Advisor:
Associate Prof Dr Kartinah Zen

Editor:
Dr Irwandi Hipiny

Editorial Team:
Annabel Katek
Nur Efarizan Mogan
Ts Dr Hamimah Ujir

Media PERTEKMA:
Fiona Goi Jwee San
Melvin Jangga anak Rupitan
Milton Bruen anak Pali
Mohd. Nur Haziq Irsyamuddin bin Junaidi

Thank you to all FCSIT family members for assisting us in producing this Guidebook.
# Table of Content

Dean’s Foreword 1

Universiti Malaysia Sarawak  
- Brief History, Vision and Mission 3  
- Executive Committee 4

Faculty of Computer Science and Information Technology  
- Vision & Mission 5  
- Facts And Figures 6  
- Management Team 7  
- Professors 8  
- Associate Professors 8-9  
- Lecturers 10-17  
- Lecturers (Study Leave) 18  
- Administrative Staffs 19  
- Technical Staffs 20

Academic Affairs and Regulations  
- Academic Regulations 21  
- Academic Sessions 22  
- Credit Requirement to Graduate 22  
- Continuous and Final Assessment 23  
- Academic Rules 24-25  
- GPA and CGPA 26  
- Course Registration/Drop Course 27  
- Student’s Academic Statuses 28  
- Passing Rule 29-30  
- Examination Rules and Regulations 31-37
# Table of Contents

## Facilities and Services
- Computer Labs 38
- Lab Rules 39
- Student Interaction Room (SIR) 40

## Academic Courses
- Course Types 41
- University Elective Courses 42-45
- English Language Courses 46-48

## Undergraduates Programmes
- PLOs and PEOs 49
- Course Coding System 50
- Computational Science 51-54
- Information Systems 55-58
- Multimedia Computing 59-62
- Software Engineering 63-66
- Network Computing 67-70
- Academic Calendar 71-72

## Life at the Faculty
- PERTEKMA 73-74
- Advisors Of PERTEKMA 75
- Committee of PERTEKMA 76-78
- Academic Advisor 79
- Service Learning 80
- Master in Information Management (MITM) 81
- Gamification Center 82
- Tourism Innovation Center 83
- Important Information 84-89
First and foremost, alhamdulillah to Allah S.W.T, for giving us the best health and condition to continue our task. Congratulations and thank you to the editor and the team for their hard work and effort in completing this guidebook. For your information, this is the first undergraduate guidebook produced in e-book format at our Faculty.

Faculty of Computer Science and Information Technology, also known as FCSIT, was established back in 1992, and since then we have successfully graduated nearly 3000 students. Currently, our faculty has 69 lecturers; 2 are Full Professors, 10 Associate Professors, 39 Senior Lecturers and 18 Lecturers. We offer five undergraduate programmes, i.e., Computational Science, Information System, Multimedia Computing, Software Engineering and Network Computing. Besides that, we also offer Master by Coursework, i.e., Master in Information Technology Management (MITM) and Master and Doctor of Philosophy by research work.

In order to maintain our teaching and learning quality, our undergraduate and postgraduate programmes are continuously assessed by the Malaysian Qualifications Agency (MQA) and external examiners from other universities and industries. Last year, our graduates’ employability rate was 91%. All staffs at the faculty play an important role towards realizing this great achievement.

Our curriculum promotes both theory and technical skills and applies critical and analytical skills in Computer Science. We also emphasize on many soft skills throughout the learning process. Under our Service-based Learning project, via the Technopreneuship and Product Development course, the students had served the community in various ways. For examples, developing websites, computerized systems, video and IT training modules. Up to date, more than 100 IT projects had been successfully delivered to villages and public schools in Kuching, Kota Samarahan and Sibu.
To maintain both physical and mental well-being, we encourage our students to be involved in various extracurricular activities organized by the Faculty, Residential Colleges and Center of Student Development.

Our official FCSIT students’ association, Persatuan Teknologi Maklumat (or PERTEKMA) also conduct many interesting activities throughout the year. I would like to personally recommend to you to not just focus on your study but to also enjoy your life as a university student.

In case you need advice and motivation, we have a good mentoring ecosystem called Academic Advisor. You will be assigned an academic mentor to advice you on any issues that you may encounter throughout your study in UNIMAS. I would also like to take this opportunity to promote UNIMAS Mobility Programme, a channel for students to travel and gain experience from other university all around the world!

I pray that our FCSIT family continue to grow and stamp a significant footprint here in the University, State, Country and also the World. You, as an undergraduate student, is an important cog in the wheel, so to speak. Welcome and and thank you again for joining us in this wonderful journey!

Associate Professor Dr Kartinah Zen
Dean,
Faculty of Computer Science and Information Technology
12th July 2020
Universiti Malaysia Sarawak, the 8th public university in Malaysia, was officially incorporated on December 24th, 1992. As a contemporary and forward-looking university, the academic programmes and research initiatives in UNIMAS are shaped in such a way to cater for the nation’s needs in meeting the challenges of the 21st century. The programmes and courses in UNIMAS are constantly evaluated and updated from time to time to ensure their aims are always dynamic, in line with current needs, and adhere to important quality control as a step towards obtaining national as well as international recognition.

**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.
UNIVERSITI MALAYSIA SARAWAK
EXECUTIVE COMMITTEE

YBhg Prof Datuk Dr Mohamad Kadim Suaidi
Vice Chancellor

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

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

YBhg Prof Dr. Kamarudin Kana
Deputy Vice Chancellor (Student Affairs & Alumni)

Tuan Haji Azlan Ramli
Registrar

Tuan Haji Mazlan Kiflie
Bursar

Prof Dr Chen Chwen Jen
Senior Director, Centre for Applied Learning and Multimedia

Prof Dr Fasihuddin Badruddin Ahmad
Senior Director, Centre for Graduate Studies

Prof Dr Lo May Chiun
Senior Director, Research, Innovation and Enterprise Centre

Prof Madya Dr Shanti Faridah Salleh
Director, UNIMAS Global

Prof Dr Siti Raudzah Ghazali
Director, Centre for Student Development

Encik Harun Maksom
Director, Centre for Information Technology Development and Services

Encik Humphrey Rayang Janang
Director, Development Office

Puan Korina Ibrahim
Director, Tun Abdul Rahman Ya’kub Library (PeTARY)

Puan Mavis Goh
Legal Officer
The Faculty of Computer Science & Information Technology (FCSIT) was established back in November 1993. During its conception and early years, the Faculty was known as the Faculty of Information Technology (FIT). In 2003, the Faculty was renamed as the Faculty of Computer Science and Information Technology. The move was to enable the Faculty to start offering Bachelor degree programmes under the Computer Science’s Body of Knowledge. To date, the Faculty offers five Bachelor degree programmes, two Master by Coursework programmes, and two advanced research degrees, i.e., PhD and MSc.

Vision
To be a 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.
FACTS AND FIGURES

1,364
Active Undergraduates

5 BSc
1 Master by Coursework
MSc & PhD

2,850
Graduates Produced

69
Academics

107
Active Postgraduates
FACULTY OF COMPUTER SCIENCE
AND INFORMATION TECHNOLOGY
MANAGEMENT TEAM
FACULTY OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY

ACADEMICIANS

Professors

Assoc Prof Dr Chiew Kang Leng
PhD (Computer Science), Macquarie University, Sydney, Australia
Computational Science Programme
Deputy Dean (Research & Commercialisation)
ckl@unicahs.my
+6082-583690

Assoc Prof Dr Hj Ouyang Nurul'mohi binti Awang Iskandar
PhD (Computer Science), Royal Melbourne Institute of Technology, Australia
Multimedia Computing Programme
ofo@unicahs.my
+6082-583690

Assoc Prof Dr Edwin Mi
PhD (Software Engineering), University of Salford, United Kingdom
Software Engineering Programme
edwin@unicahs.my
+6082-583690

Assoc Prof Dr Jane Labadz
PhD (Computational Mathematics), Imperial College London, United Kingdom
Computational Science Programme
jlabadz@unicahs.my
+6082-583690

Assoc Prof Dr Hasriul bin Lenando
PhD (Mobile Communications), Cardiff University, United Kingdom
Network Computing Programme
co6@unicahs.my
+6082-583690

Associate Professors

Prof Dr Narayanan Kumahtarami
PhD (Dr Techn), University of Graz, Austria
Software Engineering Programme
Director (Institute of Social Informatics & Technological Innovation)
nra@unicahs.my
+6082-583690

Prof Dr Wang Yin Chai
PhD (Geographical Information System), Universiti Sains Malaysia
Multimedia Computing Programme
Director (Tourism Innovation Center)
cywa@unicahs.my
+6082-583690
Academicians

Associate Professors

Assoc Prof Dr Johari bin Abdullah
PhD (Computing Science), Newcastle University, United Kingdom
Network Computing Programme
njohari@unimas.my
+6082-583636
Block B, HoD Room
Level 3

Assoc Prof Dr Koriyani binti Zen
PhD (Wireless Sensor Network), Edith Cowan University, Australia
Network Computing Programme
koriyani@unimas.my
+6082-583767
General Office

Assoc Prof Dr Mohd Nazim bin Jamidi
PhD (Computing Science), Newcastle University, United Kingdom
Network Computing Programme
Deputy Director (Centre for Student Development)
jmazin@unimas.my
+6082-392604
CUBE, 10

Assoc Prof Dr Hj Noor Alamshah bin Belhassan
PhD (Computer Science & Engineering), University of Aizu, Japan
Programme Coordinator (Multimedia Computing)
hjalamshah@unimas.my
+6082-583736
Block B, 2F

Assoc Prof Dr Tan Cheng Eng
PhD (Broadband Wireless), University of Cambridge, United Kingdom
Network Computing Programme
tce@unimas.my
+6082 583791
Block B, 3A
Academicians

Senior Lecturers/Lecturers

Dr Shapiee bin Abd Rahman
PhD (Computer Science & Engineering), University of Aizu, Japan
Computational Science Programme
sar@unimas.my
+6082-583756
Block B, 1P

Inson binti Din
MSc (Information Systems), University of Leeds, United Kingdom
Information Systems Programme
chohnebunimas.my
+6082-583638
Block B, 1C

Dr Azman bin Bujang Masii
PhD (Software Engineering), University of Sheffield, United Kingdom
Software Engineering Programme
brazam@unimas.my
+6082-583652
Block B, 1K

Soleviahawati binti Tarmizi
Master in Information Technology (Data Communications), Queensland University of Technology, Australia
Network Computing Programme
swa@unimas.my
+6082-583654
Block B, 1J

Dr Janey Lynn Minai
PhD (Computer Science), Imperial College
London, United Kingdom Multimedia Computing Programme
Director (Gamification Center)
jacey@unimas.my
+6082-583747
Block B, 2T

Dr Dayang Hanani binti Abang Ibrahim
PhD (Computing Science) Newcastle University, United Kingdom
Information Systems Programme
hananii@unimas.my
Note: Secended to State

Eugenie Phang
MSc (Software Engineering), University of Brighton, United Kingdom
Software Engineering Programme
epca@unimas.my
+6082-583664
Block B, 1U
FACULTY OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY

Academicians

Dr Yanti Rosmunie binti Bujang
PhD in Information Technology, IIUM, Malaysia
Deputy Dean of Student Affairs and Alumni
byanti@unimas.my
+6082583768
Block B, HoD Room
Level 3

Jonathan Sidi
Master (Interactive Multimedia), University of Technology Sydney, Australia
Multimedia Computing Programme
jonathan@unimas.my
+6082583808
Block B, 3Q

Ts Tn Hj Syahrul Nizam bin Junaini
MSc (Multimedia System), University of Bradford, United Kingdom
Multimedia Computing Programme
syahrul@unimas.my
+6082583817
Block B, 3T

Dr Mohammad bin Hossin
PhD (Intelligent Computing), Universiti Putra Malaysia
Information Systems Programme
hmohammad@unimas.my
+6082-583728
Block B, 2L

