



يونيڤرسيتي سلطان زين العابدين
UNISZA
UNIVERSITI SULTAN ZAINAL ABIDIN



FACULTY OF PHARMACY

UNDERGRADUATE STUDENT

GUIDEBOOK

SESSION
2022/2023



pharmacy@unisza

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Disclaimer: The contents of this guidebook are designed for basic and general information which can from time to time, still, be subjected to any changes in any relevant section(s) based on the decision by the management and Senate of UniSZA as well as in accordance to government directives.

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DEAN'S FOREWORD



Salam Perkenalan & A Cordial Welcome!

Congratulations on being accepted into UniSZA to pursue your studies in the Bachelor of Pharmacy (Hons.) programme at our Faculty of Pharmacy. You represent our 4th batch of intake in this prestigious and highly popular professional programme that UniSZA is proud to offer since its inauguration in 2019. Our strongly dedicated academic and administrative team is always ready to facilitate and guide your career dream towards a successful graduation in 4 years' time. Throughout this endeavour, you will be trained by our expert academics utilising specialised pharmacy laboratories and equipment that support your teaching and learning activities. Both conventional and online are hybridised to ease accessibility and enhance learning outcomes. Continuous tutorials and practicals are the common hands-on activities embedded in pharmacy education worldwide. In UniSZA, our pharmacy programme places unique emphasis on the community pharmacy experience to inculcate values that will ultimately benefit the society. To impart experiential learning, attachment and clerkship sessions in the hospital, industry and retail pharmacy are compulsory in your senior years. Nevertheless, you must also participate in non-academic activities in order to complement your academic competency with further talents, creativities, and religious/moral values, in parallel with our Flexible Education with Soul (FlexS) concept. I believe this handbook will provide the necessary information which will serve you well in this meaningful journey into an exciting future prospect.

Wishing you all a great success and a memorable time in UniSZA!

Sincerely,

Prof. Dr. Lua Pei Lin
Dean
Faculty of Pharmacy

COMMITTEE OF UNDERGRADUATE STUDENT GUIDEBOOK

Advisor:

Prof. Dr. Lua Pei Lin

Chairman:

Dr. Zalina bt Zahari

Deputy Chairman:

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Members:

Dr. Syaliza binti Omar

Dr. Mulham Alfatama

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Mr. Ahmad Kamal Ariffin bin Abdul Jamil

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Mdm. Nor Liana binti Che Yaacob

Ms. Habibah binti Kamaruzaman

Secretariat:

Mdm. Munirah binti Abdul Rahman

Mdm. Fairuz binti Zakaria

UNIVERSITI SULTAN ZAINAL ABIDIN AT A GLANCE

Universiti Sultan Zainal Abidin: *The Pride of the People of Terengganu*

Universiti Sultan Zainal Abidin (UniSZA) started as Kolej Ugama Sultan Zainal Abidin (KUSZA) and commenced its operation on 1 January 1980 at Batu Burok before moving to Hajah Wook Building in Pulau Kambing in 1981. KUSZA was upgraded into a full-fledged university known as Universiti Darul Iman Malaysia (UDM) in March 2005.

Upon rebranding, UDM was later re-introduced as Universiti Sultan Zainal Abidin (UniSZA) on 14 May 2010. The name of the late Sultan Zainal Abidin Abidin III Muazzam Shah ibni Almarhum Sultan Ahmad Muazzam Shah II, Sultan The 11th Terengganu is adopted to honour the services of His Majesty in spreading the knowledge and religion in the state of Terengganu. UniSZA currently operates in three separate campuses; namely the Gong Badak Campus (Kuala Nerus) which serves as the main campus, Medical Campus (Kuala Terengganu) and Besut Campus as well as operating a satellite office in Putrajaya.

Vision

Contemporary Integrated Islamic University (CIIU)

Mission

To produce holistic individuals with **Naseem** values through educational excellence and high impact research towards empowering society

Motto

Knowledge for The Benefit of Humanity

Niche

Human civilizational, medicinal accuracy, science technology, management, and techno-entrepreneurship

Core Values (Naseem)

- **Knowledge (Ilmu)**
An action-oriented maverick who conducts research led teaching armed with contemporary knowledge to solve current and relevant issues which lead to commercialization.
- **Faith & Akhlak (Iman & Akhlak)**
A visionary and value-oriented person of high moral standing.
- **Deeds (Amal)**
An accountable and transparent individual who cares and contributes to society.
- **Leadership (Qiyaadah)**
A dynamic pragmatic leader who is bold enough to make a difference and manages from the heart.
- **Collaboration (Ta'awun)**
A team player with excellent communication and global networking skills.
- **Entrepreneurship (Tijaarah)**
A persistent and successful entrepreneur.
- **Transformation (Taghyir)**
An individual who embraces culture and is armed with a transformational mindset leading to autonomy and financial independence.
- **Innovation (Ibtikaar)**
An individual who embraces creative thinking, leveraging on digital and disruptive technology.

Board of Directors



Chairman

Tan Sri Dr. Abdullah bin Md. Zin



Board Member

Prof. Dr. Fadzli bin Adam
(Vice Chancellor)



Board Member

Dato' Dr. Haji Megat Sany
bin Megat Ahmad Supian



Board Member

Mdm. Roslinda binti Ulang



Board Member

Prof. Dr. Abdul Hakim bin Abdullah



Board Member

Tengku Seri Bijaya Raja
Datuk Tengku Farok Hussin
bin Tengku Abdul Jalil



Board Member

Dato' Seri Mohamed Azahari
bin Mohamed Kamel



Board Member

Dato' Yusoff bin Muhamad



Board Member

Mr. Ali bin Yusoff



Board Member

Dr. Azmi bin Omar



Board Member

Senator Dato' Haji Husain
bin Awang



Secretary

Mr. Ismail bin Musa

Management



Vice Chancellor
Prof. Dr. Fadzli bin Adam



**Deputy Vice Chancellor
(Student & Alumni Affairs)**
Dato' Prof. Madya Ts.
Dr. Mohd Hafiz bin Yusoff



**Deputy Vice Chancellor
(Academic & International)**
Prof. Dr. Zuhairah Ariff
binti Abd Ghadas



**Deputy Vice Chancellor
(Research & Innovation)**
Prof. Ts. Dr. Shukor
bin Abd Razak



Bursary
Mdm. Shakimah binti Endut



Registrar
Mr. Ismail bin Musa



Legal Advisor
Mr. Mohd Fuad bin Husaini



Director Besut Campus
Prof. Dr. Mohd Nordin
bin Abdul Rahman



**Director Corporate
Communications and
Relationship Management
Centre**
Mr. Muzafar bin Mohd Din

GENERAL INFORMATION OF THE FACULTY

Faculty Background

The Faculty of Pharmacy Universiti Sultan Zainal Abidin (UniSZA) was approved by the Ministry of Higher Education on 19 September 2016. The faculty begins operating in UniSZA Besut Campus in April 2017. The development of the faculty is hoped to contribute to the role of UniSZA to provide health-based education in Malaysia and particularly in the East Coast of Peninsular Malaysia. Currently, the faculty offers a Bachelor of Pharmacy (Honours) programme which emphasises community pharmacy practice.

The curriculum used by the faculty is based on the guidelines from Pharmacy Board Malaysia. The curriculum is designed to produce graduates with a strong pharmaceutical and clinical background as well as a high interest in pharmacy entrepreneurship.

It is expected that the faculty will create more health professionals, not only for the Bachelor of Pharmacy programme but also in postgraduate programmes. The graduates are envisaged to contribute to the well-being of the community and Malaysia's economy.

