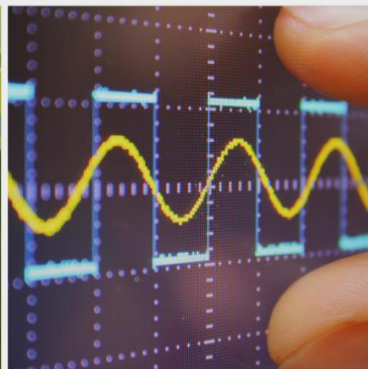


BUKU

Panduan

Pelajar & Peraturan Akademik 2026/2027

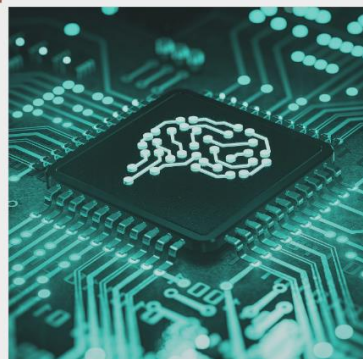
Pusat Pengajian Pra Universiti
Universiti Malaysia Sarawak



Kota
Samarahan,
Sarawak



Asasi Sains Hayat
Asasi Sains Fizikal
Asasi Pengkomputeran
International Foundation in Science
Nurturing Your Dreams





FALSAFAH PENDIDIKAN NEGARA

Pendidikan di Malaysia adalah satu usaha ke arah memperkembangkan lagi potensi individu secara menyeluruh dan bersepadu untuk mewujudkan insan yang seimbang dan harmonis dari segi intelek, rohani, emosi dan jasmani.

Usaha ini adalah bagi melahirkan rakyat Malaysia yang berilmu pengetahuan, berakhlak mulia, bertanggungjawab, berketerampilan dan berkeupayaan mencapai kesejahteraan diri serta memberi sumbangan terhadap keharmonian dan kemakmuran keluarga, masyarakat dan Negara.





KATA-KATA ALUAN

PENGARAH PUSAT PENGAJIAN PRA UNIVERSITI

Assalamualaikum W.B.T. dan Salam Sejahtera.



Setinggi-tinggi tahniah saya ucapkan kepada para pelajar baharu sesi 2026/2027 ke Pusat Pengajian Pra Universiti (PPPU), Universiti Malaysia Sarawak (UNIMAS). Selamat datang ke Kampus UNIMAS yang akan memberikan banyak pengalaman berharga sepanjang pelajar-pelajar bersama dengan kami. Saya mewakili warga PPPU dan UNIMAS amat berbesar hati mengalu-alukan kehadiran para pelajar sekalian.

PPPU UNIMAS ditubuhkan pada asasnya untuk menyokong agenda dan keperluan negara dalam menghasilkan modal insan berkepakaran terutamanya dalam bidang-bidang Sains, Teknologi, Kejuruteraan dan Matematik (STEM) yang dipacu oleh kepesatan pembangunan negara. Penubuhan ini diiringi oleh penawaran dua program sains iaitu Asasi Sains Hayat dan Asasi Sains Fizikal. Perkembangan dan peredaran masa yang membawa kepada kemajuan teknologi seperti kecerdasan buatan (Artificial Intelligence) telah menjadi pemangkin untuk PPPU UNIMAS menawarkan Program Asasi Pengkomputeran. Kesemua program ini telah direka bentuk bagi memastikan modal insan yang dilahirkan adalah berkualiti tinggi, berdaya tahan serta berdaya saing.

Program-program ini telah direka bentuk dengan objektif untuk menghubungkan ilmu sedia ada para pelajar lepasan Sijil Pelajaran Malaysia (SPM) dengan kursus-kursus berkaitan yang akan dipelajari semasa peringkat Sarjana Muda. PPPU, dengan tenaga kerja yang berpengalaman, amat berharap agar para pelajar memanfaatkan pengalaman para pensyarah untuk mengekalkan momentum kecemerlangan di peringkat asasi dan seterusnya sarjana muda. Gunakanlah peluang dengan sebaiknya dan teruskan berpegang kepada cita-cita yang diimpikan sebagai pendorong para pelajar ke arah kecemerlangan akademik dan sahsiah. Rangkalah perancangan sebaiknya, rujuklah para pensyarah dan berusahalah sebaiknya untuk mengapai cita-cita.

Akhir kata, gunakanlah peluang yang ada ini sebagai satu laluan untuk mencorakkan diri anda ke arah kecemerlangan. Tahniah sekali lagi dan semoga para pelajar beroleh kejayaan dan pastikan anda kekal cecal dalam menghadapi semua cabaran yang mendatang.

"Semoga Anda Terus Cemerlang dan Bersinar!"

Dr Mohd Alhafiizh bin Zailani
Pengaroh
Pusat Pengajian Pra Universiti
Universiti Malaysia Sarawak





MELAKAR KECEMERLANGAN SEJAK 2010

PUSAT PENGAJIAN Pra Universiti

DEKAN / PENGARAH PPPU SEJAK 2010 SEHINGGA KINI



Prof. Dato' Dr Mohd Tajuddin bin Abdullah
1 Jun 2009 hingga 31 Mei 2011

Prof. Dr Sinin bin Hamdan

1 Jun 2011 hingga 31 Mei 2015



Prof. Dr Ramlah bt. Zainudin

1 Julai 2015 hingga 31 Disember 2018
(Memangku Dekan 1 Jun 2015)

Prof. Madya Dr Muna bt. Sabri

1 Januari 2019 hingga 31 Ogos 2022



Prof. Dr Ruhana bt. Hassan

1 September 2022 hingga 31 Ogos 2024

Dr Mohd Alhafiizh bin Zailani

1 September 2024 hingga kini





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PEGAWAI PENGURUSAN TERTINGGI UNIMAS

Naib Canselor

YBhg. Prof. Dr Haji Ahmad Hata bin Rasit

Timbalan Naib Canselor (Penyelidikan dan Inovasi)

YBhg. Prof. Ir Dr Hajah Siti Noor Linda bt. Haji Taib

Timbalan Naib Canselor (Akademik dan Antarabangsa)

YBhg. Prof. Dr Fitri Suraya bt. Mohamad Hapni Joblie

Timbalan Naib Canselor (Hal Ehwal Pelajar dan Alumni)

YBhg. Prof. Ir Dr Al-Khalid bin Hj Othman

Penolong Naib Canselor (Jaringan Industri, Masyarakat dan Kelestarian)

Prof. Madya Ts. Noraziah bt. Abdul Wahab

Ketua Pegawai Digital

Prof. Dr Wan Hashim bin Wan Ibrahim

Pendaftar

Tuan Haji Azlan bin Ramli

Bendahari

Dr Haji Mazlan bin Kiflie

Pengarah Pembangunan

Ts. Humphrey Rayang Anak Nelson Janang

Pengarah Perpustakaan Tun Abdul Rahman Ya'kub

Puan Levas Anak Mejus

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Fakulti Ekonomi dan Perniagaan

Prof. Dr Dayang Affizzah bt. Awang Marikan

Fakulti Kejuruteraan

Prof. Ir Dr Abdullah bin Hj Yassin

Fakulti Sains dan Teknologi Sumber

Prof. Dr Faisal Ali bin Anwarali Khan

Fakulti Perubatan dan Sains Kesihatan

Prof. Dr Asri bin Said

Fakulti Sains Kognitif dan Pembangunan Manusia

Dr Hana bt. Hamidi

Fakulti Sains Komputer dan Teknologi Maklumat

Prof. Dr Jane Labadin



**Fakulti Sains Sosial dan Kemanusiaan**

Dr Haslina bt. Hashim

Fakulti Seni Gunaan dan Kreatif

Dr Louis Ringah Anak Kanyan

Fakulti Pendidikan, Bahasa dan Komunikasi

Dr Dilah bin Tuah

Fakulti Alam Bina

Dr Atta Idrawani bin Zaini

Fakulti Undang-Undang

Prof. Dato' Dr Johan Shamsuddin bin Dato' Hj Sabaruddin

PENGARAH INSTITUT**Institut Kepelbagaian Biologi dan Pemuliharaan Alam Sekitar**

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Institut Kesihatan dan Perubatan Komuniti

Prof. Dr David Perera

Institut Pengajian Borneo

Prof. Dr Poline Bala

Institut Seni Kreatif Dan Teknologi/ iCreate

Prof. Dr Hasnizam bin Abd Wahid

Institut Informatik Sosial dan Inovasi Teknologi

Prof. Dr Tan Chong Eng

Institut Penyelidikan Pelancongan dan Inovasi

Prof. Dr Wang Yin Chai

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Pusat Pengajian Siswazah

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Pusat Penyelidikan, Pembangunan, Inovasi, Pengkomersilan dan Keusahawanan

Prof. Dr Awang Ahmad Sallehin bin Awang Husaini

Pusat Pengajian Pra Universiti

Dr Mohd Alhafiizh bin Zailani

Pusat Kelestarian Universiti

Prof. Madya Dr Rafeah bt. Wahi





Pusat Pembangunan & Khidmat Teknologi Maklumat

Puan Ts. Latifah Loh bt. Abdullah @ Loh Latipah

Pusat Perancangan Strategik, Pengurusan Kualiti Dan Risiko

Prof. Gs Dr Tarmiji bin Masron

Pusat Keusahawanan UNIMAS

Prof. Madya Ir Ts. Dr Siti Kudnie bt. Sahari

Pusat Pembelajaran Fleksibel / Centre for Flexible Learning (CFlex)

Prof. Madya Dr Kartinah bt. Zen

Pusat Islam Tun Abang Salahuddin

Tuan Haji Mohamad Zaky Gardafi bin Ibrahim

Pusat Akreditasi Pengalaman Pembelajaran Terdahulu

Prof. Madya Ts. Dr Rohana bt. Sapawi

Pusat Pembangunan dan Pengurusan Akademik

Dr Nur Tahirah bt. Razali

Arena Tun Tuanku Haji Bujang

Encik Awang Arshad bin Awang Kamis

Pusat Kepimpinan UNIMAS

Prof. Dr Abd Halim bin Busari

Pusat Industri Universiti

Prof. Dr Mohd Hasnain bin Mohd Hussain

Pusat Khidmat Pelajar (PKP)

Tuan Haji Zambari bin Haji Baijuri

Pusat Keselamatan dan Kesihatan Pekerjaan (PKKP)

Encik Abdul Halim bin Hashim

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Bahagian Keselamatan

Dr Nasriman bin Abdul Rahman

Bahagian Penerbitan (UNIMAS Publisher)

Puan Malia bt. Taibi

Bahagian Hal Ehwal Antarabangsa

Encik Thian Foong Fatt

Institut Tenaga Lestari dan Diperbaharui

Prof. Ts. Dr Shanti Faridah bt. Salleh

Bahagian Jaminan Kualiti Akademik

Ts. Dr Ade Syaheda Wani bt. Marzuki





Hospital Pengajar dan Pusat Kesihatan Prima UNIMAS (HPUNIMAS)

Prof. Dr. Ehfa bt. Bujang Safawi

Bahagian Endowmen dan Wakaf

Puan Hajah Dayang Nor Hajjah bt. Awang Daud

Bahagian Integriti

Puan Norhamimah bt. Haji Buang

UNIMAS Holdings Sdn Bhd

Encik Abdur Rahman Bin Abdul Rahim

UNIMAS Corporate

Dr Noratikah bt. Mohamad Ashari

UNIMAS Business School

Prof. Dr Puah Chin Hong

Bahagian Pengurusan Sumber Manusia

Puan Zuraidah bt. Abas

Bahagian Pengurusan Organisasi (BPO)

Encik Ezalman bin Tambi Lee



An aerial photograph of a building with a large, teal-colored corrugated metal roof. To the right of the building is a parking lot with white dashed lines and arrows indicating traffic flow. A red car is parked in the lot. The surrounding area includes green trees, a paved road, and other buildings with grey roofs. The text 'Bahagian A' is overlaid on the teal roof.

Bahagian A

PENGENALAN

A decorative white geometric pattern, resembling a stylized floral or mandala design, is positioned at the bottom of the page, partially overlapping the parking lot and the teal roof.

1.0 PENGENALAN

1.1 Sejarah UNIMAS

UNIMAS ditubuhkan pada 24 Disember 1992 dan merupakan universiti awam Ke-Lapan di Malaysia. Ia merupakan universiti pertama ditubuhkan selepas pengisytiharan Wawasan 2020 bagi memenuhi permintaan pendidikan tinggi dan menampung keperluan guna tenaga yang meningkat. Pengambilan pelajar pertama bermula pada sesi 1993/1994 di mana seramai 118 orang pelajar telah mendaftar untuk program Fakulti Sains Sosial dan Fakulti Sains dan Teknologi Sumber. Pada masa ini terdapat sebelas fakulti yang bertanggungjawab menawarkan 49 program pengajian peringkat Ijazah Sarjana Muda. Fakulti tersebut ialah:

- a) Fakulti Ekonomi dan Perniagaan (FEP)
- b) Fakulti Kejuruteraan (FK)
- c) Fakulti Perubatan dan Sains Kesihatan (FPSK)
- d) Fakulti Sains Kognitif dan Pembangunan Manusia (FSKPM)
- e) Fakulti Sains Komputer dan Teknologi Maklumat (FSKTM)
- f) Fakulti Sains Sosial dan Kemanusiaan (FSSK)
- g) Fakulti Sains dan Teknologi Sumber (FSTS)
- h) Fakulti Seni Gunaan dan Kreatif (FSGK)
- i) Fakulti Pendidikan, Bahasa dan Komunikasi (FPBK)
- j) Fakulti Alam Bina (FAB)
- k) Fakulti Undang-Undang

1.2 Penubuhan Pusat Pengajian Pra Universiti

Pusat Pengajian Pra Universiti (PPPU) menawarkan program Pra Universiti khusus untuk menyediakan pelajar lepasan SPM dengan kelayakan tertentu sebelum mengikuti program Ijazah Sarjana Muda di UNIMAS. Program ini memainkan peranan yang sangat penting sebagai *feeder* untuk membekalkan kemasukan pelajar ke program Ijazah di universiti, khususnya dalam bidang sains dan teknologi, dan sastera ikhtisas. Universiti Malaysia Sarawak (UNIMAS) yang merupakan Universiti Awam (UA) yang bertaraf universiti komprehensif di Sarawak pernah menawarkan program pengajian Pra Universiti (Matrikulasi) dari tahun 1995-1999 untuk tujuan seperti dinyatakan di atas. Selain itu, program tersebut juga berperanan sebagai saluran utama, khususnya untuk menyediakan pelajar yang layak dari komuniti luar bandar dan kawasan pedalaman Sarawak, sebelum mengikuti program Ijazah di UNIMAS.

Memandangkan betapa pentingnya program pengajian Pra Universiti sebagai *feeder* untuk membekalkan kemasukan pelajar ke program Ijazah di universiti maka pihak UNIMAS mencadangkan agar Pusat Pengajian Pra Universiti diwujudkan di UNIMAS. Sehubungan itu, Mesyuarat Pasca Kabinet Bil 15/2008 bertarikh 18 Jun 2008 yang dipengerusikan oleh YB Dato' Seri Mohamed Khaled bin Nordin, Menteri Pengajian Tinggi, telah bersetuju supaya Program Pengajian Pra Universiti diwujudkan di UNIMAS dan mula dilaksanakan di bawah RMK10. Perkara ini juga telah dibincangkan di dalam Mesyuarat antara Ketua Pengarah Jabatan Pengajian Tinggi dengan Timbalan Naib Canselor (Akademik & Antarabangsa) pada 28 Julai 2008 di UNIMAS.

Jabatan Pengajian Tinggi telah meluluskan penubuhan Pusat Pengajian Pra Universiti UNIMAS dan penawaran program Asasi Sains Hayat (UW0010001) dan Asasi Sains Fizikal (UW0010002) bermula pada sesi pengajian 2010/2011. Kemudian, program *International Foundation in Science* (W0030A/ W0030B) diperkenalkan pada sesi pengajian 2018/2019, diikuti oleh program Asasi Pengkomputeran (UW0010003) yang ditawarkan mulai sesi pengajian 2024/2025.

1.3 Visi dan Misi UNIMAS

Visi

Universiti peneraju global untuk kelestarian masa hadapan.

Misi

Untuk meningkatkan impak sosial dan ekonomi komuniti global melalui kecemerlangan dalam pengajaran, penyelidikan dan penglibatan strategik.

1.4 Visi dan Misi Pusat Pengajian Pra Universiti UNIMAS

Visi

Berdedikasi untuk menjadi sebuah pusat pengajian yang unggul dalam memacu dan menyediakan asas untuk perkembangan intelek, sahsiah dan kemahiran sendiri setiap pelajar.

Misi

Berusaha memperkembangkan potensi dan melahirkan pelajar berilmu pengetahuan, berfikiran kritis, amanah dan berketerampilan.

1.5 Objektif Pusat Pengajian Pra Universiti UNIMAS

Objektif utama penubuhan Pusat Pengajian Pra Universiti ialah sebagai pusat perintis (*feeder*) untuk membekalkan kemasukan pelajar ke program Ijazah di UNIMAS khususnya dalam bidang sains dan teknologi. Objektif-objektif lain ialah:

- a) Mewujudkan saluran utama untuk pengambilan pelajar lepasan SPM bagi kemasukan ke UNIMAS.
- b) Menyediakan akses dan peluang kemasukan bagi pelajar-pelajar yang berkelayakan dari kawasan pedalaman Sarawak.
- c) Meningkatkan kualiti ambilan untuk semua program pengajian di UNIMAS.
- d) Menyediakan program titian (*bridging*) dengan melengkapkan pelajar dengan kursus-kursus asas bagi bidang pengajian utama yang ditawarkan di UNIMAS.

1.6 Pengurusan Pusat Pengajian Pra Universiti



Dr Mohd Alhafiizh bin Zailani
Pengarah



Ts. Dr Noor Azie Azura bt. Mohd Arif
Timbalan Pengarah
(Akademik & Penyelidikan)



Dr Mohd Ridwan bin Abd Rahman
Timbalan Pengarah
(Hal Ehwal Pelajar & Alumni)



Dr Farah Liyana bt. Azizan
Penyelaras Program
Asasi Sains Fizikal



Dr Christharina S Gintoron
Penyelaras Program
Asasi Sains Hayat



Encik Adrus bin Mohamad Tazuddin
Penyelaras Program
Asasi Pengkomputeran



Dr Faznny bt. Mohd Fudzi
Penyelaras Program *International*
Foundation in Science



Puan Salbiah bt. Salleh
Timbalan Pendaftar



Cik Vevian anak Sibat
Penolong Pendaftar



Encik Besar bin Ketol
Pegawai Sains Kanan



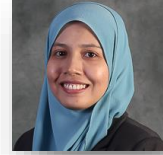
ChM Muhamad Akif Aizuddin
bin Jasni
Penyelaras Kursus Kimia



Encik Chew Khui Tat
Penyelaras Kursus Matematik



Puan Rohaiza bt. Daud
Penyelaras Kursus Biologi



Puan Nor Amalina bt. Ahmad
Penyelaras Kursus Fizik



Cik Kaith Princess Reyes Jettle
**Penyelaras Kursus
Bahasa Inggeris**



Encik Abd Razak bin Hosen
**Penyelaras Kursus
Kompetensi ICT**



Cik Farah Afiah bt. Abdullah
**Penyelaras Kursus
Kemahiran Komunikasi**



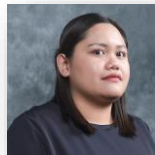
Dr Mohamad Fhaizal
bin Mohamad Bukhori
**Penyelaras Kursus
Kepimpinan & Kerja Berpasukan**



Encik Mohamad Razif
bin Othman
**Penyelaras Kursus
Nilai-Nilai Sejahtera**



Cik Siti Aisyah bt. Azhar
**Penyelaras Kursus
Pengenalan kepada
Matematik untuk
Pengkomputeran**



Cik Michelle anak George
**Penyelaras Kursus
Pengenalan kepada
Pembangunan Aplikasi Web/
Penyelesaian Masalah Dalam
Pengkomputeran**



Puan Fatin Hanani
bt. Kamaluddin
**Penyelaras Kursus
Asas Pengaturcaraan/
Trend Baru Muncul Dalam
Pengkomputeran**



Puan Nor Ika Shahirah
bt. Ramli
**Penyelaras Kursus
Pengenalan kepada
Sistem Pengurusan
Pangkalan Data/
Pengenalan kepada
Teknologi Rangkaian &
Internet**



Encik Tarmizi bin
Mohamad Shukri
**Penyelaras Kursus
Pengenalan kepada Antaramuka
Pengguna & Pengalaman
Pengguna UI/UX**



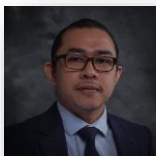
Encik Khalif Amir bin Zakry
**Penyelaras Kursus
Pengenalan kepada
Kemahiran Berfikir Kritis &
Kreatif/
Pengenalan kepada
Pembangunan Aplikasi
Mudah Alih**



Dr Ayu Ameliatul Shahihah
bt. Ahmad Jamri
**Penyelaras Kursus
Matematik Persediaan**