Tn Hj Ahmad Hadinata bin Fauzi
MSc (Network Computing), Monash University, Australia
Network Computing Programme
hadinata@unimas.my
+6082583635
Block B, 1V

Ts Tn Hj Abdul Rahman bin Mat
MSc (Computer Science & Engineering), University of Aizu, Japan
Software Engineering Programme
marachman@unimas.my
+6082583724
Block B, 2E

Dr Nadiantara binti Musa
PhD (IS/IT Security Governance), University of Tasmania, Australia
Information Systems Programme
nadia@unimas.my

Note:
Seconded to State
Academicians

Nurul Aina binti Jail
MSc (Real-Time Software Engineering), Universiti Teknologi Malaysia
Software Engineering Programme
Programme Coordinator (Software Engineering)
jnurul@unikom.my
+6082503614
Block B, 31

Vanessa Woei Bui Lin
MSc (Real-Time Software Engineering), Universiti Teknologi Malaysia
Software Engineering Programme
bwoe@unikom.my
+6082503720
Block B, 2F

Dr Cheong Wei Shiang
PhD (Software Engineering), Melbourne University, Australia
Software Engineering Programme
wcheong@unikom.my
+6082-583800
Block B, 30

Tz Mohd Nazri bin Kairuddin
MSc (Computer Science), Universiti Sains Malaysia
Information Systems Programme
mohd@mikom.my
+6082-582609
CUBE, G12

Terrin Lim
MSc (Biocomputing), Imperial College London, United Kingdom
Computational Science Programme
Industrial Training Coordinator
terrin@unikom.my
+6082503714
Block B, 2C

Dr Bong Chih How
PhD (Computer Science), University of Colorado Boulder, USA
Information Systems Programme
Pro-CEL Coordinator
choong@unikom.my
+6082-583796
Block B, 3G

Wastei binti Mohamed Ghazalan
MSc (Software Engineering), Universiti Putra Malaysia
Information Systems Programme
SUWIM Coordinator
wastei@unikom.my
+6082503703
Block B, 2G
FACULTY OF COMPUTER SCIENCE
AND INFORMATION TECHNOLOGY
Academics

Dr. Chai Soo Sze
PhD (Spatial Sciences), Curtin University of Technology, Australia
Software Engineering Programme
sschool@unimas.my
+6082-583837
Block B, 20

Muhammad Asyraf bin Khaireuddin
MSc (Computer Science), Universiti Teknologi Malaysia
Software Engineering Programme
MPU Coordinator
kmasyraf@unimas.my
+6082592600
CUBE, 14 LG Petor

Dr. Sarah Flora Samson Juan
PhD in Computer Science (Automatic Speech Recognition), Grenoble University, France
Computational Science Programme
sjohnson@unimas.my
+6082-583629
Block B, 3M

Dr. Suriati Kharlina Binti Jali
PhD (Computing), Coventry University, United Kingdom
Multimedia Computing Programme
Head of Faculty Quality Management Committee
jkharlina@unimas.my
+6082593727
CUBE, 44

Dr. Noraisiah binti Aminar
MSc (Information Technology), Queensland University of Technology, Australia
Network Computing Programme
Programme Coordinator (Network Computing)
arnoraisiah@unimas.my
+6082594088
CUBE, 51

Amelia Jali Robert Junii
Master of Information Technology,
University of New South Wales, Australia
Multimedia Computing Programme
jjunii@unimas.my
+6082592653
CUBE, G Floor
No 38

Dr. Sze Sen Nah
PhD (Operations Management), University of Sydney, Australia
Computational Science Programme
Deputy Dean of Industry & Community Engagement
ssniah@unimas.my
+6082583619
General Office
FACULTY OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY
Academicians

**Dr. Fatihah binti Ramli**
PhD (Information Science) University Kebangsaan Malaysia
Information Systems Programme
Programme Coordinator (Information Systems)
fatihah@unimas.my
+6082583663
Block B, 1N

**Dr. Lau Sei Peng**
PhD (Computer Science), University of Southampton,
United Kingdom
Network Computing Programme
Head of UFPK
seip@unimas.my
+6082583796
Block B, 3K

**Mohammad Johan bin Ahmad Khir**
MSc (Information Technology), Monash University, Australia
Software Engineering Programme
mjk@unimas.my
+6082583726
Block B, 2H

**Ling Yee Yong**
MSc (Computer Science), University of California State, USA
Computational Science Programme
yling@unimas.my
+6082583717
Block B, 2I

**Dr. Tiong Wei King**
PhD Loughborough University, United Kingdom
Computational Science Programme
Head of Strategy
wktang@unimas.my
+6082582722
Block B, 2N

**Dr. Weng Hui Hui**
PhD (Computer Science), Universiti Teknologi Malaysia
Software Engineering Programme
hwiang@unimas.my
+6082583731
Block B, 2M

**Dr. Stephanie Choo Hui Li**
PhD (Computer Science), University of Liverpool, United Kingdom
Information Systems Programme
Programme Coordinator (VAIT)
+6082583727
Block B, 2J
FACULTY OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY

Academicians

Nurul Zawiyah binti Mohamad
MSc (Computer Science), Universiti Teknologi Malaysia
Information Systems Programme
nanzawiyah@unimas.my
+6082363041
Block B, 11

Dr. Irwandi Hj. Pimny
PhD (Computer Vision), University of Bristol, United Kingdom
Multimedia Computing Programme
Deputy Dean (Undergraduate)
nmathlab@unimas.my
+6082-583765/3797
General Office

Dr. Suhaila binti Soso
PhD (Information Technology), Multimedia University
Information Systems Programme
Programme Coordinator (MTM)
suhaila@unimas.my
+6082363712
Block B, 2A

Lee Jun Chei
MSc (Computer Science), Universiti Sains Malaysia
Information Systems Programme
Blended-Learning Coordinator
julee@unimas.my
+6082363712
Block B, Level 3

Dr. Hamimah binti Uthir
PhD (Computer Engineering), University of Birmingham, United Kingdom
Computational Science Programme
Director (Academic Quality Assurance Division)
hamimah@unimas.my
+6082-582415/3793
Block B, 3F

Dr. Mohamad Imran bin Hj. Bandan
PhD (Computer Science), University of Bristol, United Kingdom
Network Computing Programme
Postgraduate Coordinator
bimran@unimas.my
+6082363645
CUBE, 46

Dr. Nuhah binti Eting Othman
PhD (Science), Osaka University, Japan
Computational Science Programme
Ionuhah@unimas.my
+6082-583738
Block B, 2V
FACULTY OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY

Academicians

Dr Phong Phau
PhD (Mathematics and Statistics), Curtin University, Australia
Computational Science Programme
Programme Coordinator (Computational Science)
pphau@unimas.my
+6082583739
Block B, 2W

Dr Tan Ping Pong
PhD (Engineering), University of Melbourne, Australia
Software Engineering Programme
ptan@unimas.my
+6082592649
CUBE, 42

Azlina binti Ahmad Julami
MSc (Computer Science), Universiti Teknologi Malaysia
Network Computing Programme
ajazlina@unimas.my
+6082593716
Block B, 2G

Emmy Dailiana binti Hossain
MSc (Computer Science), Universiti Sains Malaysia
Information Systems Programme
vocod Coordinator
etdailiana@unimas.my
+6082593643
Block B, 1W

Norazian binti Mohd Hamdan
MSc (Computer Science), Universiti Teknologi Malaysia
Software Engineering Programme
nmnorazian@unimas.my
+6082592642
Block B, 1L

Jennifer Fiona Wilfred Bawu
MSc (Computer Science), Universiti Sains Malaysia
Information Systems Programme
Coordinator (USC)
wbjofona@unimas.my
+6082592893/3664
Block B, 1P

Kaan Ihsanabadi
MSc (Network Systems Engineering), Plymouth University, United Kingdom
Network Computing Programme
traian@unimas.my
+6082583666
Block B, 1G
Dr. Izzatul Nabila binti Sarbini  
PhD, Universiti Putra Malaysia  
Computational Science Programme  
+6082583649  
sinabila@unimas.my  
Block B, 1F

Dr. Lim Phei Chin  
PhD ('Text and Data Mining') Universiti Malaysia Sarawak  
Multimedia Computing Programme  
pchm@unimas.my  
+6082583746  
Block B, 2U

Dr. Asrion Shahid Khan  
PhD ('Telecommunication Security in Mobile Multihop Relay Networks'), Universiti Teknologi Malaysia  
Network Computing Programme  
skadharn@unimas.my  
+6082 583718  
Block B, 2K

Dr. Sze Jooi Fong  
PhD ('Operational Research'), University of Kent, United Kingdom  
Computational Science Programme  
sjfsze@unimas.my

Note:  
Unpaid Leave
FACULTY OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY
Study Leave

Noor Hadini binti Haji Borhan
MSc (Computer Science), Universiti Teknologi Malaysia
Software Engineering Programme
bnhadini@unimas.my

Chiu Po Chan
MSc (Information Technology), Universiti Malaysia Sarawak
Information Systems Programme
pechiu@unimas.my

Hanjizan binti Sharbini
MSc (Computer Science), Universiti Teknologi Malaysia
Software Engineering Programme
shanzan@unimas.my

Nortdzizan bin Yusup
MSc (Computer Science), Universiti Teknologi Malaysia
Software Engineering Programme
ynortdzizun@unimas.my
ADMINISTRATIVE STAFFS

Mohamad Zaky Gardafi bin Ibrahim
Chief Assistant Registrar

Annabel anak Katek
Senior Assistant Registrar

Sendi Tangan
Personal Assistant (Dean)

Dayang Noriani bt Abang Othman
Senior Administrative

Emylie Conia Anak Abdul
Personal Assistant

Etah bt Maharup
Senior Administrative Assistant

Dayang Normiza bt Abang Nor Jali
Senior Administrative Assistant

Rosbani bt Bujang
Administrative Assistant

Cynthia Joseph Jiken
Administrative Assistant

Siti Nor Aishah binti Bujang
Administrative Assistant

Nur Efarizan bt Mogan
Guest Relation Officer

Norfirdaus B Dillah
General Assistant
TECHNICAL STAFFS

Nur Sherina James Abdullah
Chief Assistant Director

Sarina Bt Ahmad
Senior Assistant Information Technology Officer

Wan Hosen Wan Shekh
Senior Assistant Engineer

Wiermawaty Baiturahim Bt Awie
Assistant Information Technology

Mohamad Arif Ibrahim
Senior Assistant Engineer

Mohamas Shahril Berdam
Assistant Information Technology

Zuhilmi Roslan
Assistant Engineer

Muhamad Izuwan Mornin
Assistant Engineer

Razek Jelihi
Senior Technician
Academic Regulations

All registered Undergraduate Students of the University are bound by UNIMAS Academic Regulations of Undergraduate Studies.

The document is available at the following URL: bpps.unimas.my/rules-regulations.

Academic Ethics

The following definitions are sourced from UNIMAS Academic Regulations of Undergraduate Studies:

- **Academic offences** - Any violations of the Academic Regulations of Undergraduate Studies and University College Act (UUCA), 1971 (Amended 2009) in Methods of Universiti Malaysia Sarawak (Students’ Discipline) 1999

- **Academic punishments** - The punishment imposed on students by the Disciplinary Committee (Academic) for academic offenses.

- **Plagiarism** - Presentation of work which had been copied in whole or in part from another person’s work or from any other sources, e.g., the internet and published materials, without due acknowledgements.

- **Collusion** - Presentation of work that is the result in whole or in part of unauthorised collaboration with another person(s).

- **Cheating** - To cheat or attempting to cheat or behave in a manner that can be construed as cheating or attempting to cheat during an examination.
One Academic Year consists of two Semesters, and one Intersession. At our Faculty, Programme Core and Specialisation are not offered during Intersession, except for extenuating circumstances.

Academic Calendar for Undergraduate Studies is available here: bpps.unimas.my/academic-calendar.

Duration of Study
The duration of study for all BSc programmes at our Faculty is 4 Academic Years / 8 Semesters.