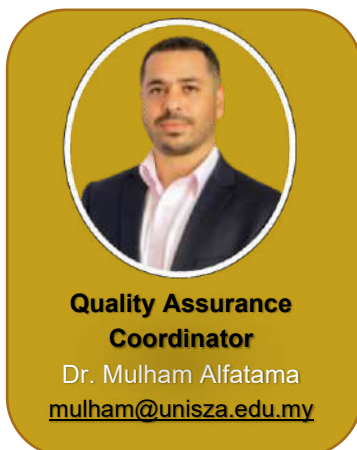
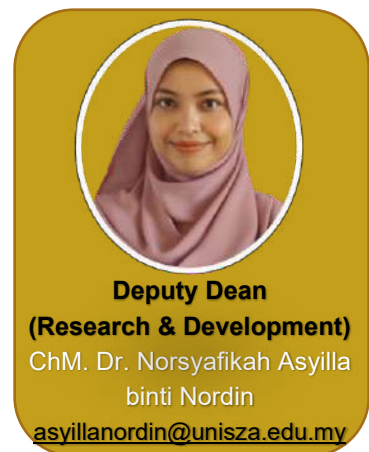
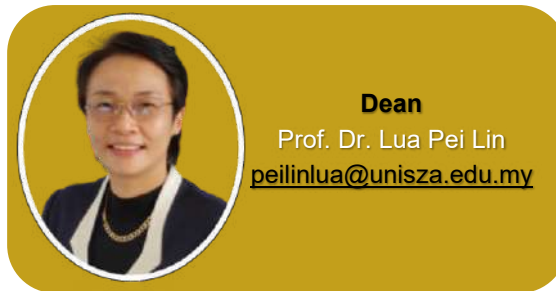
Vision

To be a faculty which is innovative and sustainable in teaching, learning and research in pharmacy and pharmaceutical sciences founded on competency, commitment, and professionalism.

Mission

Integrating human civilisation and technology management in contemporary pharmacy and pharmaceutical science-based programs to produce health professionals who are ethical and community-friendly.

Faculty Management



Academic Staff



Prof. Dr. Lua Pei Lin
(Pharmacy Practice)



Dr. Nurulumi binti Ahmad
(Clinical Pharmacy)



Dr. Zalina bt Zahari
(Pharmacology & Toxicology)



ChM. Dr. Norsyafikah Asyilla binti Nordin
(Pharmaceutical Chemistry)



Dr. Mulham Alfatama
(Pharmaceutical Technology)



Mdm. Aslinda binti Jamil
(Clinical Pharmacy)



Assoc. Prof. Dr. Shazia Jamshed
(Pharmacy Practice)



Dr. Syaliza binti Omar
(Pharmaceutical Chemistry)



Dr. Che Ku Dahlan bin Che Ku Daud
(Basic Health Sciences)



Mdm. Nor Liana binti Che Yaacob
(Pharmacy Practice)



Mr. Ahmad Kamal Ariffin bin Abdul Jamil
(Clinical Pharmacy)



Ms. Habibah binti Kamaruzaman
(Basic Health Sciences)

Administrative Staff



Mdm. Munirah binti Ab Rahman
Assistant Registrar



Mdm. Fairuz binti Zakaria
Administrative Officer Assistant



Ms. Nurul Adibah binti Harmi
Administrative Assistant



Mr. Mohd Sukri bin Chik @ Ismail
Administrative Assistant



Mr. Abdul Shukur bin Yahya
Operation Assistant

PROGRAMME INFORMATION

Bachelor of Pharmacy (Honours)

The programme is designed to produce graduates with a strong pharmaceutical and clinical background as well as a high interest in pharmacy entrepreneurship. With the current job saturation of pharmacists in the public sector, future graduates can no longer expect to easily find jobs waiting for them in government hospitals. Therefore, other scopes of pharmacy careers need to be explored to instil a culture of 'job creators' among them.

Exposure to community pharmacy practice in the program is in the form of regular retail pharmacy attachments. With this exposure to pharmacy practice in the community setting, students will be able to identify and establish their roles and functions in the community.

Students shall obtain their clinical experience during the clinical years. They shall have sufficient experience working with and handling drug-related issues with customers/patients, and they bring these experiences into their third-year clinical and hospital clerkships.

Programme Objectives

The aims of the programme are:

- i. To provide a foundation for the purpose of planning and facilitating activities regarding administration, management and handling of academic programmes relating to pharmacy and pharmaceutical sciences.
- ii. To provide cutting-edge facilities to support the development and expansion of the main professional programme, that is, the Bachelor of Pharmacy programme.
- iii. To serve as a centre for the planning, development and expansion of quality multi-disciplinary post-graduate programmes relating to pharmacy and pharmaceutical sciences to meet the national and international needs.
- iv. To explore and establish research activities, publications, and consultation in pharmacy and pharmaceutical sciences that will lead to the establishment of centres of excellence that will become reputable centres of reference.
- v. To lead the provision of community services towards increasing the quality of health care through continuous health education, and rational drug use.

Programme Educational Outcomes (PEO)

1. Knowledgeable, and technically and clinically competent in any branch of pharmacy in line with the government and industry requirements.
2. Effective in communication and demonstrate good leadership quality in an organization.
3. Capable to solve pharmacy-related problems scientifically, creatively and ethically through a sustainable approach.
4. Able to recognise the need for life-long learning in pharmacy for successful career advancement and to demonstrate entrepreneurship skills.

Programme Learning Outcome (PLO)

At the end of the Bachelor of Pharmacy (Honours) programme, the students will be able to:

- PLO1 : Acquire and apply knowledge of pharmaceutical sciences, pharmacy practice and clinical pharmacy in the practice of pharmacy.
- PLO2 : Demonstrate comprehensive pharmaceutical and clinical expertise in the practice of pharmacy.
- PLO3 : Assume versatile social skills and caring responsibility to facilitate community-focused healthcare.
- PLO4 : Exhibit outstanding values, attitude and professionalism which are in line with the pharmacist's code of ethics and professional conduct, as well as existing legislation.
- PLO5 : Communicate effectively and capable of leading team-networking with peers, other healthcare professionals and the community.
- PLO6 : Identify, formulate, and provide an evidence-based, creative and effective solution to pharmacy-related problems.
- PLO7 : Recognize the need for and to engage in life-long learning, professional development and research by utilising ICT and information management.
- PLO8 : Explore current and innovative pharmacy-related management and entrepreneurial skills towards future career advancement.

Duration of the Programme

Study Mode	Minimum	Maximum
Full time	8 semesters (4 years)	10 semesters (5 years)

