study independently, making their own critical appraisal of the chosen subject and drawing from this the appropriate conclusions.

Students will be required to demonstrate that the research undertaken has been completed to an appropriate level for a Masters award. The dissertation must therefore, in general terms, include elements of research, design, independent working, the derivation of a product (through laboratory testing, critical analysis or computer programming) and the analysis of data.

One or more members of the School of Electrical and Electronic Engineering and School of Computer Science and Information Technology in the software systems development area will supervise the dissertation work of each student. Students must undertake their research investigations in the Campus, unless work with an outside employer or authority is involved.

Prior to commencement of the dissertation, each student must submit to the Project Coordinator an outline proposal and methodology for the work. Guidelines on the content and presentation of your research proposal are provided.

Research dissertations must be completed in the teaching semester immediately after successfully completing all examinations and passing the taught modules.

Teaching Methods

Various teaching methods are employed in the programme, including lectures, tutorials, seminars and laboratory work. In a lecture period, a member of the academic staff or a visiting lecturer presents ideas or information to a large body of students. In a seminar, ideas are discussed by a group of students. The discussion is led by a member of staff or a nominated student and moderated by one or more members of staff. In a tutorial the students solve problems under the guidance of a member of staff with whom they can also discuss information presented in a previous lecture.

To enable students to derive maximum benefit from their period of attendance, lectures are designed to cover only essential subject matter, this being complemented by lecture hand-out notes. Considerable importance is attached to home assignments and a commitment to private study.

Students are recommended to plan their work in advance, where practicable a programme of work, requirements of home assignments, together with reading references and tutorial sheets are distributed at the beginning of each section of each module.



Master of Science in Civil Engineering

LINTON UNIVERSITY COLLEGE
(KOLEJ UNIVERSITI LINTON)
KP/JPS (PA 11005) 05/15

Civil Engineering

Programme Outline

The general aim of the programme is to provide the opportunity for engineers to develop additional expertise to meet the demands of their profession. The programme intends to promote and engender a positive interest in current practice and through the dissertation an understanding of research methods. This is to encourage students to respond to changes and developments and allow them to contribute to future developments in built environment & infrastructure system.

Programme Objectives

1. To provide a depth of knowledge and understanding of the most up to date practices and theories in Civil Engineering;
2. To introduce the student to practical techniques for analysing and solving problems which may arise in various Civil Engineering projects;
3. To encourage students to think critically about current theories and practices, and their development;
4. To demonstrate to the student the interdependency of different factors which contribute to the solution of a Civil Engineering problem;
5. To contribute to the development of the engineer as an important professional in society and the built environment.

Entry Qualifications

1. BEng(Hons) in Civil Engineering with a class 2.2, or BSc(Hons) in Civil Engineering with class 2:1 or an appropriate and related subject, with an award classification typically of (2:1) but of no less than a lower second class honours (2:2).
2. A degree qualification of a standard equivalent to (1) obtained after a course of full-time study extending over a period of not less than three years in a recognised university outside the Malaysia.
3. Other equivalent qualifications recognized by Malaysian Government.

English Requirements

Applicants will also be required to meet the University standard for competence in English language and will be expected to hold GCSE or equivalent grade C in English or a IELTS score of 6.0 or equivalent.

Intakes: September, February and May

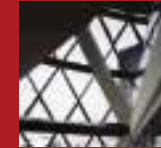
Programme Modules

A selection of the following programme modules is offered in one and a half years subject to sufficient demand. Students have to choose from the available modules and the research dissertation, CEM011 must be successfully completed in order to achieve the award of MSc. Some modules may not be available at all stages of the programme.