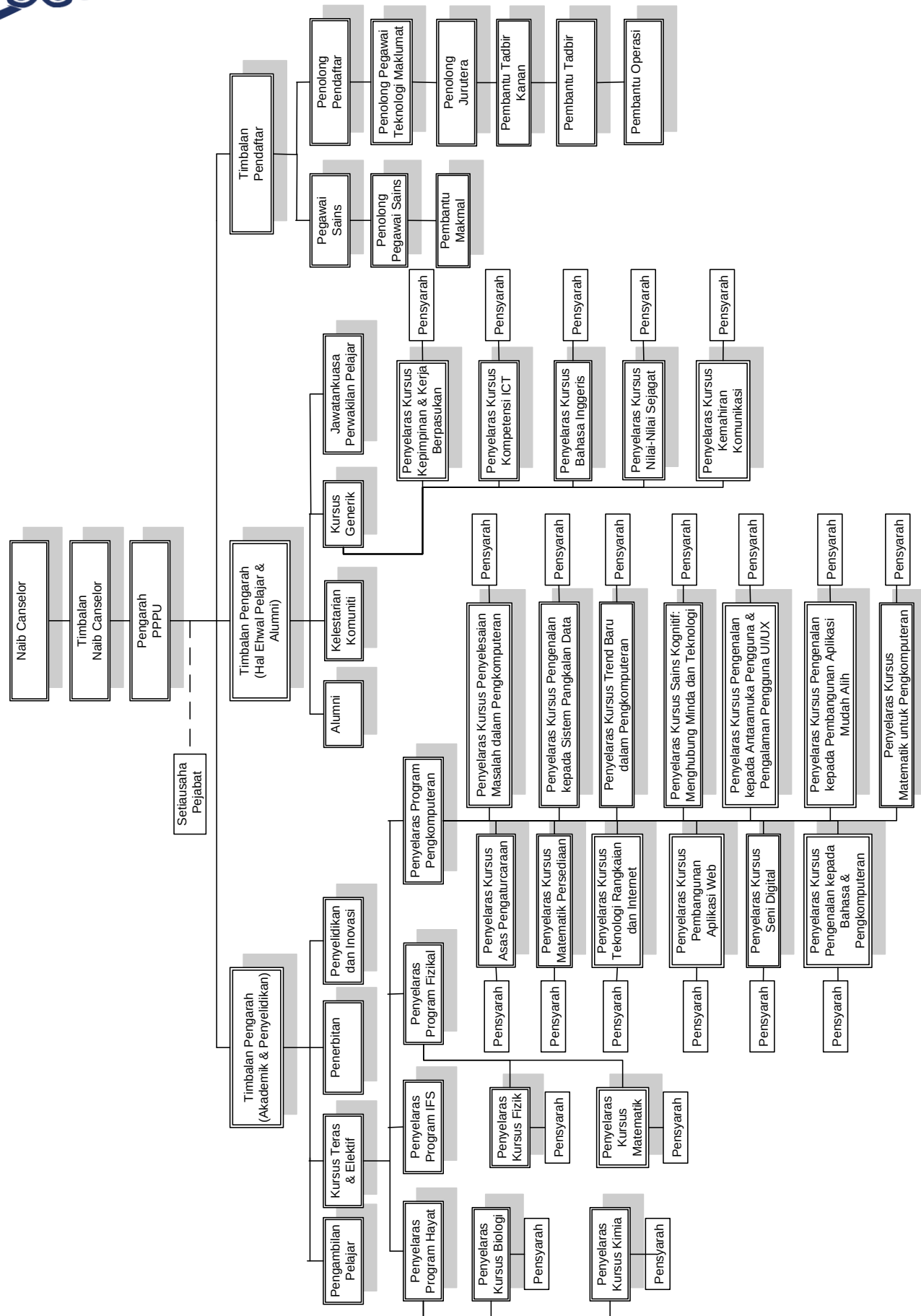


Cik Aslina bt. Mohd Jainal
**Penyelaras Kursus
Seni Digital**



Encik Mohd Hafizan bin Hashim
**Penyelaras Kursus
Sains Kognitif: Menghubung
Minda dan Teknologi**

1.7 STRUKTUR ORGANISASI



1.8 STRUKTUR PROGRAM

1.8.1 Konsep Umum

Program Pengajian Pra Universiti UNIMAS merupakan program persediaan khususnya bagi pelajar lepasan SPM untuk melayakkan mereka mengikuti kursus-kursus tertentu di peringkat Ijazah pertama dalam bidang sains dan teknologi di UNIMAS. Penyusunan kursus Program Pengajian Pra Universiti mengambil kira pengetahuan asas pelajar yang diterima masuk dan keperluan bidang-bidang tertentu pada peringkat ijazah pertama.

Kurikulum program memberi penekanan kepada aspek akademik dan bukan akademik yang bertujuan menyediakan pelajar-pelajar yang berilmu dan berketerampilan serta mempunyai ciri-ciri kualiti diri yang terpuji dan daya kepimpinan yang tinggi.

1.8.2 Tempoh Program

Program ini dijalankan dalam jangka masa satu tahun akademik (dua semester) iaitu bermula dengan Semester 1 dan diikuti oleh Semester 2 bagi genap satu tahun akademik. Tempoh perkuliahan bagi setiap semester adalah 18 minggu.

1.8.3 Struktur Pengajian Program Asasi Sains dan IFS

Struktur pengajian yang wajib diikuti oleh seseorang pelajar Asasi Sains Hayat, Asasi Sains Fizikal dan IFS adalah seperti berikut: -

Asasi Sains Hayat dan IFS (Modul Sains Hayat)					
Semester Pertama			Semester Kedua		
Kod Kursus	Nama Kursus	Kredit	Kod Kursus	Nama Kursus	Kredit
PRH1016	Biologi I	6	PRH1026	Biologi II	6
PRP1016	Kimia I	6	PRP1026	Kimia II	6
PRP1036	Matematik I	6	PRP1046	Matematik II	6
PRP1102	Kompetensi ICT	2	PRP1082	Kemahiran Komunikasi	2
PRP1053	Bahasa Inggeris I	3	PRP1063	Bahasa Inggeris II	3
PRP1072	Kepimpinan dan Kerja Berpasukan	2	PRP1092	Nilai-Nilai Sejagat	2
Jumlah		25	Jumlah		25

Asasi Sains Fizikal dan IFS (Modul Sains Fizikal)					
Semester Pertama			Semester Kedua		
Kod Kursus	Nama Kursus	Kredit	Kod Kursus	Nama Kursus	Kredit
PRF1016	Fizik I	6	PRF1026	Fizik II	6
PRP1016	Kimia I	6	PRP1026	Kimia II	6
PRP1036	Matematik I	6	PRP1046	Matematik II	6
PRP1082	Kemahiran Komunikasi	2	PRP1102	Kompetensi ICT	2
PRP1053	Bahasa Inggeris I	3	PRP1063	Bahasa Inggeris II	3
PRP1072	Kepimpinan dan Kerja Berpasukan	2	PRP1092	Nilai-Nilai Sejagat	2
Jumlah		25	Jumlah		25

1.8.4 Struktur Pengajian Program Asasi Pengkomputeran

Struktur pengajian yang wajib diikuti oleh seseorang pelajar Asasi Pengkomputeran adalah seperti berikut:

Asasi Pengkomputeran					
Semester Pertama			Semester Kedua		
Kod Kursus	Nama Kursus	Kredit	Kod Kursus	Nama Kursus	Kredit
PRT1014	Asas Pengaturcaraan	4	PRT1044	Pengenalan kepada Pembangunan Aplikasi Mudah Alih	4
PRT1024	Pengenalan Kepada Sistem Pengurusan Pangkalan Data	4	PRT1054	Pengenalan kepada Pembangunan Aplikasi Web	4
PRT1034	Matematik Persediaan	4	PRT1064	Pengenalan kepada Matematik untuk Pengkomputeran	4
PRL1053	Seni Digital	3*	PRL1033	Pengenalan kepada Teknologi Rangkaian dan Internet	3*
PRL1023	Pengenalan kepada Antaramuka Pengguna dan Pengalaman Pengguna UI/UX	3*	PRL1043	Trend Baru Muncul Dalam Pengkomputeran	3*
PRL1013	Penyelesaian Masalah Dalam Pengkomputeran	3*	PRL1063	Sains Kognitif: Menghubung Minda dan Teknologi	3*
PRP1053	Bahasa Inggeris I	3	PRP1063	Bahasa Inggeris II	3
PRP1072	Kepimpinan dan Kerja Berpasukan	2	PRP1082	Kemahiran Komunikasi	2
PRP1112	Pengenalan kepada Kemahiran Berfikir Kritis dan Kreatif	2	PRP1092	Nilai-Nilai Sejagat	2
Jumlah		25	Jumlah		25

* Pelajar Asasi Pengkomputeran perlu memilih dua subjek elektif bagi setiap semester.

1.8.5 Sistem Pengajaran

Sistem pengajaran-pembelajaran yang dipraktikkan sama seperti yang diamalkan oleh fakulti-fakulti lain di UNIMAS, iaitu kaedah pengajarannya dilaksanakan menerusi kuliah, amali, tutorial dan kerja kursus.

1.8.6 Sistem Penilaian dan Peperiksaan

Sistem penilaian dan peperiksaan pelajar Program Pengajian Pra Universiti UNIMAS adalah mirip dengan sistem penilaian dan peperiksaan yang diamalkan oleh UNIMAS di peringkat Ijazah, iaitu melibatkan penilaian berterusan dan peperiksaan akhir. Gred diberi untuk sesuatu kursus berdasarkan pencapaian pelajar dalam penilaian sepanjang semester termasuk kerja kursus, tutorial, amali dan ujian serta peperiksaan akhir.

1.8.7 Kod Kursus

Setiap kursus yang ditawarkan mempunyai kod yang unik. Sebagai contoh, Kursus Biologi I mempunyai kod kursus **PRH1016** dimana:

PR – Kod Abjad mewakili Pengajian Pra Universiti

H – Kod abjad program (H: Hayat, F: Fizikal, T: Komputer, P: Pusat & L: Elektif)

1 – Tahun pengajian

01 – Urutan Kursus

6 – Jumlah Kredit

1.8.8 Kursus-Kursus Generik

- a) Sebagai keperluan untuk tamat program, pelajar **DIMESTIKAN** mengambil kursus-kursus generik berikut:
 - I. Kepimpinan dan Kerja Berpasukan
 - II. Nilai-nilai Sejagat
 - III. Kemahiran Komunikasi
 - IV. Kompetensi ICT
 - V. Bahasa Inggeris
 - VI. Pengenalan kepada Kemahiran Berfikir Kritis dan Kreatif (Hanya untuk pelajar program Asasi Pengkomputeran sahaja)
- b) Pelajar yang telah melengkapkan keperluan kursus-kursus generik, akan dicatat dalam rekod akademik pelajar.

1.8.9 Pemilihan ke Program Ijazah Pertama UNIMAS

Pelajar yang lulus Program Pengajian Pra Universiti UNIMAS akan berpeluang mengikuti kursus peringkat ijazah di salah sebuah Fakulti di UNIMAS.

Program Asasi Sains Hayat dan IFS (Modul Sains Hayat)

I. Fakulti Perubatan dan Sains Kesihatan

- Doktor Perubatan*
- Kejururawatan

*Program Doktor Perubatan hanya ditawarkan kepada pelajar lepasan Program Asasi Sains Hayat

*Pelajar lepasan Program IFS Modul Sains Hayat boleh memohon Program Doktor Perubatan laluan komersial

II. Fakulti Sains dan Teknologi Sumber

- Agroteknologi
- Bioteknologi Sumber
- Kimia
- Sains dalam Biologi Marin dan Air Tawar
- Sains Tumbuhan
- Teknologi Zoologi

III. Fakulti Sains Kognitif dan Pembangunan Manusia

- Pembangunan Sumber Manusia
- Sains Kognitif
- Kaunseling
- Psikologi

IV. Fakulti Sains Komputer dan Teknologi Maklumat

- Sains Komputan
- Kejuruteraan Data
- Pengkomputeran Multimedia
- Kejuruteraan Perisian
- Pengkomputeran Rangkaian

V. Fakulti Alam Bina

- Seni Bina
- Ukur Bahan

VI. Fakulti Seni Gunaan & Kreatif

- Teknologi Seni reka
- Animasi

VII. Fakulti Pendidikan, Bahasa dan Komunikasi

- Pendidikan Islam

Program Asasi Sains Fizikal dan IFS (Modul Sains Fizikal)

- I. Fakulti Kejuruteraan
 - Kejuruteraan Sivil
 - Kejuruteraan Kimia
 - Kejuruteraan Mekanikal
 - Kejuruteraan Elektrikal dan Elektronik
- II. Fakulti Sains Komputer dan Teknologi Maklumat
 - Sains Komputan
 - Kejuruteraan Data
 - Pengkomputeran Multimedia
 - Kejuruteraan Perisian
 - Pengkomputeran Rangkaian
- III. Fakulti Sains Kognitif dan Pembangunan Manusia
 - Pembangunan Sumber Manusia
 - Sains Kognitif
 - Kaunseling
 - Psikologi
- IV. Fakulti Sains dan Teknologi Sumber
 - Agroteknologi
 - Bioteknologi Sumber
 - Kimia
 - Sains dalam Biologi Marin dan Air Tawar
 - Sains Tumbuhan
 - Teknologi Zoologi
- V. Fakulti Alam Bina
 - Seni Bina
 - Ukur Bahan
- VI. Fakulti Seni Gunaan dan Kreatif
 - Teknologi Seni Reka
 - Animasi
- VII. Fakulti Pendidikan, Bahasa dan Komunikasi
 - Pendidikan Islam

Program Asasi Pengkomputeran

- I. Fakulti Sains Komputer dan Teknologi Maklumat
 - Sains Komputan
 - Kejuruteraan Data
 - Pengkomputeran Multimedia
 - Kejuruteraan Perisian
 - Pengkomputeran Rangkaian
- II. Fakulti Sains Kognitif dan Pembangunan Manusia
 - Sains Kognitif
- III. Fakulti Alam Bina
 - Seni Bina
 - Ukur Bahan
- IV. Fakulti Seni Gunaan dan Kreatif
 - Teknologi Seni Reka
 - Animasi
 - Sinematografi
- V. Fakulti Sains dan Teknologi Sumber
 - Sains dalam Biologi Marin dan Air Tawar

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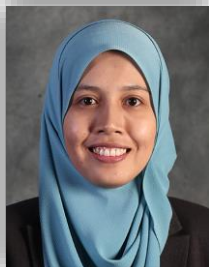
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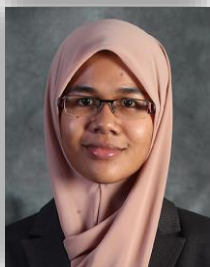
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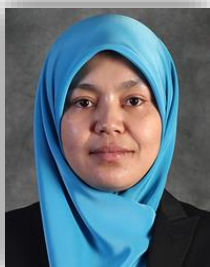
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Penolong Pendaftar



Encik Besar bin Ketol
Pegawai Sains Kanan



**Encik Awang Zainal Abidin
bin Awang Mohamad**
Penolong Pegawai
Teknologi Maklumat



**Encik Sarkawi
bin Daud**
Penolong Jurutera



**Encik Khairil Rizadh
bin Razali**
Penolong Pegawai Sains



**Puan Estafazrieza
bt. Fauzi**
Setiausaha Pejabat



**Puan Djennifer
Anak Franklin**
Pembantu Tadbir Kanan



**Encik Suhaimi
bin Rozlan**
Pembantu Tadbir



**Puan Roslina
bt. Kadir**
Pembantu Tadbir Kanan



**Puan Habibu Nisma
bt. Hud**
Pembantu Tadbir



**Cik Nur Imanina
bt. Kusuadi**
Pembantu Tadbir



**Encik Azizi
bin Hussain**
Pembantu Makmal



**Encik Raziman
bin Imam Ghazali @ Razali**
Pembantu Makmal



**Encik Faizullah
bin Rohmon**
Pembantu Makmal Kanan



**Encik Noorazman
bin Samsudin**
Pembantu Makmal



**Puan Nur Asrizza
bt. Azmi**
Pembantu Makmal



**Puan Farah Hanim
bt. Jamali**
Pembantu Makmal



**Encik Mohd Hafiz
bin Haji Mahmood**
Pembantu Operasi

1.11 Kalendar Akademik Program Asasi dan IFS, Pusat Pengajian Pra Universiti 2026/2027

SEMESTER 1			
AKTIVITI	TARIKH	TEMPOH	CATATAN
Pendaftaran – Kolej	11 – 12 Jun 2026	2 hari	
Minggu Aluan Pelajar	13 – 16 Jun 2026	4 hari	Majlis Ikrar Pelajar (16/6/2026) Awal Muharram (17/6/2026)*
Kuliah	22 Jun – 23 Ogos 2026	9 minggu	Hari Sarawak (22/7/2026) Peperiksaan Pertengahan Semester (17 - 21 Ogos 2026)
Cuti Pertengahan Semester	24 – 30 Ogos 2026	1 minggu	Maulidur Rasul (25/8/2026)
Kuliah	31 Ogos – 1 November 2026	9 minggu	Hari Kebangsaan (31/8/2026) Hari Malaysia (16/9/2026) Hari Jadi TYT Sarawak (10/10/2026)
Minggu Ulang Kaji	2 – 8 November 2026	1 minggu	Deepavali* (8/11/ 2026)
Peperiksaan Akhir Semester 1	9 – 13 November 2026	5 hari	
CUTI AKHIR SEMESTER 1	14 November – 4 Disember 2026	3 minggu	
SEMESTER 2			
AKTIVITI	TARIKH	TEMPOH	
Pendaftaran – Kolej	5 Disember 2026	1 hari	—
Kuliah	7 Disember 2026 – 7 Februari 2027	9 minggu	Hari Krismas (25/12/2026) Tahun Baru 2027 (1 /1/2027) Tahun Baru Cina (6 – 8/2/2027) Peperiksaan Pertengahan Semester (1 – 5 Feb 2027)
Cuti Pertengahan Semester	8 – 14 Februari 2027	1 minggu	Awal Ramadan 1448H* (8/2/2027)
Kuliah	15 Februari – 18 April 2027	9 minggu	Hari Raya Aidilfitri (10 – 11/3/2027)* Good Friday (26 Mac 2027)
Minggu Ulang Kaji	19 – 25 April 2027	1 minggu	
Peperiksaan Akhir Semester 2	26 – 30 April 2027	5 hari	
TAMAT PROGRAM			

Nota: * Tertakluk kepada perubahan





Bahagian B

SILIBUS KURSUS



2.0 COURSES SYLLABUS

2.1 Foundation in Life Sciences (UW0010001) and IFS Life Sciences Module (W0030A)

2.1.1 Programme Educational Objective (PEO) for Foundation in Life Science.

The programme shall produce graduates who are:

- knowledgeable and able to demonstrate practical skill in life sciences in line with needs at the faculty level.
- able to utilise cognitive and digital skills in solving science related problem.
- able to employ effective communication and leadership skills as well as acknowledging the need of ethic and professionalism in society

2.1.2 Programme Learning Outcome (PLO) for Foundation in Life Science.

Upon graduating from this programme, the students are able to:

- demonstrate understanding of fundamental knowledge relevant to life sciences
- apply knowledge of science as fundamental to a higher tertiary level
- demonstrate functional practical skills
- demonstrate functional communication skills
- use basic digital skills to process data in science
- demonstrate effective leadership skills in fulfilling their responsibilities
- practice personal skills in fulfilling various tasks
- practice professionalism and good ethical behaviour in diverse learning environment

2.2 Foundation in Physical Sciences (UW0010002) and IFS Physical Sciences Module (W0030B)

2.2.1 Programme Educational Objective (PEO) for Foundation in Physical Science.

The programme shall produce graduates who are:

- knowledgeable and able to demonstrate practical skill in physical sciences in line with needs at the faculty level.
- able to utilise cognitive and digital skills in solving science related problem.
- able to employ effective communication and leadership skills as well as acknowledging the need of ethic and professionalism in society.

2.2.2 Programme Learning Outcome (PLO) for Foundation in Physical Science.

Upon graduating from this programme, the students are able to:

- demonstrate understanding of fundamental knowledge relevant to physical sciences
- apply knowledge of science as fundamental to a higher tertiary level
- demonstrate functional practical skills
- demonstrate functional communication skills
- use basic digital skills to process data in science
- demonstrate effective leadership skills in fulfilling their responsibilities
- practice personal skills in fulfilling various tasks
- practice professionalism and good ethical behaviour in diverse learning environment

2.3 Foundation in Computing (UW0010003)

2.3.1 Programme Educational Objective (PEO) for Foundation in Computing.

The programme shall produce graduates who are:

- knowledgeable and able to demonstrate practical skills in computer science in line with needs at the faculty level.
- able to utilize cognitive and digital skills in solving computer-related problems.
- able to employ effective communication and leadership skills as well as acknowledging the need of ethics and professionalism in society.

2.3.2 Programme Learning Outcome (PLO) for Foundation in Computing.

Upon graduating from this programme, the students are able to:

- demonstrate understanding of fundamental knowledge relevant to computer science
- apply fundamental computer knowledge to a higher tertiary level
- demonstrate functional computing skills
- demonstrate functional communication skills.
- use basic digital skills to process data.
- demonstrate effective leadership skills in fulfilling their responsibilities.
- practice personal skills in fulfilling various tasks.
- practice professionalism and good ethical behaviour in diverse learning environments.