Entry Requirements

STPM	MATRICULATION / FOUNDATION	DIPLOMA
1. Passed with at least CGPA of 3.50 at STPM level AND 2. Obtained at least Grade B at STPM level for the following subjects: ➤ Biology ➤ Chemistry ➤ Physics / Mathematics (T) / Mathematics (M) AND 3. Obtained at least Grade B at SPM level for the following subjects: ➤ Biology ➤ Chemistry ➤ Physics ➤ Mathematics / Additional Mathematics ➤ ONE (1) other subject NOT INCLUDING Bahasa Melayu AND 4. Obtained at least Grade C at SPM level for Bahasa Melayu and English subjects AND 5. Passed MUET with at least BAND 3 AND 6. No physical disabilities and impairment in speech, hearing and vision	1. Passed with at least CGPA of 3.50 at Matriculation / Foundation level AND 2. Obtained at least Grade B at Matriculation / Foundation level for the following subjects: ➤ Biology ➤ Chemistry ➤ Physics / Mathematics AND 3. Obtained at least Grade B at SPM level for the following subjects: ➤ Biology ➤ Chemistry ➤ Physics ➤ Mathematics / Additional Mathematics ➤ ONE (1) other subject NOT INCLUDING Bahasa Melayu AND 4. Obtained at least Grade C at SPM level for Bahasa Melayu and English subjects AND 5. Passed MUET with at least BAND 3 AND 6. No physical disabilities and impairment in speech, hearing and vision	1. Passed with at least CGPA of 3.50 in Diploma of Pharmacy OR Passed with at least CGPA of 3.75 in Diploma of Science (Chemistry / Biology / Physics) AND 2. Obtained at least Grade B at Diploma level for the following subjects: ➤ Biology ➤ Chemistry ➤ Physics / Mathematics AND 3. Obtained at least Grade B at SPM level for the following subjects: ➤ Biology ➤ Chemistry ➤ Physics ➤ Mathematics / Additional Mathematics ➤ ONE (1) other subject NOT INCLUDING Bahasa Melayu AND 4. Obtained at least Grade C at SPM level for Bahasa Melayu and English subjects AND 5. Passed MUET with at least BAND 3 AND 6. No physical disabilities and impairment in speech, hearing and vision

Curriculum Structure

Bachelor of Pharmacy (Honours) programme is a full-time programme that shall be completed in a **minimum of 8 semesters and not more than 10 semesters**. Total credit hours throughout the programme are **142 hours** consisting of core, elective and university courses. The courses offered by the faculty are comprised of six disciplines including Pharmaceutical Chemistry, Pharmaceutical Technology, Basic Health Sciences, Pharmacology and Toxicology, Clinical Pharmacy and Pharmacy Practice.

Programme Structure

Category	Course Name	Credit Hours
University Courses	University General Courses	13
	English Language Courses	4
	Foreign Language Elective Courses	2
Core Courses	Faculty Core Courses	115
Elective Courses	Faculty Elective Courses	6
	Other Faculty Elective Courses	2
TOTAL		142

Course Structure

Year 1 (2022/2023), Semester 1

Category	Course Code	Course Name	Credit Hours
University Courses	MPU 31072	Penghayatan Etika dan Peradaban (Appreciation of Ethics and Civilisations)	2
	MPU 33012 / MPU 33022	Ilmu Wahyu & Sains (Revealed & Sciences Knowledge) / Moral Dan Etika II (Moral & Ethics II)	2
	PBI 10102	English for Communication I	2
Core Courses	PHM 10103	Organic and Inorganic Chemistry	3
	PHM 10202	Biochemistry	2
	PHM 10303	General and Peripheral Nervous System Pharmacology	3
	PHM 10402	Human Anatomy and Physiology I	2
	PHM 10502	Fundamentals of Pharmacy Practice	2
TOTAL			18

Year 1 (2022/2023), Semester 2

Category	Course Code	Course Name	Credit Hours
University Courses	MPU 31062	Falsafah dan Isu Semasa (Philosophy and Current Issues)	2
	MPU 32092	Asas Pembudayaan Keusahawanan (Foundation of Entrepreneurship)	2
	MPU 33032 / MPU 33042	Ilmu Wahyu dan Kemasyarakatan (Revealed & Social Sciences Knowledge) / Perbandingan Agama II (Comparative Studies of Religion II)	2
	ASING1	Kursus Bahasa Asing 1	2
	KOKO	Kursus Kokurikulum	3
	PBI 10202	English for Communication II	2
Core Courses	PHM 10703	Medicinal Chemistry	3
	PHM 10802	Physical Pharmacy	2
	PHM 10902	Human Anatomy and Physiology II	2
TOTAL			20

Year 2 (2023/2024), Semester 1

Category	Course Code	Course Name	Credit Hours
Core Courses	PHM 10602	Pharmaceutical Microbiology & Sterile Preparations	2
	PHM 11002	Pharmacoinformatics	2
	PHM 20103	Dosage Form Design I (Liquid & Semi-Liquid)	3
	PHM 20202	Pharmacology of GIT & Hepatobiliary System	2
	PHM 20302	Phytochemistry	2
	PHM 20403	Pharmaceutical Biotechnology & Immunology	3
Elective Courses	PHM 20502 / PHM20602	Personal Care Products and Medical Devices / Veterinary Pharmacy	2
	KELF1	Other Faculty Elective Courses	2
TOTAL			18

Year 2 (2023/2024), Semester 2

Category	Course Code	Course Name	Credit Hours
Core Courses	PHM 20703	Pharmaceutical Analysis	3
	PHM 20803	Pharmacognosy	3
	PHM 20903	Dosage Form Design II (Solid Pharmaceuticals)	3
	PHM 21003	Cardiovascular, Renal and Respiratory Pharmacotherapeutics	3
	PHM 21102	Central Nervous System Pharmacotherapeutics	2
	PHM 21202	Pharmacy Management	2
	PHM 21302	Biopharmaceutics and Pharmacokinetics	2
TOTAL			18

Year 3 (2024/2025), Semester 1

Category	Course Code	Course Name	Credit Hours
Core Courses	PHM 30103	Research Methodology	3
	PHM 30202	Biostatistics	2
	PHM 30303	Formulation, Characterisation and Packaging	3
	PHM 30402	Pharmacy Law and Ethics	2
	PHM 30502	Manufacturing Pharmacy	2
	PHM 30602	Pharmacy Entrepreneurship	2
	PHM 30703	Endocrine, Reproductive & Genito-Urinary System Pharmacotherapeutics	3
Elective Courses	PHM 30802 / PHM 30902	Substance Use & Abuse / Business Studies for Pharmacists	2
TOTAL			19

Year 3 (2024/2025), Semester 2

Category	Course Code	Course Name	Credit Hours
Core Courses	PHM 31002	Chemometrics for Pharmaceutical Applications	2
	PHM 31103	Antimicrobial & Cytotoxic Pharmaceuticals	3
	PHM 31204	Therapeutics I (Cardiovascular & Gastrointestinal Disorder)	4
	PHM 31303	Public Health Pharmacy	3
	PHM 31405	Pharmacy Research	5
	PHM 31503	Hospital Pharmacy Practice	3
TOTAL			20

Year 4 (2025/2026), Semester 1

Category	Course Code	Course Name	Credit Hours
Core Courses	PHM 40103	Therapeutics II (Endocrinological, Genitourinary Tract Disorders)	3
	PHM 40203	Clinical Pharmacokinetics and Pharmacogenomics	3
	PHM 40303	Therapeutics III (Neurology, Psychiatry, Dermatology & Pain)	3
	PHM 40402	Medication Review and Counselling	2
Elective Courses	PHM 40502 / PHM 40602	Health Behaviour & Health Education / Smoking Cessation Certification Programme	2
TOTAL			13

Year 4 (2025/2026), Semester 2

Category	Course Code	Course Name	Credit Hours
Core Courses	PHM 40704	Therapeutics IV (Infectious Disease, Oncology & Respiratory Diseases)	4
	PHM 40802	Toxicology	2
	PHM 40902	Manufacturing Pharmacy Clerkship	2
	PHM 41006	Community Pharmacy Clerkship	6
	PHM 41102	Traditional and Complementary Medicine	2
TOTAL			16