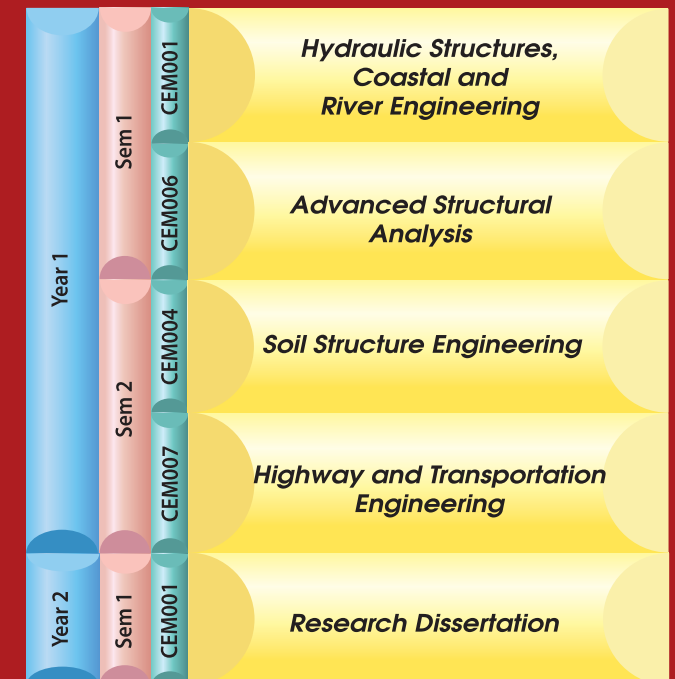
Each module will be studied over a single semester of 14 weeks with a variety of teaching methods including lectures, tutorials, seminars and lab/practical work. Students are generally required to spend a further minimum period of independent study each week.

Modules:

- | | |
|-----------|---|
| 1. CEM001 | Hydraulic Structures, Coastal and River Engineering |
| 2. CEM004 | Soil Structure Engineering |
| 3. CEM006 | Advanced Structural Analysis |
| 4. CEM007 | Highway and Transportation Engineering |
| 5. CEM011 | Research Dissertation |



Programme Structure
Duration : 1.5 years
Semester : 3



Professional Progression

- Graduates get familiarised with the recent and updated technology in fields of Hydraulics, Structural Engineering Highway Engineering and Geotechnical Engineering and provide valuable information in the required field.
- Greater opportunity to prove their knowledge in Design Industry and Highway Industry.
- Provide base for research in various fields in the core of study such as FEM, ITS, GIS and GPS and so on.

Career Prospects

Structural Engineer, Highway and Transportation Engineer, Water Resource Engineer, Geotechnical Engineer and R & D Engineer

MSc Research Dissertations

To qualify for the award of the MSc, students must successfully complete a dissertation. The objective of the dissertation is to develop the students' ability to study independently, making their own critical appraisal of the chosen subject and drawing from this the appropriate conclusions.

Students will be required to demonstrate that the research undertaken has been completed to an appropriate level for a Masters award. The dissertation must therefore, in general terms, include elements of research, design, independent working, the derivation of a product (through laboratory testing, critical analysis or computer programming) and the analysis of data.

One or more members of the School of Civil Engineering in their related fields will supervise the dissertation work of each student. Students must undertake their research investigations in the Campus, unless work with an outside employer or authority is involved.

Prior to commencement of the dissertation, each student must submit to the Project Coordinator an outline proposal and methodology for the work. Guidelines on the content and presentation of your research proposal are provided.

Research dissertations must be completed in the teaching semester immediately after successfully completing all examinations and passing the taught modules.

Teaching Methods

Various teaching methods are employed in the programme, including lectures, tutorials, seminars and laboratory work. In a lecture period, a member of the academic staff or a visiting lecturer presents ideas or information to a large body of students. In a seminar, ideas are discussed by a group of students. The discussion is led by a member of staff or a nominated student and moderated by one or more members of staff. In a tutorial the students solve problems under the guidance of a member of staff with whom they can also discuss information presented in a previous lecture.

To enable students to derive maximum benefit from their period of attendance, lectures are designed to cover only essential subject matter, this being complemented by lecture hand-out notes. Considerable importance is attached to home assignments and a commitment to private study.

Students are recommended to plan their work in advance, where practicable a programme of work, requirements of home assignments, together with reading references and tutorial sheets are distributed at the beginning of each section of each module.



We Lead in Engineering, Built Environment and Technology Education

Master of Science in Business Information Systems

LINTON UNIVERSITY COLLEGE
(KOLEJ UNIVERSITI LINTON)
KP/JPS (PA 11003) 05/15

Business Information Systems

Programme Outline

The general aim of the programme is to provide the opportunity for professionals to develop additional expertise to meet the demands of their profession. The programme intends to promote and engender a positive interest in current practice and through the dissertation an understanding of research methods. This is to encourage students to respond to changes and developments and allow them to contribute to future developments.

