STUDENT’S PROFILE

Name: __________________________
Student ID: _______________________
Programme: _______________________
Address in Campus: _______________________

Permanent Address: _______________________

HP No: __________________________
E-mail: __________________________

In case of emergency, please contact:
Name: __________________________
Contact No: _______________________
Relationship with student: _______________________

Academic Advisor’s information

Name: __________________________
Contact No: _______________________
E-mail: __________________________
Office Room: _______________________
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On behalf of the Faculty, it is my pleasure to welcome you to the Faculty of Computer Science and Technology (FoCuSIT) and become a member of our big family. The acronym FoCuSIT stands for "Focus on Individual Transformation". It represents our focus on the holistic development of individuals for all who come into our FoCuSIT family. We are thus committed towards producing highly marketable and competent workforce in line with the aspirations of the nation.

The Faculty has adopted a 4-year programme of study in-line with the International ACM/IEEE Computing Curricula, and is in compliance with the Code of Practice of the Malaysian Qualification Framework. The programme provides the required knowledge, skills, and exposure and project experience for our Students.

The Faculty has adopted a 4-year programme of study in-line with the International ACM/IEEE Computing Curricula, and is in compliance with the Code of Practice of the Malaysian Qualification Framework. The programme provides the required knowledge, skills, and exposure and project experience for our Students. The Faculty currently has five Multimedia Super-corridor (MSC) certified programmes of study in the areas of Software Engineering, Network Computing, Multimedia Computing, Information Systems and Computational Science. To ensure that students are exposed to the practice and environment of the real working world, there is a 6 months Industrial Training program whereby they will be attached to organization and company and undertake real working project during that period. Apart from the academic endeavor, we put equal emphasize on students soft skills through various activities and embedded within the curricula as well. This is to ensure that the graduates that we produce are not just academically excellent, but also have a good personality, and to be a good citizen.

I believe that one of the criteria when you were looking for program of study for your degree is employability upon graduation. Currently, we live in a world whereby ICT (Information and Communication Technologies) is part and parcel of our daily life. Thus, ICT is one of the field which is in high demand in various sectors of the economy. We are proud that majority of our graduates for the past few years have been able to find employment within 6 months of completion of their study. Our current average for graduate employability is approximately
80% for the past 5 years. This shows that our academic programs are of high quality and we produce graduates whom are sought after by the industry. The Faculty has adopted a 4-year programme of study in-line with the International ACM/IEEE Computing Curricula, and is in compliance with the Code of Practice of the Malaysian Qualification Framework. The programme provides the required knowledge, skills, and exposure and project experience for our Students. The Faculty currently has five Multimedia Super-corridor (MSC) certified programmes of study in the areas of Software Engineering, Network Computing, Multimedia Computing, Information Systems and Computational Science. To ensure that students are exposed to the practice and environment of the real working world, there is a 6 months Industrial Training program whereby they will be attached to organization and company and undertake real working project during that period. Apart from the academic endeavor, we put equal emphasize on students soft skills through various activities and embedded within the curricula as well. This is to ensure that the graduates that we produce are not just academically excellent, but also have a good personality, and to be a good citizen.

Furthermore, the state of Sarawak has launched its Digital Economy initiative in 2018 whereby the Chief Minister of Sarawak has stated that ICT and Digital Economy will be the main focus and driver for economic growth to become a high income state by 2030. This means more job opportunity in Sarawak, Malaysia, and all over the world for Computer Science and ICT graduates for years to come. Conclusion, it’s the right time to choose Computer Science as your field of study and probably the best decision to join us due to its ever increasing demand from the industry.

Our infrastructure and facilities have been constantly upgraded over the years, and now having over 28 laboratories for teaching-learning and research activities. Our computer labs are equipped with ICT facilities to support teaching/learning activities. This combined with our dynamic and well qualified academics together with a conducive teaching learning environment, makes the Faculty an ideal place to study and to build your personal soft skill.

More importantly, on behalf of all Faculty members, we will do our very best, to provide you with the best learning environment, guide you through your study at the Faculty, and strive together to achieve excellence in all aspects. Your journey will be challenging, but all of us here at the faculty will give our best to guide, and support all of you throughout your journey here at FCSIT.

I hope that you will make the most of your study experience in the Faculty and do your best to realize your true potential.

"The journey of a thousand miles begins with one step"
- Lao Tzu -

Associate Professor Dr. Johari bin Abdullah
Dean
Faculty of Computer Science and Information Technology
UNIVERSITI MALAYSIA SARAWAK is the Malaysia’s eighth university, officially incorporated on 24th December 1992. It is the first public university to be established in the state of Sarawak. The campus is located at Kota Samarahan, about 25km from the city of Kuching, the capital city of Sarawak.

The University opened its doors to the first batch of 118 students on 8th August 1994 with only 30 academics. The students were registered in the two pioneering faculties, the Faculty of Social Science and the Faculty of Resource Science and Technology. Two academic support centres were also established, the Centre for Applied Learning and Multimedia, and the Centre for Academic Information Services.

The year 1994 saw four more faculties opening their doors for degree courses: the Faculty of Cognitive Sciences and Human Development, the Faculty of Applied and Creative Arts, the Faculty of Engineering, and the Faculty of Information Technology.

The period between January 1995 and December 1996 saw further consolidation in the academic and research structure of the university. Two more faculties were established, the Faculty of Medicine and Health Sciences (1995) and the Faculty of Economics and Business (1996).

In 2016, the Centre for Language & Communication Studies is upgraded to Faculty of Language Studies and Communication Studies. These made the total of nine faculties in UNIMAS.

The historic year of 1997 witnessed the pioneering batch of graduates receiving their degrees at the inaugural convocation of the University. The year also saw the establishment of the Institute of East Asian Studies.

VISION
To become an exemplary university of internationally acknowledged stature and a scholarly institution of choice for both students and academics through the pursuit of excellence in teaching, research and scholarship.

MISSION
To generate, disseminate and apply knowledge strategically and innovatively to enhance the quality of the nation’s culture and prosperity of its people.
UNIMAS EXECUTIVE COMMITTEE

YBhg Prof Dato’ Dr Mohamad Kadim Suaidi
Vice-Chancellor

YBhg Prof Mohd Fadzil Abdul Rahman
Deputy Vice Chancellor (Student Affairs & Alumni)

YBhg Prof Dr Wan Hashim Wan Ibrahim
Deputy Vice Chancellor (Research & Innovation)

YBrs. Prof. Dr. Ahmad Hata Rasit
Deputy Vice Chancellor (Academic & International)

Mr Henry Tening Ak Sengeng
Registrar

Tuan Haji Mazlan Kiflie
Bursar

Mdm Korina Ibrahim
Director of Centre for Academic Information Services

Encik Humphrey Rayang Janang
Director of Development

Tuan Haji Azlan Ramli
Director of Chancellery and International Relations Office (UNIMAS Global)

Prof. Dr Chen Chwen Jen
Dean, Centre for Applied Learning and Multimedia

Prof. Dr Siti Raudzah Ghazali
Dean, Centre for Student Development

Mr Harun Maksom
Director of Centre for Information Technology Development and Services

Mdm Mavis Goh
Legal Officer

Mr Nasriman bin Abdul Rahman
Deputy Registrar

Mr Mohd Husaini b Noorjaya Chew
Executive Officer to the Vice Chancellor
FACULTIES, CENTRES, DIVISIONS & INSTITUTES

**FACULTIES**
- Faculty of Applied and Creative Arts
- Faculty of Cognitive Sciences and Human Development
- Faculty of Computer Science and Information Technology
- Faculty of Economics and Business
- Faculty of Engineering
- Faculty of Language and Communication
- Faculty of Medicine and Health Sciences
- Faculty of Resource Science and Technology
- Faculty of Social Sciences and Humanities
- Faculty of Built Environment

**CENTRES**
- Centre for Student Services
- Research Innovation & Enterprise Centre
- Centre for Applied Learning & Multimedia
- Centre for Student Development
- Centre for Pre University Studies
- Centre for Graduate Studies
- Centre for Entrepreneurship Development
- Centre for Academic Information Services
- Centre for Information Technology Development and Services
- Tun Abang Salahuddin Islamic Centre
- Strategic Planning, Quality and Risk Management Centre
- Centre for Quality Assurance and Academic Development

**DIVISIONS**
- UNIMAS Publisher
- Development Office
- Undergraduate Studies Division
- Human Capital Development Division
- Human Resource Management Division General Administration Division
- Security Division
- Policy & Integrity Division
- International Affairs Division
- Chancellery and International Relations Office
- Endowment and Waqaf Division

**INSTITUTES**
- Biodiversity and Environmental Conservation Health and Community Medicine
- Borneo Studies
- Creative Art and Technology
- Social Informatics and Technological Innovation
MY FACULTY

FACULTY OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY was established in November 1993.

During its early years, the Faculty was known as the Faculty of Information Technology. In 2003, the Faculty was renamed the Faculty of Computer Science and Information Technology. The change of the name was done due the rapid development in computer technologies and the importance of science and technology education.

Thus, the title of its bachelor degree was changed from Bachelor of Information Technology to Bachelor of Computer Science.

Later that year, on the 17th November 2003, the Faculty was awarded the Multimedia Super Corridor (MSC) status.

This award showed that the Faculty has been able to provide excellent education and training, not just to the students but also to the general public through its innovative and up-to-date programmes.

To achieve the vision and mission, the Faculty has the following objectives:

- To contribute to the direction and future advancement of the national profile in global competition and the dependency increase on technology.
- To create unique characteristics, that enables the faculty and the university to be known as the leader in idea development and as a model to be emulated by others.
- To educate individuals, staff and students to become members of the society who are autonomous, responsible and cooperative as well as having the ability to face any future challenge.
- To display excellent academic quality and relevance in academia programme that will enable students to meet criteria required by future employers.
- To spearhead innovative development and technology-based learning practice.
- To gain excellent research reputation in specialized areas.
- To extend innovative applications of modern information technology by providing services to the community.

VISION
To be the centre of excellence, internationally acknowledged in the field of computer science and information technology.

MISSION
To become a centre of excellence, acknowledged for its innovative and contemporary education programme, dynamic research and professional services.
The Faculty building is divided into two blocks, called “Block A” and “Block B”, respectively. Each block has a height of five floors. The lower ground floor is referred as “Level LG”, the ground floor as “Level G”, the first floor as “Level 1”, the second floor as “Level 2”, and the third floor as “Level 3”.

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<th>Undergraduate Students</th>
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<tr>
<td>Year 1</td>
<td>288</td>
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<tr>
<td>Year 2</td>
<td>320</td>
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<tr>
<td>Year 3</td>
<td>340</td>
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<tr>
<td>Year 4</td>
<td>376</td>
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<tr>
<td>Others</td>
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<td><strong>Total</strong></td>
<td><strong>1,501</strong></td>
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<th>Staff Distribution</th>
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<td>Active Academic Staff</td>
<td>65</td>
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<tr>
<td>Academic Staff on Study</td>
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<td>Leave</td>
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<td><strong>Total</strong></td>
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<table>
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<th>Postgraduate Students</th>
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<td>Ph.D.</td>
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<td>MAIT</td>
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<td>Master by Research</td>
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<td><strong>Total</strong></td>
<td><strong>107</strong></td>
</tr>
</tbody>
</table>

***As recorded as 9th August 2019***
FACULTY MANAGEMENT

Dean
Assoc. Prof. Dr. Johari bin Abdullah

Deputy Dean
Undergraduate
Assoc. Prof. Dr. Kartinah binti Zen

Deputy Dean
Postgraduate & Research
Dr. Chiew Kang Leng

Deputy Dean
Industry & Community Engagement & Commercialization
Dr. Sze San Nah

Deputy Dean
Students Affairs & Alumni
Dr. Helikul bin Lenando

Programme Coordinator
Multimedia Computing
Assoc. Prof. Dr. Noor Alamshah bin Bolhassan

Programme Coordinator
Software Engineering
Dr. Yanti Rosmunie binti Bujang

Programme Coordinator
Network Computing
Seleviawati binti Tarmizi

Programme Coordinator
Computational Science
Dr. Tiong Wei King

Programme Coordinator
Information Systems
Dr. Fatihah binti Ramli
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<table>
<thead>
<tr>
<th>Name</th>
<th>Degree and Institution</th>
<th>Contact Information</th>
<th>Location</th>
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<tr>
<td>Inson binti Din</td>
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<td>Phone: +6082-583638</td>
<td>Block B, Level 1: 1C</td>
</tr>
<tr>
<td>Jonathan Sidi</td>
<td>Master (Interactive Multimedia), University of Technology Sydney, Australia</td>
<td>Phone: +6082-583808</td>
<td>Block B, Tingkat 3: 3Q</td>
</tr>
<tr>
<td>Nurfauza binti Jali</td>
<td>MSc (Real-Time Software Engineering), Universiti Teknologi Malaysia</td>
<td>Phone: +6082-583814</td>
<td>Block B, Level 3: 3I</td>
</tr>
<tr>
<td>Dr. Phang Piau</td>
<td>PhD (Mathematics and Statistics), Curtin University, Australia</td>
<td>Phone: +6082-583739</td>
<td>Block B, Level 2: 2W</td>
</tr>
<tr>
<td>Dr. Suhaila binti Saee</td>
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<td>Phone: +6082-583712</td>
<td>Block B, Level 2: 2A</td>
</tr>
<tr>
<td>Dr. Suriati Khartini Binti Jali</td>
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<td>Phone: +6082-582647</td>
<td>New Academic Building: Room 44, GF</td>
</tr>
<tr>
<td>Dr. Noralifah binti Annuar</td>
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<td>Phone: +6082-584588</td>
<td>New Academic Building: Room 51, Level 2, CUBE</td>
</tr>
</tbody>
</table>
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ACADEMIC AFFAIRS & REGULATIONS

Academic Regulations
All registered Undergraduate Students are bound by the University’s Academic Regulations of Undergraduate Studies. Students must know, understand and adhere to the stated regulations.