Faculty Core Courses

NO.	COURSE CODE	COURSE NAME	CREDIT HOURS
1.	PHM 10103	Organic and Inorganic Chemistry	3
2.	PHM 10202	Biochemistry	2
3.	PHM 10303	General and Peripheral Nervous System Pharmacology	3
4.	PHM 10402	Human Anatomy and Physiology I	2
5.	PHM 10502	Fundamentals of Pharmacy Practice	2
6.	PHM 10602	Pharmaceutical Microbiology & Sterile Preparations	2
7.	PHM 10703	Medicinal Chemistry	3
8.	PHM 10802	Physical Pharmacy	2
9.	PHM 10902	Human Anatomy and Physiology II	2
10.	PHM 11002	Pharmacoinformatics	2
11.	PHM 20103	Dosage Form Design I (Liquid & Semi-Liquid)	3
12.	PHM 20202	Pharmacology of GIT & Hepatobiliary System	2
13.	PHM 20302	Phytochemistry	2
14.	PHM 20403	Pharmaceutical Biotechnology & Immunology	3
15.	PHM 20703	Pharmaceutical Analysis	3
16.	PHM 20803	Pharmacognosy	3
17.	PHM 20903	Dosage Form Design II (Solid Pharmaceuticals)	3

18.	PHM 21003	Cardiovascular, Renal and Respiratory Pharmacotherapeutics	3
19.	PHM 21102	Central Nervous System Pharmacotherapeutics	2
20.	PHM 21202	Pharmacy Management	2
21.	PHM 21302	Biopharmaceutics and Pharmacokinetics	2
22.	PHM 30103	Research Methodology	3
23.	PHM 30202	Biostatistics	2
24.	PHM 30303	Formulation, Characterisation and Packaging	3
25.	PHM 30402	Pharmacy Law and Ethics	2
26.	PHM 30502	Manufacturing Pharmacy	2
27.	PHM 30602	Pharmacy Entrepreneurship	2
28.	PHM 30703	Endocrine, Reproductive & Genito-Urinary System Pharmacotherapeutics	3
29.	PHM 31002	Chemometrics for Pharmaceutical Applications	2
30.	PHM 31103	Antimicrobial & Cytotoxic Pharmaceuticals	3
31.	PHM 31204	Therapeutics I (Cardiovascular & Gastrointestinal Disorder)	4
32.	PHM 31303	Public Health Pharmacy	3
33.	PHM 31405	Pharmacy Research	5
34.	PHM 31503	Hospital Pharmacy Practice	3
35.	PHM 40103	Therapeutics II (Endocrinological, Genitourinary Disorders)	3
36.	PHM 40203	Clinical Pharmacokinetics and Pharmacogenomics	3
37.	PHM 40303	Therapeutics III (Neurology, Psychiatry, Dermatology & Pain)	3
38.	PHM 40402	Medication Review and Counselling	2
39.	PHM 40704	Therapeutics IV (Infectious Disease, Oncology & Respiratory Diseases)	4
40.	PHM 40802	Toxicology	2
41.	PHM 40902	Manufacturing Pharmacy Clerkship	2
42.	PHM 41006	Community Pharmacy Clerkship	6
43.	PHM 41102	Traditional and Complementary Medicine	2
TOTAL CREDIT HOURS			115

Faculty Elective Courses

NO.	COURSE CODE	COURSE NAME	CREDIT HOURS
1.	PHM 20502	Personal Care Products and Medical Devices	2
2.	PHM 20602	Veterinary Pharmacy	
3.	PHM 30802	Substance Use & Abuse	2
4.	PHM 30902	Business Studies for Pharmacists	
5.	PHM 40502	Health Behaviour & Health Education	2
6.	PHM 40602	Smoking Cessation Certification Programme	
TOTAL CREDIT HOURS			6

Students are required to choose **ONLY THREE** faculty elective courses offered during respective semesters.

Faculty Core and Elective Courses Synopsis

Course Code	Course Name	Credit Hours
PHM 10103	Organic and Inorganic Chemistry	3
	This course is designed to introduce students to analytical organic and inorganic chemistry. It outlines the reactions, some techniques such as analysis and uses of molecules containing one functional group such as alcohols, aldehydes, ketones, carboxylic acids, amines in both aliphatic and aromatic. The course includes compulsory laboratory experiments, and the student will be guided to conduct experiments that cover techniques, methods, observations and data collections.	
PHM 10202	Biochemistry	2
	This course discusses the major components and characteristics of biochemical processes occurring in the living system. The topics discussed include; physicochemical properties and functions of carbohydrates, proteins, lipids and nucleic acids; enzymology including enzyme kinetics, mechanism of reaction and factors that influence enzyme activity; bioenergetics, integration and control of metabolism of carbohydrates, protein, lipids and nucleic acids; the role of nucleic acids in genetics and reproduction; biochemical nature of membranes, hormones and their functions.	
PHM 10303	General and Peripheral Nervous System Pharmacology	3
	This module is to provide students with a basic understanding of receptors in drug action, the mechanisms of drug action and the disposition of drugs by the body. The module also provides basic information on drug interactions, toxicity and process of drug development. This module also introduces the anatomy, physiology and pathophysiology of the peripheral nervous system. In addition, this module provides the students with knowledge of drugs that affect the autonomic nervous system, their clinical uses and side effects.	
PHM 10402	Human Anatomy and Physiology I	2
	This course is designed to provide an introduction to integrative human systems physiology as a basis for the study of systematic pharmacology and therapeutics.	
PHM 10502	Fundamentals of Pharmacy Practice	2
	Besides tapping on the historical aspects of pharmacy practice, this course provides primary knowledge required for pharmacy-oriented settings. Students are initially exposed to pharmacy/medical terminologies as well as the related abbreviations. Fundamentals of preparing, compounding, formulating and dispensing medication are introduced. Basic issues concerning pharmaceutical calculations, prescription reading, analysis, labelling and law requirements are exposed in relation to the various pharmaceutical dosage forms, routes of administration and over-the-counter drugs. The pharmacist's roles and responsibilities as a	

professional healthcare provider in hospital, industry and community healthcare system framework are importantly discussed. In addition, current and recent topics e.g. pharmacogenomics, technological automation, pharmacy practice specialisation, health empowerment are incorporated.

PHM 10602	Pharmaceutical Microbiology & Sterile Preparations	2
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This course covers topics such as bacterial structure which includes the size and morphology of bacteria, external structures involved with movement of cells and attachment and even the formation of endospores. This course also introduces basic microbiological techniques such as microscopic observation techniques, staining, isolation, culture, maintenance and storage of pure cultures and even enumeration of bacteria. Students will also be introduced to topics such as bacterial growth, microbial nutrition and metabolism, bacterial genetics and classification of microorganisms. The principles of infection and host-pathogen relationship will also be covered. Finally, students will also be taught on fungi, viruses and parasites on the aspects of structure, classification and clinical significance. For aseptic techniques, a student will be learned how to prepare, label, compound, and produce sterile preparations. Describe the basic principles of sterilization, methods used, and preservation and its application and apply tests that are relevant to sterile products.

PHM 10703	Medicinal Chemistry	3
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This course begins with brief coverage of the basic principles of Medicinal Chemistry and moves on to deal with chemical nomenclature, synthesis, mechanisms of action, brand names, uses and side effects of the following classes of drugs: autonomic drugs, cardiovascular drugs, hormonal agents, prostaglandins and eicosanoids etc. The other aspects covered are the drug's target, the principle of drug action, interaction among drugs as well as the concept behind drug discovery and development. Here, the students will be exposed to concepts such as rational drug design, structure-activity relationships, combinatorial chemistry and computer-aided drug design.

PHM 10802	Physical Pharmacy	2
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Topics discussed are the states of matter and physicochemical properties of each state and the clinical implications, drug solubility and distribution phenomenon, diffusion, dissolution, colligative properties, ideal and real solutions, buffered and isotonic solutions, drug ionization, complexation and interfacial phenomena at liquids and solid surfaces. This course also covers polymers, pharmaceutical suspensions, pharmaceutical emulsions, colloids, surfactants and rheology of liquids. The students will be exposed to the terms, definitions, concepts, theories, principles and applications of the above topics.