2.4 List of Offered Courses

Core Courses (Foundation in Science & IFS)

2.4.1	PRF1016	Physics I
2.4.2	PRF1026	Physics II
2.4.3	PRH1016	Biology I
2.4.4	PRH1026	Biology II
2.4.5	PRP1016	Chemistry I
2.4.6	PRP1026	Chemistry II
2.4.7	PRP1036	Mathematics I
2.4.8	PRP1046	Mathematics II

Core Courses (Foundation in Computing)

2.4.9	PRT1014	Programming Fundamentals
2.4.10	PRT1024	Introduction to Database Management System
2.4.11	PRT1034	Preparatory Mathematics
2.4.12	PRT1044	Introduction to Mobile Application Development
2.4.13	PRT1054	Introduction to Web Application Development
2.4.14	PRT1064	Introduction to Mathematics for Computing

Elective Core Courses (Foundation in Computing)

2.4.15	PRL1013	Problem Solving In Computing
2.4.16	PRL1023	Introduction to User Interface and User Experience UI/UX
2.4.17	PRL1033	Introduction to Network and Internet Technologies
2.4.18	PRL1043	Emerging Trends in Computing
2.4.19	PRL1053	Digital Art
2.4.20	PRL1063	Cognitive Science: Connecting Mind and Technology

University Courses

2.4.21	PRP1053	English I
2.4.22	PRP1063	English II
2.4.23	PRP1072	Leadership and Teamwork
2.4.24	PRP1082	Communication Skills
2.4.25	PRP1092	Universal Values
2.4.26	PRP1102	ICT Competency
2.4.27	PRP1112	Introduction to Critical and Creative Thinking Skills

COURSE TITLE **PHYSICS I**
(FIZIK I)

COURSE CODE **PRF1016**

CREDIT **6**

PREREQUISITE **NONE**

SYNOPSIS This course focuses on the motion of a body or a system to understand and apply physics concepts in real life. It starts with the basic and derived physical quantities. Next, physics mechanics are included which cover topics on several types of motion, statics, mechanical properties of matter and fluid mechanics. This course also introduces wave related topics such as simple harmonic motion, mechanical wave, sound wave and finally ended with heat and thermodynamics. Tutorials and laboratory works are conducted to assist the students in solving problems related to physics and develop their teamwork skills

LEARNING OUTCOMES By the end of this course, students will be able to:

1. Apply the concept of physics in physics mechanics.
2. Apply the concept of physics in oscillations, waves, heat, and thermodynamics.
3. Solve related problems using physics concepts.
4. Conduct laboratory experiments to solve physics problems.

STUDENT LEARNING HOURS		
	Guided LHs	Self LHs
Lectures	72	
Tutorial	14	
Practical	17	103
Others	0	
Continuous Assessment	9	13
Final Assessment	3	9
Sub-Total	115	125
Total	240 Hours	

LEARNING UNITS

1. Physical Quantities and Measurements
 - Physical quantities and units
 - Dimensions
 - Scalars and vectors
 - Measurement and errors
2. Kinematics of Linear Motion
 - Kinematics of linear motion
 - Uniformly accelerated motion
 - Freely falling bodies
 - Projectile motion
3. Statics
 - Newton's First Law
 - Basic of forces and free body diagram
 - Equilibrium of a particle
 - Equilibrium of a rigid body
4. Work, Energy and Power
 - Work and energy
 - Conservation of energy
 - Power
 - Mechanical efficiency
5. Dynamics
 - Newton's Second Law
 - Linear Motion
 - Circular Motion
 - Rotation of Rigid Bodies
 - Newton's Third Law
6. Mechanical Properties of Matter
 - Stress and Strain
 - Young's modulus
7. Fluid Mechanics
 - Hydrostatic pressure
 - Buoyancy
 - Fluid dynamics
 - Viscosity
8. Simple Harmonic Motion
 - Characteristics of simple harmonic motion
 - Kinematics of simple harmonic motion
 - Systems executing simple harmonic motion

9. Waves and Sound
 - Waves characteristics
 - Superposition of waves
 - Standing waves
 - Doppler effect
10. Temperature & Heat transfer
 - Temperature and Heat
 - Heat Transfer
 - Thermal Expansion
11. Thermodynamics
 - Ideal Gas Equations
 - Thermodynamics
 - First Law of Thermodynamics
 - Thermodynamics Processes
 - Thermodynamics Works

ASSESSMENT

Continuous Assessment	50 %
Final Assessment	50 %
Total	100 %

REFERENCES

1. PHYSICS for Matriculation: Semester 1 / Poh Liong Yong, Lee Beng Hin.
2. Laboratory Manual : PRF1016 : PHYSICS I, PRF1026 : PHYSICS II Nur Rasfina Mahyan, Norni Hidayawati Mat Daud, Nor Amalina Ahmad, Dzetty Soraya Abdul Aziz, Nor Hayati Jaya, Noor Azie Azura Mohd Arif
3. Physics for Scientists and Engineers : With Modern Physics / Raymond A. Serway, Emeritus, James Madison University, John W. Jewett, Jr., Emeritus, California State, Polytechnic University, Pomona ; With contributions from Vahé Perroomian, University of Southern California
4. Sang, D., Jones, G., Chadha, G., & Woodside, R. (2020) Physics for Cambridge International. Cambridge University Press.
5. Mohamed, S. M. & Shah, A.M (2022). Matriculation Physics, Penerbit Ilmu Bakti Sdn Bhd.
6. Lam, C. S., & Lim, S. K. (2022). Pre-U Text STPM Physics, Sasbadi Sdn Bhd

COURSE TITLE **PHYSICS II**
(FIZIK II)

COURSE CODE **PRF1026**

CREDIT **6**

PREREQUISITE **NONE**

SYNOPSIS This course explores the nature of optics, electric charge and the interaction of electric charges at rest and in motion. In addition, electrical circuitry principles, including circuit analysis technique, voltage and current laws, and the application of various circuit components are exposed in this course. The principle of electromagnetic induction and the behavior of resistor, inductor and capacitor in alternating current circuit are also discussed. Finally, the fundamental and application of quantum physics are included in the final section of this course. The aim of this course is to develop a good understanding of physics so that it can be related to real life applications. Tutorials and laboratory works are conducted to assist the students in solving problems related to physics and also to develop their teamwork skill.

LEARNING OUTCOMES By the end of this course, students will be able to:

1. Apply the concept of physics in electrical circuitry.
2. Apply the concept of physics in electromagnetism, optics and quantum physics.
3. Solve related physics problem using physics concepts.
4. Conduct laboratory experiments to solve physics problems.

STUDENT LEARNING HOURS		
	Guided LHs	Self LHs
Lectures	72	
Tutorial	16	103
Practical	15	
Others	0	
Continuous Assessment	9	13
Final Assessment	3	9
Sub-Total	115	125
Total	240 Hours	

LEARNING UNITS

1. Electrostatic
 - Coulomb's Law
 - Electric Field
 - Charge in a Uniform Electric Field
 - Electric Potential
 - Equipotential Surface
2. Capacitor and Dielectric
 - Capacitance
 - Parallel Plate Capacitor
 - Capacitors with Dielectrics
 - Capacitors in Series and in Parallel Circuits
 - Energy Stored in a Charged Capacitor
 - Charging and Discharging of Capacitors
3. Direct Current
 - Electrical Conduction
 - Resistivity and Ohm's Law
 - Variation of Resistance with Temperature
 - Electromotive Force
 - Electrical Energy and Power
 - Resistor in Series and Parallel Circuits
 - Kirchhoff's Law
4. Magnetism
 - Magnetic Field
 - Magnetic Field Produced by Current-Carrying Conductors
 - Force on a Moving Charge Particle in a Uniform Magnetic Field
 - Force between Two Parallel Current-Carrying Conductors
 - Torque on a Coil
 - Motion of a Charged Particle in Uniform Magnetic and Electric Field
5. Electromagnetic Induction
 - Magnetic Flux
 - Induced electromotive force
 - Self-Inductance
 - Energy Stored in Inductor
 - Mutual Inductance
6. Alternating Current
 - Alternating Current
 - Mean Square and Root Mean Square Currents
 - Resistance, Reactance and Impedance
 - Power and Power Factor
 - Rectification
7. Optics
 - Reflection and Refraction
 - Thin lens
 - Huygen's principle
 - Constructive and destructive interference

8. Quantum Physics
 - Photons and Electromagnetic Waves of Energy
 - Photoelectric Effect
 - Wave Particle Duality
9. X-ray
 - X-ray Spectra
 - Moseley's Law
 - X-ray Diffraction

ASSESSMENT

Continuous Assessment	50 %
Final Assessment	50 %
Total	100 %

REFERENCES

1. Laboratory Manual : PRF1016 : Physics I, PRF1026 : Physics II Nur Rasfina Mahyan, Norni Hidayawati Mat Daud, Nor Amalina Ahmad, Dzetty Soraya Abdul Aziz, Nor Hayati Jaya, Noor Azie Azura Mohd Arif
2. Yong, P.L. (2019) Physics for Matriculation Semester 2 (5th Edition Updated). Selangor: Oxford Fajar Sdn. Bhd.
3. Physics for Scientists and Engineers: With Modern Physics / Raymond A. Serway, Emeritus, James Madison University, John W. Jewett, Jr., Emeritus, California State, Polytechnic University, Pomona; With contributions from Vahé Perroomian, University of Southern California.
4. Sang, D., Jones, G., Chadha, G., & Woodside, R. (2020) Physics for Cambridge International. Cambridge University Press.
5. Ng, O.Y. (2022). Pre-U Text STPM Physics Semester 2, Sasbadi Sdn Bhd.

COURSE TITLE **BIOLOGY I
(BIOLOGI I)**

COURSE CODE **PRH1016**

CREDIT **6**

PREREQUISITE **NONE**

SYNOPSIS Fundamental concepts and characteristics of both prokaryotic and eukaryotic will be covered by studying cell structure and function, energetic, genetics, reproduction and development, control and coordination of animals and plants. Active learning environment will be encouraged by direct students' participations. The basic principles, concepts and theories of biology will be provided to assist students in learning natural science.

LEARNING OUTCOMES By the end of this course, students will be able to:

1. Define basic principles, theories, concepts, methods and main discoveries in biology.
2. Explain the concepts, processes and mechanism in plant, animal and human biology.
3. Apply biological knowledge in problem solving.
4. Perform experimental techniques in group laboratory works.

**STUDENT
LEARNING
HOURS**

	Guided LHs	Self LHs
Lectures	72	
Tutorial	3	
Practical	21	96
Others	0	
Continuous Assessment	11	19
Final Assessment	3	15
Sub-Total	110	130
Total	240 Hours	

LEARNING UNITS

1. An Overview of Biology.
 - Brief history and personalities involved in the development of biology; Introduction to instrumentation.
2. Biochemistry and Cell Structure and Function.
 - Cell structure, function and properties; Cell chemistry; DNA structure and function; Cellular respiration; Transport and gaseous exchange in animals and plants; Photosynthesis and nutrition.
3. Cell Division.
 - Mitosis and meiosis.
4. Reproduction
 - Asexual reproduction; Sexual reproduction in plants and animals; Plant and animal life cycles.
5. Development.
 - Plant and animal development; Human reproductive system and human fetal development.
6. Control and Coordination in Animal and Plant.
 - Homeostasis; Coordination and control in plants; Organisation of the nervous system structure and function.

ASSESSMENT

Continuous Assessment	50 %
Final Assessment	50 %
Total	100 %

REFERENCES

1. Campbell biology: concepts and connections / Jane B. Reece, Martha R. Taylor, Eric J. Simon, Jean L. Dickey, Kelly Hogan.
2. Ching, L. (2016). Pre-U Text STPM Biology First Term. Petaling jaya: Sasbadi.
3. Freeman, S., Quillin, K., Allison, L., Black, M. Taylor, E., Podgorski, G., & Carmichael, J. (2017). Biological Science, 6th Edition. Boston: Pearson.
4. Audesirk, G., Audesirk, T., & Byers, B. E. (2016). Biology: Life on Earth with Physiology (11th Edition). Boston: Pearson
5. Campbell, N. A., Urry, L. A., Cain, M. L., Wasserman, S. A., Minorsky, P. V., & Reece, J. B. (2020).
6. Biology: a Global Approach, Global Edition. Symonds, & Arulkumaran, S. Essential Obstetrics and Gynaecology International Edition (2019).
7. Plant Biology. Thomson/Brooks/Cole, California, USA. Cooper, G., & Adams, K. (2022).
8. The cell: a molecular approach. Oxford University Press.

COURSE TITLE **BIOLOGY II**
(BIOLOGI II)

COURSE CODE **PRH1026**

CREDIT **6**

PREREQUISITE **NONE**

SYNOPSIS This course introduces immunology, inheritance and mutation, evolution, biodiversity and ecology. The aims are to nurture students with current knowledge on immunology, plant and animal inheritance, evolution, population genetics; and biodiversity at organism and ecosystem levels. The lecturers act as a facilitator and resource person will provide the basic principles, concepts and theories of biology to assist students in learning natural science. The tutorials and laboratory will help students in making informed decision related to the biological problems.

LEARNING OUTCOMES By the end of this course, students will be able to:

1. Define basic principles, theories, concepts, methods and main discoveries in biology.
2. Explain the concepts, processes and mechanism on immunology, plant and animal inheritance, evolution and biodiversity.
3. Apply biological knowledge in problem solving and scientific observation.
4. Perform experimental techniques in group laboratory works.

**STUDENT
LEARNING
HOURS**

	Guided LHs	Self LHs
Lectures	72	
Tutorial	3	
Practical	21	96
Others	0	
Continuous Assessment	11	19
Final Assessment	3	15
Sub-Total	110	130
Total	240 Hours	

LEARNING UNITS

1. An Overview
 - Brief history and personalities involved in the development of immunology, inheritance, evolution and biodiversity
2. Immunology
 - Introduction and key terms in immune response; Overview of lymphatic system; Development of immunity; Concept of self and non-self.
3. Inheritance and Mutations.
 - Mendelian genetics; Dihybrid cross; Codominance and incomplete dominance, technology in molecular analysis; Multiple alleles, lethal genes, polygenes, linked genes; Pedigree analysis and gene mapping of chromosomes; Gene regulation and expression, mutation.
4. Evolution.
 - Theory of evolution; Wallace and Darwin theory of evolution, sources of variation, selection and speciation; Plant and animal adaptations in the tropical rainforest of Malaysia; Population growth, population ecology and population genetic.
5. Biodiversity.
 - Genetic, organismal and ecological diversity; Five kingdom system; Classification of plants and animals; Threat and conservation of biodiversity; Conservation status of the environment in Malaysia.
6. Ecology and Environment.
 - Ecological principles and ecosystem; Quantitative ecology; State of the global warming, ecology and environment in Sarawak and Malaysia.

ASSESSMENT

Continuous Assessment	50 %
Final Assessment	50 %
Total	100 %

REFERENCES

1. Campbell, N. A., Urry, L. A., Cain, M. L., Wasserman, S. A., Minorsky, P. V., & Reece, J. B. (2020).
2. iology: a Global Approach, Global Edition. Hickman, C., Keen, S., Eisenhour, D., Larson, A., & l'Anson, H. Integrated Principles of Zoology International Edition (2019).
3. Genetic: A Conceptual Approach. Macmillan Learning, New York. Allison, L. A. (2021).
4. Fundamental molecular biology. John Wiley & Sons.

COURSE TITLE **CHEMISTRY I
(KIMIA I)**

COURSE CODE **PRP1016**

CREDIT **6**

PREREQUISITE **NONE**

SYNOPSIS The course is designed to provide students with fundamental knowledge in chemistry and covers theoretical and practical aspects of various chemistry disciplines. The discussion includes topics such as chemical nomenclature, stoichiometry, thermochemistry, structure of atoms, the periodic table, molecules and molecular structures, and organic chemistry.

LEARNING OUTCOMES By the end of this course, students will be able to:

1. Explain fundamental knowledge in chemistry.
2. Apply chemistry knowledge and scientific method related to chemicals' composition, properties, reactions and stoichiometry.
3. Interpret data and information in scientific writing.
4. Perform laboratory experiments using proper scientific techniques.

**STUDENT
LEARNING
HOURS**

	Guided LHs	Self LHs
Lectures	66	
Tutorial	14	90
Practical	10	
Others	0	
Continuous Assessment	16	27
Final Assessment	3	14
Sub-Total	109	131
Total	240 Hours	

LEARNING UNITS

1. Chemistry and Chemical Nomenclature
 - Overview of chemistry
 - Principles of chemistry
 - Fundamental particles of atoms
 - Relative mass of atoms and molecules
2. Stoichiometry
 - Mole concept and Avogadro constant
 - Empirical formulae, molecular formulae and chemical equations
 - Chemical reactions in solutions
 - Redox reactions
3. Thermochemistry
 - Exothermic and endothermic reactions
 - Standard enthalpy change of chemical reaction
 - Hess Law and Born-Haber Cycle
 - Entropy
 - Free Gibbs Energy
4. Structure of Atoms
 - Electronic energy levels
 - Atomic orbitals
 - Arrangement of electrons in atomic orbitals
 - Electron configurations and the arrangement of elements in the Periodic Table
5. The Periodic Table
 - Introduction to the Periodic Table
 - Physical and chemical properties of the elements in Period 2 & Period 3
 - Physical and chemical properties of the elements in Group 2
 - Physical and chemical properties of the elements in Group 14
 - Physical and chemical properties of the elements in Group 17
 - Chemistry of d-Block Elements
6. Molecules and Molecular Structure
 - Ionic bonding
 - Metallic bond
 - Covalent bond and coordinate bond
 - Geometry and shapes of a molecule
 - Polarity
 - Hybridisation of orbitals
 - Intermolecular forces and hydrogen bonding
 - Chemical bonding and physical properties
7. Organic Chemistry I
 - Introduction to organic chemistry
 - Aliphatic hydrocarbons - Alkanes
 - Aliphatic hydrocarbons - Alkenes
 - Aromatic compounds - Benzene

ASSESSMENT

Continuous Assessment	50 %
Final Assessment	50 %
Total	100 %

REFERENCES

1. Nan, Z. & Zhang, S. (2020). Theory and Problems for Chemistry Olympiad: Challenging Concepts in Chemistry. New Jersey: World Scientific.
2. Christian, G. D., Purnendu K. Dasgupta, P. K. & Schug, K. A. (2020). Analytical Chemistry (7th edition). New Jersey: John Wiley and Sons, Inc.
3. Silberberg, M. S. (2021). Chemistry: The Molecular Nature of Matter and Change (9th edition). New York: McGraw-Hill.
4. Carey, F. A., Giuliano, R. M. Allison, N. T. & Bane, S. L. (2020). Organic Chemistry . (11th edition). New York: McGraw-Hill.
5. Chang, R. & Overby, J. (2019) Chemistry. (13th edition). New York: McGraw-Hill.

COURSE TITLE **CHEMISTRY II
(KIMIA II)**

COURSE CODE **PRP1026**

CREDIT **6**

PREREQUISITE **NONE**

SYNOPSIS The course is designed to equip students with fundamental knowledge in chemistry. The content of this course covers theoretical and practical aspects of various chemistry disciplines. The discussion includes topics such as states of matter, solutions, reaction kinetics, chemical equilibrium, acid-base equilibria, electrochemistry and functional groups in organic chemistry.

LEARNING OUTCOMES By the end of this course, students will be able to:

1. Explain fundamental knowledge in chemistry.
2. Apply chemistry knowledge and scientific method related to chemicals' composition, properties, reactions and stoichiometry.
3. Interpret data and information in scientific writing.
4. Perform laboratory experiments using proper scientific techniques.

STUDENT LEARNING HOURS		
	Guided LHs	Self LHs
Lectures	66	
Tutorial	14	90
Practical	10	
Others	0	
Continuous Assessment	16	27
Final Assessment	3	14
Sub-Total	109	127
Total	240 Hours	

LEARNING UNITS

1. Organic Chemistry II
 - Alkyl halides
 - Alcohols and Phenols
 - Carbonyl Compounds-Aldehydes and Ketones
 - Carboxylic acids and their derivatives
2. Gaseous, Liquid & Solid States
 - Physical States of Matter
 - The Gaseous State
 - The Liquid State
 - The Solid State
 - Phase Diagrams
3. Solutions
 - Types of Solutions
 - Solubility
 - Solutions and Raoult's Law
 - The Separation of Mixtures
 - Colligative Properties of Solutions
4. Reaction Kinetics
 - Rate of reaction
 - Collision Theory of Chemical Reaction
 - Transition State Theory
 - Rate Law
 - Factors affecting Reaction Rate and Rate Constant
 - Catalyst
5. Chemical Equilibrium
 - Reversible Reactions and Concept of Dynamic Equilibrium
 - Equilibrium Constant
 - Le Chatelier's Principle
 - Application of Chemical Equilibrium in the Industry
6. Acids and Bases
 - Theories of Acids and Bases
 - pH and Dissociation Constants
 - Buffer Solutions
 - Acid-Base Titrations
 - Solubility Equilibria
7. Electrochemistry
 - Introduction to Electrochemistry
 - Galvanic Cell
 - Electrolytic Cell

ASSESSMENT

Continuous Assessment	50 %
Final Assessment	50 %
Total	100 %

REFERENCES

1. Nan, Z. & Zhang, S. (2020). Theory and Problems for Chemistry Olympiad: Challenging Concepts in Chemistry. New Jersey: World Scientific.
2. Christian, G. D., Purnendu K. Dasgupta, P. K. & Schug, K. A. (2020). Analytical Chemistry (7th edition). New Jersey: John Wiley and Sons, Inc.
3. Silberberg, M. S. (2021). Chemistry: The Molecular Nature of Matter and Change (9th edition). New York: McGraw-Hill.
4. Carey, F. A., Giuliano, R. M. Allison, N. T. & Bane, S. L. (2020). Organic Chemistry . (11th edition). New York: McGraw-Hill.
5. Chang, R. & Overby, J. (2019) Chemistry. (13th edition). New York: McGraw-Hill.