Academic Ethics
As defined by UNIMAS Academic Regulations

<table>
<thead>
<tr>
<th>Academic Offences</th>
<th>Academic Offences</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic Punishment</td>
<td>The punishment imposed on students by the Jawatankuasa Tatatertib [Akademik] (Disciplinary Committee [Academic]) for academic offense.</td>
</tr>
<tr>
<td>Plagiarism</td>
<td>Plagiarism is the representation of work which has been copied in whole or in part from another person’s work, or from any other source such as the Internet and other published materials, without due acknowledgements given in the text.</td>
</tr>
<tr>
<td>Collusion</td>
<td>Collusion is the presentation of work that is the result in whole or in part of unauthorized collaboration with another person(s).</td>
</tr>
<tr>
<td>Cheating</td>
<td>To cheat or attempting to cheat or behave in a manner that can be construed as cheating, or attempting to cheat in an examination, during the examination.</td>
</tr>
</tbody>
</table>

Academic Session
ONE (1) University Academic Year consists of TWO (2) semesters, and ONE (1) Intersession. This is also known as an academic session. For the weekly breakdown of each semester, please refer to the Academic Calendar for Undergraduate Studies.

Duration of Study
The duration of study for a Bachelor’s programme is 4 years.
Credit Requirements

<table>
<thead>
<tr>
<th>Course Types</th>
<th>Codes</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Generic Courses</td>
<td>MPU, PPD, PBI</td>
<td>17</td>
</tr>
<tr>
<td>Faculty Core Course</td>
<td>TMF</td>
<td>49</td>
</tr>
<tr>
<td>Programme Core Course</td>
<td>TMS – for WC00</td>
<td>37</td>
</tr>
<tr>
<td></td>
<td>TME – for WC10</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TMI – for WC03</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TMT – for WC09</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TMN – for WC11</td>
<td></td>
</tr>
<tr>
<td>Elective from other faculty</td>
<td>Refer list of elective courses</td>
<td>9</td>
</tr>
<tr>
<td>Industrial Training</td>
<td>TMF39412</td>
<td>12</td>
</tr>
<tr>
<td>Final Year Project 1 &amp; 2</td>
<td>TMF4913</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>TMF4935</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>132</td>
</tr>
</tbody>
</table>

Assessment Information
The aim of assessment is to guide Students’ learning to the stated learning outcomes of the courses. This is done by ensuring that expected learning takes place within the courses. Course level learning outcomes describe the level of learning expected in the course, and are assessed by strategies appropriate to that level of learning and the environment provided by the course. Thus, programme outcomes will be achieved by progressively meeting appropriate levels of knowledge, skills and understanding during the years of study. Examples of assessment methods are assignments, project presentations and reports, written examinations, and practical tests, all of which may require varying combinations of individual and group contributions. Final grades given to the student at the end of the course will be determined by the Faculty Examination Board Committee, and will be endorsed by the University Senate.
Academic Support System: e-LEAP

e-LEAP (http://elearn.unimas.my) is the official online learning system of UNIMAS. It has a number of features and activities designed to engage learners and promote collaborative, student-centered learning. e-LEAP provides full authority to Lecturers of the University to manage and conduct online activities that would enhance Student’s learning experience. Only registered Students are allowed to participate in courses offered by UNIMAS through e-LEAP.

Course Enrolment Information
It is the Student’s responsibility to enrol in the correct courses each semester. Registration is done online via e-Course Registration. Registration or withdrawing from a course must be done prior to certain dates to prevent academic and/or financial penalties. It is also the responsibility of the Student to take note of the registration deadlines. Certain courses require Students to enrol for laboratory or tutorial sessions. Students are advised to select sessions that suit their course schedules. If there are any clashes, the Student must consult the course Lecturer to resolve the matter.

Grades and Grade Points
The grades below are applicable to Students 2015/2016 Academic Session onwards.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Marks Range</th>
<th>Grade Points</th>
<th>Performance Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>80-100</td>
<td>4.00</td>
<td>Excellent</td>
</tr>
<tr>
<td>A-</td>
<td>75-79</td>
<td>3.67</td>
<td></td>
</tr>
<tr>
<td>B+</td>
<td>70-74</td>
<td>3.33</td>
<td>Credit</td>
</tr>
<tr>
<td>B</td>
<td>65-69</td>
<td>3.00</td>
<td></td>
</tr>
<tr>
<td>B-</td>
<td>60-64</td>
<td>2.67</td>
<td></td>
</tr>
<tr>
<td>C+</td>
<td>55-59</td>
<td>2.33</td>
<td>Pass</td>
</tr>
<tr>
<td>C</td>
<td>50-54</td>
<td>2.00</td>
<td></td>
</tr>
<tr>
<td>C-</td>
<td>45-49</td>
<td>1.67</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>40-44</td>
<td>1.00</td>
<td>Fail</td>
</tr>
<tr>
<td>F</td>
<td>&lt;40</td>
<td>0.00</td>
<td></td>
</tr>
</tbody>
</table>
Grade Classification
Course evaluation without grades can be given the following codes:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>KBn</td>
<td>Kursus Baiki Improved Course</td>
<td>Given to courses which have been re-taken for the purpose of grade improvement. The ( n ) indicates the number of times the course has been taken for grade improvement.</td>
</tr>
<tr>
<td>KK</td>
<td>Kes Gangguan Kesihatan Health Disturbances</td>
<td>Given to a student who needs to terminate study in a specific semester on the basis of health disturbance based on medical report approved by the University.</td>
</tr>
<tr>
<td>KT</td>
<td>Kursus Tambahan Additional Course</td>
<td>Given to courses taken by a student in addition to the compulsory courses.</td>
</tr>
<tr>
<td>L</td>
<td>Lulus Pass</td>
<td>Given to specific courses in which the results are not graded but given the Pass (L) status only. The credit is taken into account for graduation purposes except credits for Reinforcement Courses.</td>
</tr>
<tr>
<td>PK</td>
<td>Pindah Kredit Credit transfer</td>
<td>Given to courses which have been approved for credit transfer by the Dean of Faculty.</td>
</tr>
<tr>
<td>Rn</td>
<td>Kursus Ulangan Repeated Course</td>
<td>This code is stated on the semester examination slip for course which has been repeated after failing in the earlier attempt. Only the latest credits and grade points for the Repeated Course are taken into account in the calculation of GPA and CGPA. The ( n ) indicates the number of times the course has been repeated.</td>
</tr>
<tr>
<td>TD</td>
<td>Tarik Diri Withdraw</td>
<td>Given to a student who has been approved to stop voluntarily from continuing study at UNIMAS.</td>
</tr>
<tr>
<td>TL</td>
<td>Tidak Lengkap Incomplete</td>
<td>Given with Faculty’s approval to a student who has completed at least 70% of the course requirements based on acceptable reasons.</td>
</tr>
</tbody>
</table>
Evaluation Results
UNIMAS is using GPA and CGPA as to measure the students grade. Students must know how to calculate their CGPA and GPA:

**GPA**
Grade Point Average

The performance of a student for a specific semester

**CGPA**
Cumulative Grade Point Average

The overall performance of a student for all semesters

---

**How to calculate your GPA?**

**How to calculate your CGPA?**

**How to achieve your target CGPA?**

---

**STEP 1** Course Credit x Grade Point = Total Grade Point (TGP)
**STEP 2** Sum all TGP
**STEP 3** TGP/Total Course Credit

**STEP 1** Sum up all your TGP for all semesters = Total TGP
**STEP 2** Total TGP/Total Course Credits already taken

---

Note: You are advised to use Microsoft Excel spreadsheet for easier calculation. You can start targetting from first semester and maintain your target until final semester.
<table>
<thead>
<tr>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>L</strong></td>
<td>Students are given the L status and are allowed to continue study if they obtained CGPA 2.00 OR HIGHER except for the Medical Programme which has other additional conditions determined by the Faculty.</td>
</tr>
<tr>
<td><strong>LMK</strong></td>
<td>Students are given the LMK status if they obtained CGPA 2.00 OR HIGHER but FAILED in a course and they are required to repeat the course.</td>
</tr>
<tr>
<td><strong>LB</strong></td>
<td>Students are given the LB status if they obtained CGPA BETWEEN 1.75 AND 1.99. These students will be warned to improve their GPA and CGPA to 2.00 OR HIGHER in the following semester.</td>
</tr>
<tr>
<td><strong>GB</strong></td>
<td>Students will be given the GB status if:</td>
</tr>
<tr>
<td></td>
<td>a) Obtained CGPA LESS THAN 1.75 in a semester; or</td>
</tr>
<tr>
<td></td>
<td>b) Failed to improve CGPA to 2.00 or higher after obtaining the CONDITIONAL PASS (LB) status in the previous semester; or</td>
</tr>
<tr>
<td></td>
<td>c) Failed to improve CGPA to 2.00 or higher after obtaining the FAILED AND TERMINATED (GB) STATUS but is allowed to continue studies in the previous semester; or</td>
</tr>
<tr>
<td></td>
<td>d) For Medical Programme. Repeated study year for 2 times consecutively but still failed.</td>
</tr>
</tbody>
</table>
Passing Rule for Core Courses in Faculty

Effective from Sem 2 2018/2019, all **FCSIT UNDERGRADUATE** students are subject to the passing rule for core courses as explained below:

i. Students should achieve at least 20% of the formative components (continuous assessment) and at least 20% of the summative components (final assessment),

**AND**

ii. Students should achieve at least minimum marks = 45, total of formative and summative marks.

These terms are only subject to core courses at FCSIT and not for generic courses, MPU and TMU for other faculties.

**Example of calculation:**

Let say Student A is taking Course XYZ. The formative assessment (course work) for Course XYZ is given as 60% and Summative (final assessment) is given as 40%.

\[
\text{Formative marks} = \frac{10}{100} \times 60 = 12 \text{ marks}
\]

(*)Note 20% times by 60 marks allocated for course work) AND

\[
\text{Summative marks} = \frac{20}{100} \times 40 = 8 \text{ marks}
\]

(*)Note 20% times by 40 mark allocated for final assessment) AND

iii. Minimum total marks = 45

<table>
<thead>
<tr>
<th>Formative</th>
<th>Summative</th>
<th>Total Marks</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>60</td>
<td>7</td>
<td>67</td>
<td>Fail with grade F. Summative marks less than 8.</td>
</tr>
<tr>
<td>10</td>
<td>35</td>
<td>45</td>
<td>Fail with grade F. Formative marks less than 12.</td>
</tr>
<tr>
<td>12</td>
<td>9</td>
<td>21</td>
<td>Fail with grade F. Total marks less than 40.</td>
</tr>
<tr>
<td>40</td>
<td>10</td>
<td>50</td>
<td>Pass with grade C.</td>
</tr>
<tr>
<td>55</td>
<td>Not taking</td>
<td>55</td>
<td>Fail with grade F. The student is not eligible to sit for PUK for Final Year. (under UNIMAS Academic Regulation # 10.4.3)</td>
</tr>
</tbody>
</table>

Approved in Senate Vol 9/2018 the 176th
As stated in Program Standard Computing, pg 29.
Examination Rules and Regulations
All students are reminded to comply with the examination rules as described below. Failure to do so may result in the student being disallowed to sit for the examination, or be asked to leave the examination room/hall immediately.

Dress Code
1. Students who are found not properly attired according to the University’s Dress Code WILL NOT be admitted into the examination room/hall. Please ensure that you strictly comply with the dress code of the University.
2. Slippers, short skirts/short pants, sleeveless shirts ARE NOT ALLOWED AT ALL.
3. The Chief Invigilator reserves the right to instruct any candidate to change their clothes if it does not comply with the University Dress Code.