Programme Objectives

1. Expand your knowledge with a balance of theory and advanced practical skills;
2. Gain experiences to enable you to develop a sound knowledge and analytical ability;
3. Enhance your intellectual and professional development;
4. Provide the opportunity for future employment at a senior level

Entry Qualifications

1. B.Sc. (Hons) with class 2.2 in Computer Science and Information Technology, Computing or Science or in any other related field.
2. An equivalent degree qualification in Computer Science or Information Technology and Computing field or in any other related field of a standard equivalent to that stated above after a programme of full-time study extending over a period of not less than three years in a recognised university outside Malaysia.
3. Applicants having other qualifications and/or exceptional experience will be considered if they procure a satisfactory outcome of determination of the Assessment of Prior Experiential Learning (APEL) selection.
4. Other equivalent qualifications recognized by Malaysian Government.

English Requirements

Applicants will also be required to meet the University standard for competence in English language and will be expected to hold GCSE or equivalent grade C in English or a IELTS score of 6.0 or equivalent.

Intakes: September, February and May

Programme Modules

A selection of the following programme modules is offered in one and a half years subject to sufficient demand. Students have to choose from the available modules and the dissertation, CNM015 must be successfully completed in order to achieve the award of MSc. Some modules may not be available at all stages of the programme.

Each module will be studied over a single semester of 14 weeks with a variety of teaching methods including lectures, tutorials, seminars and lab/practical work. Students are generally required to spend a further minimum period of independent study each week.

Modules:

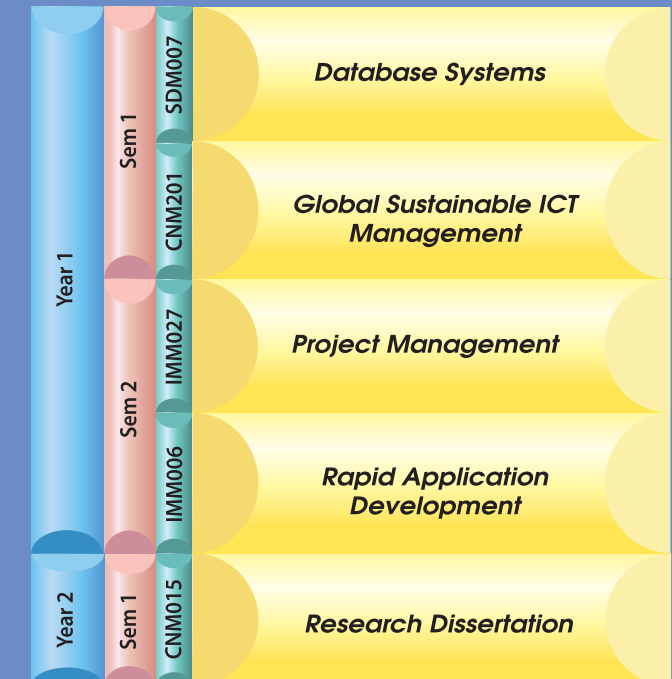
1. SDM007 Database Systems
2. CNM201 Global Sustainable ICT Management
3. IMM027 Project Management
4. IMM006 Rapid Application
5. CNM015 Research Dissertation



Programme Structure

Duration : 1.5 years

Semesters : 3



Professional Progression

- Information systems play an important role in the design, control, support, and improvement of business processes. IT enables new business processes and the operational of business processes in an organization.
- Research into related fields such as Information system, decision support systems and system analysis, allowing graduates to pursue their higher degree leading towards a PhD.
- Organizations that heavily depend on business information systems are multinationals, banks, insurance companies, governments, hospitals, travel agencies and web shops

Career Prospects

IT Project Leader, Top Management in MIS, Systems Analyst, IT Consultant, IT Officer, MIS Officer, Computing Software Developer.

MSc Research Dissertations

To qualify for the award of the MSc, students must successfully complete a dissertation. The objective of the dissertation is to develop the students' ability to study independently, making their own critical appraisal of the chosen subject and drawing from this the appropriate conclusions.