Credit Requirement to Graduate
The credit requirement to graduate is the same for all BSc programmes at our Faculty:

<table>
<thead>
<tr>
<th>Type</th>
<th>Code</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Generics / Remedials / Reinforcements</td>
<td>PPD, PBI, PBM</td>
<td>7 credits</td>
</tr>
<tr>
<td></td>
<td></td>
<td>*11 credits for students with MUET Band 2 or lower</td>
</tr>
<tr>
<td>General Education Subjects</td>
<td>MPU</td>
<td>10 credits</td>
</tr>
<tr>
<td>Programme Core</td>
<td>TMF</td>
<td>69 credits</td>
</tr>
<tr>
<td>Programme Specialisation</td>
<td>TMS – WC00 CS</td>
<td>37 credits</td>
</tr>
<tr>
<td></td>
<td>TMI – WC03 IS</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TMT – WC09 MC</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TME – WC10 SE</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TMN – WC11 NC</td>
<td></td>
</tr>
<tr>
<td>University Electives</td>
<td>KEU</td>
<td>9 credits</td>
</tr>
<tr>
<td></td>
<td>Refer to Page 41</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>132 credits</td>
</tr>
</tbody>
</table>
ACADEMIC RULES

Continuous & Final Assessment

Assessments at the Faculty can be categorised into two groups, i.e., Continuous vs Final. Continuous assessments are conducted throughout the Semester with the aim of providing students with immediate feedbacks for spotting weaknesses and correcting misunderstandings. Final assessment is conducted at the end of the Semester during the Examination Weeks and typically in the form of a paper-based examination.

All assessments measure at least one of the stated Course Learning Outcomes (CLOs). The total marks determines the Course Grade. Course grades are endorsed by Jawatankuasa Akademik Fakulti and later approved by the University Senate. Once Senate approval is issued, the Course Grades are final.

Course Grade Classification
The following course grade classification is effective for 2015/2016 cohort onwards.

Credit Requirement to Graduate
The credit requirement to graduate is the same for all BSc programmes at our Faculty:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Range</th>
<th>Grade Point</th>
<th>Classification</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>Failed</td>
</tr>
<tr>
<td>F</td>
<td>&lt;40</td>
<td>0.00</td>
<td></td>
</tr>
</tbody>
</table>
Student will receive either a Pass or a Fail for the Grade Classification. Apart from the two, there are several other Grade Classifications to cater for different scenarios.

The complete list of all Grade Classifications are listed below:

<table>
<thead>
<tr>
<th>Grade Classification</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>G</strong></td>
<td>Gagal Failed</td>
</tr>
<tr>
<td><strong>KBn</strong></td>
<td>Kursus Baiki Improve Course</td>
</tr>
<tr>
<td><strong>KK</strong></td>
<td>Kes Gangguan Kesihatan Health Disturbance</td>
</tr>
<tr>
<td><strong>KT</strong></td>
<td>Kursus Tambahan Additional Course</td>
</tr>
<tr>
<td><strong>L</strong></td>
<td>Lulus Pass</td>
</tr>
<tr>
<td><strong>PK</strong></td>
<td>Pindah Kredit Credit Transfer</td>
</tr>
</tbody>
</table>
Student will receive either a Pass or a Fail for the Grade Classification. Apart from the two, there are several other Grade Classifications to cater for different scenarios.

The complete list of all Grade Classifications are listed below:

<table>
<thead>
<tr>
<th>Grade Classification</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rn</td>
<td>Kursus Ulangan Repeat Course</td>
</tr>
<tr>
<td></td>
<td>The code is printed on the semester examination slip for each repeated course(s) registered by the Student during the current Semester. Only the latest Course Grade and Grade Point for the repeated course is taken into account when calculating Grade Point Average (GPA) and Cumulative Grade Point Average (CGPA). The letter ‘n’ indicates the number of times the Course had been registered by the Student.</td>
</tr>
<tr>
<td>TD</td>
<td>Tarik Diri Withdraw</td>
</tr>
<tr>
<td></td>
<td>Given to all Courses registered by a Student whom had been approved by the Dean of the Faculty to stop voluntarily from continuing his or her study in UNIMAS.</td>
</tr>
<tr>
<td>TL</td>
<td>Tidak Lengkap Incomplete</td>
</tr>
<tr>
<td></td>
<td>Given to a Course registered by a Student whom had completed at least 70% of the course requirements, subject to the Dean’s approval. The student can resume the Course from the previous checkpoint next Semester.</td>
</tr>
</tbody>
</table>
GPA AND CGPA

Grade Point Average (GPA) is the average value of Student’s accumulated final grades earned in a Semester.

Cumulative Grade Point Average (CGPA) is the average value of Student’s accumulated final grades earned in accumulated Semesters.

How to Calculate your GPA?
Step 1: Course Credit x Grade Point = Total Grade Point (TGP)
Step 2: Sum all TGP
Step 3: TGP/Total Course Credit

How to Calculate your CGPA?
Step 1: Sum all up your TGP for all semester = Total TGP
Step 2: Total TGP/Total course credits already taken

How to Achieve your target CGPA?
Step 1: Sum all up your TGP for all semester = Total TGP
Step 2: Sum all TGP
Step 3: TGP/Total Course Credit
At the beginning of each Semester, after completing your Student Registration, please register for Courses listed in your Study Plan. To register, please visit the following URL: estudent.unimas.my. Always check the Semester’s timetable to ensure that there are no time slot clashes.

You must register a minimum of 8 credits and a maximum of 20 credits each Semester. For Students with CGPA 2.50 and below, the maximum is capped at 15 credits per Semester. You need to apply for permission from the Dean to register out-of-range credits (max is 22 credits). Typically the deadline to apply *Permohonan Luar Julat* is before the end of Week 2.

You may drop a Course before the end of Week 4. If you plan to drop a Course within Week 5 and Week 8, a 100MYR penalty per course will be imposed. Drop course is no longer allowed after Week 8.
STUDENT’S ACADEMIC STATUSES

At the end of a Semester, a Student is given one of the following Academic Statuses:

Lulus (L) – Passed all Courses and obtained a CGPA of 2.00 or higher.

Lulus Mengulang Kursus (LMK) – Obtained a CGPA of 2.00 or higher but had failed at least one Course. Must repeat the failed Course(s) before graduating.

Lulus Bersyarat (LB) – Obtained a CGPA between 1.75 and 1.99. The Student must improve his or her CGPA next Semester to 2.00 or higher. Failure to do so (i.e., two successive LB semesters) will result to a GB status.

Gagal dan Diberhentikan (GB) – Obtained a CGPA less than 1.75 or failed to improve CGPA to 2.00 or higher after obtaining an LB status during the previous Semester.
Effective from Semester 2 2018/2019, all FCSIT Undergraduate Students are subjected to a new passing rule for Programme Core and Programme Specialisation Courses. The rule is explained below:

**Students must achieve at least 20% of the sub-total for Continuous Assessment(s); and at least 20% of the sub-total for Final assessment(s),**

**The sum of marks obtained for Continuous and Final assessment(s) is equal or higher than 45/100 (C-).**

The rule does not apply to Generic/Remedial/Reinforcement Courses, General Education Courses (MPUs) and University Elective Courses (KEUs).

For example,

Student A, B, C and D are taking Course XYZ. The total mark is split 60:40, i.e., 60 marks for Continuous assessment(s), CA, and 40 marks for Final assessment(s), FA.

To pass the course, each student must fulfil the following condition:\(^1\&\)^\(^2\):

- 20% of 60,
  Obtained a minimum of 12 marks for CA,
  &
- 20% of 40,
  Obtained a minimum of 8 marks for FA,
  &
- CA + FA must be 45/100 (C-) or higher

---

\(^1\)As approved during the 176th UNIMAS Senate meeting.

\(^2\)As stated in the Malaysian Qualifications Agency’s Program Standards: Computing
CONSIDER THE FOLLOWING SCENARIOS

<table>
<thead>
<tr>
<th></th>
<th>CAs</th>
<th>FAs</th>
<th>Total</th>
<th>Outcome</th>
</tr>
</thead>
<tbody>
<tr>
<td>Student A</td>
<td>12/60</td>
<td>8/40</td>
<td>20/100</td>
<td>Fail with grade F. Total is less than 45/100</td>
</tr>
<tr>
<td>Student B</td>
<td>55/60</td>
<td>2/40</td>
<td>57/100</td>
<td>Fail with grade D. Student did not manage to obtain the minimum passing mark for Final Assessment(s).</td>
</tr>
<tr>
<td>Student C</td>
<td>50/60</td>
<td>8/40</td>
<td>58</td>
<td>Pass with grade C+.</td>
</tr>
<tr>
<td>Student D</td>
<td>59/60</td>
<td>0/40</td>
<td>59</td>
<td>Fail with grade D. Student did not manage to obtain the minimum passing mark for Final Assessment(s).</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Absent from Final Exam - Not eligible to sit for PUK (UNIMAS Academic Regulation # 10.4.3)</td>
</tr>
</tbody>
</table>
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:

- 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.

- Slippers, short skirts/short pants, sleeveless shirts ARE NOT ALLOWED.

- 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:

- Students are **NOT ALLOWED** to bring any electronic gadgets, including handphones, smart devices, electronic dictionaries/translators or any other electronic gadgets into the examination room/hall (except for calculator, if permitted).

- 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.

- Students are advised to be present at least 15 minutes before an examination starts. Any students, who is 30 minutes late after the examination starts, **WILL NOT** be admitted into the examination room/hall.

- Students are required to bring along their **EXAMINATION SLIP** and **MATRIC CARD/ IDENTITY CARD (IC)** to every examination.

- Students are strictly reminded **NOT TO WRITE ANY NOTES OR SYMBOLS ON THE EXAMINATION SLIP** either related or not related to the examination.

- Valuables such as purse/wallet should be placed 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.
EXAMINATION RULES AND REGULATIONS

During the Examination:

- When entering the examination room/hall, please be silent and take your seat quietly. Students are not allowed to talk to each other.

- Students must sit according to their assigned seat number. Please take note of your seat number and venue for each examination. The seating list should be made available before the Examination Week starts.

- 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.

- Students MUST NOT turn over or start to read the examination paper until told to do so.

- 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.

- Students are strictly reminded NOT TO WRITE ANY NOTES OR SYMBOLS ON THE EXAMINATION SLIP either related or not related to the examination.

- Permission to use the toilet will only be given to one student at any one time.
EXAMINATION RULES AND REGULATIONS

During the Examination:

- 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. Permission to use the toilet during examination is upon approval of the Chief Invigilator.

- Students are responsible to ensure that their answer scripts are submitted at the end of the examination. If the student failed to submit his/her answer script, the student is deemed to have sat for and failed the examination.

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

- 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).

- 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.

- Students must obey all instructions given by the Chief Invigilator at all times.
EXAMINATION RULES AND REGULATIONS

Students Absent From the Examination:

- 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.

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

Toilet Break:

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

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

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

- A student may visit the toilet only ONCE during each examination.
Toilet Break:

To request permission for a toilet break, the following procedure must be observed:

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

Note:

ALL STUDENTS ARE NOT ALLOWED TO BRING IN THEIR HANDPHONES OR ANY ELECTRONIC DEVICES EXCEPT FOR 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 is not responsible for the loss of any belongings, within or outside the examination room/hall.

*Only if permitted

Final Exam Advisory
Examination day checklist:
- Exam slip
- Matric card / NRIC / Passport
- Stationaries (including Calculator)

PROHIBITED ITEMS:
- Any electronic devices
- Pencil Case
- Notes, Books et cetera
FINAL EXAM ADVISORY

Note:

You may put your electronic gadgets inside a clear plastic bag* labelled with your name, matric number and handphone number. 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 AND SERVICES

Computer Labs

- Our labs are only open for:
- Registered FCSIT Students
- UNIMAS Students taking our Faculty’s course.
- UNIMAS Students with written permission from the Faculty’s Assistant Registrar or Information System Officer.