Before the Examination
1. Students are NOT ALLOWED to bring any electronic gadgets, including handphones, smart devices, electronic dictionaries/translation devices or any other electronic gadgets into the examination room/hall (except calculator, if permitted).
2. Students are NOT ALLOWED to bring in pencil cases, any form of paper from outside or any items that are not permitted by the Chief Invigilator.
3. Students are advised to be present at least 15 minutes before an examination starts. Any students, who come 30 minutes after the examination starts, WILL NOT be admitted into the examination room/hall.
4. Students are required to bring along their EXAMINATION SLIP and MATRIC CARD/IDENTITY CARD (IC) to every examination.
5. Students are strictly reminded NOT TO WRITE ANY NOTES OR SYMBOLS ON THE EXAMINATION SLIP either related or non-related to the examination.
6. Valuables such as purse/wallet should always remain kept on the floor under the table. The University will not be responsible for the loss of any belongings, within or outside the examination room/hall.

During the Examination
1. When entering the examination room/hall, please be silent and take your seat quietly. Students are not allowed to talk to each other.
2. Students must sit according to their assigned seat number. Please take note of your seat number and venue for each examination. The list will be posted in faculty website, eLEAP course sites and at certain main notice boards at the Faculty. For courses that have more than one group, the sitting arrangements are based on the group.
3. Students are not permitted to leave the examination room/hall during the first 30 minutes after the examination has started and the last 15 minutes before the end of the examination.
4. Students MUST NOT turn over or start to read the examination paper until told to do so.
5. Students are required to place the examination slip and matric card/identity card at the top right corner of their desk for the verification of identity during the examination.
6. Students are strictly reminded NOT TO WRITE ANY NOTES OR SYMBOLS ON THE EXAMINATION SLIP either related or non-related to the examination.
7. Permission to use the toilet will only be given to one student at any one time.
8. Each student is given five (5) minutes to visit the toilet and only once for each examination. The student must leave his/her jacket (if any), empty his/her pockets, and leave his/her wallet (if any) under the table before going to the toilet.
toilet. Permission to use the toilet during examination is upon approval of the Chief Invigilator.

9. Students are responsible to ensure that their answer scripts are submitted at the end of the examination. If the student is present for the examination and does not submit his/her answer script, the student will be deemed to have sat for and failed that examination.

10. At the end of the examination, students are required to stop writing immediately and remain seated silently while the answer scripts are being collected and counted.

11. Students are not allowed to communicate with other candidates or give or receive any items that can be considered as cheating (this includes the time when answer scripts are being collected).

12. Students who are caught or suspected of cheating in the examination are liable for disciplinary action. All materials which are found to violate any examination rules and regulations will be confiscated.

13. Students must obey all instructions given by the Chief Invigilator at all times.

Students Absent From the Examination

1. If a student has registered for a course but does not attend the examination, the student shall be deemed to have sat for and failed the examination unless the Faculty concerned is satisfied that there is a sufficiently good reason for his/her absence from the examination.

2. Students who are absent due to health or other emergency cases should send official supporting document(s) to the Dean or Deputy Dean (Undergraduate) no later than 48 hours after the examination has been conducted.

Toilet Break

1. Students are advised to visit the toilet BEFORE the examination begins.

2. Only ONE student is allowed to use the toilet at any one time during the examination.

3. Maximum length for toilet break is FIVE (5) MINUTES only.

4. A student may visit the toilet only ONCE for each examination.

5. To request for permission for toilet break, the following procedure is observed:

   a. Student raises his/her hand up.
   b. The invigilator will approach the student and will write down the student matric number and time-out in a form.
   c. The student must leave his/her jacket (if any), empty his/her pockets, and leave his/her wallet (if any) under the table.
   d. When the student returns, the invigilator writes down the time-in and signs the form.
   e. No other students are allowed to leave the venue as long as the student has not returned to his/her seat yet.

Note:
ALL STUDENTS ARE NOT ALLOWED TO BRING IN THEIR HANDPHONES OR ANY ELECTRONIC DEVICES EXCEPT A CALCULATOR* TO THE EXAMINATION ROOM/HALL. ANYONE FOUND TO BE IN POSSESSION OF ANY ELECTRONIC DEVICES WILL BE APPREHENDED AND THE GADGET SHALL BE CONFISCATED.

The University will not be responsible for the loss of any belongings, within or outside the examination room/hall.

*Only if permitted
FINAL EXAMINATION ADVISORY

Examination Day Checklist

☑ Exam Slip
☑ Matric card/Identity Card (IC)
☑ Pens, pencils, erasers and rulers

ITEMS NOT ALLOWED in the Examination Hall

☑ Any electronic gadgets including handphone, smart device, electronic dictionary/translator (exception for calculator, if permitted)
☑ Pencil case
☑ Any piece of paper from outside or any items that are not allowed by the invigilator.

Examination Advice

NO ELECTRONIC GADGETS DURING EXAMINATION

HANDBAGS/POUCHES/CLUTCHES ARE NOT RECOMMENDED TO BE BROUGHT INTO EXAMINATION ROOM/HALL

PLEASE LOCK YOUR BAGS DURING EXAMINATION

You may put your electronic gadgets in a clear plastic bag* labelled with your name, matric number and handphone number. Then place the bag at a location in front of the examination room/hall as instructed by the Chief Invigilator.

*Students must prepare their own clear plastic bags.

Please note that:
Items are left at your own risk.
The University will not be responsible for the loss of any belongings, within or outside the examination room/hall.
FACILITIES & SERVICES

Computer Laboratories
List of people who are allowed to use the computer laboratories in the faculty are:

• Registered FCSIT students
• Students from other faculties who are taking courses from FCSIT
• Students from other faculties who have obtained permission from the Assistant Registrar or Information Systems Officer of the FCSIT.

Laboratory Opening Hours

<table>
<thead>
<tr>
<th>Days</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday to Thursday</td>
<td>8.00am - 1.00pm</td>
</tr>
<tr>
<td></td>
<td>2.00pm - 7.00pm</td>
</tr>
<tr>
<td></td>
<td>7.30pm - 9.00pm</td>
</tr>
<tr>
<td>Friday</td>
<td>8.00am - 12.00pm</td>
</tr>
<tr>
<td></td>
<td>2.30pm - 7.00pm</td>
</tr>
<tr>
<td></td>
<td>7.30pm - 9.00pm</td>
</tr>
</tbody>
</table>

*Note: Opening hours are subject to change during Semester Break*

Laboratories
The following labs are opened for the usage of Undergraduate Students.

<table>
<thead>
<tr>
<th>Lab Name</th>
<th>Lab Location Block A</th>
<th>Lab Name</th>
<th>Lab Location Block B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open Source Lab</td>
<td>Level LG</td>
<td>Teaching Lab 1</td>
<td>Level LG</td>
</tr>
<tr>
<td>System Lab</td>
<td>Level LG</td>
<td>Teaching Lab 2</td>
<td>Level LG</td>
</tr>
<tr>
<td>Multimedia Lab 1</td>
<td>Level G</td>
<td>General Lab 1</td>
<td>Level LG</td>
</tr>
<tr>
<td>Multimedia Lab 2</td>
<td>Level G</td>
<td>General Lab 2</td>
<td>Level LG</td>
</tr>
<tr>
<td>Network Lab 1</td>
<td>Level 1</td>
<td>Computational Science Lab</td>
<td>Level G</td>
</tr>
<tr>
<td>Network Lab 2</td>
<td>Level 1</td>
<td>Information System Lab</td>
<td>Level G</td>
</tr>
<tr>
<td>Artificial Intelligence Lab</td>
<td>Level 1</td>
<td>Final Year Project Lab</td>
<td>Level G</td>
</tr>
</tbody>
</table>

Laboratory Reservation
Only Lecturers and Lab Demonstrators are allowed to make any laboratory reservation for the purpose of teaching, conducting tests, and other teaching activities.
Laboratory User Account Access (UNIMAS Single ID)
1. The account and password that is given to a student must be kept confidential. Students are not allowed to give the password to other users. Each student is responsible for their own account.
2. Students are prohibited from using the computer to blackmail, send or view pornographic material, distributing advertisement or computer virus, using other user’s identity and other activities which do not involve teaching and learning.

Laboratory Rules
Students must read, understand and obey all of the rules and regulations before using laboratory facilities and/or services of the Faculty of Computer Science and Information Technology, UNIMAS.
1. Students must display their student cards while in the laboratory.
2. Students must wear proper attire according to the University’s dress code. Students caught wearing short pants, sleeveless shirt/blouse, mini skirt or torn jeans will not be allowed to enter the laboratory.
3. Students are allowed to bring in bags, but the bags must be placed on the shelves provided in the laboratory.
4. Use of mobile phone is prohibited in the laboratory at all times. Food and drinks are also prohibited in the laboratory.
5. Faulty computer equipment must be reported to the staff in charge immediately, prior or after usage.
6. Students are responsible to replace any damaged or lost equipment if it is found out that they do it on purpose.
7. Students are prohibited from changing computer settings (i.e., wallpaper, folder, system file, mouse pointer, and desktop settings including operating system).
8. Students are not allowed to remove or relocate any computer equipment from its location without obtaining permission from the Technical Unit.
9. Students must switch off the computer after each use to avoid energy waste and equipment damage.

Using Other Computer Equipment in the Laboratory
1. Student must obtain permission from technical staff in charge of the laboratory for each computer equipment (i.e., mouse, laptop, etc.) that is needed to be brought into the laboratory.
2. Student must register her/his laptop at the Technical Unit before she/he can use it in the laboratory.
3. Only laptops that are certified by the Technical Unit are allowed in the laboratory.
Computer Files and Directories
1. Students are prohibited from bringing personal software into the laboratory. Any student found doing this will be suspended from using any computer facility for at least a month and the software will be confiscated.
2. That has/have been stored in the computer in the laboratory by any student must be deleted after laboratory work has been completed.
3. Each Student is allocated 25MB storage space in the server to store work related to their studies. Actions will be taken if there is any misuse of this facility.
4. Students must ensure computer or personal storage devices used are free from any computer virus. Students are urged to backup important documents or files to avoid virus attacks.

Disciplinary Actions
Disciplinary actions will be taken on Students who are found to misuse the computer laboratory and/or its equipment. Actions taken will be according to the level of misconduct/offence, and may include a minimum of ONE (1) month account suspension starting from the date of notice issued by the Assistant Registrar or the Information Systems Officer of the Faculty. If a student receives disciplinary notice from the Faculty for the third time during his/her duration of study, a similar notice will be sent to the student’s parents/legal guardian. All disciplinary actions and/or notice taken will be recorded in the student’s personal file.

Printing service
The Faculty does not provide printing services to the Students. However, printing service is available at the Centre for Academic Information Services (CAIS) in the University.

WIFI Access
22 spot locations of wifi access are indicated by the icon WiFi in the FCSIT Floor Map.
Student Interaction Room (SIR)

Location: Block B, Level G

Faculty of Computer Science and Information Technology has prepared one room for students known as Student Interaction Room (SIR). It is specifically for the students from this faculty and organized by PERTEKMA. The main function of this room is to give opportunities for students to gather and do their informal activities. The students can do revision and discussion regarding their assignments and projects. Besides, they are also allowed to play indoor games such as dart and chess. SIR is located at the ground floor near to Tutorial Room 10.

During lecture weeks, SIR normal opening hours is from 8.30 am until 8.00 pm. However, the opening hours can be extended if there is request from students. Request can be forwarded to PERTEKMA SIR Excos. During semester breaks, its opening hours is from 8.30 am until 5.00pm. At the maximum, SIR can accommodate around 50-60 students at one time.

SIR has facilities which are sofas, TV, indoor games, one PC and one printer, book racks, chairs and table for discussion purposes and WiFi access specifically for FCSIT students only.

Please refer to the following pictures of the Student Interaction Room.
1. University Generic Courses
   University Generic courses are general university course aimed to develop students’ mind, attitude and personality.

2. Faculty Common Core Courses
   Faculty Common core courses are courses compulsory to ALL Students. The code starts from TMF, where TM is faculty code and F is refer to Core.

3. Programme Core Course
   Programme core courses are specialised courses. They are compulsory to ALL Students registered in a particular programme. The code are TMS, TME, TMT, TMN and TMI depends on the programme.

4. University Elective Courses
   University Elective Course is offered with the objective to enhance student experience in cross-disciplinary knowledge. Therefore, starts from Semester 1 2019/2020:
   a. Students must choose three (3) elective university courses offered by other faculties from one of six clusters as listed below.
   b. When to take? Students take these elective courses during the semester as stated in the curriculum structure.
   c. Can the student drop and change other elective course? Yes, student can drop or change the elective course but only up to week 4 of lecture week.
   d. If a student changes faculty, any elective course with pass can be considered for grade-transfer.
   e. FCSIT students are not allowed to take electives offered by our faculty.