COURSE TITLE **MATHEMATICS I**
(MATEMATIK I)

COURSE CODE **PRP1036**

CREDIT **6**

PREREQUISITE **NONE**

SYNOPSIS This course prepares students with mathematical theories and concepts in algebra and geometry. This course covers topics such as number system, equations, inequalities and absolute value, polynomials, sequences and series, matrices and system of linear equations, vectors, limits and continuity, functions and graphs, conic sections and trigonometric functions.

In addition to problem-solving skills, this course also inculcates critical and logical thinking in students. This course will be conducted through lectures and tutorials. Students will be assessed through group works and examinations.

LEARNING OUTCOMES By the end of this course, students will be able to:

1. Explain mathematical problems using suitable theories and concepts.
2. Solve mathematical problems using appropriate techniques or concepts related to algebra and geometry.
3. Demonstrate communication skills in relaying mathematical ideas.
4. Display mathematical rigor in working solutions to higher order problems.

STUDENT LEARNING HOURS

	Guided LHs	Self LHs
Lectures	90	
Tutorial	10	
Practical	0	100
Others	0	
Continuous Assessment	8	18
Final Assessment	3	11
Sub-Total	111	129
Total	240 Hours	

LEARNING UNITS

1. Number System
 - Real numbers
 - Indices, surds, logarithms
 - Complex numbers
2. Equations, Inequalities and Absolute Value
 - Equations
 - Inequalities
 - Absolute values
3. Polynomials
 - Polynomials
 - Remainder theorem, factor theorem and zeros of polynomial
 - Partial fractions
4. Sequences and Series
 - Sequences and series
 - Arithmetic sequences and series
 - Geometric sequences and series
 - Applications of arithmetic and geometric series
 - Binomial expansion
5. Matrices and Systems of Linear Equation
 - Matrices
 - Determinant of matrices
 - Inverse matrices
 - System of linear equations with three variables
6. Vectors
 - Vectors in two and three dimension
 - Scalar product
 - Vector product
 - Applications of vectors in geometry
7. Limits and Continuity
 - Limits
 - Asymptotes
 - Continuity
8. Functions and Graphs
 - Relation and functions
 - Composite functions
 - Inverse functions
 - Exponential and logarithmic functions
9. Conic Sections
 - Circles
 - Parabolas
 - Ellipses
10. Trigonometric Functions
 - Trigonometric ratios and identities
 - Compound angles
 - Solutions of trigonometric equations

ASSESSMENT

Continuous Assessment	50 %
Final Assessment	50 %
Total	100 %

REFERENCES

1. Mathematics For Matriculation: SEMESTER 1 / Ong Beng Sim, Maheran Nuruddin, Lee Khaik Yong, Che Noorlia Noor, Yong Zulina Zubairi, Miskiah Dzakaria.
2. Mathematics for Matriculation: SEMESTER 2 / Abdul Hadi Yaakub, Ong Beng Sim, Yong Zulina Zubairi, Tan Chong Eng, Lye Min Soon, Lee Khaik Yong, Che Noorlia Noor, Maheran Nuruddin, Miskiah Dzakaria.
3. PRE-U STPM Text Mathematics (T): TERM 1 / Lee Yoon Woh, Tan Guan Hin, Tey Kim Soon.
4. PRE-U STPM Text Mathematics (T): TERM 2 / Lee Yoon Woh, Chin Siew Wui, Tan Ah Geok.
5. Elementary Statistics: A STEP BY STEP APPROACH / ALLAN G. BLUMAN.
6. Bittinger, M.L., Ellenbogen, D.J., & Surgent, S.J. (2016). Calculus and Its Applications, Edition (11th Edition) Pearson Limited Edition.
7. Algebra & Trigonometry / Michael Sullivan, Chicago State University.
8. Beginning Algebra / Julie Miller, Professor Emerita, Daytona State College, Molly O'Neill, Professor Emerita, Daytona State College, Nancy Hyde, Professor Emerita, Broward College.

COURSE TITLE **MATHEMATICS II**
(MATEMATIK II)

COURSE CODE **PRP1046**

CREDIT **6**

PREREQUISITE **NONE**

SYNOPSIS This course prepares students with mathematical theories and concepts in statistics, combinatorics and calculus. This course covers topics such as differentiation, application of differentiation, integration, first order differential equation, data description, permutation and combination, probability, random variables and special probability distribution. In addition to problem-solving skills, this course also inculcates managerial and communication skills in students. This course will be conducted through lectures and tutorials. Students will be assessed through group works and examinations.

LEARNING OUTCOMES By the end of this course, students will be able to:

1. Explain mathematical problems using suitable theories and concepts.
2. Solve mathematical problems using appropriate techniques or concepts related to statistics, combinatorics and calculus.
3. Demonstrate communication skills in relaying mathematical ideas.
4. Demonstrate managerial skills in completing group work.

**STUDENT
LEARNING
HOURS**

	Guided LHs	Self LHs
Lectures	90	
Tutorial	11	
Practical	0	101
Others	0	
Continuous Assessment	9	15
Final Assessment	3	11
Sub-Total	113	127
Total	240 Hours	

LEARNING UNITS

1. Differentiation
 - Derivative of a function
 - Rules of differentiation
 - Differentiation of exponential, logarithmic and trigonometric functions
 - Implicit differentiation
 - Parametric differentiation
2. Application of Differentiation
 - Tangent and normal
 - Extremum problem
 - Rates of change
3. Integration
 - Integration of functions
 - Integration of trigonometric functions
 - Techniques of integration
 - Definite integrals
4. First Order Differential Equation
 - Separable Variables
 - First Order Linear Differential Equations
5. Data Description
 - Introduction to statistical data
 - Data organization and representation
 - Measures of location of the data
 - Measures of dispersion of the data
6. Permutations and Combinations
 - Permutations
 - Combinations
7. Probability
 - Events and probability
 - Conditional probability
8. Random Variables
 - Introduction to random variables
 - Probability of discrete random variables
 - Probability of continuous random variables
 - Expectation and variance of random variables
9. Special Probability Distribution
 - Introduction to probability distributions
 - Discrete probability distributions
 - Continuous probability distributions

ASSESSMENT

Continuous Assessment	50 %
Final Assessment	50 %
Total	100 %

REFERENCES

1. Mathematics For Matriculation: SEMESTER 1 / Ong Beng Sim, Maheran Nuruddin, Lee Khaik Yong, Che Noorlia Noor, Yong Zulina Zubairi, Miskiah Dzakaria.
2. Mathematics for Matriculation: SEMESTER 2 / Abdul Hadi Yaakub, Ong Beng Sim, Yong Zulina Zubairi, Tan Chong Eng, Lye Min Soon, Lee Khaik Yong, Che Noorlia Noor, Maheran Nuruddin, Miskiah Dzakaria.
3. PRE-U STPM Text Mathematics (T): TERM 1 / Lee Yoon Woh, Tan Guan Hin, Tey Kim Soon.
4. PRE-U STPM Text Mathematics (T): TERM 2 / Lee Yoon Woh, Chin Siew Wui, Tan Ah Geok.
5. Elementary Statistics: A STEP BY STEP APPROACH / ALLAN G. BLUMAN.
6. Bittinger, M.L., Ellenbogen, D.J., & Surgent, S.J. (2016). Calculus and Its Applications, Edition (11th Edition) Pearson Limited Edition.
7. Algebra & Trigonometry / Michael Sullivan, Chicago State University.
8. Beginning Algebra / Julie Miller, Professor Emerita, Daytona State College, Molly O'Neill, Professor Emerita, Daytona State College, Nancy Hyde, Professor Emerita, Broward College.

COURSE TITLE **PROGRAMMING FUNDAMENTALS
(ASAS PENGATURCARAAN)**

COURSE CODE **PRT1014**

CREDIT **4**

PREREQUISITE **NONE**

SYNOPSIS This course introduces learners to the fundamental building blocks of computer programming using Python. Students will learn elementary concepts such as variables, Boolean, Strings, Loops and branching statements via simple coding exercises.

LEARNING OUTCOMES By the end of this course, students will be able to:

1. Describe basic principles, concepts and methods in programming.
2. Perform simple command-line programs.
3. Construct complete flow charts based on a given specification.

**STUDENT
LEARNING
HOURS**

	Guided LHs	Self LHs
Lectures	24	
Tutorial	0	82
Practical	24	
Others	0	
Continuous Assessment	7	14
Final Assessment	3	6
Sub-Total	58	102
Total	160 Hours	

LEARNING UNITS

1. Variables, Statements and Expressions
 - Naming conventions, Keywords
 - Values & Data types
 - Operators & Operands
 - Statements and Expressions
2. Strings
 - Manipulating String
 - Escape Characters
 - String methods
3. Booleans
 - Values and Expressions
 - Logical operators
4. Condition and IF Statements
 - if, elif, else, if .. else, and, or, nested if, pass
5. Repetition Structures
 - FOR Loops, Single and Nested loops
 - WHILE Loop, List and Mutability
6. Programming: Flowcharts
 - Symbols
 - Condition & Loop
7. Functions
 - Definition
 - Invocation
 - Passing parameters/arguments
8. Tuples and Dictionaries
 - Tuple packing & unpacking
 - Tuple as return values
 - Tuple as arguments to Function calls
 - Dictionary operations & methods
9. Files
 - Read
 - Write
10. Import & Namespaces
 - Importing modules
 - Using namespaces

ASSESSMENT

Continuous Assessment	50 %
Final Assessment	50 %
Total	100 %

REFERENCES

1. Kernell, M. (2022), Python Programming for Beginners, ISBN-13: 979-8412574349
2. Reed, M. (2021), Python Programming: The Ultimate Beginners Guide to Learn Python Programming Step-by-Step, ISBN13: 979-8787512731
3. Balachandran, K. and Kokatnoor, S.A. (2022), Understanding Algorithms and Flowcharts, ISBN-13: 979-8437479476

COURSE TITLE INTRODUCTION TO DATABASE MANAGEMENT SYSTEMS
(PENGENALAN KEPADA SISTEM PENGURUSAN PANGKALAN DATA)

COURSE CODE PRT1024

CREDIT 4

PREREQUISITE NONE

SYNOPSIS This course explores the fundamental concepts necessary for database and document management systems. A particular emphasis is placed on the relational database model. Students will be exposed to the basic database knowledge and skills in designing a relational database using modeling technique as well as Structured Query Language.

LEARNING OUTCOMES By the end of this course, students will be able to:

1. Explain the importance of a database system and how it is widely used in most of application systems.
2. Construct a relational database design using appropriate modelling technique.
3. Build a database using Structured Query Language

**STUDENT
LEARNING
HOURS**

	Guided LHs	Self LHs
Lectures	36	
Tutorials	15	
Practical	10	67
Others	6	
Continuous Assessment	2	14
Final Assessment	3	7
Sub-Total	72	88
Total	160 Hours	

LEARNING UNITS

1. Database Systems Concepts
2. Database Environment
3. Data Models
4. Relational Database
5. Entity Relationship Modelling
6. Normalization
7. Structured Query Language
8. Database for the Web and Social Media
9. Database Administration and Security

ASSESSMENT

Continuous Assessment	50 %
Final Assessment	50 %
Total	100 %

REFERENCES

1. Elmasri, R., & Navathe, S. (2022). Fundamentals of Database Systems (7th ed.). Kindle Edition.
2. Coronel, C., & Morris, S. (2019). Database Systems: Design, Implementation, & Management (13th ed.). ISBN-13: 9781337627900 | ISBN-10: 1337627909.
3. Coronel, C., Morris, S., Crockett, K., & Blewett, C. (2020). Database Principles: Fundamentals of Design, Implementation, and Management* (3rd ed.). ISBN-13: 9781473768048.

COURSE TITLE PREPARATORY MATHEMATICS
(MATEMATIK PERSEDIAAN)

COURSE CODE PRT1034

CREDIT 4

PREREQUISITE NONE

SYNOPSIS This preparatory course focusses on selected topics from the SPM Additional Mathematics syllabus for students who did not fulfil the Additional Mathematics requirement as set out by MQA. It will equip students with the basic linear algebra and elementary statistics concepts and techniques required for problem solving and modelling. Everyday life problems will be given for students to solve using the knowledge gained from this course.

LEARNING OUTCOMES By the end of this course, students will be able to:

1. Demonstrate an understanding of basic linear algebra and statistical concepts and techniques.
2. Solve mathematical and statistical problems using appropriate techniques.
3. Display teamwork in solving mathematical and statistical problems in real-life.

STUDENT LEARNING HOURS		
	Guided LHs	Self LHs
Lectures	54	
Tutorials	8	
Practical	0	62
Others	0	
Continuous Assessment	7	16
Final Assessment	3	10
Sub-Total	72	88
Total	160 Hours	

LEARNING UNITS

1. Functions
 - Relations and Functions
 - Composite Functions
 - Inverse Functions
2. System of Equations
 - Systems of Linear Equations in Three Variables
 - Simultaneous Equations Involving One Linear Equation and One Non-Linear Equation
3. Indices, Surds and Logarithms
 - Laws of Indices
 - Laws of Surds
 - Laws of Logarithms
 - Applications of Indices, Surds and Logarithms
4. Progressions
 - Arithmetic Progressions
 - Geometric Progressions
5. Coordinate Geometry
 - Divisor of a Line Segment
 - Parallel and Perpendicular Lines
 - Areas of Polygons
 - Equations of Loci
6. Linear Law
 - Linear and Non-Linear Relations
 - Linear Law and Non-Linear Relations
 - Applications of Linear Law
7. Permutations and Combinations
 - Permutations
 - Combinations
8. Probability Distributions
 - Random Variables
 - Probability Distribution for Discrete RVs (tree diagram, prob. table, prob graph)
 - Binomial Distribution (mean, variance, std dev)
 - Normal Distribution (shape of normal dist., law of large numbers, standard normal distribution)



ASSESSMENT

Continuous Assessment	50 %
Final Assessment	50 %
Total	100 %

REFERENCES

1. Wong, M.K., Musa, Z., Kamar, A., Ahmad, S., Ahmad Zaki, N. & Burham, Z.H. (2020). *Additional Mathematics Form 4*, Penerbitan Pelangi Sdn. Bhd.
2. Musa, Z., Wong, M.K., Kamar, A., Ismail, Z, Ahmad Zaki, N., Burham, Z.H. & Ahmad, S. (2020). *Additional Mathematics Form 5*, Abadi Ilmu Sdn. Bhd.
3. Wong, M.K., Choo, G.L.P., Hin, C.T. & Yee, M.S. (2022). *Masterclass SPM (Form 4 & 5)*, Sasbadi Sdn. Bhd.
4. How, N.S., Huat, O.S., Goon, M.W., Yeoh, Y.K. & Yee, M.S. (2021). *Focus Additional Mathematics (Form 4 & 5)*, Penerbitan Pelangi Sdn. Bhd.



COURSE TITLE INTRODUCTION TO MOBILE APPLICATION DEVELOPMENT
(PENGENALAN KEPADA PEMBANGUNAN APLIKASI MUDAH ALIH)

COURSE CODE PRT1044

CREDIT 4

PREREQUISITE NONE

SYNOPSIS The aim of this course is to introduce basic concepts and structures of mobile application development using drag-and-drop software. The students are able to use code to connect the assorted components of their mobile user interface and learn to design and develop mobile applications.

LEARNING OUTCOMES By the end of this course, students will be able to:

1. Describe basic concepts and structures of mobile application development.
2. Apply mobile UI and logic for mobile application.
3. Demonstrate the mobile application solution using mobile development tool.

**STUDENT
LEARNING
HOURS**

	Guided LHs	Self LHs
Lectures	24	
Tutorials	0	60
Practical	26	
Others	0	
Continuous Assessment	6	16
Final Assessment	6	22
Sub-Total	62	98
Total	160 Hours	

LEARNING UNITS

1. Introduction to mobile application, design and working environment
2. UI layout, input and output, variables
3. Decision making and logical operator
4. Procedures
5. List/ data collection
6. Database
7. Graphics and animation
8. App projects

ASSESSMENT

Continuous Assessment	50 %
Final Assessment	50 %
Total	100 %

REFERENCES

1. Timbah, L. (2020). *Beginner Mobile app development using Mit app inventor* 2. Lorna Timbah.
2. Ibrahim, D. (2020). *Mit app inventor projects: 50+ android and ios apps with Raspberry Pi, esp32 and Arduino*. Elektor International Media B.V.
3. Chak, T. Y. (2020). *Introduction to Block Based Programming: with MIT App Inventor*, HobbyPRESS TomorrowSKILLS.

COURSE TITLE INTRODUCTION TO WEB APPLICATION DEVELOPMENT
(PENGENALAN KEPADA PEMBANGUNAN APLIKASI WEB)

COURSE CODE PRT1054

CREDIT 4

PREREQUISITE NONE

SYNOPSIS This course introduces students to the fundamentals of Web Application Development. Students will learn web technologies such as HTML, CSS and JavaScript, database manipulation using SQL and PHP. At the end of the course, students are required to follow instructions to develop an ecommerce web application in a team which involves the application of the knowledge and skills acquired in this course.

LEARNING OUTCOMES By the end of this course, students will be able to:

1. Explain the fundamentals of web application development.
2. Apply the concept in developing a web application.
3. Demonstrate web ethics.

**STUDENT
LEARNING
HOURS**

	Guided LHs	Self LHs
Lectures	30	
Tutorials	0	
Practical	30	60
Others	0	
Continuous Assessment	4	24
Final Assessment	3	9
Sub-Total	67	93
Total	160 Hours	

LEARNING UNITS

1. Introduction to Web Technologies
 - The internet and the Web
 - Client-Server Architecture
 - Web application Roadmap
 - Tools for Web Application Development
2. Front-end Scripting (Part I)
 - Latest HTML Scripting for Structuring Web Content
 - Multimedia
 - HTML Tables
3. Front-end Scripting (Part II)
 - Latest CSS for Formatting Style
 - Text and Layout
4. Front-end Scripting (Part III)
 - Latest JavaScript for Dynamic Behaviour
 - Working with Browser Objects (DOM)
 - JavaScript Libraries and APIs
5. Back-end Scripting (Part I)
 - Web Server
 - Web Database & SQL
6. Back-end Scripting (Part II)
 - PHP Basic Syntax
 - PHP Variables
 - PHP Operators
 - PHP Control Structures
 - PHP Functions
7. Back-end Scripting (Part III)
 - PHP File Handling
 - PHP Error Handling
 - PHP Exception
8. Basic Web Security
 - Database
 - PHP Cookies & Session
 - PHP Form Validation
 - Web Page and Folder

ASSESSMENT

Continuous Assessment	50 %
Final Assessment	50 %
Total	100 %



REFERENCES

1. Kevin Tatroe, Peter MacIntyre (April 7, 2020). Programming PHP: Creating Dynamic Web Pages, 4th Edition. O'Reilly Media. ISBN-10 : 1492054135
2. Ben Frain (April 30, 2020). Responsive Web Design with HTML5 and CSS: Develop future-proof responsive websites using the latest HTML5 and CSS techniques, 3rd Edition. Packt Publishing. ISBN-10 : 1839211563
3. David Flanagan (June 9, 2020). JavaScript: The Definitive Guide: Master the World's Most-Used Programming Language, 7th Edition. O'Reilly Media. ISBN-10: 1491952024

COURSE TITLE INTRODUCTION TO MATHEMATICS FOR COMPUTING
(PENGENALAN KEPADA MATEMATIK UNTUK PENGKOMPUTERAN)

COURSE CODE PRT1064

CREDIT 4

PREREQUISITE NONE

SYNOPSIS This course introduces basic concepts in linear algebra and statistics fundamental to many areas of computer science, including computer graphics, image processing, machine learning, data mining and artificial intelligence. This course provides an understanding of the relevant concepts in linear algebra such as matrices, systems of linear equations, and vectors. It emphasizes statistical literacy and develop statistical thinking and stresses conceptual understanding rather than mere knowledge of procedures.

LEARNING OUTCOMES By the end of this course, students will be able to:

1. Demonstrate an understanding of basic linear algebra and statistical concepts and techniques.
2. Apply suitable linear algebra and statistical techniques to solve practical problems in computer science and related fields.
3. Work in group to solve more complex real-life problems.