UNIMAS Single ID is required to access the computers.

Opening Hours (subject to change during Semester break):

<table>
<thead>
<tr>
<th>Day</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday - Thursday</td>
<td>8:00 am - 1:00 pm, 2:00 pm - 5:00 pm</td>
</tr>
<tr>
<td>Friday</td>
<td>8:00 am - 12:00 pm, 2:30 pm - 5:00 pm</td>
</tr>
</tbody>
</table>

List of Computer labs accessible to Undergraduate Students:

<table>
<thead>
<tr>
<th>Lab Name</th>
<th>Block</th>
<th>Lab Name</th>
<th>Block</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open Source Lab</td>
<td>LG</td>
<td>Teaching Lab 1</td>
<td>LG</td>
</tr>
<tr>
<td>Multimedia Lab 1</td>
<td>G</td>
<td>Teaching Lab 2</td>
<td>LG</td>
</tr>
<tr>
<td>Multimedia Lab 2</td>
<td>G</td>
<td>General Lab</td>
<td>LG</td>
</tr>
<tr>
<td>Network Lab 1</td>
<td>1</td>
<td>Computational Science Lab</td>
<td>G</td>
</tr>
<tr>
<td>Network Lab 2</td>
<td>1</td>
<td>Information System Lab</td>
<td>G</td>
</tr>
<tr>
<td>Artificial Intelligence Lab</td>
<td>1</td>
<td>Final Year Project Lab</td>
<td>G</td>
</tr>
</tbody>
</table>
RULES IN FACULTY’S LAB

Please observe the following rules when using the Faculty’s lab facilities:

- Ensure your Matric card is visible at all time.
- Wear proper attire adhering to UNIMAS’s guidelines.
- Do not bring any bags to the computer desk. Place them at the designated shelves.
- Do not bring any food or drinks inside.
- Do not make/receive any phone call when inside the lab.
- Do not alter the computer default settings without prior permission from the Lab Technician.
- Do not install any software or drivers without prior permission from the Lab Technician.
- Do not remove or relocate any computer equipment, wires, cables et cetera without prior permission from the Lab Technician.
- Faulty hardware must be reported to the Lab Technician at once. Student at fault is responsible to replace any damaged or lost equipment.
- Switch off the computer after use.
- If you wish to bring in your own personal devices, e.g., laptops, sensors, Arduinos, Raspberry Pis et cetera, please register the device with the Lab Technician first.

Please abstain from doing any actions that may damage the lab facilities and/or the Faculty’s network such as introducing viruses, installing malware and performing network attack of any kind. Disciplinary action awaits caught offenders.

Locations of WiFi access points are marked inside the Floor map (see Page 85) using this icon 📡.
Student Interaction Room (SIR) is located at Block B, Level G. SIR is a designated room for FCSIT students to socialise and perform collaborative work in a relaxing and casual manner. The room is equipped with tables and chairs, sofas and bean bags. You can also use the whiteboards, board games and free-to-use text books. A paid printing service is also available upon request.

SIR is managed by PERTEKMA SIR Excos. The regular opening hours are 8.30am until 5pm. The opening hours can be extended by request.

**SIR WELCOMES EVERYONE!**

Just follow these 3 simple rules:

1) Remove your footwears before entering.
2) Do not bring any foods or drinks inside.
3) Always maintain decorum.
Course Types

There are six course types in UNIMAS:

- Generic Courses
- Remedial Courses
- Reinforcement Courses
- General Education Subjects (MPUs)
- Programme Core Courses
- Programme Specialisation Courses
- University Electives (KEUs)

Generics, Remedials, Reinforcements and MPUs are University Courses offered to all UNIMAS’s Undergraduate Students.

Programme Core Courses are compulsory to all FCSIT’s Undergraduate Students.

Programme Specialisation Courses are courses specific to your chosen Programme.

You must register 3 non-FCSIT University Elective Courses from a maximum of TWO clusters. The clusters are:

- Science, Technology and Medicine
- Social Sciences and Humanities
- Business and Management
- Creative Art and Design
- Linguistics and Communication
## UNIVERSITY ELECTIVE COURSES

<table>
<thead>
<tr>
<th>Cluster</th>
<th>Cluster Categories</th>
<th>Code and Course Name</th>
<th>Semester Offered</th>
<th>Faculty Offered</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Science, Technology and Medicine</td>
<td>1. MDU1033 Healthy Lifestyle</td>
<td>1</td>
<td>FMHS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. MDU1043 Introduction to Medical Entomology</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. MDU1123 Introduction to Learning Disabilities</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>4. MDU1073 Introduction to Biomedical Physiology</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>5. MDU1083 Introduction to Health and Behavior</td>
<td>1&amp;2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>6. MDU1013 Basic First Aid</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>7. MDU1023 Introduction to Medical Genetic</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1. TMU1013 Introduction to Computer Technologies</td>
<td>1&amp;2</td>
<td>FCSIT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. TMU1023 Ethics in Information Technology</td>
<td>1&amp;2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. TMU1043 Multimedia Technology</td>
<td>1&amp;2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>4. TMU1053 Mathematics in Daily Life</td>
<td>1&amp;2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1. STU1013 Introduction to Biotechnology</td>
<td>1&amp;2</td>
<td>FRST</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. STU1033 Aquatic Science and Daily Life</td>
<td>1&amp;2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. STU1043 Introduction to Plant Physiology</td>
<td>1&amp;2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>4. STU2063 Ecotourism Industry in Malaysia</td>
<td>1&amp;2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>5. STU2073 Natural Resource Managements</td>
<td>1&amp;2</td>
<td></td>
</tr>
<tr>
<td>Cluster Categories</td>
<td>Code and Course Name</td>
<td>Semester Offered</td>
<td>Faculty Offered</td>
<td></td>
</tr>
<tr>
<td>------------------------------------</td>
<td>--------------------------------------------------------------------------------------</td>
<td>------------------</td>
<td>-----------------</td>
<td></td>
</tr>
<tr>
<td>Science, Technology and Medicine</td>
<td>1. KNU1013 Introduction to Green Technology</td>
<td>1</td>
<td>FE</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2. KNU1033 Energy Environment and Society</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3. KNU1073 Introduction to Solar Photovoltaic System</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4. KNU1023 Engineers in Society</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>5. KNU1053 Safety Management in Workplace</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>6. KNU1103 Introduction to Hydro Power System</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>7. KNU1093 Water Resources in Community Development</td>
<td>1&amp;2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1. KMU1053 Theories and Concepts: Human Computer Interaction</td>
<td>1</td>
<td>FCSHD</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1. BEU1013 Building Anatomy and Basic Estimating</td>
<td>1</td>
<td>FBE</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2. BEU1033 Fundamentals of the Built Environment</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Social Science and Humanities</td>
<td>1. KMU1013 Helping Relationship</td>
<td>1&amp;2</td>
<td>FCSHD</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2. KMU1063 Introduction to Mental Health</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1. SSU1013 Basics of Social Science</td>
<td>1&amp;2</td>
<td>FCSHD</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2. SSU1033 Introduction to Psychology</td>
<td>1&amp;2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3. SSU1023 Basics of Anthropology and Sociology</td>
<td>1&amp;2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4. SSU1053 Introduction to Social Interaction</td>
<td>1&amp;2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cluster</td>
<td>Cluster Categories</td>
<td>Code and Course Name</td>
<td>Semester Offered</td>
<td>Faculty Offered</td>
</tr>
<tr>
<td>---------</td>
<td>------------------------</td>
<td>-----------------------------------------------------------</td>
<td>------------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>3</td>
<td>Business and Management</td>
<td>1. KMU1023 Introduction to Human Resource Development</td>
<td>2</td>
<td>FCSHD</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. EBU1053 Online Business Management</td>
<td>1&amp;2</td>
<td>FCSHD</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. EBU1023 Managing Small Business Accounts</td>
<td>1&amp;2</td>
<td>FCSHD</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4. EBU1033 Malaysian Economic Environment</td>
<td>1&amp;2</td>
<td>FCSHD</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5. EBU2043 Introduction to Intellectual Property</td>
<td>1&amp;2</td>
<td>FCSHD</td>
</tr>
<tr>
<td></td>
<td></td>
<td>6. EBU1063 Smart Money Management</td>
<td>1&amp;2</td>
<td>FCSHD</td>
</tr>
<tr>
<td>4</td>
<td>Creative art and Design</td>
<td>1. GKU1013 Modern Malay Drama and Theatre of Malaysia</td>
<td>1</td>
<td>FACA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. GKU1033 Digital Photography and Social Media Imaging</td>
<td>1</td>
<td>FACA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. GKU1043 History of Malaysian Cinema</td>
<td>1</td>
<td>FACA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4. GKU1053 History of Drama and Theatre</td>
<td>2</td>
<td>FACA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5. GKU1063 Introduction to Basic Music</td>
<td>2</td>
<td>FACA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>6. GKU1083 Introduction to Stage Directing</td>
<td>2</td>
<td>FACA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>7. GKU1093 Basic Figure Drawing</td>
<td>1</td>
<td>FACA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1. BEU1023 Creative Sketches</td>
<td>1</td>
<td>FACA</td>
</tr>
<tr>
<td>Cluster</td>
<td>Cluster Categories</td>
<td>Code and Course Name</td>
<td>Semester Offered</td>
<td>Faculty Offered</td>
</tr>
<tr>
<td>---------</td>
<td>--------------------------</td>
<td>-----------------------------------------------</td>
<td>------------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>5</td>
<td>Linguistic and Communication</td>
<td>1. PBU1133- Arabic Language Level 1</td>
<td>1&amp;2</td>
<td>FLC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. PBU2143- Arabic Language Level 2</td>
<td>1&amp;2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 PBU3153- Arabic Level 3</td>
<td>1&amp;2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>4. PBU1043- Japanese Language Level 1</td>
<td>1&amp;2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>5. PBU2053- Japanese Language Level 2</td>
<td>1&amp;2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>6. PBU3063 - Japanese Level 3</td>
<td>1&amp;2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>7. PBU1073 - Frence Level 1</td>
<td>1&amp;2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>8. PBU2083- Frence Level 2</td>
<td>1&amp;2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>9. PBU3093- French Level 3</td>
<td>1&amp;2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>10 . PBU1103- Mandarin Level 1</td>
<td>1&amp;2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>11. PBU2113- Mandarin Level 2</td>
<td>1&amp;2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>12. PBU3123- Mandarin Level 3</td>
<td>1&amp;2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>13. PBU0033- Iban Language for Communication</td>
<td>1&amp;2</td>
<td></td>
</tr>
</tbody>
</table>

Acronym for Faculty Names:

1. **FACA**: Faculty of Applied and Creative Arts
2. **FBE**: Faculty of Built Environment
3. **FCSHD**: Faculty of Cognitive Sciences and Human Development
4. **FCSIT**: Faculty of Computer Science and Information Technology
5. **FE**: Faculty of Engineering
6. **FEB**: Faculty of Economic and Business
7. **FLC**: Faculty of Language and Communication
8. **FMHS**: Faculty of Medicine and Health Science
9. **FRST**: Faculty of Resource Science and Technology
10. **FSSH**: Faculty of Social Sciences and Humanities
ENGLISH LANGUAGE COURSES

English Language Courses in UNIMAS are offered by the Faculty of Language and Communication.

Please register the English Language Courses as required based on your MUET band / IELTS band / Intensive English Course Grade / or any equivalent English proficiency qualification.

<table>
<thead>
<tr>
<th>Target Group</th>
<th>Code and Course Name</th>
<th>Type/ Credit Hours</th>
<th>Important Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUET Band 1 &amp; 2</td>
<td>PBI1112 Preparatory English 1</td>
<td>Remedial / 2 credits</td>
<td>Offered in Semester 1*</td>
</tr>
<tr>
<td></td>
<td>PBI1122 Preparatory English 2</td>
<td>Remedial / 2 credits</td>
<td>PBI1112 is a prerequisite**</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Offered in Semester 2*</td>
</tr>
<tr>
<td></td>
<td>PBI1102 Academic English 1</td>
<td>Generic / 2 credits</td>
<td>PBI1122 is a prerequisite**</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Offered in Semester 1*</td>
</tr>
<tr>
<td></td>
<td>PBI1072 English for Professional Communication</td>
<td>Generic / 2 credits</td>
<td>PBI1122 is a prerequisite**</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Offered in Semester 2*</td>
</tr>
</tbody>
</table>

*Subject to change. Please be vigilant for any announcements from the Faculty of Language and Communication at the beginning of each Semester.