5. Pre-requisite Courses
   A pre-requisite course is a course that must be completed with a specified minimum grade, before undertaking another specified course. Prerequisite courses are listed under each course synopsis section. It is important for a Student to pass prerequisite courses with the specified minimum grade, as failing to do so may impede the student’s progression in their studies.

6. General Education Subjects
   General Education Subjects are compulsory university courses which is the pre-requisite for the undergraduate award. Courses under the category of MPU are seen to be able to produce holistic graduates, appreciate the values of patriotism and Malaysia-born identity and mastering soft skills towards fulfilling job-oriented skills. The course code under this category starts with MPU.
## Cluster 1
**Science, Technology and Medicine**

<table>
<thead>
<tr>
<th>Code and Course Name</th>
<th>Semester Offered</th>
<th>Offered by Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. MDU1033 Healthy Lifestyle</td>
<td>1</td>
<td>Faculty of Medicine and Health Sciences</td>
</tr>
<tr>
<td>2. MDU1043 Introduction to Medical Entomology</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>3. MDU1123 Introduction to Learning Disabilities</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>4. MDU1073 Introduction to Biomedical Physiology</td>
<td>1 &amp; 2</td>
<td></td>
</tr>
<tr>
<td>5. MDU1083 Introduction to Health and Behavior</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>1. STU1013 Introduction to Biotechnology</td>
<td>1 &amp; 2</td>
<td>Faculty of Resource Science and Technology</td>
</tr>
<tr>
<td>2. STU1023 Wildlife Photography</td>
<td>1 &amp; 2</td>
<td></td>
</tr>
<tr>
<td>3. STU1033 Aquatic Science and Daily Life</td>
<td>1 &amp; 2</td>
<td></td>
</tr>
<tr>
<td>4. STU1043 Introduction to Plant Physiology</td>
<td>1 &amp; 2</td>
<td></td>
</tr>
<tr>
<td>5. STU2063 Ecotourism Industry in Malaysia</td>
<td>1 &amp; 2</td>
<td></td>
</tr>
<tr>
<td>6. STU2073 Natural Resource Managements</td>
<td>1 &amp; 2</td>
<td></td>
</tr>
<tr>
<td>1. KNU1013 Introduction to Green Technology</td>
<td>1</td>
<td>Faculty of Engineering</td>
</tr>
<tr>
<td>2. KNU1033 Energy, Environment and Society</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>3. KNU1063 Fundamentals to Green Building</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>4. KNU1073 Introduction to Solar Photovoltaic System</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>5. KNU1023 Engineers in Society</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>6. KNU1053 Safety Management in Workplace</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>7. KNU1103 Introduction to Hydro Power System</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>8. KNU1083 Business Management for Construction Industry</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>9. KNU1093 Water Resources in Community Development</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>1. BEU1013 Building Anatomy and Basic Estimating</td>
<td>1</td>
<td>Faculty of Built Environment</td>
</tr>
</tbody>
</table>

## Cluster 2
**Social Science and Humanities**

<table>
<thead>
<tr>
<th>Code and Course Name</th>
<th>Semester Offered</th>
<th>Offered by Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. KMU1013 Helping Relationship</td>
<td>1 &amp; 2</td>
<td>Faculty of Cognitive Sciences and Human Development</td>
</tr>
<tr>
<td>2. KMU1063 Introduction to Mental Health</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>
### Cluster 3
**Business and Management**

<table>
<thead>
<tr>
<th>Code and Course Name</th>
<th>Semester Offered</th>
<th>Offered by Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. KMU1023 Introduction to Human Resource Development</td>
<td>2</td>
<td>Faculty of Cognitive Sciences and Human Development</td>
</tr>
<tr>
<td>1. EBU1053 Online Business Management</td>
<td>1 &amp; 2</td>
<td>Faculty of Economic and Business</td>
</tr>
<tr>
<td>2. EBU1023 Managing Small Business Accounts</td>
<td>1 &amp; 2</td>
<td>Faculty of Economic and Business</td>
</tr>
<tr>
<td>3. EBU1033 Malaysian Economic Environment</td>
<td>1 &amp; 2</td>
<td>Faculty of Economic and Business</td>
</tr>
<tr>
<td>4. EBU2043 Introduction to Intellectual Property</td>
<td>1 &amp; 2</td>
<td>Faculty of Economic and Business</td>
</tr>
<tr>
<td>5. EBU1063 Smart Money Management</td>
<td>1 &amp; 2</td>
<td>Faculty of Economic and Business</td>
</tr>
</tbody>
</table>

### Cluster 4
**Creative Arts and Design**

<table>
<thead>
<tr>
<th>Code and Course Name</th>
<th>Semester Offered</th>
<th>Offered by Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Modern Malay Drama and Theatre of Malaysia</td>
<td>1</td>
<td>Faculty of Applied and Creative Arts</td>
</tr>
<tr>
<td>2. GKU1033 Digital Photography and Social Media Imaging</td>
<td>1</td>
<td>Faculty of Applied and Creative Arts</td>
</tr>
<tr>
<td>3. GKU1043 History of Malaysian Cinema</td>
<td>2</td>
<td>Faculty of Applied and Creative Arts</td>
</tr>
<tr>
<td>4. GKU1053 History of Drama and Theatre</td>
<td>2</td>
<td>Faculty of Applied and Creative Arts</td>
</tr>
<tr>
<td>5. GKU1063 Introduction to Basic Music</td>
<td>2</td>
<td>Faculty of Applied and Creative Arts</td>
</tr>
<tr>
<td>6. GKU1083 Introduction to Stage Directing</td>
<td>2</td>
<td>Faculty of Applied and Creative Arts</td>
</tr>
<tr>
<td>7. GKU1093 Basic Figure</td>
<td>2</td>
<td>Faculty of Applied and Creative Arts</td>
</tr>
<tr>
<td>1. BEU1023 Creative Sketches</td>
<td>2</td>
<td>Faculty of Built Environment</td>
</tr>
</tbody>
</table>
## Cluster 5
### Linguistic and Communication

<table>
<thead>
<tr>
<th>Code and Course Name</th>
<th>Semester Offered</th>
<th>Offered by Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. PBA0033 Arabic Language Level 1</td>
<td>1 &amp; 2</td>
<td>Faculty of Language and Communication</td>
</tr>
<tr>
<td>2. PBA0043 Arabic Language Level 2</td>
<td>1 &amp; 2</td>
<td></td>
</tr>
<tr>
<td>3. PBA0053 Arabic Language Level 3</td>
<td>1 &amp; 2</td>
<td></td>
</tr>
<tr>
<td>4. PBJ0033 Japanese Language Level 1</td>
<td>1 &amp; 2</td>
<td></td>
</tr>
<tr>
<td>5. PBJ0043 Japanese Language Level 2</td>
<td>1 &amp; 2</td>
<td></td>
</tr>
<tr>
<td>6. PBJ0053 Japanese Language Level 3</td>
<td>1 &amp; 2</td>
<td></td>
</tr>
<tr>
<td>7. PBP0033 French Language Level 1</td>
<td>1 &amp; 2</td>
<td></td>
</tr>
<tr>
<td>8. PBP0043 French Language Level 2</td>
<td>1 &amp; 2</td>
<td></td>
</tr>
<tr>
<td>9. PBP0053 French Language Level 3</td>
<td>1 &amp; 2</td>
<td></td>
</tr>
<tr>
<td>10. PBC0033 Mandarin Language Level 1</td>
<td>1 &amp; 2</td>
<td></td>
</tr>
<tr>
<td>11. PBC0043 Mandarin Language Level 2</td>
<td>1 &amp; 2</td>
<td></td>
</tr>
<tr>
<td>12. PBC0053 Mandarin Language Level 3</td>
<td>1 &amp; 2</td>
<td></td>
</tr>
<tr>
<td>13. PBU0033 Bahasa Iban untuk Komunikasi</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Cluster 6
### Special Elective

<table>
<thead>
<tr>
<th>Code and Course Name</th>
<th>Semester Offered</th>
<th>Offered by Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>All courses mentioned in the listed TWO of the clusters above. (only for special case)</td>
<td>As stated above</td>
<td>All faculties</td>
</tr>
</tbody>
</table>
### List of English courses for undergraduate local students for 2018/19 intake and above.

<table>
<thead>
<tr>
<th>Code and Course Name</th>
<th>Level/ Credit Hours</th>
<th>Target Group</th>
<th>Important Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>PBI1112 Preparatory English 1</td>
<td>Remedial/ 2 credits</td>
<td>Students with MUET Band 1 and 2.</td>
<td>Students are <strong>COMPULSORY</strong> to take both courses which are 2 credits each and will be given grades. PBI1112 is the pre-requisite to PBI1122.</td>
</tr>
<tr>
<td>PBI1112 Preparatory English 2</td>
<td>Remedial/ 2 credits</td>
<td></td>
<td>PBI1112 will be offered in Semester 1, session 2019/20 while PBI1122 is offered in Semester 2, session 2019/20.</td>
</tr>
<tr>
<td>PBI1102 Academic English 1</td>
<td>Generic/ 2 credits</td>
<td>Students with MUET Band 3 (and MUET students Band 1 and 2 that have passed PBI1112 and PBI1122).</td>
<td>Students are <strong>COMPULSORY</strong> to take both courses.</td>
</tr>
<tr>
<td>PBI1072 English for Professional Communication</td>
<td>Generic/ 2 credits</td>
<td></td>
<td>PBI 1102 will be offered to students with MUET Band 3 ONLY in Semester 1, 2018/19 while PBI1072 will be offered in Semester 1, session 2018/19.</td>
</tr>
<tr>
<td>PBI1072 English for Professional Communication</td>
<td>Generic/ 2 credits</td>
<td>Students with MUET Band 4, 5 and 6.</td>
<td>Students are <strong>COMPULSORY</strong> to take both courses.</td>
</tr>
<tr>
<td>PBI1092 Academic English 2</td>
<td>Generic/ 2 credits</td>
<td></td>
<td>This is due to the time needed for students with MUET band 1 and 2 to finish the remedial courses before taking the course PBI1102 and PBI1072.</td>
</tr>
</tbody>
</table>
B. List of new courses for International undergraduate students 2018/19 intake and above.

<table>
<thead>
<tr>
<th>Code and Course Name</th>
<th>Level/ Credit Hours</th>
<th>Target Group</th>
<th>Important Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>PBI1112 Preparatory English 1</td>
<td>Remedial/ 2 credits</td>
<td>International students (with conditional offer) who obtained grade C+ and C for PBI0040 Intensive English Language course.</td>
<td>Students are <strong>COMPULSORY</strong> to take both courses. PBI1112 course is a prerequisite to PBI1122 course.</td>
</tr>
<tr>
<td>PBI1122 Preparatory English 2</td>
<td>Remedial/ 2 credits</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PBI1102 Academic English 1</td>
<td>Generic/ 2 credits</td>
<td>International students (direct intake) who obtained 5.5 in IELTS.</td>
<td>Students are <strong>COMPULSORY</strong> to take both courses. Students who have passed PBI1112 and PBI1122 need to take both courses. Please refer to Table A above for more information on courses offered.</td>
</tr>
<tr>
<td>PBI1072 English for Professional Communication</td>
<td>Generic/ 2 credits</td>
<td>International students (with conditional offer) who obtained grade B+, B and B- for PBI0040 Intensive English Language course (and those who pass both intensive courses PBI1112 and PBI1122).</td>
<td></td>
</tr>
<tr>
<td>PBI1082 English for Occupational Purposes</td>
<td>Generic/ 2 credits</td>
<td>International students (direct intake) who obtain 6 and above in IELTS.</td>
<td>Students are <strong>COMPULSORY</strong> to take both courses.</td>
</tr>
<tr>
<td>PBI1092 English for Academic Purposes</td>
<td>Generic/ 2 credits</td>
<td>International students (with conditional offer) who obtained grade A and A- for PBI0040 Intensive English Language course.</td>
<td></td>
</tr>
</tbody>
</table>
NEW STRUCTURE FOR ENGLISH COURSES FOR 2015/2016 INTAKE ONWARDS

The diagram below illustrates the summary structure for English Courses offered by the Faculty of Language Studies and Communication Studies for the 2015/2016 intake onwards students.

Note: For further clarification, please contact the Faculty of Language and Communication.

This only applies to 2015/2016 intake onwards (not applicable to previous intakes).