**STUDENT
LEARNING
HOURS**

	Guided LHs	Self LHs
Lectures	58	
Tutorials	8	
Practical	0	66
Others	0	
Continuous Assessment	5	14
Final Assessment	3	6
Sub-Total	74	86
Total	160 Hours	

LEARNING UNITS

1. Equations, Inequalities and Absolute Values
 - Equations
 - Inequalities
 - Absolute Values
2. Polynomials
 - Polynomials
 - Remainder Theorem, Factor Theorem and Zeros of Polynomial
 - Partial Fractions
3. Matrices and Systems of Linear Equations
 - Matrices
 - Determinants
 - Inverse Matrices
 - System of Linear Equations with Three Variables
4. Vectors
 - Introduction to Vectors
 - Vectors in Two and Three Dimensions
 - Scalar Product
 - Vector Product
 - Applications of Vectors in Geometry
5. Data Description
 - Introduction to Data
 - Measures of Location
 - Measures of Dispersion
6. Probability
 - Events and Probability
 - Conditional Probability
7. Random Variables
 - Introduction to Random Variables
 - Discrete Random Variables
 - Continuous Random Variables
 - Expectation and Variance of Random Variables
8. Special Probability Distributions
 - Binomial Distribution
 - Poisson Distribution
 - Normal Distribution

ASSESSMENT

Continuous Assessment	50 %
Final Assessment	50 %
Total	100 %

REFERENCES

1. Sim, O.B., Nuruddin, M., Yong, L.K., Noor, C.N, Zubairi, Y.Z. & Dzakaria, M. (2018). Mathematics for Matriculation Semester 1, 5th Ed., Oxford Fajar Sdn. Bhd.
2. Yaakub, A.H., Sim O.B., Zabairi, Y.Z., Eng, T.C., Soon L.M., Yong, L.K., Noor, C.N., Nuruddin, M. & Dzakaria, M. (2018). Mathematics for Matriculation Semester 2, 5th Ed. Oxford Fajar Sdn. Bhd.
3. Who, L.Y., Hin, T.G., Kim, S.T. (2018). Pre-U STPM Text Mathematics (T) Term 1. Selangor: Pelangi.
4. Who, L.Y., Wui, C.S., Geok, T.A. (2016). Pre-U STPM Text Mathematics (T) Term 2. Selangor: Pelangi.
5. Allan G. Bluman (2018). Elementary Statistics: A Step-By-Step Approach, 10th Ed., McGraw-Hill Education.
6. Miller, J., O'Niel, M. & Hyde, N. (2017). Beginning Algebra, 5th Ed. McGraw-Hill Education.

COURSE TITLE **PROBLEM SOLVING IN COMPUTING**
(PENYELESAIAN MASALAH DALAM PENGKOMPUTERAN)

COURSE CODE **PRL1013**

CREDIT **3**

PREREQUISITE **NONE**

SYNOPSIS This course aims to introduce how to analyse computing problems and employ techniques to generate solutions. Student will also be able to more effectively manage the implementation and monitoring of a solution after a decision has been reached.

LEARNING OUTCOMES By the end of this course, students will be able to:

1. Explain the basic concept of problem-solving in computing.
2. Apply problem-solving process and techniques to address computing problems.
3. Demonstrate communication skills in problem solving process.

**STUDENT
LEARNING
HOURS**

	Guided LHs	Self LHs
Lectures	26	
Tutorials	13	
Practical	0	39
Others	0	
Continuous Assessment	5	14
Final Assessment	5	18
Sub-Total	49	71
Total	120 Hours	

LEARNING UNITS

1. Introduction
 - Characteristic of Computing Problem
 - Barriers of Problem Solving
 - Steps to Efficient Problem Solving
2. Analysing the Problem
 - Understand Your Problem
 - Breaking Problem to Small Part
 - Define problem domain
 - Measuring end goals
3. Designing the Solution
 - Flowchart
 - Pseudocode
 - Algorithm
4. Developing the Solution
 - Coding
 - Compile
 - Execution
 - Debugging
5. Evaluation
 - Testing
 - Documentation

ASSESSMENT

Continuous Assessment	50 %
Final Assessment	50 %
Total	100 %

REFERENCES

1. Mailund, T. (2021). Introduction to Computational Thinking. Apress.
2. Sethi, R.J.(2020). Essential Computational Thinking: Computer Science from Scratch. Cognella Academic Publishing.
3. Xu, Z. & Zhang, J.(2022). Computational Thinking: A Perspective on Computer Science. Springer.
4. Bers,M.(2021).Teaching Computational Thinking and Coding to Young Children. GI Global.
5. Jesus, S.D. & Martinez, D.(2020).Applied Computational Thinking with Python. Packt Publishing.

COURSE TITLE INTRODUCTION TO USER INTERFACE AND USER EXPERIENCE (UI/UX)
(PENGENALAN KEPADA ANTARAMUKA PENGGUNA DAN
PENGALAMAN PENGGUNA UI/UX)

COURSE CODE PRL1023

CREDIT 3

PREREQUISITE NONE

SYNOPSIS It is vital to understand the nature of user interface and user experience (UI/UX) when utilising websites and mobile applications. The objective of this course is to present the fundamentals of UI/UX and its application to solving user problems based on current industrial practices. Students will learn how to apply the concept of user-centred design to develop impactful web, mobile app user interfaces and interactions.

LEARNING OUTCOMES By the end of this course, students will be able to:

1. Explain the basic concepts of UI/UX design.
2. Demonstrate digital design skillset for individual and collaborative work to design digital interactions.
3. Perform user-centred design technique in designing digital media products.

**STUDENT
LEARNING
HOURS**

	Guided LHs	Self LHs
Lectures	32	
Tutorials	0	48
Practical	16	
Others	0	
Continuous Assessment	2	10
Final Assessment	2	10
Sub-Total	52	68
Total	120 Hours	

LEARNING UNITS

1. Introduction to UI/UX
 - Differences Between UI and UX Design
 - The Role of UI/UX in Product Success
 - Key Principles of Human-Centered Design
 - Overview of the Design Process
2. User Personas, Journey and Empathy
 - Understanding User Personas and Their Importance
 - Mapping the User Journey
 - Building Empathy Through User Research
 - Identifying Pain Points and Opportunities
3. Information Architecture and Accessibility
 - Structuring Content with Information Architecture
 - Introduction to Accessibility Standards
 - Navigation Design for Usability
 - Designing for Inclusive and Diverse Audiences
4. Interaction Design and Usability Principles
 - Core Principles of Interaction Design
 - Designing for Microinteractions and Feedback
 - Usability Heuristics for User-Friendly Design
 - The Role of Animation in Enhancing Interactions Visual Storytelling and Visual Design Principles
5. Visual Design and Layout Systems
 - Fundamentals of Visual Hierarchy
 - Designing Consistent Layout Systems
 - The Role of Typography and Color in UI/UX
 - Building and Using Design Systems
6. Wireframes and Low-Fidelity Prototypes
 - Benefits of Wireframing in the Design Process
 - Tools and Techniques for Low-Fidelity Prototyping
 - Best Practices for Sketching Wireframes
 - Collaborating on Wireframes with Teams
7. User Testing and Iterative Design
 - Conducting Usability Testing Sessions
 - Methods for Gathering User Feedback
 - Iterating on Designs Based on Test Results
 - A/B Testing and Data-Driven Design
8. High-Fidelity Prototypes
 - Transitioning from Low-Fidelity to High-Fidelity Prototypes
 - Tools for Creating High-Fidelity Prototypes (e.g., Figma, Adobe XD)
 - Adding Interactions and Animations to Prototypes
 - Presenting High-Fidelity Prototypes to Stakeholders



ASSESSMENT	Continuous Assessment	50 %
	Final Assessment	50 %
	Total	100 %

REFERENCES

1. Voil, Nick de. (© 2020). *User experience foundations*. [Books24x7 version] Available from <http://library.books24x7.com/toc.aspx?bookid=128297>.
2. Lew, Gavin & Schumacher Jr., Robert M.. (© 2020). *Ai and ux: why artificial intelligence needs user experience*. [Books24x7 version] Available from <http://library.books24x7.com/toc.aspx?bookid=153835>.
3. MacDonald, D. (2019). *Practical UI patterns for design systems: Fast-track interaction design for a seamless user experience*. Apress.
4. Whalen, J. (2019). *Design for How People Think: Using Brain Science to Build Better Products*. O'Reilly Media.



COURSE TITLE INTRODUCTION TO NETWORK AND INTERNET TECHNOLOGIES
(*PENGENALAN KEPADA TEKNOLOGI RANGKAIAN DAN INTERNET*)

COURSE CODE PRL1033

CREDIT 3

PREREQUISITE NONE

SYNOPSIS This course is to introduce the students to the fundamental of computer network, wireless computer network, network architecture and the Internet of Things (IoT). Student will explore Arduino programming to connect a simple system to the Internet.

LEARNING OUTCOMES By the end of this course, students will be able to:

1. Describe the fundamentals of computer network technologies and its implementation.
2. Perform simple programming in IoT.
3. Work as a team to develop a functional sensor application using Arduino.

**STUDENT
LEARNING
HOURS**

	Guided LHs	Self LHs
Lectures	8	
Tutorials	3	
Practical	0	51
Others	38	
Continuous Assessment	2	8
Final Assessment	2	8
Sub-Total	53	67
Total	120 Hours	

LEARNING UNITS

1. An Introduction to Networking
 - What is a computer network?
 - Network Hardware
 - Networking Standards and the OSI Model
2. Introduction and overview of Wireless and Mobile Network
 - Types of wireless network and mobile network
 - Network protocol
 - Internet Service Providers (ISPs) and Network Service Providers (NSPs)
 - WLAN, WiFi, Adhoc, Mobile-to-Mobile
 - Evolution of Mobile network 1G-5G and LTE Cloud computing
3. Introduction to the Internet of Things
 - What is the IoT and why is it important?
 - Elements of an IoT ecosystem- architecture and protocol
 - IoT applications, trends and implications
4. Introduction and understanding of Embedded system
 - Overview of basic electronics and digital electronics.
 - Microcontroller vs. Microprocessor
 - Common features of microcontrollers.
 - Comparison between the two different types of microcontrollers.
5. Development of IoT project (Getting started with Arduino)
 - Overview of Arduino hardware and software requirement.
 - Introduction Arduino Simulation Environment
 - Introduction to Arduino -Familiarizing with Arduino Interfacing Board-Familiarizing with Arduino Interfacing Board -Pin configuration and architecture - Device and platform features -Concept of digital and analog ports.
6. Introduction to Embedded C, Arduino platform and review of basic Concepts
 - Arduino data types - Variables and constants - Operators - Control Statements - Arrays – Functions.
 - Arduino i/o Functions -Pins Configured as INPUT - Pull-up Resistors - Pins Configured as OUTPUT - pinMode() Function - digitalWrite() Function - analogRead() function - Arduino Interrupts.
 - Arduino Time - Incorporating Arduino time - delay() function - delay Microseconds() function - millis() function - micros() function.
 - Arduino Displays - Working with Serial Monitor - Line graph via serial monitor - Interfacing a 8 bit LCD to Arduino - Fixed one line static message display. - Running message display. - Using the LCD Library of Arduino.

7. Arduino Sensors
- Arduino Secondary Integrations - Types of Relay - Controlling Electrical appliances with electromagnetic relays - Working of a matrix keypad - Using the keypad library to interface with Arduino. - Interfacing Servo motors to Arduino - Interfacing an RF Module
 - Giving Input to the controller - Using serial input. - Controlling LEDs with keys. - Keys as a toggle switch. -Interfacing a piezo Buzzer - Using a buzzer as an alarm unit
 - Arduino Communications - Parallel Communication -Serial Communication Modules - Types of Serial Communications - Arduino UART - GSM/GPRS Arduino Interfacing
8. Arduino Project. This will involve designing, developing, coding and implement Arduino project.

ASSESSMENT	Continuous Assessment	50 %
	Final Assessment	50 %
	Total	100 %

- REFERENCES**
1. Lowe, D. (2020). *Networking for Dummies*.
 2. Kurose, J. F., & Ross, K. W. (2012). *Computer Networking: A Top-Down Approach* (6th ed.). Addison-Wesley.
 3. Programming Electronic Academy. (2021). *Arduino Book for Beginners*.
 4. Makerspace.com. (2022). *Arduino for Beginners*.

COURSE TITLE **EMERGING TRENDS IN COMPUTING**
(TREND BARU MUNCUL DALAM PENGKOMPUTERAN)

COURSE CODE **PRL1043**

CREDIT **3**

PREREQUISITE **NONE**

SYNOPSIS This course introduces learners to the emerging trends in computing. The trends are clustered into 5 domains corresponding to 5 undergraduate programmes currently being offered in FCSIT, UNIMAS. A series of 3 lectures per domain will be delivered by leading experts from both academia and industry. Learners learn the value of each new technology by doing test cases and a community-based project.

LEARNING OUTCOMES By the end of this course, students will be able to:

1. Describe emerging computing trends.
2. Apply computing solution to real-life problem.
3. Report each trend's contributions towards the betterment of quality of life.

**STUDENT
LEARNING
HOURS**

	Guided LHs	Self LHs
Lectures	45	
Tutorials	0	45
Practical	0	
Others	0	
Continuous Assessment	6	4
Final Assessment	2	18
Sub-Total	53	67
Total	120 Hours	

LEARNING UNITS

1. Domain 1: Computational Science
 - Free Topic 1
 - Free Topic 2
 - Free Topic 3
2. Domain 2: Information Systems
 - Free Topic 1
 - Free Topic 2
 - Free Topic 3
3. Domain 3: Multimedia Computing
 - Free Topic 1
 - Free Topic 2
 - Free Topic 3
4. Domain 4: Software Engineering
 - Free Topic 1
 - Free Topic 2
 - Free Topic 3
5. Domain 5: Network Computing
 - Free Topic 1
 - Free Topic 2
 - Free Topic 3

ASSESSMENT

Continuous Assessment	50 %
Final Assessment	50 %
Total	100 %

REFERENCES

1. Hubbard, S. (2021), *Tech Trends: 2021 Simple Guide for Future Technologies*, ISBN-13: 979-8512979976
2. Gutman, A. and Goldmeier, J. (2021), *Becoming a Data Head: How to Think, Speak and Understand Data Science, Statistics and Machine Learning 1st Edition*. ISBN-13: 978-1119741749
3. Watters, A. (2021, September 9). *15 emerging trends in information technology for 2021*. Retrieved April 1, 2022, from <https://connect.comptia.org/blog/emerging-trends-in-information-technology>

COURSE TITLE **DIGITAL ART
(SENI DIGITAL)**

COURSE CODE **PRL1053**

CREDIT **3**

PREREQUISITE **NONE**

SYNOPSIS This course provides students the knowledge and understanding about the usage of digital media equipment such as computers, scanners and printers in creating artwork. Students will also learn to scan, store, process and manipulate images or data using image editing software. Studio-based digital and technology in visual art practice become the core of this course.

LEARNING OUTCOMES By the end of this course, students will be able to:

1. Describe digital flows and equipment in producing visual artworks.
2. Demonstrate creative artworks through digital approach using a variety of media.
3. Manipulate conventional drawing or paintings through digital technology.

**STUDENT
LEARNING
HOURS**

	Guided LHs	Self LHs
Lectures	10	
Tutorial	23	
Practical	5	42
Others	4	
Continuous Assessment	5	20
Final Assessment	2	9
Sub-Total	49	71
Total	120 Hours	

LEARNING UNITS

1. Introduction to Digital Art
2. Application of Principles and Elements of Visual Arts in Digital Technology
3. Digital Editing Software(s) and Hardware(s)
4. Digital Imaging Format
5. Adobe Photoshop as Image Editing Software
6. Digital Drawing and Painting
7. Motion Graphics & GIF Animation Basic Creation
8. Creative Idea in Making Digital Artworks & Portfolio Development

ASSESSMENT

Continuous Assessment	70 %
Final Assessment	30 %
Total	100 %

REFERENCES

1. 3DTotal Publishing., (2018). *The Ultimate Beginner's Guide to Digital Painting in Photoshop: A Comprehensive Introduction to Techniques and Approaches*. USA: 3DTotal Publishing
2. Christiane Paul., (2016). *A Companion to Digital Art*. USA: Wiley-Blackwell
3. Christiane Paul., (2015). *Digital Art (World of Art)* 3rd Edition. USA: Thames and Hudson Ltd
4. Publishing 3dtotal., (2020). *Beginner's Guide to Digital Painting in Photoshop (2nd Edition)*. USA: 3D Total Publishing
5. Xtine Burrough., (2019). *Foundations of Digital Art and Design with Adobe Creative Cloud*. San Francisco, CA: New Rider.



COURSE TITLE **COGNITIVE SCIENCE: CONNECTING MIND AND TECHNOLOGY
(SAINS KOGNITIF: MENGHUBUNG MINDA DAN TEKNOLOGI)**

COURSE CODE **PRL1063**

CREDIT **3**

PREREQUISITE **NONE**

SYNOPSIS The purpose of this course is to introduce the basic cognitive processes and their relationship to technology design. Emphasis is placed on cognition models and their roles in the design and application of technology in real-world settings.

LEARNING OUTCOMES By the end of this course, students will be able to:

1. Explain the basic mechanism of human information processing.
2. Discuss the applications of human cognition and its practice in technology design and computation.

STUDENT LEARNING HOURS		
	Guided LHs	Self LHs
Lectures	18	
Tutorial	16	
Practical	0	66
Others	0	
Continuous Assessment	0	14
Final Assessment	3	3
Sub-Total	37	83
Total	120 Hours	

LEARNING UNITS

1. Foundation of Cognitive Science
2. Brain and Cognition
3. Human Information Processing
4. Perception and Attention
5. Memory types and functions
6. Reasoning and Decision Making
7. Cognition and Human Centred Design
8. Computation and Cognition

ASSESSMENT

Continuous Assessment	50 %
Final Assessment	50 %
Total	100 %

REFERENCES

1. Goldstein, E. B. (2018). *Cognitive psychology: Connecting mind, research, and everyday experience*.
2. Eysenck, M. W., & Keane, M. T. (2020). *Cognitive psychology: A student's handbook*.
3. Friedenberg, J. D., Silverman, G. W., et al. (2021). *Cognitive science: An introduction to the study of mind*.

COURSE TITLE **ENGLISH I**
(BAHASA INGGERIS I)

COURSE CODE **PRP1053**

CREDIT **3**

PREREQUISITE **NONE**

SYNOPSIS This course aims to develop students' skills in listening, speaking, reading and writing in English. Students will be exposed to a range of genres and practise using the language appropriately and accurately. Students will also be given the opportunity to develop and integrate these skills in a variety of educational contexts.

LEARNING OUTCOMES By the end of this course, students will be able to:

1. Interpret text types in understanding their content.
2. Produce texts in the genres covered.
3. Presents viewpoints using appropriate structures and language features.
4. Demonstrate appropriate comprehension strategies in various genres.

**STUDENT
LEARNING
HOURS**

	Guided LHs	Self LHs
Lectures	27	27
Tutorials	12	12
Continuous Assessment	3	24
Final Assessment	2	13
Sub-Total	44	76
Total	120 Hours	

LEARNING UNITS

1. Listening I
 - Listening to monologue
2. Listening II
 - Listening to cues, details, information
3. Writing I
 - Introducing sentence structure
 - Writing simple, compound, and complex sentences
4. Writing II
 - Understanding features of an essay
 - Planning response to a 5-paragraph essay (1+3+1)
 - Developing basic paragraphs of an essay
5. Writing III
 - Introducing purposes of a technical paragraphs
 - Describing facts
 - Defining
 - Classifying
 - Describing the relationship between facts process
 - Understanding features of academic writing
 - Using reporting verbs
 - Using passive sentences
6. Speaking I
 - Presenting speech using appropriate using verbal and non-verbal communication skills
7. Speaking II
 - Expressing and elaborating opinion giving reasons, justifying, inferring, evaluating
8. Reading I
 - Understanding texts of different genres
 - Reading multiple texts for specific factual information
 - Reading for main ideas and supporting details
 - Identifying details and examples to support an argument
 - Predicting outcomes
 - Understanding text organization features
9. Reading II
 - Comparing and evaluating information in different texts
 - Reading for main ideas and supporting details.
 - Identifying cause and effect relationships in a text
 - Reading multiple texts for specific information
 - Comparing and contrasting 2 texts



ASSESSMENT	Continuous Assessment	50 %
	Final Assessment	50 %
	Total	100 %

REFERENCES

1. Choo, W.Y., Yee, S.F., Yeoh, W.T. & Nyanaprakasan, S. (2020). Ace Ahead Muet. Kuala Lumpur: Oxford Fajar.
2. Loughheed, L. (2020). IELTS superpack. Barron.
3. Chazal, E. & McCarter, S. (2012). Oxford EAP upper-intermediate/B2. Oxford University Press.



COURSE TITLE **ENGLISH II**
(BAHASA INGGERIS II)

COURSE CODE **PRP1063**

CREDIT **3**

PREREQUISITE **NONE**

SYNOPSIS This course aims to enhance students' skills in listening, speaking, reading and writing in English. Students will be exposed to a range of text types and practice using the language appropriately and accurately. Students will also be given the opportunity to integrate these skills in a variety of situations.