**A Prerequisite is a must-pass Course prior to taking an advanced Course.

**A requisite is a must-complete Course prior to taking an advanced Course. A pass is not mandatory.
ENGLISH LANGUAGE COURSES

English Language Courses in UNIMAS are offered by the Faculty of Language and Communication.

Please register the English Language Courses as required based on your MUET band / IELTS band / Intensive English Course Grade / or any equivalent English proficiency qualification.

<table>
<thead>
<tr>
<th>Target Group</th>
<th>Code and Course Name</th>
<th>Type/ Credit Hours</th>
<th>Important Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUET Band 3 / IELTS 5.5 / TOEFL iBT 42 / Pearson Test of English 47 / Cambridge English Qualifications Test 154</td>
<td>PBI1102 Academic English 1</td>
<td>Generic / 2 credits</td>
<td>Offered in Semester 1*</td>
</tr>
<tr>
<td></td>
<td>PBI1072 English for Professional Communication</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUET Band 4-6 / IELTS 6 / TOEFL iBT 60 / Pearson Test of English 59 / Cambridge English Qualifications Test 169</td>
<td>PBI1092 Academic English 2</td>
<td>Generic / 2 credits</td>
<td>Offered in Semester 1*</td>
</tr>
<tr>
<td></td>
<td>PBI1082 English for Occupational Purposes</td>
<td></td>
<td>Offered in Semester 2*</td>
</tr>
</tbody>
</table>

*Subject to change. Please be vigilant for any announcements from the Faculty of Language and Communication at the beginning of each Semester.

**A prerequisite is a must-pass Course prior to taking an advanced Course.

**A requisite is a must-complete Course prior to taking an advanced Course. A pass is not mandatory.
Preparatory English 1 & 2 will now have two credits, which means both courses will be given grades (no long pass/failed only). After passing PBI1122, MUET Bands 1 & 2 (also International students with C and C+ for Intensive English) will have to take PBI1102 and PBI1072 too.

International students with conditional offer must pass the IELP with a minimum requirement of IELP band 5.5. Preparatory English 1 & 2 will no longer be offered to IELP students who achieve below band 5.5 in the final exam.

- - - - - - - - - Only for Medical Students

This only applies to 2017/2018 onwards (not applicable to previous intake)
Programme Learning Outcomes (PLOs)

Upon graduation, a Student of the Faculty is expected to possess the following traits:
- Able to apply the knowledge of Computer Science with programme specialisation to meet the industry needs.
- Able to demonstrate technical and programming skills to solve Computer Science problems.
- Able to communicate effectively with the industry and society.
- Able to develop creative and innovative solutions in relative to problems which involves a scientific approach.
- Able to demonstrate teamwork skills as well as social responsibility.
- Able to manage information and perform life-long learning in the broad context of technological change.
- Able to build knowledge and skills in management and entrepreneurship.
- Able to practise professionalism, value, attitude and ethical behaviour in society.
- Able to demonstrate leadership skills in the working environment.

Programme Educational Objectives (PEOs)

Upon 3 – 5 years after graduation, a Student of the Faculty is expected to possess the following traits:
- Graduates who are founded and possessing the ability to apply core knowledge of Computer Science with programme specialisation for meeting the aspiration of the society.
- Graduates who can think critically and possess ability to solve problems to address the requirements of the industry.
- Graduates with leadership, professionalism and ethics to meet the needs of the stakeholders.
COURSE CODING SYSTEM FOR PROGRAMME CORE AND SPECIALIZATION

Programme Core and Specialisation are Courses offered by our Faculty. The following coding system is used to assign a code for both.

Faculty Code

Year of Study

Credit Hours

Course Type:
‘F’ is Programme Core
‘S’ is Programme Specialisation for WC00
CS
‘I’ is Programme Specialisation for WC03 IS
‘T’ is Programme Specialisation for WC09
MC
‘E’ is Programme Specialisation for WC10
SE
‘N’ is Programme Specialisation for WC11
NC

Please be aware that a Course may have multiple code offerings in a single semester; each with its own individual Course Code. Only register the correct Course Code as listed inside your Curriculum Structure.
UW6481001 - Bachelor of Computer Science with Honours (Computational Science)
Computational Science is the field of study concerned with constructing mathematical models and its numerical solution techniques, as well as using computers to analyse and solve scientific, social, and engineering problems. Graduates of this programme can have careers in the fields such as (but not limited to) Statistician, Software Developer, System Analyst, Programmer, Production and Logistic Planner, Operational Research Analyst and Research Scientist.
### UW6481001 - COMPUTATIONAL SCIENCE

<table>
<thead>
<tr>
<th>YEAR</th>
<th>SEMESTER</th>
<th>COURSE CODE</th>
<th>COURSE NAME</th>
<th>COURSE TYPE</th>
<th>CREDIT HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>TMF1414</td>
<td>Introduction to Programming</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMF1814</td>
<td>Discrete Mathematics</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMF1014</td>
<td>System Analysis and Design</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MPU3222</td>
<td>Foundation of Entrepreneurship</td>
<td>MPU</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PPB1041</td>
<td>Soft Skill &amp; Basic Volunteerism</td>
<td>Reinforcement</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PPB1112*</td>
<td>Preparatory English 1&lt;sup&gt;1&lt;/sup&gt;</td>
<td>Remedial</td>
<td>2&lt;sup&gt;1&lt;/sup&gt;</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>TMF1874</td>
<td>Mathematics for Computing</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMF1254</td>
<td>Communication and Computer Network</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMF1434</td>
<td>Data Structure and Algorithms</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMF1214</td>
<td>Computer Architecture</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MPU3182</td>
<td>Philosophy and Current Issues</td>
<td>MPU</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MPUXXXXX</td>
<td>Credited Co-curricular&lt;sup&gt;2&lt;/sup&gt;</td>
<td>MPU</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PPB1112*</td>
<td>Preparatory English 2&lt;sup&gt;2&lt;/sup&gt;</td>
<td>Remedial</td>
<td>2&lt;sup&gt;2&lt;/sup&gt;</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMF2034</td>
<td>Database Concept and Design</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMSS2833</td>
<td>Object Oriented Software Development</td>
<td>Program Specialisation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMF2234</td>
<td>Operating System</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMSS2153</td>
<td>Multivariable Calculus</td>
<td>Program Specialisation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PPBXXXXX</td>
<td>English Course 1&lt;sup&gt;1&lt;/sup&gt;</td>
<td>Generic</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>MPU3192</td>
<td>Appreciation of Ethics and Civilisation&lt;sup&gt;3&lt;/sup&gt;</td>
<td>MPU</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>TMSS2033</td>
<td>Differential Equations</td>
<td>Program Specialisation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMSS2183</td>
<td>Computational Science Laboratory</td>
<td>Program Specialisation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMF2954</td>
<td>Java Programming</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMSS2824</td>
<td>Web Based System Development</td>
<td>Program Specialisation</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PPBXXXXX</td>
<td>English Course 2&lt;sup&gt;2&lt;/sup&gt;</td>
<td>Generic</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MPU3332</td>
<td>National Heritage&lt;sup&gt;4&lt;/sup&gt;</td>
<td>MPU</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>TMF3113</td>
<td>Project Management</td>
<td>Program Core</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMF3012</td>
<td>Ethics and Professionalism</td>
<td>Program Core</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMSS3033</td>
<td>Operational Research</td>
<td>Program Specialisation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMSS313</td>
<td>Numerical Methods</td>
<td>Program Specialisation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMSS3843</td>
<td>Human Computer Interaction</td>
<td>Program Specialisation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ABCXXXX</td>
<td>Elective 1</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PBIX3072</td>
<td>Malay Language&lt;sup&gt;5&lt;/sup&gt;</td>
<td>Generic</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>TMF39412</td>
<td>Industrial Training</td>
<td>Program Core</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMSS4034</td>
<td>Technopreneurship and Product Development</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMSS4053</td>
<td>Mathematical Modelling and Simulation</td>
<td>Program Specialisation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMSS4013</td>
<td>Parallel Processing</td>
<td>Program Specialisation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>TMF4931</td>
<td>Final Year Project I</td>
<td>Program Core</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ABCXXXX</td>
<td>Elective 2</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMSS4033</td>
<td>Statistical Data Analysis</td>
<td>Program Specialisation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMSS4853</td>
<td>Computer Security</td>
<td>Program Specialisation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ABCXXXX</td>
<td>Elective 3</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMF4935</td>
<td>Final Year Project II</td>
<td>Program Core</td>
<td>5</td>
</tr>
</tbody>
</table>

<sup>1</sup>For students with MUET Bands 1 & 2 (OR International English (ICE) A) ONLY. After passing PPB1120, students will have to take PPB1102 Academic English 1 and PPB1072 English for Professional Communication in Year 2.

<sup>2</sup>Students with MUET Bands 1 & 2 (OR International English (ICE) A) ONLY. After passing PPB1120, students will have to take PPB1102 Academic English 1 and PPB1072 English for Professional Communication. Students with MUET Bands 4, 5 and 6 (OR International English (ICE) B, C, D) or IELTS 5.5 will have to take PPB1002 Academic English 2 and PPB1003 English for the Professional Purposes.

<sup>3</sup>Choose ONE only: MPU3452 (Entrepreneurship) OR MPU4442 (Culture) OR MPU5442 (Leadership) OR MPU5462 (Volunteerism) OR MPU5472 (Innovation) OR MPU5482 (Computing General) OR MPU5492 (Sports) OR MPU5402 (Public Speaking).

<sup>4</sup>International students will take MPU5452 Culture and Identity in Malaysia (offered in Semester 2).