PHM 10902	Human Anatomy and Physiology II	2
This course is designed to provide an introduction to integrative human systems physiology as a basis for the study of systematic pharmacology and therapeutics.		
PHM 11002	Pharmacoinformatics	2
The course introduces students to expert and knowledge-based systems, artificial intelligence, online pharmacy and medical databases, computerised patient records, healthcare information systems, molecular modelling and computer-aided drug discovery and design, and bioinformatics. Information technology applications such as telehealth, telemedicine, and robotics and automation in pharmacy are explained, including their implications on law and ethics of healthcare and business-related issues. Students will also be exposed to relevant skills in working with common operating systems through laboratory practicals – usage of MS Office applications such as Word, Excel and Access in the context of professional communication, pharmacy and medical data management, and webpage development (HTML, JavaScript). Pharmacological and medical information using search engines and online databases, such as drug information databases, and online library catalogues are also emphasised besides being acquainted with molecular modelling software used in drug discovery and design and molecular biology databases. The integral part of the course is the development of web pages.		
PHM 20103	Dosage Form Design I (Liquid & Semi-Liquid)	3
This course covers the principles relating to the various non-sterile pharmaceutical, dosage forms, understanding and interpretation of prescription and Latin abbreviations. The aim is to impart a detailed knowledge of the design, processing and manufacture of liquid and semi-solid pharmaceutical dosage forms and the associated technology. The importance concerning pharmaceutical calculations, method of preparation, dispensing procedures, prescription labelling, packaging of preparations and preservation are also emphasised.		
PHM 20202	Pharmacology of GIT & Hepatobiliary System	2
The aim of this module is to develop knowledge of pathophysiology, pharmacology and clinical therapeutics relevant to gastrointestinal and hepatobiliary disorders.		
PHM 20302	Phytochemistry	2
The course aims to provide students with the necessary skills for separation of the active constituents obtained from natural sources in addition to the different methods of separation (chromatography) and then identify these active ingredients either in pure form of a mixture- as well as the different methods to evaluate these components and how to deal with the side effects of some components (if any) and how to overcome and solve problems as well as how to deal with poisoning and abuse substances.		

PHM 20403	Pharmaceutical Biotechnology & Immunology	3
This course provides a basic knowledge of the immune response and its involvement in health and disease. It also explores the basic concepts of biotechnology, examines the common tools and techniques of biotechnology and immunology, and learn how to incorporate biotechnology and immunology into the classroom to increase student's awareness of the industry and career opportunities.		
PHM 20502	Personal Care Products and Medical Devices	2
This course introduces the students to the selection, importance of various products pertaining to medical devices, wound and skincare, haircare, colours make-up preparations, perfumery, baby products, dental care, and regulatory aspects pertaining to their manufacture. Relevant physiology of skin and hair would also be dealt with. Aspects of good laboratory practices and good manufacturing practices would also be discussed.		
PHM 20602	Veterinary Pharmacy	2
The course aims at introducing students to aetiology, signs and symptoms and treatment of common diseases in farm animals and pets using chemicals. Antibiotics are used to control bacterial and coccidial infections, anthelmintics to control worm infection, antiseptics for cleaning wounds, vaccines as prophylaxis and treatment of viral/bacterial infection, insecticides to control insects from spreading diseases, minerals and vitamins for prophylaxis and treatment of metabolic and deficiency disorders. Besides that, the mechanism of action of antibiotics, antibacterial and growth promoters to increase growth rate of farm animals, action of disinfectants to prevent an outbreak of a disease, special formulation and delivery system for intensive animal farming are also discussed.		
PHM 20703	Pharmaceutical Analysis	3
The course introduces the students to basic techniques and instrumentation for the analysis of drugs in various body fluids. Principles of extraction, separation, and quantitative analysis, including titrimetry and gravimetry will be discussed. General principles of chromatography, spectroscopy, NMR, ESR, Mass Spectrometry, Thermal Analysis and introduction to Super Critical Fluid Chromatography will be dealt with.		
PHM 20803	Pharmacognosy	3
This course covers the history, scope and development of pharmacognosy. Important aspects related to herbs such as classification, cultivation, collection, harvesting and evaluation of crude drugs are covered. Other aspects covered are phytochemistry, plant biosynthesis, enzyme biotechnology, and plant tissue culture. Novel medicinal agents from marine source, study of herbal preparations, allergens, and new concepts such as nutraceuticals as well as important classes of phytochemicals is discussed. An overview is given of the important plants used in the management of cancer, diabetes, inflammation, liver disorders,		

hypertension, and AIDS, as well as drug interactions between herbs and modern drugs.

PHM 20903	Dosage Form Design II (Solid Pharmaceuticals)	3
This course is designed to provide the students with an understanding of the physicochemical characteristics of powders and polymers. Manufacture and evaluation of various solid dosage forms. Rheology and its applications in pharmacy practice.		
PHM 21003	Cardiovascular, Renal & Respiratory Pharmacotherapeutics	3
The aim of this module is to acquire knowledge of pathophysiology, pharmacology and clinical therapeutics relevant to respiratory, renal and cardiovascular disorders.		
PHM 21102	Central Nervous System Pharmacotherapeutics	2
This module provides the students with the organisation and functions of the central nervous system and the pathophysiology of neurological and psychiatric disorders. The drugs used in the treatment of CNS disorders and analgesics will also be discussed with respect to their mechanisms of action, side effects and clinical uses.		
PHM 21202	Pharmacy Management	2
Through this course, students are introduced to the basic understanding and competencies necessary to assume a managerial role within various pharmacy settings, with an emphasis on community pharmacy. In addition to the standard operating procedures in pharmaceutical settings, common managerial challenges are incorporated – management of customers, staff, finances, marketing and risks within the pharmaceutical sector in today's competitive business environment. Essentially the course highlights consideration of the fundamentals of managing the pharmacy as a business unit in terms of its suppliers, its staff and customer profitably.		
PHM 21302	Biopharmaceutics and Pharmacokinetics	2
This course covers the factors affecting drug absorption/bioavailability and the mathematical models used to describe the fate of a drug after its administration into the body. It also includes applying biopharmaceutics and pharmacokinetics in the design/development of drug dosage regimes.		
PHM 30103	Research Methodology	3
This course exposes students to fundamental research methods including literature search, study designs, instrumentations, data collection techniques, study procedures, data analysis, results interpretation and final report writing. Learning through utilisation of computer softwares are importantly emphasized e.g., NVivo, EndNote. At the end of the course, their performance is measured via the preparation and presentation of a related research proposal (based on supervisors' research fields) and the final exam. Overall, this course equips students with the necessary exposure, knowledge and skills to conduct a small-scale research study in the Pharmacy Research course.		