LEARNING OUTCOMES By the end of this course, students will be able to:

1. Interpret text types in understanding their content.
2. Produce texts in the genres covered.
3. Present viewpoints using appropriate structures and language features.
4. Respond to given topics using creative use of language.

**STUDENT
LEARNING
HOURS**

	Guided LHs	Self LHs
Lectures	23	23
Tutorials	10	10
Continuous Assessment	4	33
Final Assessment	1	16
Sub-Total	38	82
Total	120 Hours	

LEARNING UNITS

1. Group Discussion I
 - Brainstorming ideas
 - Notetaking
 - Responding to opinions
2. Speaking II (Group Discussion)
 - Expressing opinions, justification and evaluation
 - Prompting, negotiating, turn-taking and interrupting
 - Summarising and concluding
3. Writing I
 - Introduction and main points
 - Interpreting, analysing, responding/elaborating points using cohesive devices
4. Writing II
 - Responding to stimulus
 - Organising points, writing responses
5. Reading I
 - Anaphoric Reading
 - Building Contextual understanding (backward reference) –
 - Analyzing text using Barret Taxonomy (Level: analysing the text)
6. Reading II
 - Cataphoric Reading
 - Building contextual understanding (forward references)
 - Analyzing text using Barret Taxonomy (Level: analyze the text)
7. Listening
 - Dialogue/monologue
 - Listening to cues, details, information
 - Identifying main ideas
 - Identifying general and specific information
 - Following extended speech and abstract as well as complex lines of arguments
8. Introduction to Literature I
 - Introduction to literary genres (plays, short stories, educational drama)
 - Elements of a story
 - Introduction to script writing
9. Introduction to Literature I
 - Adapting a story into a play Script Draft 1
 - Planning your story
 - Producing a creative product

ASSESSMENT

Continuous Assessment	70 %
Final Assessment	30 %
Total	100 %

REFERENCES

1. Mays, K. (2018). The Norton introduction to literature. Norton.
2. Loughheed, L. (2020). IELTS superpack. Barron.
3. Chazal, E. & McCarter, S. (2012). Oxford EAP upper-intermediate/B2. Oxford University Press.
4. Koh, A. & Cheok, J.M.L. (2021). MUET my way. Penerbitan Pelangi Sdn. Bhd.

COURSE TITLE **LEADERSHIP AND TEAMWORK**
(KEPIMPINAN DAN KERJA BERPASUKAN)

COURSE CODE **PRP1072**

CREDIT **2**

PREREQUISITE **NONE**

SYNOPSIS This course encourages students to apply aspects of leadership and teamwork skills. The course includes lectures, group activities, and group projects. Students are expected to organise and participate in sports, cultural, or skill-based competitions. Throughout the course, students are exposed to the fundamentals of ethical decision-making and responsible social engagement, which contribute to their holistic development.

LEARNING OUTCOMES By the end of this course, students will be able to:

1. Comply to the social responsibilities and ethical requirement of teamwork.
2. Demonstrate leadership and management skills through event management.
3. Demonstrate self-confidence and competitiveness through sports, cultural, or skill competition.

**STUDENT
LEARNING
HOURS**

	Guided LHs	Self LHs
Lectures	6	12
Discussion	8	12
Continuous Assessment	14	28
Sub-Total	28	52
Total	80 Hours	

LEARNING UNITS

1. Introduction
 - Theories in Leadership and Teamwork
 - Significance of Leadership and Teamwork
 - Leadership and Teamwork in Student's Activity
2. Leadership and Teamwork Dynamics
 - Effective Leadership and Teamwork
 - Teamwork Dynamics and Development
3. Team Management
 - Managing Teams
 - Managing Conflicts
 - Problem Solving Skills
4. Project Planning and Organisation
 - Introduction to Project Planning and Organisation
 - Benefits of Project Planning and Organization
 - Effective Group Decision Making
5. Project Evaluation
 - Importance of Project Evaluation
 - Key Components of Evaluation
 - Assessing Project Quality through Postmortem Exercise

ASSESSMENT

Continuous Assessment

100 %

Total**100 %****REFERENCES**

1. Behavior in organizations / Jerald Greenberg.
2. Brigitte Tasha Hyacinth. (2017). Purpose Driven Leadership: Building and Fostering Effective Teams. Brigitte Hyacinth.
3. West. M. A (2012). Effective Teamwork: Practical Lessons from Organizational Research. New York: John Wiley & Sons Inc.
4. Event Management in Sport, Recreation and Tourism: Theoretical And Practical Dimensions / Edited By Cheryl Mallen And Lorne J. Adams.
5. Mgmt¹¹: Principles of Management / Chuck Williams.

COURSE TITLE **COMMUNICATION SKILLS**
(KEMAHIRAN BERKOMUNIKASI)

COURSE CODE **PRP1082**

CREDIT **2**

PREREQUISITE **NONE**

SYNOPSIS This course emphasizes on the importance of communication skills and effective communication. Various communication elements are also discussed to ensure a holistic understanding of how messages are conveyed in different situations. Etiquette and presentation skills are integrated in this course to ensure student's academic excellence and lifelong learning experience.

LEARNING OUTCOMES By the end of this course, students will be able to:

1. Demonstrate communication skills in various situations.
2. Display teamwork and leadership skills.
3. Practice personal skills effectively.
4. Demonstrate digital skills for communication.

STUDENT LEARNING HOURS		
	Guided LHs	Self LHs
Lectures	11	22
Others	1	2
Continuous Assessment	8	36
Sub-Total	20	60
Total	80 Hours	

LEARNING UNITS

1. Introduction to Communication
 - Definition of communication skill
 - Model of communication
 - Intra and Inter-personal skills
 - Perception and self in communication
2. Etiquette and Manners
 - Social Etiquette
 - Social Media Etiquette
 - Professional Etiquette
3. Verbal and Non-Verbal Communication
 - Principles of verbal messages
 - Principles of non-verbal communication
 - Effective assertion
4. Listening
 - Type of listening
 - Process of listening
 - Effective listening
5. Presentation Skills
 - Principle of visual communication
 - Effective presentation delivery

ASSESSMENT

Continuous Assessment

100 %

Total**100 %****REFERENCES**

1. An Introduction to Communication / Lynn H. Turner, Richard West.
2. The Interpersonal Communication Book / Joseph A. DeVito.
3. Understanding Human Communication / Ronald B. Adler, Santa Barbara City College; George Rodman, Brooklyn College, City University of New York; Athena du Pré, University of West Florida.
4. Nonverbal Remland Communication in Everyday Life / Martin S.
5. Communication and interpersonal skills / Erica Pavord and Elaine Donnelly.

COURSE TITLE **UNIVERSAL VALUES
(NILAI-NILAI SEJAGAT)**

COURSE CODE **PRP1092**

CREDIT **2**

PREREQUISITE **NONE**

SYNOPSIS This course is designed to help students acquire fundamental and universal principles that are essential to succeed in life. Students are exposed to the philosophy behind universal values and the universal ideals promoted by major world faiths. Students have the opportunity to implement universal principles in their community service projects, as well as their engagement in collaborative work.

**LEARNING
OUTCOMES** By the end of this course, students will be able to:

1. Demonstrate social responsibility towards the community and environment through collaborative work
2. Share positive values and attitudes to foster strong commitment and active involvement in activities
3. Practice reflective learning by actively embodying and advocating universal values in activities

**STUDENT
LEARNING
HOURS**

	Guided LHs	Self LHs
Lectures	18	22
Continuous Assessment	20	20
Sub-Total	38	42
Total	80 Hours	

LEARNING UNITS

1. Universal Values, Ethical Values and Moral Values
 - Definition and Example
 - Importance of Universal Values
 - Relationship Between Universal Values, Ethical Values and Moral Values
2. Philosophy In Universal Values
 - Philosophical Foundations
 - Critical Thinking and Ethical Reasoning
 - The Role of Empathy and Compassion
 - Cultural Relativism vs. Universalism
 - Human Rights
3. Universal Values promoted by major world faiths
 - Principles that are considered fundamental to human experience.
 - Common themes and values that are universally emphasized.
 - Current topic and issues
4. Implementation of Universal Values
 - Practicing and promoting the universal values in daily lives, interactions, and decision-making processes
 - Values and Ethics in Social Work
 - Types of social work
 - Universal values, ethical principles, and moral dilemmas in the context of social work practice
 - Local values specifically in Sarawak and Malaysia

ASSESSMENT

Continuous Assessment

100 %

Total**100 %****REFERENCES**

1. Laidlaw, J., Bodenhorn, B., & Holbraad, M. (Eds.). (2018). Recovering the human subject: Freedom, creativity and decision. Cambridge University Press.
2. Pompper, D. (Ed.). (2017). Corporate social responsibility, sustainability, and ethical public relations: Strengthening synergies with human resources. Emerald Publishing Limited.
3. Parsons, R. D., & Dickinson, K. L. (2016). Ethical practice in the human services: From knowing to being. SAGE Publications.
4. Kirst-Ashman, K. K. (2011). Human behavior in the macro social environment: An empowerment approach to understanding communities, organizations, and groups. Brooks/Cole Cengage Learning.
5. Congress, E. P. (2020). Ethics and Values in Social Work: An Integrated Approach for a Comprehensive Curriculum: , by Allan Edward Barsky, 2019, New York, NY, Oxford University Press, 552 pp., \$46 (paperback), ISBN 978-0190678111.

COURSE TITLE **ICT COMPETENCY
(KOMPETENSI ICT)**

COURSE CODE **PRP1102**

CREDIT **2**

PREREQUISITE **NONE**

SYNOPSIS This course is designed to equip students with basic knowledge and skills in Information and Communication Technology (ICT). Topics that will be discussed encompasses computer systems, internetworking, information systems, computational thinking, cybersecurity and multimedia authoring. Students will also be exposed to the latest trends and emerging technologies that relevant to their needs in expanding the use of the latest technology in their lives. This course aims to produce students who are competent not only in the use of ICT but in solving everyday problems in their academic and social life.

**LEARNING
OUTCOMES** By the end of this course, students will be able to:

1. Relate computing key concepts, ideas, and theories relevant to their respective learning environments.
2. Construct ICT-based solution for real-world issue.
3. Utilize ICT tools according to a set of instructions in completing lab works.

**STUDENT
LEARNING
HOURS**

	Guided LHs	Self LHs
Lectures	24	24
Practical	8	8
Continuous Assessment	5	7
Final Assessment	1	3
Sub-Total	38	42
Total	80 Hours	

LEARNING UNITS

1. Emerging Technology
 - Introduction to Generative AI
 - Hands-on Experience with Generative AI Tools
 - Impact of Generative AI tools on Industries and Society
2. Digital Content Creation
 - Strategic digital content planning
 - Utilizing digital content creation tools
 - Digital content production techniques
 - Digital content distribution and analytics
3. App Design and Mock-up Exploration
 - Introduction of application
 - Design And Development Basis
 - Mock-Up Design
4. Data Processing
 - Introduction to Data Processing
 - Basic Data Processing Skills
 - Fundamental Statistical for Data Processing
 - Data Visualization in the Context of Data Processing
 - Ethics in Data Processing
5. Internet Safety
 - Protecting your personal information
 - Recognizing cyber threats, vulnerabilities & safeguards
 - Digital citizenship and ethics

ASSESSMENT

Continuous Assessment	70 %
Final Assessment	30 %
Total	100 %

REFERENCES

1. Generative Deep Learning: Teaching Machines to Paint, Write, Compose, and Play 2nd Edition / David Foster, Karl Friston, O'reilly [2023].
2. Designing User Experience : A guide to HCI, UX and Interaction Design / David Benyon.
3. Valuing Businesses Using Regression Analysis: A Quantitative Approach to the Guideline Company Transaction Method / C. Fred III [2021].
4. Spreadsheets for Librarians: Getting Results with Excel and Google Sheets / Bruce White, [2021].
5. Cyberspace, Cybersecurity, and Cybercrime / Janine Kremling, California State University, San Bernardino, Amanda M. Sharp Parker, Campbell University.

COURSE TITLE INTRODUCTION TO CRITICAL AND CREATIVE THINKING SKILLS
(PENGENALAN KEPADA KEMAHIRAN BERFIKIR KRITIS DAN KREATIF)

COURSE CODE PRP1112

CREDIT 2

PREREQUISITE NONE

SYNOPSIS The course enables students to understand the concept and the thinking model of both critical thinking and creative thinking. Students are exposed to a basic model of critical thinking and creative thinking and a brief TRIZ concept which allows students to widen their critical and creative thinking capabilities. Students are expected to apply both thinking concepts in accomplishing their assignments and projects.

LEARNING OUTCOMES By the end of this course, students will be able to:

1. Distinguish between critical thinking and creative thinking. [C2, PLO1]
2. Apply the right concept of critical thinking and creative thinking to solve a problem and decision making [C3, PLO2]
3. Demonstrate the ability to make a sensible decision for any given task [A3, PLO7]

**STUDENT
LEARNING
HOURS**

	Guided LHs	Self LHs
Lectures	15	16
Tutorials	7	7
Continuous Assessment	2	18
Final Assessment	2	13
Sub-Total	26	54
Total	80 Hours	



LEARNING UNITS

1. Understanding the Critical Thinking
2. The Critical Thinking Process
3. A Critical Thinker's Set Skills
4. The Mind of Innovator
5. The Power of Patterns
6. How Big Ideas Are Built
7. Introduction to TRIZ
8. TRIZ 40 IP and Contradiction

ASSESSMENT

Continuous Assessment	50 %
Final Assessment	50 %
Total	100 %

REFERENCES

1. GTS Learning. (2013). *Critical Thinking: Study Guide*, Student Edition.
2. Cohen, M. (2015). *Critical thinking skills for dummies*. John Wiley & Sons.
3. Gibson, R. (2015). *The four lenses of innovation: A Power Tool for Creative Thinking*. John Wiley & Sons.
4. Thinknetic. (2022). *Critical Thinking & Logic Mastery - 3 Books In 1: How To Make Smarter Decisions, Conquer Logical Fallacies And Sharpen Your Thinking*.
5. Fletcher, A. (2021). *Creative Thinking: A Field Guide to Building Your Strategic Core*.

Bahagian C

ETIKA BERPAKAIAN



PERATURAN BERPAKAIAN PELAJAR

Setiap pelajar adalah tertakluk kepada Peraturan Berpakaian pelajar yang ditetapkan oleh UNIMAS ketika berada didalam kampus.

PAKAIAN PELAJAR LELAKI

- Setiap pelajar hendaklah berpakaian kemas, sopan dan bersesuaian dengan keadaan sepertimana yang ditetapkan oleh pihak Universiti (berseluar panjang dengan berbaju kemeja atau kemeja-T atau berpakaian kebangsaan masing-masing yang sesuai).
- Berambut pendek, kemas dan tidak mencecah kolar baju (Rujuk Akta Universiti dan Kolej Universiti, 1971).
- Memakai pakaian sukan yang sesuai semasa bersukan atau berekreasi.
- Tidak memakai perhiasan perempuan atau pakaian menyerupai perempuan.

CONTOH PAKAIAN PELAJAR LELAKI



PAKAIAN PELAJAR PEREMPUAN

- Setiap pelajar hendaklah berpakaian kemas dan sopan dan bersesuaian dengan keadaan sepertimana yang ditetapkan oleh pihak Universiti (pakaian kebangsaan, biasa atau pakaian etnik masing-masing yang sesuai dan tidak mencolok mata. Pakaian mestilah tidak ketat serta tidak menunjukkan bentuk tubuh badan).
- Memakai skirt yang labuhnya hendaklah di bawah paras lutut.
- Memakai seluar yang bersesuaian dan sopan.
- Memakai alat solek, aksesori dan pewangi secara sederhana.
- Memakai kasut yang sesuai.

CONTOH PAKAIAN PELAJAR PEREMPUAN



TEMPAT PENGUATKUASAAN PERATURAN BERPAKAIAN

- Menghadiri sesi pengajaran dan pembelajaran.
- Berurusan di Fakulti/Institut/Pusat/Bahagian.
- Menghadiri majlis rasmi Universiti di dalam dan di luar Kampus.
- Menduduki peperiksaan.
- Menjalani latihan industri.

CONTOH RAMBUT LELAKI DAN PEREMPUAN



Bahagian D

PERATURAN AKADEMIK

PROGRAM ASASI
&
INTERNATIONAL
FOUNDATION
IN SCIENCE



4.0 Peraturan Akademik Program Asasi dan IFS

4.1 Peruntukan-Peruntukan Am

- 4.1.1 Pelajar Program Asasi/IFS adalah dinasihatkan untuk mengetahui dan memahami sepenuhnya Peraturan Akademik ini. Adalah menjadi tanggungjawab semua pelajar untuk mematuhi segala dasar yang dinyatakan dalam peraturan ini.
- 4.1.2 Tertakluk pada kuasanya sebagai badan akademik tertinggi Universiti, Senat berhak mengubah atau meminda mana-mana peraturan ini dari semasa ke semasa apabila keadaan memerlukan dan peraturan ini akan berkuatkuasa dari tarikh pindaannya yang disahkan oleh Senat.
- 4.1.3 Peraturan Akademik Program Asasi UNIMAS adalah peraturan yang dikuatkuasa dan mesti dipatuhi oleh semua pelajar berdaftar di pusat ini.
- 4.1.4 Dimana ia tidak dinyatakan secara khusus dalam peraturan ini, bidang kuasa yang digunakan dalam pelaksanaan peraturan ini adalah kuasa Senat. Kuasa Pengarah dinyatakan dengan khusus dalam klausa-klausa tertentu peraturan ini.
- 4.1.5 Tertakluk pada Perkara 4.1.1, pengecualian ke atas mana-mana perkara atau bahagian Peraturan Akademik ini adalah kuasa mutlak Senat.

4.2 Takrifan

“Amali” ialah sesi pembelajaran di makmal/studio atau di lapangan bagi sesuatu kursus.

“Pengarah” ialah ketua Pusat yang dilantik oleh Naib Canselor.

“Dewan Peperiksaan” ialah mana-mana tempat/ruang yang digunakan untuk tujuan peperiksaan.

“Gagal Kursus” ialah tidak mencapai gred minimum sesuatu kursus yang ditetapkan oleh Universiti.

“Hukuman Akademik” ialah hukuman yang dikenakan ke atas pelajar oleh Jawatankuasa Tata tertib (Akademik) bagi kesalahan akademik.

“Jam Pembelajaran” ialah jumlah masa pembelajaran yang diperlukan untuk memenuhi keperluan kredit.

“Jawatankuasa Akademik Pusat” ialah Jawatankuasa yang dipengerusikan oleh Pengarah dan dianggotai oleh Timbalan Pengarah, Penyelaras Program, Penyelaras Kursus, wakil pensyarah (mengikut keperluan) serta Penolong Pendaftar sebagai Urusetia. Jawatankuasa ini akan membincangkan isu-isu berkaitan hal ehwal akademik pusat.

“Jawatankuasa Pemeriksa Pusat” ialah Jawatankuasa yang dipengerusikan oleh Pengarah dan dianggotai oleh Timbalan Pengarah, Penyelaras Program, Penyelaras Kursus, wakil pensyarah (mengikut keperluan) serta Penolong Pendaftar sebagai Urusetia untuk memperakukan keputusan penilaian pelajar, membuat pindaan keputusan sekiranya perlu dan menentukan pelajar yang tamat pengajian.

“Jawatankuasa Tetap Senat Pengajian Pra Universiti (JTSPPU)” ialah Jawatankuasa yang dipengerusikan oleh Timbalan Naib Canselor (Akademik dan Antarabangsa). Jawatankuasa ini dianggotai oleh Pengarah PPPU dan empat (4) orang ahli di kalangan Pegawai Universiti yang dilantik oleh Pengerusi serta Penolong Pendaftar sebagai Urusetia untuk membincang dan memperakui dasar dan implementasi program-program akademik yang ditawarkan oleh Pusat; termasuk pengurusan dan pengambilan pelajar, penetapan peraturan/prosedur penawaran program akademik termasuk kriteria bagi memenuhi keperluan penjaminan kualiti dan memperakukan peraturan berkaitan peperiksaan. Jawatankuasa ini juga memperakukan keputusan penilaian/peperiksaan, rayuan, penyenaraian pencapaian pelajar dan membuat ketetapan mengenai apa-apa perkara lain yang berkaitan dengan program pengajian Pra Universiti serta memperakui cadangan penstrukturan semula Pusat Pengajian Pra Universiti atau program Pra Universiti yang lain kepada Senat semua perakuan/ketetapan yang telah dibuat untuk diluluskan.

“Jawatankuasa Rayuan Pelajar” ialah jawatankuasa yang dipengerusikan oleh Pengarah PPPU dan dianggotai oleh Timbalan Pengarah, Penyelaras Program, Penyelaras Kursus dan Penolong Pendaftar sebagai urus setia untuk mempertimbang dan meneliti kes rayuan pelajar bagi meneruskan pengajian setelah mendapat keputusan Gagal dan diberhentikan (GB) bagi sesuatu semester.