<sup>5</sup>International students will take PBM1002 Advanced Malay Language for Communication.
Nowadays, enterprises are moving to a higher level of automation and are highly dependent on information provided by computer-based systems. These complex systems will become an exceedingly important strategic asset of the organisation. 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 utilise to support organisational/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 organisations, people, processes and technical aspects in system development as its focal point, students will be equipped with basic organisational 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 such as (but 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.
<table>
<thead>
<tr>
<th>YEAR</th>
<th>SEMESTER</th>
<th>COURSE CODE</th>
<th>COURSE NAME</th>
<th>COURSE TYPE</th>
<th>CREDIT HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>TMF144</td>
<td>Introduction to Programming</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMF184</td>
<td>Discrete Mathematics</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMF184</td>
<td>System Analysis and Design</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MPU3222</td>
<td>Foundation of Entrepreneurship Incubation</td>
<td>MPU</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PPI1041</td>
<td>Soft Skill &amp; Basic Volunteerism</td>
<td>Reinforcement</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PBI1112*</td>
<td>Preparatory English 1</td>
<td>Remedial</td>
<td>2*</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMF1874</td>
<td>Mathematics for Computing</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMF1254</td>
<td>Communication and Computer Network</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMF1434</td>
<td>Data Structure and Algorithms</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMF1214</td>
<td>Computer Architecture</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MPU4000X</td>
<td>Computer Security</td>
<td>Program Core</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PBI1122*</td>
<td>Preparatory English 2</td>
<td>Remedial</td>
<td>2*</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMF2034</td>
<td>Database Concept and Design</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMS2833</td>
<td>Object Oriented Software Development</td>
<td>Program Specialisation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMF2234</td>
<td>Operating System</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMS2113</td>
<td>Multivariable Calculus</td>
<td>Program</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PBI4000X**</td>
<td>English Course 1</td>
<td>Generic</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MPU3192</td>
<td>Appreciation of Ethics and Civilization</td>
<td>MPU</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMS2033</td>
<td>Differential Equations</td>
<td>Program Specialisation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMS2183</td>
<td>Computational Science Laboratory</td>
<td>Program Specialisation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMF2954</td>
<td>Java Programming</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMS2184</td>
<td>Web Based System Development</td>
<td>Program Specialisation</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PBI4000X**</td>
<td>English Course 2</td>
<td>Generic</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MPU3332</td>
<td>National Heritage</td>
<td>MPU</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MPU3182</td>
<td>Philosophy and Current Issues</td>
<td>MPU</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMF3113</td>
<td>Project Management</td>
<td>Program Core</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMF3012</td>
<td>Ethics and Professionalism</td>
<td>Program Core</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMS3033</td>
<td>Operational Research</td>
<td>Program Specialisation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMS3133</td>
<td>Numerical Methods</td>
<td>Program Specialisation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMS3843</td>
<td>Human Computer Interaction</td>
<td>Program Specialisation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ABCX000</td>
<td>Elective 1</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PBM2072*</td>
<td>Malay Language</td>
<td>Generic</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMF39412</td>
<td>Industrial Training</td>
<td>Program Core</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMF4034</td>
<td>Technopreneurship and Product Development</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMS4053</td>
<td>Mathematical Modelling and Simulation</td>
<td>Program Specialisation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMS4013</td>
<td>Parallel Processing</td>
<td>Program Specialisation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMF4913</td>
<td>Final Year Project I</td>
<td>Program Core</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ABCX000</td>
<td>Elective 2</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMS4033</td>
<td>Statistical Data Analysis</td>
<td>Program Specialisation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMS4853</td>
<td>Computer Security</td>
<td>Program</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ABCX000</td>
<td>Elective 3</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMF4935</td>
<td>Final Year Project II</td>
<td>Program Core</td>
<td>5</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>TMF3113</td>
<td>Project Management</td>
<td>Program Core</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMF3012</td>
<td>Ethics and Professionalism</td>
<td>Program Core</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMS3033</td>
<td>Operational Research</td>
<td>Program Specialisation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMS3133</td>
<td>Numerical Methods</td>
<td>Program Specialisation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMS3843</td>
<td>Human Computer Interaction</td>
<td>Program Specialisation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ABCX000</td>
<td>Elective 1</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PBM2072*</td>
<td>Malay Language</td>
<td>Generic</td>
<td>2</td>
</tr>
<tr>
<td>4</td>
<td>2</td>
<td>TMF4034</td>
<td>Technopreneurship and Product Development</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMS4053</td>
<td>Mathematical Modelling and Simulation</td>
<td>Program Specialisation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMS4013</td>
<td>Parallel Processing</td>
<td>Program Specialisation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMF4913</td>
<td>Final Year Project I</td>
<td>Program Core</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ABCX000</td>
<td>Elective 2</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMS4033</td>
<td>Statistical Data Analysis</td>
<td>Program Specialisation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMS4853</td>
<td>Computer Security</td>
<td>Program Specialisation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ABCX000</td>
<td>Elective 3</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMF4935</td>
<td>Final Year Project II</td>
<td>Program Core</td>
<td>5</td>
</tr>
</tbody>
</table>

TOTAL 132

* For students with MUET Bands 1 & 2 (Intensive English) (C/C) or O/L. After passing PBI102, students will have to take PBI102 Academic English 1 and MPU102 English for Professional Communication. Students with MUET Bands 3 & 4 or O/L will have to take PBI102 Academic English 1 and MPU102 English for Professional Communication. All students must take MPU102 Academic English 1 and MPU102 English for Professional Communication.

† Students with MUET Bands 3 & 4 (Intensive English) (C/C) or O/L will have to take MPU102 Academic English 1 and MPU102 English for Professional Communication. Students with MUET Bands 1 & 2 or O/L will have to take MPU102 Academic English 1 and MPU102 English for Professional Communication. All students must take MPU102 Academic English 1 and MPU102 English for Professional Communication.

‡ MPU102 Academic English 1 and MPU102 English for Professional Communication are offered in Semester 1.

§ Only students with MUET Bands 1 & 2 (Intensive English) (C/C) or O/L will have to take MPU102 Academic English 1 and MPU102 English for Professional Communication. Students with MUET Bands 3 & 4 or O/L will have to take MPU102 Academic English 1 and MPU102 English for Professional Communication. All students must take MPU102 Academic English 1 and MPU102 English for Professional Communication.

||
UW6481002 - INFORMATION SYSTEMS
Multimedia Computing is a study of all aspects regarding software systems that bring about the synchronisation of multimodal media types such as video, audio and image. Students are introduced to a broad knowledge of various multimedia system implementations.

Graduates may find careers in the following capacities (but not limited to): Full Stack Developer, Web and Mobile App Developer, Game/Multimedia Software Developer, Research Scientist et cetera.
<table>
<thead>
<tr>
<th>YEAR</th>
<th>SEMESTER</th>
<th>COURSE CODE</th>
<th>COURSE NAME</th>
<th>COURSE TYPE</th>
<th>CREDIT HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>TMF1414</td>
<td>Introduction to Programming</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>TMF1814</td>
<td>Discrete Mathematics</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>TMF1914</td>
<td>System Analysis and Design</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>MPU3222</td>
<td>Foundation of Entrepreneurship Incubation</td>
<td>MPU</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>PPD30041</td>
<td>Soft Skill &amp; Basic Volunteerism</td>
<td>Reinforcement</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>2*</td>
<td>TMF1874</td>
<td>Mathematics for Computing</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>TMF1254</td>
<td>Communication and Computer Network</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>TMF1434</td>
<td>Data Structure and Algorithms</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>TMF1314</td>
<td>Computer Architecture</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>MPU3000X</td>
<td>Credited Co-curricular</td>
<td>MPU</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>2*</td>
<td>PBI1122*</td>
<td>Preparatory English</td>
<td>Remedial</td>
<td>2*</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>TMF2034</td>
<td>Database Concept and Design</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>TMF2673</td>
<td>Object Oriented Software Development</td>
<td>Program Specialisation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>TMF2234</td>
<td>Operating System</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>TMF2703</td>
<td>UI/UX Design</td>
<td>Program Specialisation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>PBI1X000**</td>
<td>English Course</td>
<td>Generic</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>MPU3192</td>
<td>Appreciation of Ethics and Civilization**</td>
<td>MPU</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>TMF2033</td>
<td>Computer Graphics</td>
<td>Program Specialisation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>TMF2654</td>
<td>Web Based System Development</td>
<td>Program Specialisation</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>TMF2954</td>
<td>Java Programming</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>ABCX00X</td>
<td>Elective 1</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>PBI1X000**</td>
<td>English Course 2</td>
<td>Generic</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>MPU3332</td>
<td>National Heritage</td>
<td>MPU</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>MPU3180</td>
<td>Philosophy and Current Issues</td>
<td>MPU</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>TMF3113</td>
<td>Project Management</td>
<td>Program Core</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>TMF3092</td>
<td>Ethics and Professionalism</td>
<td>Program Core</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>TMF3123</td>
<td>Computer Game Design and Development</td>
<td>Program Specialisation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>TMF3613</td>
<td>Interactive Multimedia Laboratory</td>
<td>Program Specialisation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>TMF3681</td>
<td>Human Computer Interaction</td>
<td>Program Specialisation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>ABCX00X</td>
<td>Elective 2</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>PBMR2072</td>
<td>Malay Language 6</td>
<td>Generic</td>
<td>2</td>
</tr>
<tr>
<td>4</td>
<td>1</td>
<td>ABCX00X</td>
<td>Elective 3</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>TMT4113</td>
<td>Data Visualisation</td>
<td>Program Specialisation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>TMT4053</td>
<td>Multimodal Interaction Technology</td>
<td>Program Specialisation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>TMF4013</td>
<td>Final Year Project I</td>
<td>Program Core</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>TMT4663</td>
<td>Data Mining</td>
<td>Program Specialisation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>TMT4093</td>
<td>Advanced Topics in Multimedia Computing</td>
<td>Program Specialisation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>TMT4693</td>
<td>Intelligent Systems</td>
<td>Program Specialisation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>TMF4035</td>
<td>Technopreneurship and Product Development</td>
<td>Program Specialisation</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>TMF4095</td>
<td>Final Year Project II</td>
<td>Program Core</td>
<td>5</td>
</tr>
</tbody>
</table>

TOTAL 132
UW6481004 - Bachelor of Computer Science with Honours (Software Engineering)
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 such as (but not limited to) System Analyst, Software Tester, Software Architect, Software Engineer, Software Developer, Software Project Manager, Software Administrator and Software Development Consultant.
<table>
<thead>
<tr>
<th>YEAR</th>
<th>SEMESTER</th>
<th>COURSE CODE</th>
<th>COURSE NAME</th>
<th>COURSE TYPE</th>
<th>CREDIT HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>TMF144</td>
<td>Introduction to Programming</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMF184</td>
<td>Discrete Mathematics</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMF104</td>
<td>System Analysis and Design</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MPU322</td>
<td>Foundation of Entrepreneur Inculturation</td>
<td>MPU</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PDI104</td>
<td>Soft Skill &amp; Basic Volunteerism</td>
<td>Reinforcement</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PBI112*</td>
<td>Preparatory English</td>
<td>Remedial</td>
<td>2*</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>TMF1074</td>
<td>Mathematics for Computing</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMF1254</td>
<td>Communication and Computer Network</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMF434</td>
<td>Data Structure and Algorithms</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMF1214</td>
<td>Computer Architecture</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MPUUXXX</td>
<td>Credited Co-curricular</td>
<td>MPU</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PBI112*</td>
<td>Preparatory English</td>
<td>Remedial</td>
<td>2*</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>TMF2054</td>
<td>Database Concept and Design</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TME2103</td>
<td>Object Oriented Software Development</td>
<td>Program</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMF2234</td>
<td>Operating System</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TEM2104</td>
<td>Web-based System Development</td>
<td>Program Specialisation</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MPU3192</td>
<td>Appreciation of Ethics and Civilisation</td>
<td>MPU</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMF2153</td>
<td>Software Requirement Engineering</td>
<td>Program Specialisation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TEM2073</td>
<td>Intelligent Systems</td>
<td>Program Specialisation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMF2964</td>
<td>Java Programming</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ABCXXX</td>
<td>Elective 1</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MPUXXX**</td>
<td>English Course 2</td>
<td>Generic</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MPU3332</td>
<td>National Heritage</td>
<td>MPU</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MPU3182</td>
<td>Philosophy and Current Issues</td>
<td>MPU</td>
<td>2</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>TMF3113</td>
<td>Project Management</td>
<td>Program Core</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMF3012</td>
<td>Ethics and Professionalism</td>
<td>Program Core</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TME3033</td>
<td>Expert Systems</td>
<td>Program Specialisation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TME3413</td>
<td>Software Engineering Lab</td>
<td>Program Specialisation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMS3423</td>
<td>Human Computer Interaction</td>
<td>Program Specialisation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ABCXXX</td>
<td>Elective 2</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PBM2072</td>
<td>Malay Language</td>
<td>Generic</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>TMF39412</td>
<td>Industrial Training</td>
<td>Program Core</td>
<td>12</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>TMF4054</td>
<td>Entrepreneurship and Product Development</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TME403</td>
<td>Formal Methods</td>
<td>Program Specialisation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TEM4113</td>
<td>Data Mining</td>
<td>Program Specialisation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMF4913</td>
<td>Final Year Project I</td>
<td>Program Core</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ABCXXX</td>
<td>Elective 3</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>TMF4093</td>
<td>Advanced Topics in Software Engineering</td>
<td>Program Specialisation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TEM4033</td>
<td>Software Testing</td>
<td>Program Specialisation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TEM4433</td>
<td>Computer Security</td>
<td>Program Specialisation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TMF4935</td>
<td>Final Year Project II</td>
<td>Program Core</td>
<td>5</td>
</tr>
</tbody>
</table>

1. For students with MUET Bands 3 & 4 or Intensive English (C,C+) ONLY. All passing PBI102 students will have to take PBI102 Academic English 1 and PBI102 English for Professional Communication in Year 2. Students with MUET Bands 3 & 4 or Intensive English (B,B+) or IELTS 5.5 will have to take PBI102 Academic English 1 and PBI102 English for Professional Communication in Year 1. Students with MUET Bands 3, 4, and above will have to take PBI102 Academic English 2 and PBI102 English for Professional Purposes.