Students will be required to demonstrate that the research undertaken has been completed to an appropriate level for a Masters award. The dissertation must therefore, in general terms, include elements of research, design, independent working, the derivation of a product (through laboratory testing, critical analysis or computer programming) and the analysis of data.

One or more members of the School of Computer Science and Information Technology in the management information system area will supervise the dissertation work of each student. Students must undertake their research investigations in the Campus, unless work with an outside employer or authority is involved.

Prior to commencement of the dissertation, each student must submit to the Project Coordinator an outline proposal and methodology for the work. Guidelines on the content and presentation of your research proposal are provided.

Dissertations must be completed in the teaching semester immediately after successfully completing all examinations and passing the taught modules.

Teaching Methods

Various teaching methods are employed in the programme, including lectures, tutorials, seminars and laboratory work. In a lecture period, a member of the academic staff or a visiting lecturer presents ideas or information to a large body of students. In a seminar, ideas are discussed by a group of students. The discussion is led by a member of staff or a nominated student and moderated by one or more members of staff. In a tutorial the students solve problems under the guidance of a member of staff with whom they can also discuss information presented in a previous lecture.

To enable students to derive maximum benefit from their period of attendance, lectures are designed to cover only essential subject matter, this being complemented by lecture hand-out notes. Considerable importance is attached to home assignments and a commitment to private study.

Students are recommended to plan their work in advance, where practicable a programme of work, requirements of home assignments, together with reading references and tutorial sheets are distributed at the beginning of each section of each module.



Master of Science in Mobile Communications

LINTON UNIVERSITY COLLEGE
(KOLEJ UNIVERSITI LINTON)
KP/JPS (PA 11004) 05/15

Mobile Communications

Programme Outline

The general aim of the programme is to provide the opportunity for graduate scientists/engineers and computer scientists to develop expertise to meet the increasing demands of the new technologies in mobile communications and networks. The programme intends to promote and engender a positive interest in current practice and through the dissertation an understanding of research methods. This is to encourage students to respond to changes and developments and allow them to contribute to future developments in the mobile communication industry.

Programme Objectives

1. Understand, apply and extend your subject expertise in mobile communications and networks in a range of engineering and technology based applications;
2. Exercise appropriate engineering judgment in decision making processes;
3. Systematically analyse a range of communication, networks, radio frequency and microwave engineering related problems;
4. Design and implement effective solutions;
5. Enhance the level of knowledge and understanding regarding communication systems networks and their relevance in a range of engineering and communication applications;
6. Plan and implement a major communications related project;
7. Write a critical evaluation report and defend the conclusions and work undertaken;
8. Demonstrate an ability to study independently and effectively and convey technical information to others;
9. Develop interpersonal skills and be able to contribute and work effectively in a team environment.

Entry Qualifications

1. BEng(Hons) in Electrical/Electronic Engineering, Telecommunication Engineering, Computer Engineering and Computer Science in combination with Electronic Engineering, Physics, or an appropriate and related subject, with an award classification typically of (2:1) but of no less than a lower second class honours (2:2).
2. A degree qualification of a standard equivalent to (1) obtained after a course of full-time study extending over a period of not less than three years in a recognised university outside the UK.
3. Other equivalent qualifications recognized by Malaysian Government.

English Requirements

Applicants will also be required to meet the University standard for competence in English language and will be expected to hold GCE or equivalent grade C in English or a IELTS score of 6.0 or equivalent.

Intakes: September, February and May

Programme Modules

A selection of the following programme modules is offered in one and a half years subject to sufficient demand. Students have to choose from the available modules and the research dissertation. EEM118 must be successfully completed in order to achieve the award of MSc. Some modules may not be available at all stages of the programme.

Each module will be studied over a single semester of 14 weeks with a variety of teaching methods including lectures, tutorials, seminars and lab/practical work. Students are generally required to spend a further minimum period of independent study each week.