For students with MUEET Band 4, 5, and 6 OR Intensive English (A or A+) OR IELTS 6 and above:

- PBI 1092: Academic English 2
- PBI 1082: English for Occupational Purposes

For students with MUEET Band 3 OR Intensive English (B+ or B or B-)

- PBI 1102: Academic English 1
- PBI 1072: English for Professional Communication

For students with MUEET Bands 1 & 2 OR Intensive English (C or C+):

- PBI 1112: Preparatory English 1
- PBI 1122: Preparatory English 2

Note: Preparatory English 1 and 2 will have 2 credits, which means both courses will be given grades (no longer pass/fail only). After passing PBI 1112, MUEET Bands 1 and 2 students who have achieved an English level of Band A or Band C for Intermediate English will have to take PBI 1122 and PBI 1132 (for 3rd intake onwards only).
Faculty of Computer Science and Information Technology (FCSIT) has five programmes. The programmes are Computational Science, Information Systems, Software Engineering, Multimedia Computing and Network Computing. In the first year, students will take the same fundamental courses for all programs. The majoring for each program starts during the second year.

**Programme Educational Objectives (PEO)**

The programme shall produce graduates who are:

1. Producing graduates who are founded and possessing the ability to apply core knowledge of Computer Science with program specialization for the aspiration of the society.
2. Nurturing graduates who can think critically and possess ability to solve problems for the requirements of industry.
3. Equipping graduates with leadership, professionalism, and ethics to meet the needs of the stakeholders.

**Programme Educational Objectives (PEO)**

1. Apply the knowledge of Computer Science with programme specialization to meet industry needs.
2. Demonstrate technical and programming skills to solve Computer Science problems.
3. Communicate effectively with industry and society.
4. Develop creative and innovative solutions in relative to problems which involves scientific approach.
5. Build teamwork skills as well as social responsibility.
6. Manage information and perform life-long learning in the broadcast context of technological change.
7. Build knowledge and skills in management and entrepreneurship.
8. Practise professionalism, value, attitude, and ethical behaviour in the society.
9. Demonstrate leadership skills in working environment.
Each course has a full-word name and a code. The code course is divided into two parts: a sequence of three capitalised letters and a sequence of four digits.

The **EXAMPLE** below illustrates the definition of each part of the code course.

- **F** for Faculty Core Courses
- **E** for courses offer in Software Engineering Programme
- **I** for courses offer in Information Systems Programme
- **N** for courses offer Network Computing Programme
- **S** for courses offer in Computational Science Programme
- **T** for courses offer in Multimedia Computing Programme
- **X** for University Generic courses
Computational Science is the field of study concerned with constructing mathematical models and its numerical solution techniques, as well as using computers to analyze and solve scientific, social, and engineering problems.

Graduates of this programme would be able to have careers in the fields; not limited to, such as Statistician, Software Developer, System Analyst, Programmer, Production and Logistic Planner, Operational Research Analyst and Research Scientist.
## CURRICULUM STRUCTURE: COMPUTATIONAL SCIENCE PROGRAMME

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* For students with MUET Bands 1 & 2 OR Intensive English (C,C+) ONLY. After passing PBI1122, students will have to take PBI1102 Academic English 1 and PBI1072 English for Professional Communication In Year 2.
** Students with MUET Bands 3 OR Intensive English (B+,B,B-) OR IELTS 5.5 will have to take PBI1102 Academic English 1 and PBI1072 English for Professional Communication. Students with MUET Bands 4, 5 and 6 OR Intensive English (A,A-) OR IELTS 6 and above will have to take PBI102 Academic English 2 and PBI1082 English for Occupational Purposes.
*** International students will take MPU3152 – Appreciation of Malaysian Culture and Ethnicity
**** International students will take MPU3322 – Advanced Bahasa Melayu for Communication
INFORMATION SYSTEMS PROGRAMME (WC03)

Nowadays enterprises are moving to a higher level of automation and are highly dependent on information provided by computer-based system. These complex systems will become an exceedingly important strategic asset of the organization. The study of Information System, therefore, is concerned with the development of systems that will get the right information to the right people at the right time.

This programme’s four (4) year structure is designed for students who wish to be competent in deciding how technology are utilize to support organizational/business objectives or to create new opportunities, determine the supporting process and data, implementing computer-based systems and also developing new and innovative products.

All courses consist of extensive theoretical and practical studies will require the use of a wide variety of system development tools. With organizations, people, processes and technical aspects in system development as its focal point, students will be equipped with basic organizational theory, decision-making, project management and system development skills, which are parallel with the latest information technology system.

Graduates of Information System Programme would be able to have careers in fields, not limited to, Information Systems Officer, System Analyst, Database Administrator, Database Analyst, Project Manager, Application Developer, Application Consultant, Business Analyst, Business Process Analyst, User Interface Designer, Web Content Manager, e-Business Manager, IT Consultant, IT Architect, Research Officer and Educator.
# Curriculum Structure: Information Systems Programme

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** Students with MUET Bands 3 OR Intensive English (B+,B,B-) OR IELTS 5.5 will have to take PBI1102 Academic English 1 and PBI11072 English for Professional Communication. Students with MUET Bands 4, 5 and 6 OR Intensive English (A,A-) OR IELTS 6 and above will have to take PBI1102 Academic English 2 and PBI11082 English for Occupational Purposes.

*** International students will take MPU3152 – Appreciation of Malaysian Culture and Ethnicity

TOTAL 132
Pre-requisite and Requisite Flow Chart for Information Systems Programme
MULTIMEDIA COMPUTING PROGRAMME (WC09)

Multimedia Computing is a study of all aspects regarding software systems that bring about the synchronisation of multimodality media types such as video, audio, images et cetera. Students are introduced to a broad knowledge of various multimedia system implementations.

Graduates may find careers in the following capacities (but not limited to): Web developer, Web-based system developer, Mobile app and content developer and Multimedia software developer.
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### MULTIMEDIA COMPUTING PROGRAMME

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* For students with MUET Bands 1 & 2 OR Intensive English (C,C+) ONLY. After passing PBI1122, students will have to take PBI1102 Academic English 1 and PBI1072 English for Professional Communication in Year 2.

** Students with MUET Bands 3 OR Intensive English (B+,B,B-) OR IELTS 5.5 will have to take PBI1102 Academic English 1 and PBI1072 English for Professional Communication. Students with MUET Bands 4, 5 and 6 OR Intensive English (A,A-) OR IELTS 6 and above will have to take PBI1002 Academic English 2 and PBI1082 English for Occupational Purposes.

*** International students will take MPU3152 – Appreciation of Malaysian Culture and Ethnicity

**** International students will take MPU3322 – Advanced Bahasa Melayu for Communication

TOTAL 132
SOFTWARE ENGINEERING PROGRAMME (WC10)

Software Engineering is a discipline that involves the application of scientific and engineering principles towards the development, operation and maintenance of high quality of computer software.

Graduates of Software Engineering Programme would be able to have careers in fields not limited to, such as System Analyst, Software Tester, Software Architect, Software Engineer, Software Developer, Software Project Manager, Software Administrator and Software Development Consultant.
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*** International students will take MPU3152 – Appreciation of Malaysian Culture and Ethnicity
**** International students will take MPU3322 – Advanced Bahasa Melayu for Communication

TOTAL 132
NETWORK COMPUTING PROGRAMME (WC11)

Network Computing

Network Computing provides the students with the background of core areas in network computing where students are able to model and build computer network environment. The program focuses on the integration of hardware and software technologies such as high-speed and high-performance computer networks, and wireless and mobile systems and networks.

Graduates of Network Computing Programme would be able to have careers in fields; not limited to, Computer Network Administrator, Network Engineer, System Programmer, Network Programmer, Network Communication Consultant and Computer Network Officer.
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* For students with MUET Bands 1 & 2 OR Intensive English (CC+) ONLY. After passing PBI1122, students will have to take PBI1102 Academic English 1 and PBI1072 English for Professional Communication in Year 2.

** Students with MUET Bands 3 OR Intensive English (B+B,B-) OR IELTS 5.5 will have to take PBI1102 Academic English 1 and PBI1072 English for Professional Communication. Students with MUET Bands 4, 5 and 6 OR Intensive English (AA-A-) OR IELTS 6 and above will have to take PBI1092 Academic English 2 and PBI1082 English for Occupational Purposes.

*** International students will take MPU3152 – Appreciation of Malaysian Culture and Ethnicity

**** International students will take MPU3322 – Advanced Bahasa Melayu for Communication

TOTAL 182
Course Synopses
The synopsis of each course is just a summary of the main points.

YEAR 1 COURSE SYNOPSES

**TMF1014 System Analysis and Design**
Credit: 4

**PREREQUISITE: none**

This course provides students with knowledge and experience of conducting systems analysis and design of a system, and its placement within the software development lifecycle. The course emphasizes process, data and event modeling for representing key aspects of information systems. In particular, emphasis will be placed on the mechanisms required for modeling during the acquisition of requirements and the formulation of information system solutions. The course also provides different roles of stakeholders involved in an Information Systems (IS) development projects, and the responsibilities associated with these roles. The course instructs students with an awareness of the software development lifecycle, in particular the requirements analysis and design phases.

**TMF1214 Computer Architecture**
Credit: 4

**PREREQUISITE: none**

This course introduces the internal structure and function of the digital computer which is based on classic Von Neumann architecture. It also relates between the high-level language constructs and their implementation on the computer which is investigated through the use of an Assembly Language programming.

**TMF1254 Communication and Computer Network**
Credit: 4

**PREREQUISITE: none**

This course introduces computer networks and communications technologies based on Open System Interconnection (OSI) seven layers. It also provides an understanding to LAN and WAN design, implementation and application within organisations.

**TMF1414 Introduction to Programming**
Credit: 4

**PREREQUISITE: none**

This course provides a general introduction to programming language. It is designed to give students the ability to write simple console programs and to be able to understand such programs written by others. The course covers problem solving skills, writing algorithms, basic programming syntax, control structures (loops, if statements, switches), functions and input/output operations. The course forms part of a core courses for the undergraduate program within the faculty, and provide programming foundation for other courses.
### TMF1434 Data Structure and Algorithms

**Credit:** 4

**Prerequisites:**
- TMF1414 Introduction to Programming
- TMF1814 Discrete Mathematics

This course will focus on data structures and associated algorithms that are fundamental to the study of computer science. We will also discuss analysis of algorithms in terms of algorithmic efficiency. The innovative features of this course is the use of the object-oriented language. Object-oriented programming languages are widely used in industry by corporations worldwide, and is rapidly becoming the language of choice for software development professionals.

### TMF1814 Discrete Mathematics

**Credit:** 4

**Prerequisite:** none

This course will prepare the students with mathematical foundations for other Computer Science and Information Technology courses, which include data structures, algorithms, database theory, computer security and operating system.

### TMF1874 Mathematics for Computing

**Credit:** 4

**Prerequisite:** none

This course provides an introduction to Statistics and Linear Algebra, fundamental to the development of statistical models, computation framework for posing and solving problems especially in computer science related fields. This course provides an understanding of the basic concepts in linear algebra such as system of linear equations, eigenvalues and eigenvectors. Inference, with coverage of data collection and analysis is emphasized to evaluate the reported results of statistical studies and to make informed decisions. Although formulas and formal procedures are discussed, it stresses thinking over the blind use of mechanical procedures, the assessment of credibility and value of the inferences made from data.

### MPU3422 Systematic Innovation and Innovative Problem Solving

**Credit:** 2

**Prerequisite:** none

This course will enable students to become aware of and learn to apply algorithmic creative thinking, inventive problem solution and idea generation based on Theory of Inventive Problem Solving (TRIZ). The students will be then able to distinguish between incremental and breakthrough innovation approaches. Through the use of tools such as Scientific Effects Database, Patents Knowledge-base, Inventive Principles and Standard Inventive Solutions, the students learn the art and science of creative problem solving. Field-specific models will be co-created on selected case studies leading to prototype system development. This course is to equip students with knowledge of inventive problem solving to make them to be on par with students in leading universities who harness the creative thinking in everything they do.
YEAR 2 COURSE SYNOPSISES

TME2073/TMI2123/TMT4693 Intelligent Systems  Credit: 3

**PREREQUISITE:**
TMF1434 Data Structure and Algorithms

This course will provide students with the knowledge of Artificial Intelligence (AI) especially for intelligent system including the methodology of knowledge representation as well as searching techniques for developing intelligent system. The course delves into some central areas of artificial intelligence such as problem solving and the application of AI in real worlds such as neural network, expert systems, natural language processing, genetic algorithm, fuzzy logic and intelligent tutoring system.

TME2133 Software Requirements Engineering  Credit: 3

**PREREQUISITE:** none

This course covers the basic knowledge of eliciting, analyzing, specifying, documenting, validating and managing requirements. Its main aim is to make students aware of the importance of requirements and specifications in the software life cycle. The students will be introduced to different problems that may occur during these phases, and also different methods and tools dealing with requirements elicitation and representation techniques.

TMS2833/TMI2113/TMT2673/TME2413/TMN2223  Credit: 3

**PREREQUISITE:**
TMF1434 Data Structure And Algorithms

Object Oriented Software Development

The course will enable the students to think about solutions to computational problems in an object- oriented manner, capture reusable patterns of design and design programs proficiently and professionally using UML.