2. Choose ONE: only MPU3192 (Intelligence & Innovation) or MPU3442 (Entrepreneurship). Students with MUET Bands 3, 4 or Intensive English (C,C+) or IELTS 5.5 will have to take PBI102 Academic English 1 and PBI102 English for Professional Communication in Year 2. Students with MUET Bands 3, 4, and above will have to take PBI102 Academic English 2 and PBI102 English for Professional Purposes.

3. International students will take MPU3442 Malay Language for Communication 2 (introduced in Semester 1 and 2).

4. International students will take PBI20262 English for Communication.
UW6481005-Bachelor of Computer Science with Honours (Network Computing)
Network Computing provides the students with a 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, wireless/mobile systems and networks.

Graduates of Network Computing Programme would be able to have careers in fields such as (but not limited to) Computer Network Administrator, Network Engineer, System Programmer, Network Programmer, Network Communication Consultant and Computer Network Officer.
<table>
<thead>
<tr>
<th>YEAR</th>
<th>SEMESTER</th>
<th>COURSE CODE</th>
<th>COURSE NAME</th>
<th>COURSE TYPE</th>
<th>CREDIT HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>TMF144</td>
<td>Introduction to Programming</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>TMF184</td>
<td>Discrete Mathematics</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>TMF104</td>
<td>System Analysis and Design</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>MLP1222</td>
<td>Foundation of Entrepreneurship Incubation</td>
<td>MPU</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>PP1001</td>
<td>Soft Skill &amp; Basic Volunteerism</td>
<td>Reinforcement</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>PB1112*</td>
<td>Preparatory English 1&lt;sup&gt;*&lt;/sup&gt;</td>
<td>Remedial</td>
<td>2</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>TMF174</td>
<td>Mathematics for Computing</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>TMF1254</td>
<td>Communication and Computer Network</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>TMF1434</td>
<td>Data Structure and Algorithms</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>TMF1214</td>
<td>Computer Architecture</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>MPU1200</td>
<td>Credited Co-curricular&lt;sup&gt;2&lt;/sup&gt;</td>
<td>MPU</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>PB1112*</td>
<td>Preparatory English 2&lt;sup&gt;*&lt;/sup&gt;</td>
<td>Remedial</td>
<td>2</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>TMF2034</td>
<td>Database Concept and Design</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>TMN2223</td>
<td>Object Oriented Software Development</td>
<td>Program Core</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>TMF2234</td>
<td>Operating System</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>ABC2000</td>
<td>Elective 1</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>PB1100&lt;sup&gt;1&lt;/sup&gt;</td>
<td>English Course 1&lt;sup&gt;2&lt;/sup&gt;</td>
<td>Generic</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>MPU1319</td>
<td>Appreciation of Ethics and Civilization&lt;sup&gt;3&lt;/sup&gt;</td>
<td>MPU</td>
<td>2</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>TMF2073</td>
<td>Computer Security</td>
<td>Program Core</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>TMN2234</td>
<td>Web Based System Development</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>TMF2854</td>
<td>Java Programming</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>ABC2000</td>
<td>Elective 2</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>PB1100&lt;sup&gt;1&lt;/sup&gt;</td>
<td>English Course 2&lt;sup&gt;2&lt;/sup&gt;</td>
<td>Generic</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>MPU1332</td>
<td>National Heritage&lt;sup&gt;4&lt;/sup&gt;</td>
<td>MPU</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>MPU1318</td>
<td>Philosophy and Current Issues</td>
<td>MPU</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>TMF3113</td>
<td>Project Management</td>
<td>Program Core</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>TMF302</td>
<td>Ethics and Professionalism</td>
<td>Program Core</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>TMN3213</td>
<td>Internetworking Technology</td>
<td>Program Core</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>TMN3073</td>
<td>Wireless and Mobile Network</td>
<td>Program Core</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>TMN3093</td>
<td>Computer System Administration</td>
<td>Program Core</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>ABC2000</td>
<td>Elective 3</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>PBI2107</td>
<td>Malay Language&lt;sup&gt;5&lt;/sup&gt;</td>
<td>Generic</td>
<td>2</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>TMF39412</td>
<td>Industrial Training</td>
<td>Program Core</td>
<td>12</td>
</tr>
<tr>
<td>4</td>
<td>1</td>
<td>TMF4034</td>
<td>Technopreneurship and Product Development</td>
<td>Program Core</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>TMN4133</td>
<td>System Programming</td>
<td>Program Core</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>TMN4033</td>
<td>Embedded System</td>
<td>Program Core</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>TMF4913</td>
<td>Final Year Project I</td>
<td>Program Core</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>TMN4033</td>
<td>Distributed System</td>
<td>Program Core</td>
<td>3</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>TMN4093</td>
<td>Advanced Topics in Computer Networking</td>
<td>Program Core</td>
<td>14</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>TMN4113</td>
<td>Network Performance and Simulation</td>
<td>Program Core</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>TMN4053</td>
<td>Broadband Network Technology</td>
<td>Program Core</td>
<td>3</td>
</tr>
</tbody>
</table>

<sup>1</sup> For students with MUET Band 1 or 2 or Intensive English (E.C.O) ONLY. All the passing PBI102 students will have to take PBI102 Academic English 1 and 3.
<sup>2</sup> English or Intensive English B or Intensive English B<sup>1</sup> OR Intensive English B<sup>2</sup> OR Intensive English B<sup>3</sup> will have to take PBI102 Academic English 1 and 3. Students with MUET Band 1, 2, 2<sup>1</sup> or 2<sup>2</sup> or Intensive English B<sup>1</sup> will have to take PBI102 Academic English 1 and 3.
<sup>3</sup> English or Intensive English C or Intensive English C<sup>1</sup> OR Intensive English C<sup>2</sup> OR Intensive English C<sup>3</sup> will have to take PBI102 Academic English 1 and 3. Students with MUET Band 1, 2, 2<sup>1</sup> or 2<sup>2</sup> or Intensive English C<sup>1</sup> will have to take PBI102 Academic English 1 and 3.
<sup>4</sup> English or Intensive English D or Intensive English D<sup>1</sup> OR Intensive English D<sup>2</sup> OR Intensive English D<sup>3</sup> will have to take PBI102 Academic English 1 and 3. Students with MUET Band 1, 2, 2<sup>1</sup> or 2<sup>2</sup> or Intensive English D<sup>1</sup> will have to take PBI102 Academic English 1 and 3.
<sup>5</sup> English or Intensive English E or Intensive English E<sup>1</sup> OR Intensive English E<sup>2</sup> OR Intensive English E<sup>3</sup> will have to take PBI102 Academic English 1 and 3. Students with MUET Band 1, 2, 2<sup>1</sup> or 2<sup>2</sup> or Intensive English E<sup>1</sup> will have to take PBI102 Academic English 1 and 3.

TOTAL 132
<table>
<thead>
<tr>
<th>Aktiviti /Activity</th>
<th>Tarihh</th>
<th>Catatan</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pendaftaran Pelajar Baharu (New Student Registration)</td>
<td>14 Sep 2020 – 6 Okt 2020 (23 hari / 23 days)</td>
<td>16 September 2020 (16 September 2020) • Hari Malaysia (Malaysia Day)</td>
</tr>
<tr>
<td>Online Registration</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pendaftaran Kolej Kediaman Pelajar Baharu (Residential</td>
<td>5 Okt 2020 – 8 Okt 2020 (4 hari/4 days)</td>
<td>10 Oktober 2020 (10 October 2020) • Hari Jadi TTY Sarawak (Sarawak Governor’s Birthday)</td>
</tr>
<tr>
<td>College Registration)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minggu Aluan Pelajar (Student’s Orientation Week)</td>
<td>9 Okt 2020 – 11 Okt 2020 (3 hari/3 days)</td>
<td>10 Oktober 2020 (10 October 2020) • Hari Jadi TTY Sarawak (Sarawak Governor’s Birthday)</td>
</tr>
<tr>
<td>Pendaftaran Online Pelajar Semasa (Returning Student’s</td>
<td>7 Okt 2020– 12 Okt 2020 (6 hari/6 days)</td>
<td>14 November 2020 (14 November 2020) • Hari Deepavali (Semenanjung Malaysia sahaja)</td>
</tr>
<tr>
<td>Registration) (Online Registration)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pendaftaran Kolej Kediaman Pelajar Semasa (Returning</td>
<td>10 Okt 2020 – 11 Okt 2020 (2 hari/2 days)</td>
<td>14 November 2020 (14 November 2020) • Hari Deepavali (Semenanjung Malaysia sahaja)</td>
</tr>
<tr>
<td>Student’s Residential College Registration)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Perkuliahan (Lectures)</td>
<td>12 Okt 2020 – 29 Nov 2020 (7 minggu/7 weeks)</td>
<td>25 Disember 2020 (25 December 2020) • Hari Kristmas (Christmas)</td>
</tr>
<tr>
<td>Cuti Pertengahan Semester 1 (Mid-Semester Break)</td>
<td>30 Nov 2020 – 6 Dis 2020 (7 hari / 7 days)</td>
<td>1 Januari 2021 (1 January 2021) • Cuti Tahun Baharu 2020 (New Year)</td>
</tr>
<tr>
<td>Perkuliahan (Lectures)</td>
<td>7 Dis 2020 – 24 Jan 2021 (7 minggu/ 7 weeks)</td>
<td>12 &amp; 13 Feb 2021 (12 &amp; 13 Feb 2021) • Tahun Baru Cina (Chinese New Year)</td>
</tr>
<tr>
<td>Minggu Peperiksaan (Examination Week)</td>
<td>25 Jan 2021 – 14 Feb 2021 (3 minggu/3 weeks)</td>
<td></td>
</tr>
<tr>
<td>Cuti Semester 1 (Semester Break)</td>
<td>15 Feb 2021 – 14 Mac 2021 (4 minggu /4 weeks)</td>
<td></td>
</tr>
</tbody>
</table>
## AKADEMIKA CALENDAR

### SEMESTER 2

<table>
<thead>
<tr>
<th>Aktiviti / Activity</th>
<th>Tarikh</th>
<th>Catatan</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pendaftaran Online Pelajar Semasa (Returning Student's Registration/Online Semester Registration)</td>
<td>8 Mac 2021 – 11 Mac 2021 (4 hari/4 days)</td>
<td></td>
</tr>
<tr>
<td>Pendaftaran Kolej Kediaman Pelajar Semasa (Returning Student's Residential College Registration)</td>
<td>13 Mac 2021 – 14 Mac 2021 (2 hari/2 days)</td>
<td></td>
</tr>
<tr>
<td>Perkuliahan (Lectures)</td>
<td>15 Mac 2021 – 9 Mei 2021 (8 minggu/8 weeks)</td>
<td>2 April 2021 (2 April 2021) • Good Friday</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 Mei 2021 (1 May 2021) • Cuti Hari Pekerja (Labour Day)</td>
</tr>
<tr>
<td>Cuti Pertengahan Semester 2 (Mid-Semester Break)</td>
<td>10 Mei 2021 – 16 Mei 2021 (7 hari/7 days)</td>
<td>13 &amp; 14 Mei 2021 (13 &amp; 14 Mei 2021) • Hari Raya Aidilfitri</td>
</tr>
<tr>
<td>Perkuliahan (Lectures)</td>
<td>17 Mei 2021 – 27 Jun 2021 (6 minggu/6 weeks)</td>
<td>26 Mei 2021 (26 May 2021) • Hari Wesak (Wesak Day)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 &amp; 2 Jun 2021 (1 &amp; 2 June 2021) • Hari Gawai (Gawai Day)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>7 Jun 2021 (7 June 2021) • Hari Kemerdekaan (National Day)</td>
</tr>
<tr>
<td>Minggu Ulangkaji (Revision Week)</td>
<td>28 Jun 2021 – 4 Jul 2021 (7 hari/7 days)</td>
<td></td>
</tr>
<tr>
<td>Minggu Peperiksaan (Examination Week)</td>
<td>5 Jul 2021 – 25 Jul 2021 (3 minggu/3 weeks)</td>
<td>20 Julai 2021 (20 July 2021) • Hari Raya Aidiladha</td>
</tr>
<tr>
<td></td>
<td></td>
<td>22 Julai 2021 (22 July 2021) • Hari Sarawak (Sarawak Day)</td>
</tr>
<tr>
<td>Cuti Panjang (Long Break)</td>
<td>26 Jul 2021 – 3 Okt 2021 (10 minggu/10 weeks)</td>
<td>31 Ogos 2021 (31 August 2021) • Hari Kemerdekaan (National Day)</td>
</tr>
</tbody>
</table>