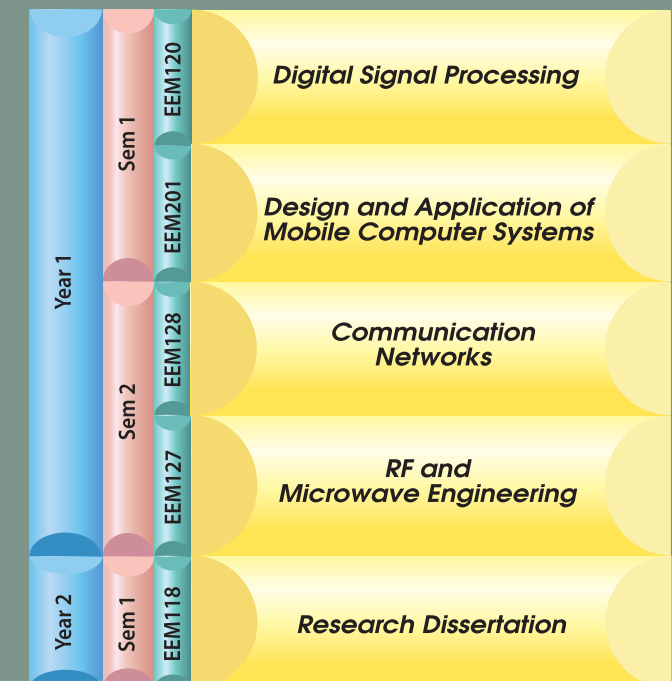
Modules:

1. EEM120
2. CNM201
3. EEM128
4. EEM127
5. EEM118

Digital Signal Processing
Design and Application of Mobile
Computer Systems
Communication Networks
RF and Microwave Engineering
Research Dissertation



Programme Structure
Duration : 1.5 years
Semesters : 3



Professional Progression

- Familiarisation of 3G mobile communications, Wi-fi, Wi-Max and introduction to 4G, antenna design and RF circuits.
- Graduates will be equipped with the appropriate technical skills.
- Graduates have the opportunity to embark on a career in the telecommunications industry.
- Research into mobile communications, antenna design, MIMO OFDM systems allowing graduates to pursue their higher degree leading towards a PhD

Career Prospects

RF Engineer, Mobile Computing Developer, Communication Engineer, Telecommunication Engineer, Mobile Communication Engineer, Wireless Communication Engineer, RF Design Engineer

MSc Research Dissertations

To qualify for the award of the MSc, students must successfully complete a dissertation. The objective of the dissertation is to develop the students' ability to study independently, making their own critical appraisal of the chosen subject and drawing from this the appropriate conclusions.

Students will be required to demonstrate that the research undertaken has been completed to an appropriate level for a Masters award. The dissertation must therefore, in general terms, include elements of research, design, independent working, the derivation of a product (through laboratory testing, critical analysis or computer programming) and the analysis of data.

One or more members of the School of Electrical and Electronic Engineering in the Telecommunication area will supervise the dissertation work of each student. Students must undertake their research investigations in the Campus, unless work with an outside employer or authority is involved.

Prior to commencement of the dissertation, each student must submit to the Project Coordinator an outline proposal and methodology for the work. Guidelines on the content and presentation of your research proposal are provided.

Research dissertations must be completed in the teaching semester immediately after successfully completing all examinations and passing the taught modules.

Teaching Methods

Various teaching methods are employed in the programme, including lectures, tutorials, seminars and laboratory work. In a lecture period, a member of the academic staff or a visiting lecturer presents ideas or information to a large body of students. In a seminar, ideas are discussed by a group of students. The discussion is led by a member of staff or a nominated student and moderated by one or more members of staff. In a tutorial the students solve problems under the guidance of a member of staff with whom they can also discuss information presented in a previous lecture.

To enable students to derive maximum benefit from their period of attendance, lectures are designed to cover only essential subject matter, this being complemented by lecture hand-out notes. Considerable importance is attached to home assignments and a commitment to private study.

Students are recommended to plan their work in advance, where practicable a programme of work, requirements of home assignments, together with reading references and tutorial sheets are distributed at the beginning of each section of each module.



Legenda
Education Group

COMMUNICATION
SYSTEMS

We Lead in Engineering, Built Environment and Technology Education



MASTER DEGREE

PROGRAMMES



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