TMF2034 Database Concept and Design  Credit: 4

**PREREQUISITE:** none

This course explores the fundamental concepts necessary for the design, use and implementation of database management systems. A particular emphasis is placed on the relational database model and normalization.

TMF2234 Operating System  Credit: 4

**PREREQUISITE:** none

This course explores the fundamental concepts of computer operating system. It emphasizes on managing both hardware and software operation by the computer operating system.
TMF2954 Java Programming

**Credit: 4**

**REQUIREMENT:**
TME2413/TMI2113/TMN2223/TMS2833/TMT2673 Object-oriented Software Development

This course introduces the Java language's fundamentals and how to apply them in basic algorithms and data structures, such as arrays, trees, searching, sorting, geometric reasoning et cetera. The course also gives students a grounding in the basics of Object-oriented programming using Java.

TMI2053 Information Systems in Organisations

**Credit: 3**

**PREREQUISITE: none**

The general aim for this course is to increase awareness of how information and its delivery mechanism, the information system, affect an organisation's ability to meet its goals. Case studies and demonstration of technologies employed in organisations will be used to sensitise the students awareness of IS in Organisations.

TMI2073 Advanced Database Management

**Credit: 3**

**PREREQUISITE:**
TMF2034 Database Concept and Design

This course is an exposure to advanced knowledge about database system and also database administration and management. Current tools will be used to make sure the students gain appropriate knowledge and experience in dealing with the database systems. This course will give the students opportunities to learn in theory and practice on advanced database concepts and also database administration.

TMN2073/TME4433/TMI4133/TMS4853 Computer Security

**Credit: 3**

**PREREQUISITE:**
TMF1254 Communication and Computer Network

This course aims to give students a thorough understanding of computer security technology. This includes high-level issues such as security policy (modeling what ought to be protected) and engineering (how we can obtain assurance that the protection provided is adequate). It also involves the protection mechanisms supported by modern processors and operating systems; cryptography; and a wide variety of attacks ranging from network exploits through malicious code to protocol failure.

TMS2033 Differential Equations

**Credit: 3**

**PREREQUISITE: none**

This course provides treatment of differential equations, where the content emphasises on the analytical approaches in solving ordinary differential equations. Fundamental concepts of differential equations are also introduced. The student will be able to appreciate the importance of differential equations in modeling and will become familiar in solving the mathematical models analytically.
TMS2153 Multivariable Calculus

**Credit: 3**

**Prerequisite: none**

The main focus of this course is the calculus of several variables. In this course, students will learn how to find limits, derivatives, and integrals for functions of several variables and vector functions. The students will also be familiarised with the concept of complex variables.

TMS2813 Computational Science Laboratory

**Credit: 3**

**Prerequisite: none**

This course covers the application of computing techniques solving mathematical problems using selected mathematical computing tool. Algorithm building skills, designing, coding, debugging and documenting related to converting mathematical equations into computer programs will be emphasised. Depending on the problems that need to be solved, mathematical computing tools such as Matlab will be used to assist the students. This will enable the students to understand not only the usage of mathematical computing tools but also the mathematical aspects of the problem in hand.

TMT2033 Computer Graphics

**Credit: 3**

**Prerequisite:**

TMTF1434 Data Structure and Algorithms

The course teaches fundamental of input, display, and hardcopy devices, scan conversion of geometric primitives, 2D and 3D geometric transformations, clipping and windowing, scene modelling and animation, algorithms for visible surface determination, local and global shading models, and color models.

TMS2824/TMI2104/TMT2654/TME2104/TMN2234

**Credit: 4**

**Web Based System Development**

**Prerequisite: none**

This course will provide students an understanding of the web-based system development process, and how it can be applied in different types of information systems. It also introduces fundamental PHP programming, MySQL and database concepts, and how to access data from MySQL using PHP.

TMT2703 UI/UX Design

**Credit: 3**

**Prerequisite: none**

Understanding users and their behaviours will lead to becoming an effective creator of digital products. Therefore, the goals of this class, are to familiarise students with usability, UI and UX design concepts and allow them the opportunities to experiment, create and explore.
YEAR 3 COURSE SYNOPSIS

TME3033 Expert Systems

Credit: 3

Prerequisite:
TME2073 Intelligent Systems

The course will give an overview of the main concepts as well as the various methodologies in developing an expert system. In general, the course will cover the structure of an expert system, the knowledge acquisition process as well as the different types of knowledge representation and reasoning.

TME3413 Software Engineering Laboratory

Credit: 3

Prerequisite:
TME2413 Object Oriented Software Development

This course provides students the necessary skills for students to develop a software product as a team. Students will be introduced to the Team Software Process (TSP); an integrated framework that guides development teams in producing high-quality software-intensive systems. It also consists of an introduction to the methods presented in the TSP which are; how to establish roles; how to conceive, design, and plan a project; and how to track and report on software project's progress.

TMF3012 Ethics and Professionalism

Credit: 2

Prerequisite: none

This course covers material on the responsibilities and the ethical issue in the working environment, risks and liabilities, the different types of computer misuse and intellectual property issue related to the computer science field.

TMF3113 Project Management

Credit: 3

Prerequisite: none

This course provides students with an understanding of IT project management concepts and principles, based on the Project Management Body of Knowledge (PMBOK). The course focuses on the activities in the areas of Coordinating Knowledge (Project Integration Management), CoreKnowledge (Project Scope Management, Project Time Management, Project Cost Management, Project Quality Management) and Facilitating Knowledge (Project Human Resources Management, Project Communication Management, Project Risk Management, Project Procurement Management, Project Stakeholder Management). Project management ensures that project requirements are met by applying techniques, tools, skills and knowledge to project activities.
**TMF39412 Industrial Training**

**Credit:** 12

**Prerequisite:**
- TMF1014 System Analysis and Design
- TMF1434 Data Structure and Algorithms
- TMF3012 Ethics and Professionalism

The Industrial Training is designed to prepare Students to be involved in the IT field in real world setting. It will also give the organization the opportunity to train talented Students to cater for the Industry demands upon the student's graduation.

Industrial Training forms an integral part of a degree program at FCSIT. Industrial Training program provides an essential pre-professional work experience on a specific field. At FCSIT, Students are required to undergo Industrial Training for 24 weeks and it carries a total of 12 credit hours. This is an opportunity for the Students to gain insight knowledge of their chosen carrier and prepares them to the expectation of the industries. Students from all programmes at FCSIT will go for their Industrial Training during their 3rd year 2nd semester of their studies. It is imperative that all Students complete the prerequisite courses before they can enrol for their Industrial Training.

**TMI3013 Information Systems Laboratory**

**Credit:** 3

**Prerequisite:** none

This course covers the basic technical skills for Information Systems research. This course reinforce the fundamental knowledge and skills need in preparing for the Final Year Project and also Internship placement. The approaches to this course are to equip students with skills to perform data acquisition and preparation for data analysis and also how to perform analysis and basic visualization. The course also covers the topic of defining IS research objectives and how to prepare research documentation.

**TMI3053/TMS3843/TMT3683/TME3423**

**Human Computer Interaction**

**Credit:** 3

**Prerequisite:** none

Human computer interaction (HCI) is a study of how people interact with computers. This course will introduce the fundamental aspects of HCI. Students will learn and put into practice approaches of design and implementation of usable human-computer interactions, taking into account the Malaysian context. Students will also evaluate interfaces, which incorporate design, administration, analysis and reporting of the usability evaluation.
TMI3073 Human Centered Technology  Credit: 3

**PREREQUISITE:**
TMI1434 Data Structure And Algorithms

This course provides awareness and understanding on designing human centered technology. The course exposes text features processing, speech features processing, multi-modal design and their usage in designing human centered system to students.

TMN3073 Wireless and Mobile Network  Credit: 3

**PREREQUISITE:**
TMF1254 Communication and Computer Network
TMF2234 Operating System

This course provides in depth study of wireless and mobile network which covers the wireless and mobile computing technologies. The topics focus on the networking and mobility of the devices and its implications at all network layers.

TMN3093 Computer System Administration and Management  Credit: 3

**PREREQUISITE:**
TMF1254 Communication and Computer Network

This course emphasizes on the techniques, best practice and the technology of the system and network administration/management. The focus of this course is the fundamentals of the System and Network Administration/ Management. Also, relevant technical skills such as deployment, management and administer all network-related services are emphasized. Hands-on lab experiences emphasize problem-solving, troubleshooting and decision-making process.

TMN3213 Internetworking Technology Laboratory  Credit: 3

**PREREQUISITE:**
TMF1254 Communication and Computer Network

This course provides a general introduction to hardware, devices and software for developing and managing computer networks. It is designed to give students the ability to plan for a new network and managing existing network infrastructure.

TMS3033 Operational Research  Credit: 3

**PREREQUISITE: none**

This course introduces students to the quantitative side of decision making. Students will be exposed to the real business world and also how mathematics is applied in the decision-making process.
TMS3133 Numerical Methods  
**Prerequisite:** none  
This course introduces principles and applications of numerical methods in linear and nonlinear equations, interpolation and polynomials approximation, curve fitting, differentiation and integration, and differentiation and integration, and differential equations. Students will learn to code the numerical methods to obtain numerical solutions.

TMT3613 Interactive Multimedia Laboratory  
**Prerequisite:** none  
Explore the evolution of system/multimedia/application development process. Study and hands-on the development of a real-life system/multimedia/application development. Compare, critique, defend and evaluate the outcome of the developed software product. Learn to predict the future of system/multimedia/application development.

TMT3123 Computer Game Design & Development  
**Prerequisite:**  
TMF1214 Computer Architecture  
The computer games industry is an emerging field as a prospective contributor to the Malaysian economy. This Interactive course is an excellent arena to develop student skills in games graphics, game development and hardware architecture. In addition to the theoretical elements, students will learn and use software applications and tools for game design and its programming. Hands-on experience is emphasised in developing computer games.

**YEAR 4 COURSE SYNOPSES**

TME4013 Formal Methods  
**Prerequisite:**  
TMF1814 Discrete Mathematics  
This course introduces the elements of formal methods, its syntax and semantics and its supporting tools. The objectives are, to make student aware of the importance of formal methods in software specification, write formal specification and use its supporting tool. As more complex computational systems are used within critical applications, it is becoming essential that these systems are formally specified. Such specifications are used to give a precise and unambiguous description of the required system. This is clearly important in critical systems such as life-support system, industrial process management and air/spacecraft control. In addition, as computational systems become more complex in general, formal specification can allow us to define the key characteristics of systems in a clear way and so provide the basis for verification of properties of systems.
TME4033 Software Testing

Credit: 3

PREREQUISITE:
TME3413 Software Engineering Laboratory

In this course, students will be introduced to the foundation knowledge of software testing. Students will discover why and how to integrate testing throughout the software development process in order to uncover bugs, ensure performance, enhance quality and lower costs. Using a set of integrated classroom exercises beginning with requirements validation and ending with implementation, this course demonstrates how management of testing activities relates to the software life cycle of projects.

TME4093 Advanced Topics in Software Engineering

Credit: 3

PREREQUISITE: none

The course will enable the student to obtain broad understanding about software engineering. Students will be exposed to a variety of techniques in theoretical, practical and research area in software engineering such as formal methods, web engineering, re-engineering and so forth. Focus will be given on latest development in software engineering research.

TMF4034 Technopreneurship and Product Development

Credit: 4

PREREQUISITE: none

This course is tailored to equip students with the knowledge and skills in technopreneurship (an amalgamation of technology entrepreneurship) and product development. In this course students will learn about social enterprise, business model, business plan, funding, financial plan, and marketing plan. Additionally, students will undergo experiential learning through the application of Service Learning in order to learn and address the real needs in the community, and propose technological solutions that can be turned into technopreneurship opportunities. This course aims to produce students with basic foundation in technopreneurship and product development that they can use in operating technology-based technopreneurial ventures.

TMI4013/TME4113/TMT4663 Data Mining

Credit: 3

PREREQUISITE: none

This course introduces basic concepts, principles and techniques for data mining. It covers the fundamental concepts and principles of data mining and the data mining process. Characteristics of real life data and datasets are also presented and ways of exploring and understanding these data are taught. Three main data mining tasks are covered: clustering, classification and association rule mining. Techniques for these three tasks are presented and demonstrated in practice using a data mining software toolkit. Data mining applications in various domains are also covered in this course.
TMF4913 Final Year Project I (FYP 1)  Credit: 3

**Prerequisite:**
TMF3113 Project Management

This is the first part of the two-semester course sequence represents a capstone design experience which involves the system design specification, system implementation and system evaluation. A written report, demonstration and an oral presentation are required. This course requires the student to apply their knowledge to a specific topic. They will have to thus develop their organisational, theoretical and applied skills.