PHM 30202	Biostatistics	2
This course complements the Research Methodology course, as students will be learning basic statistical concepts and principles to assist data analysis and interpretation. Besides emphasis on the understanding of fundamental statistics and data presentation tools, practical sessions using the SPSS software are incorporated to facilitate actual analysis and exposure to data handling and management. This will help in their initial preparation of the research proposal and ultimately their discussion of research findings.		
PHM 30303	Formulation, Characterisation and Packaging	3
This course introduces the students to critical pharmaceuticals knowledge required by the community pharmacists – pharmaceutical, nutraceutical and cosmeceutical formulations, their chemical components and functions, as well as general characterization approaches essential in product registration and marketing. In addition, the students are educated about packaging and product stability aspects that have a strong bearing on product safety, quality, and efficacy. National and international regulations that qualify the products will be imparted to enable the community pharmacists to identify sub-standard items.		
PHM 30402	Pharmacy Law and Ethics	2
In this compulsory course, students are prepared for their Forensic Examination to qualify as pharmacy practitioners in Malaysia. General topics include key ethical concepts such as human rights, consent, confidentiality, and the care of vulnerable patients as well as the basis and application of ethical, moral, and professional conducts in pharmacy practice. In particular, the country's pharmacy laws such as the Registration of Pharmacists Act, Code of Conduct for Pharmacists and Bodies Corporate, Poisons Act, Dangerous Drug Act and other related regulations are disseminated. Several pertinent and current issues are also briefly discussed: palliative care and the end of life, new technologies in pharmacogenetics, and global aspects of pharmaceutical marketing.		
PHM 30502	Manufacturing Pharmacy	2
This course covers principles pertinent to working in the pharmaceutical industry. It includes an introduction to Good Manufacturing Practice (GMP), quality management, guidelines on the registration of a product, control of the manufacturing environment and raw materials, control of pharmaceutical preparations and related products, packaging, storage and distribution, process optimisation and regulatory requirements.		

PHM 30602	Pharmacy Entrepreneurship	2
The course intends to impart knowledge, skills, and abilities that student pharmacists require to tap on future entrepreneurial opportunities in the profession. It is designed to allow early development of entrepreneurial interest and skills through both didactic and experiential work, in attempts to expand the pharmacists' role beyond its traditional dispensing and counselling nature. Basic exposures to entrepreneurship concepts, strategic planning, purchasing, merchandising and business competition are all provided. The ultimate goal is to generate as many successful pharmacy entrepreneurs so as to act as job creators to reduce the increasing employment burden faced by the government sector. Consequently, the local communities will also benefit through more employment opportunities.		
PHM 30703	Endocrine, Reproductive & Genito-Urinary System Pharmacotherapeutics	3
This module provides the students with the organisation and functions of the endocrine system. The drugs used in the treatment of endocrine disorders will also be discussed with respect to their mechanisms of action, side effects and clinical uses.		
PHM 30802	Substance Use & Abuse	2
This course provides students with knowledge about common abusable drugs coupled with the signs and symptoms of various types of drug abuse that lead an individual to become a drug addict. The treatment of addiction of various drugs and the impacts of drug abuse on society and country are included. Additionally, the role of a pharmacist in the management of drug use in society is emphasised via the recognition of individuals practising irrational drug use or abuse with detrimental effects to society. Recommendations on the appropriate management drug abuse will be discussed.		
PHM 30902	Business Studies for Pharmacists	2
This is an elective course intended for students inclined to join or open up a new pharmacy business upon graduation. It provides a unique and challenging combination of general management principles, intertwined with financial, accounting and pharmacy aspects which prepares students for future business settings. Innovative practical experiences plus theoretical and applied concepts are expected to guide students to create a successful business plan infused with strong pharmacy professionalism that is community-friendly not only for the benefit of population health but also to boost the local socioeconomic status.		

PHM 31002	Chemometrics for Pharmaceutical Applications	2
This course covers the different types of pharmaceutical science data and chemometric methods that include descriptive, parametric, and non-parametric statistics. Development of hypotheses and selection of suitable testing methods are discussed. Analysis of variance, correlation and regression will be discussed. Methods of statistical process control, experimental design, and optimization as well as an introduction to multivariate analysis and modelling for pharmaceutical studies will be introduced. The aim of the course is to explore chemometric techniques used in modern pharmaceutical practice and applications. Emphasis will be placed on case studies of pharmaceutical and clinical practice and on the practical application of the methods discussed.		
PHM 31103	Antimicrobial & Cytotoxic Pharmaceuticals	3
This module provides the students with knowledge of various antimicrobials with reference to its culture sensitivity and clinical usage. This module also discusses the principles of therapy and clinical usage of various anti-infective and cytotoxic agents. In addition, the students will be exposed to different types of antimicrobial topical preparations with respect to their use.		
PHM 31204	Therapeutics I (Cardiovascular & Gastrointestinal Disorder)	4
This course provides students with aspects of pathophysiology and pharmacotherapy of common cardiovascular, and gastrointestinal tract disorders. Students are taught how to perform drug therapy assessment based on a case-oriented approach. From case studies, students use patient's information on clinical status including laboratory data and drug therapy to formulate desired therapeutic outcomes, identify drug-related problems, counselling and monitoring.		
PHM 31303	Public Health Pharmacy	3
The course emphasises the importance of pharmacy practice and the expanding role of pharmacists in population health management. The two main branches of pharmacoepidemiology and pharmacoconomics are discussed and the relevant concepts laid out, particularly in the context of measurement, analysis, and research studies. Applications of pharmacoepidemiological tools and pharmacoconomics analysis are expected from students, who should also demonstrate a thorough understanding of the two relationships as well as being able to conduct research critique with regard to drug investigations.		

PHM 31405	Pharmacy Research	5
This course serves as a continuation from the Research Methodology course in the 5th semester whereby small-scale research (laboratory or field studies) would be conducted by the students in the pre-selected areas. For final assessment purposes, they are expected to present the outcomes orally as well as in the form of a dissertation (e.g., final report). The dissertation format closely follows one usually prepared for a postgraduate thesis according to the university regulations. Overall, students learn the vital hands-on research aspects, handling related issues as well as the techniques of proper academic writing, citing, referencing and where possible, conference presentation and publication in scientific journals.		
PHM 31503	Hospital Pharmacy Practice	3
This course provides students with a perspective of providing various pharmacy services in the hospital setting such as drug information service, therapeutic drug monitoring, ward drug supply, outpatient drug supply, drug counselling and aseptic services. The course is further strengthened by case-based discussions and attachment/clerkship in the hospital.		
PHM 40103	Therapeutics II (Endocrinological, Genitourinary Tract Disorders)	3
This course provides students with aspects of pathophysiology and pharmacotherapy of common endocrinological, and genitourinary tract disorders. Students are taught how to perform drug therapy assessment based on a case-oriented approach. From case studies, students use patient's information on clinical status including laboratory data and drug therapy to formulate desired therapeutic outcomes, identify drug related problems, counselling and monitoring.		
PHM 40203	Clinical Pharmacokinetics and Pharmacogenomics	3
This course integrates aspects of pharmacokinetics and pharmacotherapy of selected drugs and disease states in patient care. Students are taught how to perform pharmacokinetic calculations based on a case-oriented approach. From case studies, students use patient's information on clinical status including laboratory data, concentration data and drug therapy to formulate desired therapeutic plans and monitoring. This course provides the student with a basic understanding of the role of pharmacogenomics in clinical pharmacy practice especially on the aspects of polymorphism and variability in drug response.		