“Jawatankuasa Tatatertib Pusat” ialah Jawatankuasa yang membicarakan kes-kes pelajar yang melanggar peraturan akademik dan disiplin.

“Kerja Kursus” ialah pembelajaran yang boleh merangkumi dan tidak terhad kepada projek, laporan amali, tugas, kuiz, dan kerja lapangan bagi sesuatu kursus.

“Peperiksaan Komprehensif” ialah peperiksaan yang merangkumi semua unit pembelajaran dalam sesuatu kursus.

“Kesalahan Akademik” ialah apa-apa pelanggaran terhadap peraturan akademik Pra Universiti, Universiti Malaysia Sarawak.

“Kredit” ialah nilai yang diberi kepada sesuatu kursus untuk melambangkan beban pembelajaran kursus berkenaan.

“Kuliah” ialah kelas pembelajaran sesuatu kursus.

“Kursus” ialah mata pelajaran yang ditawarkan oleh setiap program dan mempunyai kod yang khusus.



“Kursus Generik” ialah kursus sepunya Universiti bertujuan membentuk minda, sikap dan sahsiah pelajar.

“Kursus Teras” ialah kursus yang wajib diambil oleh pelajar bagi sesuatu program.

“Lulus Kursus” ialah pencapaian gred minimum sesuatu kursus yang ditetapkan oleh Universiti.

“Menipu” ialah perbuatan menipu, cubaan menipu atau sebarang tingkah laku yang boleh ditafsirkan sebagai penipuan dalam sesuatu peperiksaan, sama ada secara langsung atau semasa peperiksaan sedang berlangsung.

“Pelajar” ialah seseorang yang telah menyempurnakan pendaftaran pelajar di Universiti.

“Pelajar Aktif” ialah pelajar yang telah menyempurnakan pendaftaran pelajar dan pendaftaran kursus untuk semester berkenaan.

“Pelajar Semasa” ialah pelajar yang telah melalui sekurang-kurangnya satu semester pengajian di Universiti.

“Pelajar Tidak Aktif” ialah pelajar yang tidak menyempurnakan pendaftaran pelajar dan pendaftaran kursus.

“Penangguhan Pengajian” ialah tempoh sementara pelajar dibenarkan untuk tidak mengikuti pengajian.

“Pendaftaran Kursus” adalah proses mendaftar kursus tertentu dalam sesuatu program dalam tempoh yang ditetapkan.

“Pendaftaran Pelajar” adalah proses pelajar mendaftar program dan semester serta menjelaskan semua yuran pengajian dalam tempoh yang ditetapkan.

“Penilaian” ialah suatu mekanisme untuk mengukur pencapaian akademik seseorang pelajar.

“Penilaian Berterusan” ialah penilaian pembelajaran yang dijalankan sepanjang kursus dan merangkumi pelbagai jenis kerja kursus serta peperiksaan akhir.

“Penyelaras Kursus” ialah pegawai akademik yang dilantik oleh Pengarah untuk menyelaras sesuatu kursus.

“Penyelaras Program” ialah pegawai akademik yang dilantik oleh Naib Canselor untuk menyelaras sesuatu program pengajian.

“Peperiksaan” ialah apa-apa cara atau kaedah penilaian yang menyebabkan markah atau gred diberikan bagi sesuatu kursus atau sebahagian daripada kursus tertentu.

“Plagiat” ialah perbuatan menyalin atau mengambil idea, ayat, atau maklumat tanpa memberikan pengiktirafan kepada penulis asal, serta mengakui kandungan tersebut sebagai hasil kerja sendiri.

“PNG” (Purata Nilai Gred) ialah ukuran pencapaian akademik seseorang pelajar dalam sesuatu semester.





"PNGK" (Purata Nilai Gred Kumulatif) ialah ukuran pencapaian akademik seseorang pelajar bagi keseluruhan semester yang telah disempurnakan.

"Program" ialah bidang pengajian peringkat Pra Universiti yang ditawarkan oleh Pusat.

"Pusat" ialah Pusat Pengajian Pra Universiti yang menawarkan program pengajian Pra Universiti di universiti.

"Semester" ialah satu tempoh pengajian (21 minggu) yang ditetapkan oleh Senat untuk aktiviti pengajaran dan pembelajaran.

"Senat" ialah badan akademik tertinggi Universiti yang mengawal dan bertanggungjawab ke atas arahan am mengenai pengajaran, penyelidikan dan peperiksaan dan penetapan serta pengurniaan ijazah, diploma, sijil dan kepujian akademik lain.

"Sesi Akademik" ialah tempoh pengajian bagi dua semester dan dikenal sebagai Tahun Akademik Universiti.

"SPP" (Sistem Pengurusan Pelajar) ialah sistem berkomputer bagi semua pelajar Pra Universiti yang sedang dan telah menuntut di universiti.

"Tawaran Semula" ialah peluang kedua (sekali sahaja dalam satu-satu tempoh pengajian) yang diberikan kepada pelajar untuk memulakan pengajian dalam program yang sama atau berbeza dengan memansuhkan keputusan/rekod akademik yang terdahulu (hanya selepas 1 tahun pengajian).

"TNCAA" ialah singkatan bagi Timbalan Naib Canselor (Akademik & Antarabangsa) iaitu pegawai utama Universiti yang membantu Naib Canselor dalam hal ehwal akademik.

"Tutorial" ialah sesi perbincangan yang diadakan antara pelajar dan tutor/pensyarah/fasilitator.

"Real-time" ini adalah sistem digital yang menyimpan semua maklumat dan data.

"Universiti" ialah Universiti Malaysia Sarawak.

"Yuran" ialah bayaran yang ditetapkan oleh Universiti bagi tujuan tertentu.



4.3 Sesi Akademik

4.3.1 Sesi Akademik Pusat Pengajian Pra Universiti dibahagikan kepada dua semester (21 minggu setiap semester).

4.4 Pendaftaran Pelajar

4.4.1 Pendaftaran Pelajar Baharu

Semua calon pelajar hendaklah mendaftar sebagai pelajar secara yang ditawarkan dalam tempoh masa *online* (e-Daftar) dalam program yang ditetapkan. Tawaran dianggap terbatal jika calon pelajar gagal berbuat demikian tanpa alasan yang boleh diterima oleh Universiti.

4.4.2 Pendaftaran Pelajar Semasa

- i. Pelajar semasa hendaklah mendaftar untuk pengajian setiap semester secara *online* (e-Daftar) pada/sebelum tarikh yang telah ditetapkan oleh Pusat. Pelajar yang gagal menyempurnakan pendaftaran tanpa alasan yang munasabah akan digantung pengajian.
- ii. Pendaftaran lewat hanya dibenarkan sehingga minggu ke-2. Pendaftaran selepas minggu ke-2 hingga ke-3 hanya dibenarkan bagi kes-kes yang dibenarkan oleh Pengarah.
- iii. Pelajar yang tidak mendaftar selepas minggu ke-2 dan seterusnya akan digantung pengajian.
- iv. Pelajar yang menangguh atau digantung pengajian dikehendaki mendaftar semula pada semester berikutnya.

4.4.3 Pendaftaran Kursus

- i. Pendaftaran kursus akan dilakukan oleh pelajar mengikut kursus yang ditetapkan oleh Pusat.
- ii. Kursus yang boleh didaftar hanyalah kursus yang ditawarkan pada semester berkenaan sahaja.
- iii. Pelajar bertanggungjawab sepenuhnya untuk memastikan ketepatan kursus yang didaftarkan pada slip pendaftaran yang telah dicetak oleh Universiti. Sekiranya terdapat kesilapan, pelajar hendaklah melaporkan kepada Pusat sebelum atau pada minggu ke-5 untuk pembetulan.

4.5 Sistem Kredit

- 4.5.1 Setiap kursus mempunyai nilai kredit berdasarkan kepada kriteria yang ditetapkan oleh Senat.
- 4.5.2 Nilai kredit bagi setiap kursus lazimnya berasaskan jam pembelajaran.
- 4.5.3 Kredit untuk satu kursus bermaksud jumlah jam pembelajaran yang perlu diadakan dalam masa satu minggu termasuk kuliah, tutorial, amali dan sebagainya.

4.6 Jumlah Kredit Bagi Program

- 4.6.1 Jumlah kredit bagi program Asasi/IFS ialah masing-masing 50 kredit.

4.7 Tempoh Pengajian

- 4.7.1 Tempoh pengajian bagi Program Asasi/IFS adalah 2 hingga 4 semester.
- 4.7.2 Permohonan untuk melanjutkan tempoh pengajian melebihi 4 semester adalah tertakluk kepada kelulusan Senat.
- 4.7.3 Bagi kes pelajar GB yang diluluskan oleh Senat untuk meneruskan pengajian, tempoh pengajian masih mengambil kira tahun masuk seseorang pelajar.

4.8 Kehadiran dan Pelepasan Sesi Pengajaran dan Pembelajaran

- 4.8.1 Pelajar diwajibkan hadir ke semua sesi pengajaran dan pembelajaran.
- 4.8.2 Pelajar wajib menepati masa ketika menghadiri sesi pengajaran dan pembelajaran.
- 4.8.3 Pelajar yang tidak hadir kerana sakit hendaklah mengemukakan Sijil Cuti Sakit daripada hospital/ klinik kerajaan/ swasta atau mendapatkan kebenaran bertulis daripada Pengarah. Permohonan pelepasan dilakukan secara atas talian <https://mypppu.ia.unimas.my>.
- 4.8.4 Ketidakhadiran pelajar tanpa sebab diklasifikasikan sebagai ponteng dan akan diambil tindakan tatatertib.
- 4.8.5 Pelajar diberi kebenaran meninggalkan sesi pengajaran dan pembelajaran, sekiranya mendapat arahan rasmi atau kebenaran secara bertulis daripada Pengarah.
- 4.8.6 Pelajar boleh dipertimbangkan atas budi bicara pengarah untuk diberikan kebenaran meninggalkan sesi pengajaran dan pembelajaran atas justifikasi yang berikut:
 - a. Diarahkan oleh pihak mahkamah untuk menghadiri perbicaraan;
 - b. Menziarahi keluarga terdekat yang sakit tenat/ meninggal dunia (sijil kematian perlu disertakan);

- c. Wabak penyakit, bencana alam atau kebakaran;
- d. Aktiviti rasmi yang diarahkan oleh Universiti Malaysia Sarawak dan
- e. Sebab-sebab lain yang diluluskan secara bertulis oleh Pengarah atas budi bicara dan keperluan yang munasabah.

4.9 Sistem Penilaian

4.9.1 Penilaian yang digunapakai terdiri daripada dua jenis:-

- i. Penilaian formatif ialah di mana markah peperiksaan tidak diambilkira dalam pemberian gred. Ianya bertujuan untuk mengenalpasti pelajar lemah dan untuk mengesan keberkesanan kaedah pembelajaran secara berterusan. Contoh: Kuiz 1 Biologi.
- ii. Penilaian sumatif ialah di mana markah peperiksaan diambilkira dalam pemberian gred. Contoh: Peperiksaan Akhir.

4.9.2 Kaedah Penilaian

- i. Penilaian kursus dibuat secara berterusan melalui penilaian bertulis, dalam talian, lisan, tugas dan lain-lain bentuk kerja kursus.
- ii. Peperiksaan akhir semester diadakan di penghujung semester.
- iii. Penilaian berterusan membawa markah di antara 50% hingga 60% dan peperiksaan akhir semester 40% hingga 50% (kecuali bagi kursus-kursus Generik). Peperiksaan akhir semester bersifat komprehensif.
- iv. Pelajar akan dihalang daripada menduduki peperiksaan akhir sekiranya kehadiran ke kuliah kurang daripada 90%. Sekiranya didapati masih mengulangi kesalahan yang sama setelah diberi amaran dan kaunseling, pelajar akan dihalang daripada menduduki peperiksaan serta diberi gred F secara automatik. Pelajar perlu menandatangani Borang Aku Janji Kehadiran Pelajar seperti **Lampiran 1**.

4.9.3 Klasifikasi Gred

- i. Penilaian kursus tanpa gred boleh diberi simbol seperti berikut:

L/G (Lulus/Gagal)

Diberikan bagi kursus tertentu yang keputusannya tidak digredkan tetapi hanya catatan Lulus atau Gagal sahaja. Kredit diambil kira untuk tujuan tamat pengajian.

KK (Kes Gangguan Kesihatan)

Diberi kepada pelajar yang terhenti pengajiannya bagi sesuatu semester atas sebab kes gangguan kesihatan berdasarkan laporan perubatan yang diiktiraf oleh Universiti.

TD (Tarik Diri)

Diberi kepada pelajar yang telah diluluskan untuk berhenti secara sukarela daripada meneruskan pengajian di Pra Universiti.

KT (Kursus Tambahan)

Diberi kepada kursus yang diikuti oleh pelajar sebagai tambahan kepada kursus yang diwajibkan. Pelajar mengikuti dan mengambil penilaian bagi kursus berkenaan. Nilai Gred bagi kursus ini akan diambil kira dalam pengiraan PNG dan PNGK tetapi bilangan kredit kursus tambahan tidak diambil kira bagi tamat pengajian. Pendaftaran atau pertukaran status ke Kursus Tambahan hendaklah dilakukan selewat-lewatnya pada minggu ke-2 sesuatu semester.

- ii. Gred dan nilai gred yang diberi bagi sesuatu kursus adalah seperti dalam jadual berikut:

Gred	Julat Markah	Nilai Gred	Taraf pencapaian
			Kursus Teras/ Elektif/ Generik
A	80-100	4.00	Lulus Cemerlang
A-	75-79	3.67	
B+	70-74	3.33	Lulus Kepujian
B	65-69	3.00	
B-	60-64	2.67	Lulus
C+	55-59	2.33	
C	50-54	2.00	
C-	45-49	1.50	
D	40-44	1.00	
F	0-39	0.00	Gagal

4.9.4 Keputusan Penilaian

- i. Pencapaian seseorang pelajar bagi sesuatu semester ditunjukkan dengan Purata Nilai Gred (PNG). Pencapaian keseluruhan pelajar dalam sesuatu program ditunjukkan dengan Purata Nilai Gred Kumulatif (PNGK). Kaedah pengiraan PNG dan PNGK adalah seperti berikut:

Purata Nilai Gred (PNG)

$$\text{PNG} = \frac{\text{Jumlah nilai gred dalam sesuatu semester}}{\text{Jumlah kredit semua kursus untuk semester tersebut}}$$

di mana:

Jumlah Nilai Gred = Nilai Gred x Kredit Kursus

Purata Nilai Gred Kumulatif (PNGK)

$$\text{PNGK} = \frac{\text{Jumlah semua nilai gred yang diperolehi hingga kini}}{\text{Jumlah kredit semua kursus yang diperolehi hingga kini}}$$

Contoh pengiraan PNG dan PNGK adalah seperti di **Lampiran 2**.

- i. Semua gred kursus teras dan generik (Bahasa Inggeris, Kompetensi ICT dan Pengenalan kepada Kemahiran Berfikir Kritis dan Kreatif) akan diambilkira dalam pengiraan PNG dan PNGK.
- ii. Gred dan nilai gred muktamad bagi setiap kursus pada setiap semester yang diperolehi oleh seseorang pelajar akan dicatatkan dalam rekod akademiknya.
- iii. Pelajar yang mendapat PNG 3.75 dan ke atas untuk satu-satu semester dengan mengambil 18 kredit (Kursus teras & kursus teras-elektif sahaja) layak dianugerahkan Sijil Kecemerlangan Asasi.
- iv. Keputusan penilaian setiap semester akan disahkan oleh Jawatankuasa Pemeriksa Pusat dan Jawatankuasa Pengajian Pra Universiti sebelum dikemukakan untuk kelulusan Senat. Keputusan Senat adalah muktamad.
- v. Selepas penilaian semester 2 setiap sesi, purata gred kursus akan dijana berdasarkan gred kursus pada semester 1 dan 2 dan dibahagi dua (bagi tujuan kemasukan ke program Ijazah sahaja).

4.9.5 Peperiksaan Ulangan

- i. Pelajar yang gagal (Gred F) kursus pada semester 1 atau 2 akan menduduki peperiksaan ulangan (PU) yang diadakan pada penghujung setiap semester.
- ii. Pelajar yang mendapat Gred C- dan D pada semester 1 atau 2 juga layak untuk menduduki peperiksaan ulangan (PU) yang akan diadakan pada penghujung setiap semester.
- iii. Pelajar layak menduduki peperiksaan ulangan (PU) selepas keputusan janaan kedua.
- iv. Sebarang keputusan menduduki peperiksaan ulangan mestilah tidak melebihi 18 kredit dan tertakluk kepada kelulusan Pengarah.
- v. Silibus untuk peperiksaan ulangan ialah komprehensif.
- vi. Gred maksimum bagi pelajar yang menduduki peperiksaan ulangan ialah C.

4.9.6 Penangguhan Penilaian

- i. Semua gred kursus teras, elektif dan generik (Bahasa Inggeris, Kompetensi ICT dan Pengenalan kepada Kemahiran Berfikir Kritis dan Kreatif) akan diambilkira dalam pengiraan PNG dan PNGK. Pelajar yang sakit atau menghadapi masalah lain sewaktu penilaian diadakan, boleh memohon kepada Pengarah untuk menangguhkan penilaian. Permohonan tersebut hendaklah dibuat tidak lewat dari **48 jam** selepas penilaian itu diadakan.
- ii. Permohonan untuk menangguhkan penilaian atas sebab kesihatan hendaklah disertakan dengan sijil perubatan daripada Doktor Kerajaan, Pegawai Perubatan Universiti atau Doktor Panel Universiti sahaja. Mana-mana perakuan lain yang bukan Doktor Panel Universiti mestilah diperaku oleh Doktor Panel Universiti. Permohonan atas sebab lain boleh dipertimbangkan atas budi bicara Pengarah.
- iii. Pihak pusat akan mengadakan peperiksaan khas bagi kes-kes yang diluluskan oleh Pengarah dalam tempoh 1 minggu dari tarikh peperiksaan sebenar.

4.9.7 Rayuan Menyemak Semula Keputusan Penilaian Kursus

- i. Rayuan untuk menyemak semula keputusan penilaian sesuatu kursus hendaklah dikemukakan kepada Pengarah Pusat **selepas keputusan sementara** dikeluarkan oleh pihak pusat dengan mengemukakan resit bayaran berjumlah **RM50.00 (caj pengurusan dan tidak akan dikembalikan)** per kursus. Tempoh rayuan menyemak semula keputusan ialah minimum 2 hari dari tarikh keputusan sementara dikeluarkan.
- ii. Keputusan penilaian semula akan disahkan oleh Jawatankuasa Pemeriksa Pusat dan diperakukan dalam JTSPPU sebelum dikemukakan untuk kelulusan Senat.

4.10 Status Akademik Pelajar

4.10.1 Kelayakan Meneruskan Pengajian

Pencapaian akademik pelajar bagi setiap semester adalah berdasarkan PNG dan PNGK seperti di bawah:

Status Akademik Pelajar bagi Setiap Semester (Semester 1 atau 2)

Pencapaian	Taraf	Singkatan
$\text{PNG} \geq 2.00$ Lulus semua kursus teras	Layak meneruskan pengajian	MP
$\text{PNG} \geq 2.00$ Lulus sebilangan kursus teras	Layak meneruskan pengajian	MPK
$1.5 \leq \text{PNG} < 2.0$	Layak meneruskan pengajian dan diberi AMARAN	MPA
$\text{PNG} < 1.5$	Gagal dan diberhentikan	GB

Purata Nilai Gred Kumulatif (PNGK) Semester 1

Pencapaian	Taraf	Singkatan
$\text{PNG} \geq 2.00$ Lulus semua kursus teras	Layak meneruskan pengajian ke Semester 2	MPS2
$\text{PNG} \geq 2.00$ Lulus sebilangan kursus teras	Layak meneruskan pengajian ke Semester 2	MPS2K
$1.5 \leq \text{PNG} < 2.0$	Layak meneruskan pengajian ke Semester 2 dan diberi AMARAN	MPS2A
$\text{PNG} < 1.5$	Gagal dan diberhentikan	GB

Purata Nilai Gred Kumulatif (PNGK) Semester 2

Pencapaian	Taraf	Singkatan
$\text{PNG} \geq 2.00$ Lulus semua kursus teras	Layak untuk kemasukan ke Program Ijazah	TP
$\text{PNG} \geq 2.00$ Lulus sebilangan kursus teras	Lulus mengulang kursus	LMK
$1.5 \leq \text{PNG} < 2.0$	Dibenarkan untuk mengulang program	UP
$\text{PNG} < 1.5$	Gagal dan diberhentikan	GB



4.10.2 Gagal dan Diberhentikan

- i. Mendapat PNGK kurang dari 1.5 pada sesuatu semester; atau
- ii. Gagal meningkatkan PNGK ke paras 2.0 atau lebih setelah mendapat taraf **Layak Meneruskan Pengajian Ke Semester 2 dan diberi AMARAN (MPS2A); atau**
- iii. Gagal meningkatkan PNGK ke paras 2.0 atau lebih setelah mendapat taraf **Gagal dan diberhentikan (GB)** pada semester sebelumnya dan dibenarkan untuk meneruskan semula pengajian; atau
- iv. Mengulang Kursus Teras sebanyak 2 kali tetapi masih gagal.