By the end of this course, students will be able to:
- Decide and defend ideas proposed in the Final Year Project (FYP).
- Arrange, analyze, and design the proposed research or development based project.
- Display willingness to work independently.
- Have critical thinking, lifelong learning, and entrepreneurship skills.

List of forms for FYP 1:
(1) Form A: Report Submission Form
(2) Form C: Verification of FYP Report Correction and Submission
(3) FYP 1 Evaluation Forms

For more details on FYP 1, please visit the following url:
[Internal network] http://10.64.113.226/FYPSystem/

TMF4935 Final Year Project II (FYP 2)  Credit: 5

**Prerequisite:**
TMF4913 Final Year Project I

This is the second part of the two-semester course sequence represents a capstone design experience which involves the system design specification, system implementation and system evaluation. A written report, demonstration and an oral presentation are required. This course requires the student to apply their knowledge to a specific topic. They will have to thus develop their organisational, theoretical and applied skills.

By the end of this course, students will be able to:
- Evaluate related systems and compare them to their new system.
- Develop a computer science/IT related project.
- Display willingness to work independently.
- Have critical thinking skills to market their project/product.

List of forms for FYP 2:
(1) Form E1&2 FYP 2 Examination
(2) Form A Report Submission Form
(3) Form B Thesis Status Endorsement Form
(4) Form C Verification of FYP Report Correction and Submission

For more details on FYP 2, please visit the following url:
[Internal network] http://10.64.113.226/FYPSystem/
TMI4033 Collective Intelligence

Prerequisite: None

With the development and acceptance of the Internet and social networks, there is an increase in the need to galvanise the efforts and capabilities of individuals. The aim of this course is to understand how collective intelligence of communities can be harnessed to achieve specific goals, facilitates creativity, collaboration, and sharing. To achieve this, we need to address the issues of “human grid computing” in terms of coordination, cognition, and cooperation from two perspectives, i.e. the human and technology perspective. From the human perspective, we need to understand cognition and cooperation. From the technology aspect, we need to comprehend the issues of providing a platform and processes which would allow the communities to work together, as well as to extract and use information from the massive amount of data on the Internet.

TMI4093 Advanced Topics in Information Systems

Prerequisite: None

This course is to provide students with a thorough foundation in the theory and practice of creating information strategies and making decisions for organizations. An organization information strategy indicates how it intends to use information and knowledge to support or even shape its own overall strategy to meet its goals. The course will equip students with research skill and necessary knowledge to carry out research of a professional standard. It also identifies ways how organization can create and formulate a strategy in embracing emerging technologies for competitive advantage.

TMN4013 Distributed System

Prerequisite:
TMF2234 Operating Systems
TMF1254 Communication and Computer Network

This course is concerned with loosely-coupled distributed systems in which computers communicate with one another over a network in order to carry out joint tasks. The main advantages to be gained from distributed systems are resource sharing across networks, tolerance of failures by replicating devices and data, and sped up in computational performance. In order to materialize these advantages, many systems, transparency is one of the most important considerations. For user, it means that the files and other resource in a distributed system can be accessed without knowing of their location. For the system builder, transparency hides some of the effects of distribution, and simplifies their tasks.
TMN4033 Embedded System

**PREREQUISITE/REQUISITE:**
TMF1214 Computer Architecture

This course introduces the concept of embedded computing and as extension from previous microcomputer interfacing course. It also introduces hardware and software issues in embedded computing systems. The course also includes the study of the processors, memories, bus interfacing, tools and processes in the development and integration of embedded computing system.

TMN4053 Broadband Network Technology

**PREREQUISITE:**
TMF1254 Communication and Computer Network

This course introduces the students with the latest high speed computer networking technologies for both domestic use and enterprise backbone networks. Students will have an insight about different high-speed network technologies and their applications. Topics covered in this course include technologies such as ATM, Gigabit Ethernet, xDSL, Fiber to the Home and etc.

TMN4093 Advanced Topics in Computer Networking

**PREREQUISITE:**
TMF1254 Communication and Computer Network

This course covers a broad range of advanced networking and computer system topics, including network protocols, routing, network management, traffic management, and emerging networking technologies.

TMN4113 Network Performance and Simulation

**PREREQUISITE:**
TMF2234 Operating Systems
TMF1254 Communication and Computer Network

The course aims to provide students with an introduction to techniques for performance modeling and analysis of computer systems and communication networks. Primary emphasis will be on analysis of measurements, discrete event simulation and queuing theory.

TMN4133 System Programming

**PREREQUISITE:**
TMF1254 Communication and Computer Network
TMF1414 Introduction to Programming

This course is an in-depth introduction to a systems programming, system programming language(s) and application of those language(s) to systems level problems. It covers fundamentals of systems programming including standard tools, shell programming, file I/O, files and directories, system data files and information, Unix processes, process control, synchronization, signals, inter-process communication, and basic network programming.
TMS4013 Parallel Processing  Credit: 3

**PREREQUISITE:**
- TMF1214 Computer Architecture
- TMF1434 Data Structure and Algorithms

This course provides a comprehensive overview of the field of parallel computing through a study of parallel programming. Topics covered include data parallelism, multiprocessor architecture, process communication, data sharing, synchronous parallelism, multi-computer architecture, message passing programs, replicated workers, and distributed termination detection. This course requires extensive programming.

TMS4033 Statistical Data Analysis  Credit: 3

**PREREQUISITE:** none

This course covers simple and multiple linear regression models. Successful applications of these models require a sound understanding of both the underlying theory and the practical problems that are encountered in using the models. This course will provide students with the necessary theoretical knowledge in regression analysis and modelling as well as their applications.

TMS4053 Mathematical Modelling and Simulation  Credit: 3

**PREREQUISITE:**
- TMS2033 Differential Equations, TMS3133 Numerical Methods

The primary goals of this course are to increase each student's abilities to design useful models of real-world situations and to implement those models so that they can be executed on computers to answer questions about the real world. Dynamical systems will be considered in this course such as, predator-prey, epidemics, traffic, economic, business and financial.

TMT4053 Multimodal Interaction Technology  Credit: 3

**PREREQUISITE:** none

This course gives elementary introduction to concepts, methods and applications of multimodal interaction technologies. The course covers the fundamentals issues in multimodal interaction and interfacing. The students will also learn the non-traditional and non-GUI multimodal interfaces such as olfactory and taste interfaces.

TMT4093 Advanced Topics in Multimedia Computing  Credit: 3

**PREREQUISITE:** none

This course covers current and future issues and development in multimedia computing. The course gives the students an in-depth knowledge in current areas related to multimedia computing. It exposes students to current research area in this field.

TMT4113 Data Visualization  Credit: 3

**PREREQUISITE:** none

In this course, we will study techniques and algorithms for creating effective visualisation based on principles from graphic design, visual art, scientific visualisation, perceptual psychology and cognitive science. This course will also provide practical experience in handling and visualising data. Special attention is paid to the issues surrounding the data visualisation.
Service learning (SL) is a “form of experiential learning which occurs through a cycle of action and reflection as students apply what they are learning to address real community needs” (Malaysia Education Blueprint 2015-2025, pg. 1-9). Existing studies have shown that integrating academics and community service delivers greater development of student soft skills, enriches learning experiences and improves academic performance.

In line with the aspiration of the Ministry of Higher Education, Faculty of Computer Science & Information Technology (FCSIT) in Universiti Malaysia Sarawak (UNIMAS) has decided to reap these benefits as another milestone in achieving better teaching and learning quality into one faculty core course namely Technopreneurship and Product Development (TMC3034) since session 2016/2017 Semester 1. The course serves to prepare the students with the knowledge in running technology-based entrepreneurial ventures with technology products and services as their core business.

In addition, the incorporation of SL into this course also allows the students to be viewed as a social technopreneur by looking at the social impacts that could be created. A main requirement for SL implementation is to gather real user requirements through visits to the community sites. The sites normally covers villages or schools in Kuching, Kota Samarahan and nearby districts in Sarawak. The main outcome from the SL activities are reflections by the students, stakeholders, faculty supervisors and community supervisors.
STUDENT’S PROGRAMME

Web-based Village Profiling System (Kpg Segedup, Batu Kawa)

An Introduction of Scratch Programming (Kpg Gita, Petra Jaya)

Kg Kuap Digital Presence Project (Kg Kuap)

Developing website for Kampung Pulo Salak (Kpg Pulo Salak, Kuching)

Animation Workshop for Primary 5 School Students (SK Tabuan Hilir)

The Making of KPJ video (Kampung Pinggan Jaya)

e-Masjid Portal Community for Tebing Selatan Sungai Sarawak (Tebing Selatan Sungai Sarawak)

Entrepreneurs/Business Web Database for Tebing Selatan Sungai Sarawak (Tebing Selatan Sungai Sarawak)
ACADS

Academic Advisor System (ACADS) is designed to help academic advisors (lecturer) to monitor students’ academic performance and also to assist academic advisors in setting up appointments with their students. This system replacing the mentor-mentee system which previously conducted in the faculty.

Students are required to attend all activities conducted through this system. They must come and discuss any academic or non-academic issues with their advisor at least once per semester in order for them to print the examination slip or else they will face a problem in sitting their final exam. After the discussion, the advisor will verify in the system that the discussion has been done and permits the student to print their examination slip.

The main role of the academic advisor is to monitor and assist students on academic matters. Therefore, every student has been assigned in the system to one of the lecturers as his/her academic advisor. Students can check his/her advisor through this URL: https://smpweb.unimas.my/estudent
PERSATUAN TEKNOLOGI MAKMLUMAT (PERTEKMA)

Advisors:
Dr. Suhaila binti Saee
Mohamad Johan bin Ahmad Khiri

PERTEKMA is Faculty’s Undergraduate Students Association. All faculty students are automatically members of PERTEKMA. It was established and registered under the Centre for Students Development (now known as Student Affairs and Alumni Division) on the 1st of November 1997. The main objective of establishing PERTEKMA is to provide a platform for students and faculty members to communicate and interact effectively. Now, PERTEKMA is under the Faculty Deputy Dean of Student Affairs and Alumni portfolio.

PERTEKMA committees are elected from the Faculty’s undergraduate students which normally held yearly between April and June. Currently, it has 14 portfolios designated to manage the students’ activities. To assist the PERTEKMA committee administration run smoothly, Faculty appoints two academic staff as an advisor for two years.

The other objectives of PERTEKMA are listed as follows:

• To serve as an official channel for the Faculty and its students to share and disseminate both academic and non-academic information
• To assist students in both academic and personal problems especially on matters related to the students’ rights.
• To provide student assistance for the faculty to conduct events and programmes organized by the Faculty.
• To act as a platform for students to nurture their talents through various activities involvement
The Institute
Institute of Social Informatics and Technological Innovations (ISITI), was established in April 2011, given the success of our flagship bridging the digital divide pilot project, eBario. A key focus of ISITI is to bridge the technology-people’s gap; in particular, encompassing technological innovations for indigenous communities.

Our Strengths
Multi-disciplinary research conducted:
ISITI brings together more than 30 researchers from different Faculties and Centres in UNIMAS; from the social sciences, to ICTs and engineering.

Bridging the theory-practice gap:
All our researchers not only conduct research, but also go down to the ground to study, design, implement and evaluate programs at the community level.

Rapport with indigenous communities:
All our sites population comprise indigenous communities, such as the Kelabit, Penan, Lun Bawang, Dusun, Bajau, Bidayuh, Semai and Temiar ethnic groups. The rapport provides the opportunity to work with these communities on new projects, which benefits both researchers and communities involved.

Consultancy
ISITI has more than 100 man-years of experience and knowledge in both theory and practice in ICT for Development. ISITI’s researchers cover not just the research perspectives, but also are familiar with the practical aspects of the work. We offer advisory, consultancy and training services on policy formulation, strategic planning and rural informatics programs.
Members of ISITI have expertise in the following areas of ICT for Rural Development, from multiple views:
- Social engagement
- Needs analysis
- Rural wireless networks
- Renewable energy
- Rural community training
- Indigenous knowledge management
- ICT Development for rural communities
Activity Photos

Handicraft Development for Penan Artisans in Tegulang Resettlement, Murum (2nd Phase)

Sustainability, Leadership and Management Training: In Relation to Telecentre Program for the Orang Asli (TPOA) in Kuala Lipis, Pahang

MOOC-ing with Single Mothers
Animate with Scratch 2.0 Workshop

TRIZ for Parents and Teachers Workshop

Telecentre Programme for Orang Asli (TPOA) West Malaysia Handover Ceremony

TRIZ for Managers workshop

Launching of UNIMAS Ideal Campus powered by TRIZ
Established in 2007, Tourism Innovation Center is one of two research centres anchored in the Faculty of Computer Science and Information Technologies, Universiti Malaysia Sarawak.