PHM 40303	Therapeutics III (Neurology, Psychiatry, Dermatology & Pain)	3
This course provides students with aspects of pathophysiology and pharmacotherapy of common musculoskeletal, neurological, psychiatric disorders and dermatological diseases. Students are taught how to perform drug therapy assessment based on a case-oriented approach. From case studies, students use patient's information on clinical status including laboratory data and drug therapy to formulate desired therapeutic outcomes, identify drug related problems, counselling and monitoring.		
PHM 40402	Medication Review Counselling	2
This course emphasis on the application of pharmaceutical care principal in drug counselling service, consultation, and health promotion to patients with chronic diseases. The main focus is to build talent and clinical skills to identify and solve drug used and drug-taking problems. Techniques for clinical medication review (CMR) for patients with chronic diseases will be discussed. Community visits for a Home Medication Review (HMR) will be arranged.		
PHM 40502	Health Behaviour & Health Education	2
This elective course prepares students of pharmacy to understand human behaviour in relation to health and interact effectively with the public in the process of imparting health education (which is part of health promotion). Health behaviour theories that are most relevant to health education are essentially explored and the most current information on theory, research, and practice at individual, interpersonal, and community and group levels is analysed. Current and emerging theories of health communication, e-health, culturally diverse communities, health promotion, the impact of stress, the importance of networks and community, social marketing, and evaluation are all included. To ensure constant touch with reality, students will also be exposed to field work i.e., community engagement programme, so that interaction with the public is encouraged.		
PHM 40602	Smoking Cessation Certification Programme	2
This course will teach a student to screen, assess, and treat people with tobacco dependence. Tools and techniques for enhancing motivation and running cessation groups are also covered. Aspects covered are major clinical implications of smoking prevalence; accurate information surrounding tobacco use and dependence; evidence-based screening and assessment tools and psycho-social interventions for tobacco dependence; evidence-based use of pharmacotherapies in tobacco cessation and their therapeutic use; motivational interviewing strategies into clinical practice with clients who are ambivalent towards behaviour change; treatment plans for specific populations with high tobacco use prevalence and/or risk; tobacco control policy framework; harm reduction strategies with clients who are not ready to quit smoking; additional clinical tools and resources to use in clinical practice and continuing professional development.		

PHM 40704	Therapeutics IV (Infectious Disease, Oncology & Respiratory Diseases)	4
This course provides students with aspects of pathophysiology and pharmacotherapy of common infectious and respiratory diseases, and cancer. Students are taught how to perform drug therapy assessment based on a case-oriented approach. From case studies, students use patient's information on clinical status including laboratory data and drug therapy to formulate desired therapeutic outcomes, identify drug related problems, counseling and monitoring.		
PHM 40802	Toxicology	2
This module introduces the students to the basic topics in toxicology. It is intended to equip the students with the knowledge of toxicological measurements, testing methods and toxic effects at various target organs such as the liver, lungs, heart, kidneys and central nervous system. The toxic effects of chemicals such as insecticides, weed killers, carcinogens, teratogens, mutagens and substances causing oxidative stress will be discussed.		
PHM 40902	Manufacturing Pharmacy Clerkship	2
The student will be trained in various sectors of a manufacturing organization. They shall be imparted with knowledge on industrial pharmacy, business studies and components related to such practice during their industrial attachment. This training period is complementary to Industrial Pharmacy course which covers principles pertinent to working in the pharmaceutical industry. During this time, the student will experience how Good Manufacturing Practice (GMP), quality management, guidelines on the registration of a product, control of the manufacturing environment and raw materials, control of pharmaceutical preparations and related products, packaging, storage and distribution, process optimisation and regulatory requirements are put into place in the day-to-day running of pharmaceutical manufacturing or production company.		
PHM 41006	Community Pharmacy Clerkship	6
This is a 6-week unique course whereby students will initially be exposed to hands-on mock community history taking and dispensing in the practical laboratory for 2 weeks. They will then continue with real-life exposure and hands-on training on professional dispensing, counselling, OTC sales and general management of local retail/community pharmacies for the remaining 4 weeks. In addition to enhancing their expertise in responding to minor symptoms, students will be expected to polish their combined skills on customer interactions, sales and ordering of medicines as well as the overall business management of such outlets.		

PHM 41102

Traditional & Complementary Medicine

2

With this course Pharmacy students will be exposed to the basic concept of Traditional and Complementary Medicine (T&CM) and the different types of T&CM services available in Malaysia. Students will also be exposed to the National T&CM Policy and T&CM Act which covers the expectation and the enforcement that come with them. Special focus would be given to the four main medical systems as mentioned in the National T&CM Policy, i.e., Traditional Malay Medicine, Traditional Chinese Medicine, Traditional Indian Medicine (Ayurvedic) and Homeopathic Medicine. Some focus would also be given to other common Complementary Medicine, which seems reliable and safe. To improve student comprehension, this course also scheduled some fieldwork to T&CM practice sites available in Kuala Terengganu. These include T&CM Services at T&CM Units in various hospitals in the Ministry of Health Malaysia as well as Malay Traditional Medicine, Chinese Traditional Medicine, Indian Traditional Medicine, and Homeopathic Medicine services, which are registered with the T&CM Division of Ministry of Health Malaysia.

University Courses

NO.	COURSE CODE	COURSE NAME	CREDIT HOURS
1.	MPU 31062	Falsafah dan Isu Semasa	2
2.	MPU 31072	Penghayatan Etika dan Peradaban	2
3.	MPU 32092	Asas Pembudayaan Keusahawanan	2
4.	MPU 33012	Ilmu Wahyu & Sains	2
	MPU 33022	Moral Dan Etika II (Non-Muslim Student)	
5.	MPU 33032	Ilmu Wahyu dan Kemasyarakatan	2
	MPU 33042	Perbandingan Agama II (Non-Muslim Student)	
6.	PBI 10102	English for Communication I	2
7.	PBI 10202	English for Communication II	2
8.	PBI 10702	Bahasa Thai	2
	KK* *****	Co-Curriculum	3
TOTAL CREDIT HOURS			19

Co-Curriculum Courses

NO.	CATEGORY	COURSE CODE	COURSE NAME
1	Kebudayaan	KKD 11003	Alat Muzik Moden
		KKD 11103	Koir
		KKD 10903	Muzik Gamelan
		KKD 10303	Muzik Kompang
		KKD 10403	Seni Tari
		KKD 10203	Taranum
		KKD 10503	Teater
2.	Teras Kemasyarakatan & Sukarelawan	KKV 10103	Projek Khidmat Masyarakat
		KKV 10203	Pemadam
3.	Teras Keusahawanan & Pembinaan Diri	KKN 10303	Asas Pengucapan Awam
		KKN 10603	Asas Kewartawanan
		KKN 10703	Fotografi
		KKN 10203	Katering
		KKY 10103	Pengakap Kelana Siswa I
		KKN 10503	Rakan Kaunselor
4.	Teras Sukan	KKX 11203	Asas Pelayaran
		KKX 11603	Bola Baling
		KKX 10803	Ekuestrian
		KKX 10903	Golf
		KKX 12003	Hoki
		KKX 12303	Karatedo
		KKX 11303	Kayak
		KKX 10503	Memamah
		KKX 12203	Rowing
		KKX 10203	Sepak Takraw
		KKX 10603	Taekwando
		KKX 10403	Tenis
		KKX 10703	Tenpin – Boling
5.	Teras Pasukan Pakaian Seragam Tanpa Senjata	KKY 10311	KOR SISPA I
		KKY10321	KOR SISPA II
		KKY20331	KOR SISPA III
		KKY20341	KOR SISPA IV
		KKY30351	KOR SISPA V

NO.	COURSE CODE	COURSE CODE	COURSE NAME
6.	Teras Pasukan Pakaian Seragam Bersenjata	KKW 10311	KOR PALAPES UDARA I
		KKW 10321	KOR PALAPES UDARA II
		KKW 20331	KOR PALAPES UDARA III
		KKW 20341	KOR PALAPES UDARA IV
		KKW 30351	KOR PALAPES UDARA V
		KKW 30361	KOR PALAPES UDARA VI
		KKW 10211	KOR-SUKSIS I
		KKW 10221	KOR-SUKSIS II
		KKW 20231	KOR-SUKSIS III
		KKW 20241	KOR-SUKSIS IV
		KKW 30251	KOR-SUKSIS V
		KKW 30261	KOR-SUKSIS VI
		KKW 10411	KOR SISKOR I
		KKW 10421	KOR SISKOR II
		KKW 20431	KOR SISKOR III
		KKW 20441	KOR SISKOR IV
		KKW 10611	WATANIAH NEGARA I
		KKW 10621	WATANIAH NEGARA II
		KKW 20631	WATANIAH NEGARA III
		KKW 20641	WATANIAH NEGARA IV
		KKW 30651	WATANIAH NEGARA V
		KKW 30661	WATANIAH NEGARA VI