4.11 Etika Akademik

- 4.11.1 Pelajar yang meniru hasil kerja orang lain atau tidak mengiktiraf orang lain (plagiat) untuk tujuan tugas atau ujian akan diambil tindakan tatatertib.
- 4.11.2 Pelajar juga tidak dibenarkan bersubahat dalam peniruan atau penipuan yang dinyatakan dalam Perkara 4.10.1.
- 4.11.3 Pelajar yang disabit bersalah oleh Jawatankuasa Tatatertib (Akademik) Universiti Malaysia Sarawak boleh dikenakan hukuman berpandukan kepada Akta Universiti dan Kolej Universiti (AUKU) 1971 (Pindaan 2012) di dalam Kaedah-Kaedah Universiti Malaysia Sarawak (Tatatertib Pelajar- Pelajar) 1999.

4.12 Penangguhan Pengajian

- 4.12.1 Pelajar berdaftar boleh memohon untuk menangguhkan pengajian dengan kelulusan Pengarah **sebelum penghujung minggu ke-3** sesuatu semester. Walau bagaimanapun, kelulusan untuk pelajar menangguhkan pengajian adalah terhad kepada **1 kali sahaja** (1 semester) sepanjang tempoh pengajian.
- 4.12.2 Permohonan penangguhan selepas **minggu ke-3** pengajian dalam sesuatu semester tidak akan dipertimbangkan kecuali yang melibatkan kes gangguan kesihatan dan masalah yang terdesak sahaja.
 - i. Seseorang pelajar yang sakit untuk tempoh yang agak lama boleh diberi penangguhan pengajian untuk semester tertentu oleh Pengarah Pusat. Dalam kes seperti ini perakuan daripada doktor perubatan adalah diperlukan. Perakuan yang bukan daripada doktor perubatan boleh dipertimbangkan dalam kes tertentu selepas pelajar berkenaan menjalani rawatan doktor perubatan terlebih dahulu. Dalam kes sakit jiwa, kelulusan untuk mendaftar semula adalah tertakluk kepada perakuan doktor perubatan yang berkenaan.
 - ii. Doktor perubatan yang merawat pelajar berkenaan mestilah terdiri daripada Doktor Kerajaan, Pakar Perubatan Universiti, Doktor Universiti, Doktor Panel Universiti atau doktor lain yang diiktiraf oleh Universiti.

- iii. Seseorang pelajar yang menghadapi masalah selain daripada Perkara 4.11.2(i) boleh juga diberi penangguhan pengajian untuk sesuatu semester tertakluk kepada kelulusan Pengarah Pusat.
- iv. Tempoh penangguhan tidak diambil kira dalam tempoh maksimum pengajian pelajar.
- v. Pelajar yang telah diberi penangguhan pengajian akan hilang tarafnya sebagai pelajar pusat selama tempoh penangguhan tersebut.

4.13 Gantung Pengajian

- 4.13.1 Pelajar yang tidak mendaftar dan tidak memohon penangguhan sebelum berakhir minggu ke-3 akan digantung pengajian pada semester berkenaan. Pelajar mesti mendaftar semula pada kohort yang berikutnya. Sekiranya pelajar gagal mendaftar semula sebelum berakhir minggu ke-3 dan tidak memohon penangguhan pengajian pada kohort berikutnya, pelajar tersebut akan diberhentikan.
- 4.13.2 Tempoh gantung pengajian diambil kira dalam pengiraan tempoh maksimum pengajian pelajar keseluruhannya.

4.14 Rayuan Meneruskan Pengajian

- 4.14.1 Seseorang pelajar yang mendapat keputusan GB bagi sesuatu semester boleh mengemukakan rayuan terhadap keputusan tersebut.
- 4.14.2 Setiap rayuan hendaklah dikemukakan kepada Pengarah Pusat dalam tempoh 1 minggu selepas **JTSPPU memperakukan** keputusan peperiksaan tersebut.

4.15 Menarik Diri Atau Berhenti Tanpa Mudarat

- 4.15.1 Seseorang pelajar boleh menarik diri daripada mengikuti program pengajiannya dengan membuat permohonan bertulis kepada Pengarah.

4.16 Penganugerahan Sijil Asasi

Seseorang pelajar mestilah memenuhi semua syarat berikut untuk dikurniakan sijil asasi:

- 4.16.1 Mendapat PNGK sekurang-kurang 2.00;
- 4.16.2 Lulus semua kursus yang disyaratkan bagi program berkenaan dalam tempoh yang ditetapkan;
- 4.16.3 Mengumpul sekurang-kurang 50 jam kredit atau sejumlah kredit lain yang ditetapkan oleh Senat;
- 4.16.4 Memenuhi semua kehendak Peraturan Akademik Program Asasi;
- 4.16.5 Diperakui oleh Jawatankuasa Pemeriksa Pusat, JTSPPU dan diluluskan oleh Senat;
- 4.16.6 Memenuhi syarat-syarat lain yang telah ditetapkan oleh Senat.

4.17 Cetakan Semula Sijil Asasi

- 4.17.1 Cetakan semula Sijil Kecemerlangan Asasi dikenakan bayaran sebanyak RM5.00. Manakala, cetakan semula Sijil Asasi (salinan) dikenakan bayaran RM100 bagi Bahasa Melayu (BM), RM100 bagi Bahasa Inggeris (BI), dan RM200 bagi sijil dwibahasa.

4.18 Yuran

- 4.18.1 Pelajar dikehendaki membayar yuran pengajian yang telah ditetapkan sepenuhnya setelah menerima invois daripada UNIMAS.
- 4.18.2 Butiran yuran yang perlu dijelaskan oleh pelajar adalah seperti di **Lampiran 3 dan Lampiran 4**.
- 4.18.3 Pelajar yang mengulang kursus dikehendaki membayar yuran per kredit seperti berikut:

Butiran	Saluran Perdana (RM)	Saluran Komersial (Warganegara) (RM)	Saluran Komersial (Bukan Warganegara) (RM)
Pendaftaran	20.00	20.00	70.00
Insurans	-	-	700.00
Yuran berulang	141.00	309.50	525.00
Yuran per Kredit	50.00	250.00	350.00

4.19 Pengembalian Yuran

- 4.19.1 Bagi pelajar yang telah diluluskan menarik diri daripada pengajian tetapi telah membuat pembayaran yuran universiti (Yuran Berulang), yuran tersebut akan dikembalikan tertakluk kepada kadar berikut:

Minggu Perkuliahan	Kadar Dikembalikan
Minggu 1-2	75%
Minggu 3-10	50%
Selepas Minggu 10	0%

- 4.19.2 Pengiraan kadar tuntutan semula yuran pengajian dikira bermula daripada tarikh permohonan diterima daripada pelajar.
- 4.19.3 Bagi pelajar baharu yang diluluskan untuk menarik diri sebelum minggu pertama, yuran universiti kecuali Yuran Tidak Berulang akan dikembalikan.

AKU JANJI KEHADIRAN

Saya No. Kad Pengenalan/No.Passport,
No. Pelajar dengan ini sesungguhnya berjanji bahawa;

1. saya bersetuju akan mematuhi segala peraturan pusat pengajian terutamanya dalam peruntukan berkenaan dengan kehadiran dalam sesi pengajaran dan pembelajaran.
2. saya akan menepati masa ketika menghadiri semua sesi pengajaran dan pembelajaran.
3. saya akan mengemukakan Sijil Cuti Sakit daripada hospital/klinik kerajaan/swasta atau mendapat kebenaran bertulis daripada Pengarah sekiranya saya tidak dapat hadir.
4. saya boleh dikenakan tindakan tatatertib oleh pusat pengajian sekiranya tidak hadir tanpa sebab yang diklasifikasikan sebagai ponteng.
5. saya akur dengan tindakan yang telah ditetapkan dalam Buku Panduan Pelajar dan Peraturan Akademik Pelajar, Pusat Pengajian Pra Universiti, Universiti Malaysia Sarawak dimana saya akan;
 - i. diberi amaran dan kaunseling pada peringkat awal.
 - ii. dihalang daripada menduduki peperiksaan akhir sekiranya kehadiran ke kuliah kurang daripada 90% apabila didapati masih mengulangi kesalahan yang sama serta diberi gred F secara automatik.

.....
Tandatangan

Nama : _____

No. Pelajar : _____

.....
Tandatangan

Nama Saksi: _____

Cop Rasmi : _____

Tarikh : _____

Contoh Pengiraan Purata Nilai Gred (PNG) dan Purata Nilai Gred Kumulatif (PNGK)

1. Pengiraan Purata Nilai Gred (PNG) Semester 1

Kod Kursus	Kredit	Gred	Nilai Gred	Jumlah Nilai Gred
PRP1016	6	B+	3.33	19.98
PRP1036	6	B	3.00	18.00
PRH1016	6	A-	3.67	22.02
PRP1053	3	A-	3.67	11.01
PRP1102	2	A	4.00	8.00
	23			79.01

Purata Nilai Gred (PNG)

$$\begin{aligned}
 \text{PNG} &= \frac{\text{Jumlah nilai gred dalam sesuatu semester}}{\text{Jumlah kredit semua kursus untuk semester tersebut}} \\
 &= \frac{79.01}{23} = 3.44
 \end{aligned}$$

2. Pengiraan Purata Nilai Gred (PNG) Semester 2

Kod Kursus	Kredit	Gred	Nilai Gred	Jumlah Nilai Gred
PRP1026	6	B	3.00	18.00
PRP1046	6	A-	3.67	22.02
PRH1026	6	A	4.00	24.00
PRP1063	3	A-	3.67	11.01
	21			75.03

Purata Nilai Gred (PNG)

$$\begin{aligned}
 \text{PNG} &= \frac{\text{Jumlah nilai gred dalam sesuatu semester}}{\text{Jumlah kredit semua kursus untuk semester tersebut}} \\
 &= \frac{75.03}{21} = 3.57
 \end{aligned}$$

3. Pengiraan Purata Nilai Gred Kumulatif (PNGK)

$$\begin{aligned}
 \text{PNGK} &= \frac{\text{Jumlah semua nilai gred yang diperolehi hingga kini}}{\text{Jumlah kredit semua kursus yang diperolehi hingga kini}} \\
 &= \frac{79.01 + 75.03}{23 + 21} = \underline{\underline{3.50}}
 \end{aligned}$$

**BUTIRAN YURAN UNTUK PROGRAM ASASI SAINS HAYAT, ASASI SAINS FIZIKAL DAN ASASI
PENGKOMPUTERAN**

Butiran Yuran		Semester 1 (RM)	Semester 2 (RM)
1.	Yuran Tidak Berulang (Dibayar sekali sepanjang pengajian)	455.00	0.00
	Pendaftaran : 20.00		
	Kad Matrik : 10.00		
	Pemeriksaan Kesihatan : 50.00		
	Minggu Aluan Pelajar : 219.00		
	Malaysian University English Test (MUET) : 150.00		
	Takaful : 6.00		
	Jumlah 455.00		
2.	Yuran Berulang		
	a. Pengajian	350.00	350.00
	b. Penginapan	360.00	360.00
	c. Kesihatan	25.00	25.00
	d. Makmal	50.00	50.00
	e. Tabung Kebajikan	5.00	5.00
	f. Senggang	25.00	25.00
	g. Pengangkutan	30.00	30.00
Jumlah Yuran (RM)		1,300.00	845.00

**BUTIRAN YURAN UNTUK PROGRAM *INTERNATIONAL FOUNDATION IN SCIENCE (IFS)* DAN
PROGRAM ASASI PENGKOMPUTERAN SALURAN KOMERSIAL**

Butiran Yuran		Semester 1 (RM)	Semester 2 (RM)
1.	Yuran Tidak Berulang (Dibayar sekali sepanjang pengajian)	457.00	0.00
	Pendaftaran : 20.00		
	Kad Matrik : 10.00		
	Pemeriksaan Kesihatan : 50.00		
	Minggu Aluan Pelajar : 219.00		
	<i>Malaysian University English Test (MUET)</i> : 150.00		
	Takaful : 18.00		
	Jumlah 457.00		
2.	Yuran Berulang		
	a. Pengajian	5,475.00	5,475.00
	b. Kesihatan	30.00	30.00
	c. Makmal	100.00	100.00
	d. Tabung Kebajikan	21.50	21.50
	e. Senggang	40.00	40.00
	f. Pelbagai	100.00	100.00
Jumlah Yuran (RM)		6,233.50	5,766.50

UNIMAS GEMILANG

Terciptalah Suatu Sejarah
Wujudmu di Persada Negara
Di Bumi Kenyalang Bertuah
Kebanggaan Nusa dan Bangsa

Berinovasi dan Berwawasan
Berilmu Berpandangan Jauh
Inilah Hasrat dan Harapan
Kamilah Pendukung Warisan

Teguh Terunggul Namamu
UNIMASku yang Gemilang
Dengan Penuh Keikhlasan
Kami Wargamu di Sini
Berbangga

Berbudaya, Bersifat Sezaman
Bersatu Hati Mencurah Bakti
Jasamu, Tiada Bandingan
Kau Disanjung dan Dihormati

Wajahmu Tak Kan Kami Lupakan
Sentiasa Terpahat di Ingatan
Menjadi Lipatan Sejarah
Segar Mekar Dalam Kenangan

Teguh Terunggul Namamu
UNIMASku yang Gemilang
Dengan Penuh Keikhlasan
Kami Wargamu di Sini
Berbangga

UNIMAS Gemilang

Lirik & Lagu: YBhg. Prof. Datu Haji Mohd Fadzil bin Abdul Rahman

SENARAI KELULUSAN DAN PINDAAN

Perkara	Tarikh Kelulusan/ Pindaan
Peraturan Akademik Program Asasi Sains UNIMAS	Senat Bil.05/2010 ke-104 18 Ogos 2010
Status Akademik Pelajar (Penambahan Singkatan Status Akademik) (Perkara 11, m.s 11)	Senat Bil.07/2010 ke-106 3 Disember 2010 (Pindaan 1)
Takrif, Senat (Perkara 2)	Senat Bil.02/2011 ke-109 29 April 2011 (Pindaan 2)
Keputusan Penilaian (Perkara 10.4.2, 10.4.5, 10.4.6)	
Peperiksaan Ulangan (Perkara 10.5.1)	
Rayuan Menyemak Semula Keputusan Penilaian Kursus (Perkara 10.7.2)	
Pengecualian Kredit (Perkara 7)	Senat Bil.05/2011 ke-119 20 September 2012 (Pindaan 3)
Status Akademik Pelajar (Perincian, Status Gagal dan Diberhentikan (GB)) (Perkara 11)	
Penganugerahan Sijil Asasi (Perkara 17)	
Pengecualian Kredit (Perkara 7, No. 3)	Senat Bil.05/2014 ke-133 24 Mei 2014 (Pindaan 4)
Pengecualian Kredit (Perkara 7, No. 1, No. 2, No. 4)	Senat Bil.08/2015 ke-145 23 Oktober 2015 (Pindaan 5)
Status Akademik Pelajar (Perkara 11.1)	
Pengecualian Kredit Pemansuhan Perkara Bil.1 dan Bil. 2 Pertukaran kod kursus PPD1022 kepada PD1032 (Perkara 7.1)	
Status Akademik Pelajar (Tambahkan klausa Lulus Mengulang Kursus) (Perkara 11)	
Takrif (Perkara 2)	
Pindah Kredit (Pindaan Perkara 7, no 3 kepada Perkara 8)	
Rayuan Meneruskan Pengajian (Perkara 15.2)	
	Senat Bil.08/2015 ke-145 23 Oktober 2015 (Pindaan 6)

SENARAI KELULUSAN DAN PINDAAN

Perkara	Tarikh Kelulusan/ Pindaan
Kaedah Penilaian, kemaskini klausa 11.2.4 (Perkara 11.2)	Senat Bil.07/2016 ke-153 24 Ogos 2016 (Pindaan 7)
Bahagian D: Butiran Yuran Untuk Pelajar Asasi Sains Hayat dan Asasi Sains Fizikal (Kemaskini Lampiran 2, muka surat 13)	
Pindah Gred, tambahan klausa 6.3 (Perkara 6)	
Pengecualian Kredit Pemansuhan Perkara 8.1 (Perkara 8)	
Klausa 6 (Pindah Gred) dan 7 (Pindah Kredit) dimansuhkan Perkara 6.1, 6.2, 6.3 & 7.1)	Senat Bil.05/2018 ke-172 19 Julai 2018 (Pindaan 8)
Bahagian B: Program Asasi Sains, berkuatkuasa mulai Sesi 2019/2020 Silibus Kursus (Perkara 2.1 & 2.2 Program Education Objective (PEO) and Program Learning Outcome (PLO), mukasurat 24 - 25)	Senat Bil.05/2019 ke-181 28 Mei 2019 (Pindaan 9)
Bahagian B: Semakan Kurikulum bagi Program Asasi Sains Hayat, berkuatkuasa mulai Sesi 2019/2020 Silibus Kursus (Perkara 2.3 List of Offered Courses, mukasurat 26 – 68)	
Bahagian B: Semakan Kurikulum bagi Program Asasi Sains Fizikal, berkuatkuasa mulai Sesi 2019/2020 (Perkara 2.3 List of Offered Courses, mukasurat 26 – 68)	
Bahagian D: Program Asasi Sains, berkuatkuasa mulai Sesi 2019/2020 Pengembalian Yuran (Perkara 17.1, 17.2 & 17.3, mukasurat 85)	Senat Bil.06/2024 ke-224 25 Julai 2024 (Pindaan 10)
Bahagian D: Semakan Semula Kadar Caj (Perkara 4.4.2, mukasurat 102)	
Bahagian D: Semakan Semula Kadar Caj (Perkara 4.8.7, mukasurat 106)	
Bahagian D: Semakan Semula Kadar Caj (Perkara 4.13, mukasurat 109)	
Bahagian D: Semakan Semula Kadar Caj (Perkara 4.17, mukasurat 109) Cetakan semula sijil kecemerlangan asasi	
Bahagian D: Semakan Semula Kadar Caj (Perkara 4.17, mukasurat 109) Cetakan semula sijil asasi (Salinan)	

SENARAI KELULUSAN DAN PINDAAN

Perkara	Tarikh Kelulusan/ Pindaan
Bahagian B: Semakan Kurikulum bagi Program Asasi Sains Hayat, berkuatkuasa mulai Sesi 2025/2026 Silibus Kursus (Perkara 2.4 List of Offered Courses, mukasurat 29 – 50; 80 – 91)	Senat Bil.08/2024 ke-226 17 Oktober 2024 (Pindaan 11)
Bahagian B: Semakan Kurikulum bagi Program Asasi Sains Fizikal, berkuatkuasa mulai Sesi 2025/2026 (Perkara 2.4 List of Offered Courses, mukasurat 29 – 50; 80 – 91)	
Bahagian B: Semakan Kurikulum bagi Program International Foundation in Science (IFS), berkuatkuasa mulai Sesi 2025/2026 (Perkara 2.4 List of Offered Courses, mukasurat 29 – 50; 80 – 91)	
Bahagian A: (Perkara 1.8.9 Pemilihan ke Program Ijazah Pertama UNIMAS) (Kemaskini Penawaran Program Perubatan secara komersial, muka surat 9)	
Bahagian D: Butiran Yuran Untuk Program International Foundation in Science (IFS) (Perkara 4.16, mukasurat 113)	Senat Bil.10/2024 ke-228 18 Disember 2024 (Pindaan 12)
Bahagian A: (Perkara 1.8.9 Pemilihan ke Program Ijazah Pertama UNIMAS) (Kemaskini Penawaran Program Ijazah Pertama bagi Program Asasi Pengkomputeran, muka surat 10)	Senat Bil.01/2025 ke-229 23 Januari 2025 (Pindaan 13)
Bahagian B: Penambahbaikan Kualiti Berterusan (CQI) bagi Program Asasi Pengkomputeran, berkuatkuasa mulai Sesi 2025/2026, Semester I (Perkara 2.4 List of Offered Courses, mukasurat 51 – 79; 92 – 94)	Senat Bil.04/2025 ke-232 23 Mei 2025 (Pindaan 14)
Bahagian D: (Perkara 4.18 Yuran, mukasurat 113) (Butiran yuran per kredit, muka surat 118)	Senat Bil. 09/2025 ke-237 25 November 2025 (Pindaan 16)
Bahagian B: Penambahbaikan Kualiti Berterusan (CQI) Bagi Kursus Bahasa Inggeris I, berkuatkuasa mulai Sesi 2026/2027, Semester I (Perkara 2.4 List of Offered Courses, mukasurat 83 – 85)	Senat Bil.10/2025 ke-238 17 Disember 2025 (Pindaan 17)
Bahagian D: (Perkara 4.9.5 Peperiksaan Ulangan) (Kemaskini Peperiksaan Ulangan, muka surat 109)	Senat Bil.15/2026 ke-243 30 Jun 2026 (Pindaan 18)
Bahagian A: (Perkara 1.8.9 Pemilihan ke Program Ijazah Pertama UNIMAS) (Kemaskini Penawaran Program Ijazah Pertama bagi Program Asasi Pengkomputeran, muka surat 10)	



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PRE-UNIVERSITY STUDIES

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