Our Vision
Tourism Innovation Center main vision is to be the leading and internationally known in Image Processing & Spatial Technologies research and consultation by providing innovative and creative solutions and services.

Our Aim
Tourism Innovation Center promote research and consultation activities mainly specialise in Image Processing and Spatial Technologies fields. We also focus on development of software products with reliable and robust to provide high business values to our clients and hence meet their business objectives.

Research Focus
Tourism Innovation Center research focus is in the area of image processing & analysis and spatial technologies. The main research activities are related to Content Based Image Retrieval (CBIR), biometrics, medical images analysis, satellite images interpretation, spatial data acquisition tools, spatial visualisation, spatial modelling and analysis, spatial data mining, environmental and natural disaster, disease control and spatial related problem, and agriculture based management tools. The core expertise of Tourism Innovation Center is in the delivery of image processing based applications such as CBIR based search engine, satellite image interpretation for agriculture industries, spatial modelling and tools for planning, medical application related to disease control & monitoring and biometrics solutions which are of high commercial values.

National & International Collaborators
Activity Photos

Equipment Training Session

Sites Scanning

Content/Software Development
<table>
<thead>
<tr>
<th>Aktiviti / Activity</th>
<th>SEMESTER 1</th>
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<tr>
<td>Pendaftaran Pelajar Baharu (New Student Registration)</td>
<td>19 Ogos 2019 – 3 Sept 2019 (16 hari / 16 days)</td>
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<tr>
<td>(Online Registration)</td>
<td>31 Ogos 2019 (31 August 2019)</td>
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<td>• Hari Kemerdekaan (National Day)</td>
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<tr>
<td>Pendaftaran Kolej Kediaman Pelajar Baharu (Residential</td>
<td>3 Sept 2019 – 4 Sept 2019 (2 hari/2 days)</td>
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<td>College Registration)</td>
<td>16 &amp; 2 September 2019 (16 &amp; 2 September 2019)</td>
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<td>• Awal Muharram (Maal Hijrah)</td>
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<td>Minggu Aluan Pelajar (Student's Orientation Week)</td>
<td>5 Sept 2019 – 8 Sept 2019 (4 hari/4 days)</td>
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<td>Pendaftaran Pelajar Semasa (Returning Student's</td>
<td>26 Ogos 2019 – 8 Sept 2019 (2 minggu/2 Week)</td>
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<td>Registration) (Online Registration)</td>
<td>8 &amp; 9 September 2019 (8 &amp; 9 September 2019)</td>
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<td>• Hari Keputeraan Yang Di-Pertuan Agong</td>
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<tr>
<td>Pendaftaran Kolej Kediaman Pelajar Semasa (Returning</td>
<td>7 Sept 2019 – 8 Sept 2019 (2 hari/2 days)</td>
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<td>Student's Residential College Registration)</td>
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<td>13 Oktober 2019 (12 October 2019)</td>
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<td>• Hari Jadi TYT Sarawak (Sarawak Governor's Birthday)</td>
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<td>27 &amp; 28 Oktober 2019 (27 &amp; 28 Oktober 2019)</td>
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<td>• Hari Deepavali (Semenanjung Malaysia sahaja)</td>
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<tr>
<td>Perkuliahlan (Lectures)</td>
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<td>• Maulidur Rasul</td>
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<td>Cuti Pertengahan Semester 1 (Mid-Semester Break)</td>
<td>26 Okt 2019 – 3 Nov 2019 (9 hari/ 9 days)</td>
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<td>Perkuliahlan (Lectures)</td>
<td>4 Nov 2019 – 20 Dis 2019 (7 minggu/ 7 weeks)</td>
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<td>• Maulidur Rasul</td>
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<td>Minggu Ulangkaji (Revision Week)</td>
<td>21 Dis 2019 – 29 Dis 2019 (9 hari/9 days)</td>
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<td>25 Disember 2019 (25 December 2019)</td>
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<td>• Hari Krismas (Christmas)</td>
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<td>Minggu Peperiksaan (Examination Week)</td>
<td>30 Dis 2019 – 10 Jan 2020 (2 minggu/2 weeks)</td>
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<td>Cuti Semester 1 (Semester Break)</td>
<td>13 Jan 2020 – 26 Jan 2020 (2 minggu/2 weeks)</td>
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<td>Cuti Pertengahan Semester 2</td>
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<td>(Mid-Semester Break)</td>
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<td>Perkuliahan (Lectures)</td>
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<td>Minggu Peperiksaan (Examination Week)</td>
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<td>19 &amp; 20 Mei 2020 (19 &amp; 20 May 2020)</td>
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<td>1 Jun 2020 – 30 Ogos 2020</td>
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<tr>
<td>Cuti Panjang (Long Break)</td>
<td>(13 minggu/ 13 weeks)</td>
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<td>1 &amp; 2 Jun 2020 (1 &amp; 2 June 2020)</td>
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<td>20 Ogos 2020 (20 August 2020)</td>
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### ANTARSESI /INTERSESSION

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<td>(8 minggu/ 8 weeks)</td>
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Nota:
1. Tertakluk kepada pindaan.

Disediakan oleh:
Unit Pengambilan dan Kemasukan
Bahagian Pengajian Prasiswastak, Pejabat Pendaftaran, Universiti Malaysia Sarawak
## IMPORTANT CONTACTS

<table>
<thead>
<tr>
<th>Hotline UNIMAS Security Division</th>
<th>082 581999</th>
</tr>
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<tbody>
<tr>
<td>UNIMAS Security</td>
<td>082 583904</td>
</tr>
<tr>
<td>UNIMAS CCTV Control Room</td>
<td>082 581004</td>
</tr>
<tr>
<td>Kota Samarahan Police Station</td>
<td>082 662300</td>
</tr>
<tr>
<td>Kuching Police Station</td>
<td>082 244444</td>
</tr>
<tr>
<td>Kota Samarahan Fire Brigade</td>
<td>082 673881</td>
</tr>
</tbody>
</table>

## IMPORTANT CONTACTS

| Centre for Information Technology Development and Services (CITDS) | [www.citds.unimas.my](http://www.citds.unimas.my) |
| estudent (Student Information System) | [https://smpweb.unimas.my/estudent/](https://smpweb.unimas.my/estudent/) | [https://smpweb.unimas.my/CourseRegistration/](https://smpweb.unimas.my/CourseRegistration/) | [https://smpweb.unimas.my/Imark](https://smpweb.unimas.my/Imark) |
| Facebook | [https://www.facebook.com/fsktm.unimas/](https://www.facebook.com/fsktm.unimas/) |
| FCSIT Website | [http://www.fcsit.unimas.my](http://www.fcsit.unimas.my) |
| FYP Management System | [Internal network] [http://10.64.113.226/FYPSystem/](http://10.64.113.226/FYPSystem/) |
| International Affairs Division (IAD) | [www.global.unimas.my](http://www.global.unimas.my) |
| Publication Division | [http://www.publication.unimas.my/](http://www.publication.unimas.my/) |
| Research & Innovation Management Centre (RIMC) | [http://www.rimc.unimas.my/](http://www.rimc.unimas.my/) |
| Student Affairs and Alumni Division (BHEP) | [http://www.hep.unimas.my/](http://www.hep.unimas.my/) |
| Undergraduate Studies Division (BPPs) | [http://www.bpps.unimas.my/](http://www.bpps.unimas.my/) |
| Youtube | [www.youtube.com/FoCuSiTChannel](http://www.youtube.com/FoCuSiTChannel) |
| Academic Advisor | [https://smpweb.unimas.my/estudent](https://smpweb.unimas.my/estudent) |
| e-Learning@eleap | [http://eleap.unimas.my](http://eleap.unimas.my) |
| UNIMAS MOOC | [https://www.openlearning.com/unimasmoooc](https://www.openlearning.com/unimasmoooc) |
| Penyeliaan Pelajar | [https://estudent.unimas.my/PenyeliaanPelajar/](https://estudent.unimas.my/PenyeliaanPelajar/) |
UNIVERSITI MALAYSIA SARAWAK
PERATURAN
BERPAKAIAN PELAJAR

Setiap pelajar adalah tertakib kepada Peraturan Berpakaian Pelajar yang ditetapkan oleh Universiti ketika berada di dalam kampus

PAKAIAN PELAJAR LELAKI

a) Setiap pelajar hendaklah berpakaian kemas, sopan dan bersuasaian dengan keadaan sepetimana yang diarahkan oleh pihak Universiti (berseluar panjang dengan berbaju komja atau kemeja, formal berpakaian kebangsaan masing-masing yang sesuai).

b) Berambut pendek, kemas dan tidak mencecah kolar baju (Rujuk Akta Universiti dan Kolej Universiti, 1971, Perkara 26).

c) Memakai pakaian sukan yang sesuai semasa bersukan atau berekreasi.

d) Memakai kasut yang sesuai. Pemakaian seluar dan sandal adalah dilarang.

e) Tidak memakai perhiasan perempuan atau pakaian menyerupai perempuan.

PAKAIAN PELAJAR PEREMPUAN

a) Setiap pelajar hendaklah berpakaian kemas dan sopan dan bersuasaian dengan keadaan sepetimana yang diarahkan oleh pihak Universiti (pakai kebangsaan, blau atau pakaian etnik masing-masing yang sesuai dan tidak menjolok mata). Pakaian mestilah tidak ketat serta tidak memunculkan bentuk tubuh badan.

b) Memakai skirt yang labuhnya hendaklah di bawah paras lutut.

c) Memakai seluar yang bersuasaian dan sopan.

d) Memakai alat solek, aksesoris dan pewangi secara sederhana.

e) Memakai kasut yang sesuai.

TEMPAT PENGUATKUASAAN PERATURAN BERPAKAIAN

a) Menghadiri kuliah, tutorial dan amali.

b) Pusat Khidmat Maklumat Akademik (PKMA).

c) Berurusan di Fakulti/Ististitut/Pusat/Ikliman.

d) Menghadiri majlis rasmi Universiti di dalam dan di luar kampus.

e) Menduduki peperiksaan.

f) Menjalani latihan industri.

TINDAKAN TATATERTIB ATAU HUKUMAN TATATERTIB TERUCI BOLEH DIAMBIL TERHADAP PELAJAR YANG TIDAK MEMATUHI PERATURAN DI ATAS:

i) AMARAN

ii) DENDA TIDAK LEHIB DARI RM50

SEMUA PELAJAR WAJIB MEMPAMERKAN KAD PELAJAR SEMASA BERADA DI DALAM KAWASAN KAMPUS

Dikaharkan oleh: Bahagian Hal Ehwal Pelajar dan Akademi, Universiti Malaysia Sarawak
ABOUT THIS GUIDEBOOK

This guidebook is published as a resource for new Undergraduate Students of the Faculty of Computer Science and Information Technology, Universiti Malaysia Sarawak. All along this guidebook, Students will find information on programmes and description of courses offered by the Faculty. Furthermore, general information about the University, the Faculty, rules and regulations, Mentor-Mentee, PERTEKMA, Centre of Excellence, academic calendar, Faculty floor map, UNIMAS anthem, and useful links are also available for students to refer to.

ADVISOR

Assoc. Prof. Dr. Johari bin Abdullah
Assoc. Prof. Dr. Kartinah binti Zen

EDITORIAL

Annabel Katek
Wiermawaty Baizura binti Awie

ACKNOWLEDGEMENT

The Editorial Committee thanks all FCSIT staff, Faculties, Divisions and Centres at UNIMAS, for the kind and professional support in making the realisation of this Undergraduate Guidebook 2019/2020.
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<tr>
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<td>11 August</td>
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<td>15 May</td>
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<td>1 - 2 June</td>
<td>Geshi Festival</td>
<td>12 October</td>
<td>Birthday of Yang di-Pertuan Negri Sarawak</td>
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<td>1 - 6 June</td>
<td>Har Raya Puasa*</td>
<td>8 November</td>
<td>Prophet Muhammad's Birthday</td>
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<tr>
<td>22 July</td>
<td>Suteraah</td>
<td>20 December</td>
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<tr>
<td>26 Jan</td>
<td>Chinese New Year Holiday</td>
<td>25 May</td>
<td>Har Raya Aidilfitri Holiday</td>
<td></td>
</tr>
<tr>
<td>27 Jan</td>
<td>Chinese New Year Holiday</td>
<td>1 Jun</td>
<td>Har Gawai</td>
<td></td>
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<tr>
<td>16 Apr</td>
<td>Good Friday</td>
<td>2 Jun</td>
<td>Har Gawai Holiday</td>
<td></td>
</tr>
<tr>
<td>1 May</td>
<td>Labour Day</td>
<td>6 Jun</td>
<td>Agong's Birthday</td>
<td></td>
</tr>
<tr>
<td>7 May</td>
<td>Week Day</td>
<td>22 Jul</td>
<td>Suteraah</td>
<td></td>
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