### ANTARASESI

<table>
<thead>
<tr>
<th>Aktiviti / Activity</th>
<th>Tarikh</th>
<th>Catatan</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pendaftaran Online Pelajar Semasa (Returning Student's Registration) Online Semester Registration</td>
<td>26 Jul 2021 – 1 Ogos 2021 (1 minggu/1 weeks)</td>
<td></td>
</tr>
<tr>
<td>Perkuliahan (Lectures)</td>
<td>26 Jul 2021 – 19 Sept 2021 (8 minggu/8 weeks)</td>
<td></td>
</tr>
</tbody>
</table>

**Nota:**


Disediakan oleh:
Bahagian Pengajian Prasiswazah (BPPs) Universiti Malaysia Sarawak
PERTEKMA

PERTEKMA (Persatuan Teknologi Maklumat) is the 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. Currently, PERTEKMA is under the supervision of the Faculty Deputy Dean of Student Affairs and Alumni portfolio assisted by other academic staff members. PERTEKMA committee members are selected from the Faculty’s undergraduate students which are elected yearly. Currently, there are 14 portfolios designated to manage the students’ activities.

Other objectives of PERTEKMA are 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 programs organized by the faculty.
- To act as a platform for students to nurture their talents through various activities involvement.
Some of the activities organized by PERTEKMA annually include social activities such as “Hari Bersama PERTEKMA” also known as HBP, IT WEEK, FCSIT annual dinner and sports events. Our HBP event that is held annually is a welcoming event for our new FCSIT students. The main aim of the event is to familiarize new student with campus life by providing activities such as campus tour, talks on learning resources provided by the university, ice breaking session with student representatives as well as other engaging activities.

Our next annual activity is the FCSIT Annual Dinner which is attended by both staff and students of the faculty. Invitation are open to all students of the faculty from different year of study and programme. The aim of the dinner is to create an informal setting where students and staff members can mingle and have fun together. Students and guests enjoy live performances, play games, have lucky draws while having their dinner outside the campus. The FCSIT annual dinner have different themes every year hence guest dress code is based on the current theme.

IT Week one of the largest event conducted by PERTEKMA every year at the faculty. Some activities held during this event include e-sports games, IT Talk & Workshop on the latest technology and career events are some of the attractions offered during the event. Outside companies are also invited to showcase their products such as 3D printing, game simulator, virtual reality games and drone piloting short classes. Concurrently we will also be having a food bazaar selling different types of food and drinks from food trucks and vendors from outside the campus.

PERTEKMA will also be having various sports events throughout the year such as such as the Dean’s Futsal Cup. The aim of the sports events is to allow students to break away from their mundane routine and to promote a healthy lifestyle by engaging in regular physical activities. Sports activities allows student to exercise and socialize with one and another in a healthy way.

As a summary PERTEKMA is not just a student organization but we see ourselves as one big family. PERTEKMA will always be there for our fellow brother and sisters in the faculty. In our hearts, we live by the motto #pertekmasayangsemua.
ADVISORS OF PERTEKMA

Dean/ Patron
Assoc. Prof. Dr. Kartinah binti Zen

Deputy Dean (Student Affairs & Alumni)
Dr. Yanti Rosmunie binti Bujang

Secretary I (Student Activities and Academ)
Nur Elarizan binti Mogan

Secretary II (Welfare & Records)
Etah binti Maharup

Student Relationship Unit
Ts. Abdul Rahman bin Mat

Entrepreneurship Unit
Mohamad Johan bin Ahmad Khiri

Welfare & Spirituality Unit
Rosita binti Mohamed Othman

Alumni & Career Unit
Lee Jun Choi

Cultural & Sports Unit
Eaquerzila Phang
PERTEKMA ORGANIZATION CHART

COMMITTEE OF PERTEKMA 19/20

President
Nur Ainisha binti Mohd Hamzah

Vice President
Afiq Imran bin Roslan

Secretary
Nur Farah Hanis binti Ahmad Masdi

Treasurer (Activity)
Nadia Natasha binti Ali Mansyur Adawiyah

Treasurer (Kiosk)
Atiffa Nabilla binti Azmi

Exco of Activity & Innovation I
Muhammad Hariz bin Hafaz

Exco of Activity & Innovation II
Audrey Duyan anak Gima

Exco of Welfare & Personality I
Kahroma Diana binti Ismail

Exco of Welfare & Personality II
Ahmad Ali Imran bin Ahmad Zaki
PERTEKMA ORGANIZATION CHART

COMMITTEE OF PERTEKMA 19/20

Exco of Media & Information (Graphic Designer)
Fiona Goi Jwee San

Exco of Media & Information (Photographer)
Melvin Jangga anak Rupitan

Exco of Student Interaction Room I
Angelina Puyang Selung

Exco of Student Interaction Room II
Muhammad Irfan Daniel bin Rahim

Exco of Sport & Culture I
Syed Mohd Asyraf bin Wan Hashim

Exco of Sport & Culture II
Sherly Edriana Philip

Exco of Entrepreneurship (Vendor)
Corina anak Apau

Exco of Entrepreneurship (Kiosk)
Ghaphney Sebi anak Sendry

Exco of Public Relation & Alumni I
Angelme Sambun anak Kilee

Exco of Public Relation & Alumni II
Siti Rubiah binti Muslim
COMMITTEE OF PERTEKMA 19/20

Exco of Academic
Shimawati Shameni binti Abdullah

Programme Representative (Computational Science)
Lekha a/p Subramaniam

Programme Representative (Information Systems)
Nurin Alya binti Haris

Programme Representative (Multimedia Computing)
Syahazwani Nurain binti Shariman

Programme Representative (Network Computing)
Qatrunada binti Adil

Programme Representative (Software Engineering)
Nur Azmina Maisarah binti Malihi
Students are each assigned an Academic Advisor that acts as a mentor for the entire duration of study in UNIMAS. If the Student changes his or her Faculty, he or she will be re-assigned to a new Academic Advisor at the new Faculty. Academic Advisor System (ACADS) is an online web app for Academic Advisor (also known as Mentor) to access information about his or her mentee. These include information such as personal data, academic performance, class attendance and disciplinary actions (if any). The web app also allows the setting up of appointment between the Academic Advisor and the Mentee. Mentee must attend a meeting with his or her Mentor at least once every Semester, except during Industrial Training.
Service learning (SL) is a “form of experiential learning that 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) 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 since session 2016/2017 Semester 1. The course imbued 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 element into this course enables the students to be viewed as 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.
MASTER IN INFORMATION MANAGEMENT (MITM)

Faculty of Computer Science and Information Technology (FCSIT) mission is to be the first-choice institution, recognised for its dynamism, innovative and first-rate tertiary education programmes, visionary goals alongside excellent research and professional services in related expertise, FCSIT offers a wide range of courses in the field of computer science and information technology (IT), and provides suitable opportunities in research to fulfil the demands of the country and its modern graduates.

The programme will provide students with an understanding of IT project management concepts and principles. Besides the project management, another important component is to expose the students with an overview of business intelligence and its practical applications in the business environment. This programme is suitable for students with little or no programming experience. It aims to build an understanding of computational thinking concepts, approaches and tools. Computational thinking is a fundamental skill that focuses on the process of abstraction and combines mathematical and engineering thinking when solving problems. In addition, the program also explores ethics related to IT, highlighting issues and ethical use of IT as a communication medium.

MITM programme is opened to candidates from various background who are aiming to tailor their postgraduate studies according to their needs or their employer’s. The programme provides a wide and in-depth knowledge of the areas of IT and its state-of-the-art application. The course contents cover in the programme are relevant and in-line with the needs to produce a highly skilled workforce in the field of IT. Besides, the elements of Industrial Revolution 4.0 are implemented in this programme.

The programme is offered at our main Campus in Kota Samarahan, Sarawak. Students are required to complete 40 credit units of courses and pass with a minimum grade of B- along with a Cumulative Grade Point Average (CGPA) of at least 3.00. Candidates must complete the following modules: six core modules, totaling 23 credits. Two specialisation courses, totaling 8 credits and one project paper with 9 credits.

To know more about this programme, please visit http://www.fcsit.unimas.my/programmes
Research Center (Gamification Center)
UNIMAS Gamification Center is a derivative of the CreativeCulture programme Malaysia & UK (NEWTON, AHRC), an initiative that has achieved impact in innovative and creative teaching and learning by championing educational game resources.

For more information, please visit https://creativeculture.my/
Tourism Innovation Centre (TIC), formally known as Centre of Research for Image Analysis and Spatial Technologies (IMAST), was first established back in 2007, as one of the two research centres anchored at the Faculty of Computer Science and Information Technologies. TIC’s research focus is in the area of E-tourism that combines the integration of tourism innovation and spatial technologies.

For more information, please visit http://www.fcsit.unimas.my/tourism-innovation-center
LOWER GROUND FLOOR (LG FLOOR)

Legends
- Students/Visitor parking space
- Staff parking space
- Patio Umbrella
- Kiosk
- Stair
- Men’s Toilet
- Women’s Toilet
- Elevator

Facilities & Utilities
1. Bilik Tutorial 1
2. Bilik Tutorial 2
3. Bilik Tutorial 3
4. Bilik Tutorial 4
5. Bilik Tutorial 5
6. Bilik Tutorial 6
7. Bilik Tutorial 7
8. Final Year Project Lab
9. Bilik AHU
10. Bilik Interaksi Pelajar
11. Ruang Legar
12. Bilik Tutorial 12
13. Bilik Tutorial 13
14. Bilik Tutorial 14
15. Bilik Tutorial 15
16. Bilik Janitor
17. Pantri
18. Bilik Server
19. Information System Lab
20. Bilik Istirahat
21. Bilik Kawalan
22. Computational Science Lab
23. Ruang Legar Utama
24. Ruang Pameran
25. S.H.O.P
26. Teater Multimedia
27. Bilik Sistem Kawalan
28. Multimedia Lab
29. Artificial Intelligence Lab 1
30. Spacial Lab 2
31. Spacial Lab 1
FIRST FLOOR (1ST FLOOR)

Legends
- Students/Visitor parking space
- Staff parking space
- Elevator
- Stair
- Men’s Toilet
- Women’s Toilet

Facilities & Utilities
1. Bilik AHU
2. Bilik Siswazah 3
3. Bilik Siswazah 2
4. Bilik Siswazah 1 Knowledge System, Web Intelligence Consortium & Rural ICT Lab
5. Bilik Istirehat
6. Bilik Kawalan
7. MAIT Lab
8. Research Lab (Info Infra)
9. Research Lab
10. Research Lab
11. Bilik Server
12. Research Lab (GIS)
13. Bilik Janitor
14. Pantri
15. Network Lab 2
16. Network Lab 1
17. Multimedia Lab 2
18. Software Engineering Lab
19. Ruang Legar Lif
20. Bilik Rehat Staff
21. Ruang Legar
22. Surau
23. Surau Lelaki