University Courses Synopsis

Course Code	Course Name	Credit Hours
MPU 31062	Falsafah dan Isu Semasa	2
	Kursus ini merangkumi hubungan ilmu falsafah dengan Falsafah Pendidikan Kebangsaan dan Rukunegara. Penggunaan Falsafah sebagai alat untuk memurnikan budaya pemikiran dalam kehidupan melalui seni dan kaedah berfikir serta konsep insan. Topik utama dalam falsafah iaitu epistemologi, metafizik dan etika dibincangkan dalam konteks isu semasa. Penekanan diberi kepada falsafah sebagai asas bagi menjalin dialog antara budaya serta memupuk nilai sepunya.	
MPU 31072	Penghayatan Etika dan Peradaban	2
	Kursus ini menerangkan tentang konsep etika daripada perspektif peradaban yang berbeza. Ia bertujuan bagi mengenal pasti sistem, tahap perkembangan, kemajuan dan kebudayaan sesuatu bangsa dalam mengukuhkan kesepaduan sosial. Selain itu, perbincangan berkaitan isu-isu kontemporari dalam aspek ekonomi, politik, sosial, budaya dan alam sekitar daripada perspektif etika dan peradaban dapat melahirkan pelajar yang bermoral dan profesional. Penerapan amalan pendidikan berimpak tinggi (HIEPs) yang bersesuaian digunakan dalam penyampaian kursus ini.	
MPU 32092	Asas Pembudayaan Keusahawanan	2
	Kursus ini memberi pendedahan kepada pelajar tentang ilmu keusahawanan. Ia merangkumi konsep dan perkembangan keusahawanan, analisis kompetensi keusahawanan diri, etika keusahawanan dan kepentingan aspek kreativiti dan inovasi dalam keusahawanan. Ia juga membincangkan peluang perniagaan, kemahiran memulakan perniagaan, merancang perniagaan dan kemahiran mengurus projek perniagaan. Seterusnya pelajar perlu menyertai aktiviti keusahawanan secara praktikum, mereka didedahkan dalam segala aspek yang terlibat seperti perancangan modal, pemasaran seterusnya pembangunan produk dan proses. Latihan amali didedahkan kepada setiap pelajar secara melaksanakan projek keusahawanan dalam kumpulan.	
MPU 33012	Ilmu Wahyu & Sains	2
	Kursus ini ditawarkan kepada pelajar bertujuan memberi pendedahan berhubung konsep dan kategori akidah, aliran pemikiran, wahyu dan sains. Isu dan cabaran dalam akidah masyarakat Islam juga ditimbulkan. Perbincangan sains yang terdapat di dalam al-Quran dan hadis (<i>al-i'jaz al-'ilmi</i>) difokuskan kepada konsep wahyu dan sains, tokoh-tokoh sains Islam, sains fizikal, sains hayat, kejuruteraan dan kesenian Islam dan geologi. Perbincangannya dikupas dari aspek persamaan dan perbezaan di antara penemuan sains dengan fakta-fakta yang terdapat di dalam al-Quran dan hadis, dan hukum-hukum syariah berkaitan. Selain itu, pelajar juga diberi pendedahan ilmu al-Quran merangkumi makhraj huruf dan sifat-sifatnya, hukum-hukum nun sakinah dan tanwin, mim sakinah, mad dan qasar serta waqaf dan ibtida' dan sebagainya. Pelajar juga dikehendaki menghafaz surah-surah pilihan.	

MPU 33022	Moral Dan Etika II	2
Kursus ini mendedahkan kepada pelajar tentang konsep moral dan teori-teori etika dan sistem nilai; nilai agama, kepercayaan agar dapat diaplikasikan dalam kehidupan seharian. Konsep asas nilai, definisi, fungsi dan jenis-jenisnya seperti konsep kebaikan, kebahagiaan, kebenaran, kesalahan dan status moral akan diperkenalkan. Persoalan hak dan ilmu pengetahuan moral serta permasalahan etika akan diajar lebih mendalam. Nilai agama dan kepercayaan dalam masyarakat dan isu moral setempat serta <i>universal</i> akan diberi penekanan. Isu hak dalam masyarakat juga diberi pendedahan kepada pelbagai teori etika. Ajaran setiap agama mengenai moral dan etika akan dibincangkan. Kursus ini penting untuk membentuk personaliti individu dan membentuk nilai masyarakat majmuk di Malaysia.		
MPU 33032	Ilmu Wahyu dan Kemasyarakatan	2
Kursus ini membincangkan isu-isu kemasyarakatan yang terkandung dalam Al-Quran dan Hadis. Pelajar akan didedahkan kepada aspek ilmu akal, hubungan kekeluargaan, hubungan sosial, adab dan budaya, perhiasan, seni dan hiburan, globalisasi dan pemikiran, media dan dokumentari. Perbincangan difokuskan kepada garis panduan yang disediakan dalam al-Quran dan hadis dan peranannya dalam menangani isu-isu kemasyarakatan semasa yang berkaitan.		
MPU 33042	Perbandingan Agama II	2
Kursus ini membincangkan pelbagai aspek agama yang terdapat dalam dunia seperti Yahudi, Kristian, Islam, Hindu, Buddha dan Confusius. Sejarah kemunculan agama, aspek-aspek ketuhanan dan kepercayaan, kitab-kitab yang berkaitan dengan agama-agama turut dibincangkan dalam pembelajaran. Kursus Perbandingan Agama ini bukan hanya membincangkan aspek-aspek penting dalam agama-agama dunia, tetapi juga membentuk nilai-nilai beragama dalam masyarakat majmuk di Malaysia.		
PBI 10102	English for Communication I	2
This subject is designed to enable students to integrate basic communicational skills; reading, writing and speaking in promoting critical thinking and expressing their thoughts and opinions. Through this subject, the students will also be more aware of the current issues and allowing them to respond professionally and wisely by immersing themselves in classroom discussion, group work and presentation.		
PBI 10202	English for Communication II	2
The subject is designed to introduce students to a variety of communicational skills in the workplace to meet basic professional needs. Students will work with a variety of genres of professional communication, such as memos, meetings, etc. The assignments will require students to put into practice the various skills developed earlier such as integrating and presenting information, time management and group interaction. In order to accomplish these goals, class discussion, group work and in-class writing be used as tools for learning.		
PBI 10702	Bahasa Thai	2
This subject provides students with basic Thai language and its cultural awareness. Students are trained with communication skills in order to communicate at the primary level. Moreover, cultural topics will be inserted in the course to enhance students' understanding of the country's culture. Therefore, students will be more confident in communicating and performing tasks in the international environment.		

Co-Curriculum Courses Synopsis

Course Code	Course Name
KKD 11003	Alat Muzik Moden
	Kursus ini memberikan pendedahan asas kepada pelajar tentang konsep, teknik bermain alat muzik moden seperti alat muzik kugiran dan memerlukan kreativiti kumpulan semasa mengadakan persembahan.
KKD 11103	Koir
	Kursus ini akan memberikan pendedahan kepada pelajar asas menyanyi dengan cara mempelajari kaedah suara, teknik, penjiwaan dan persembahan yang betul serta membaca notasi lagu-lagu koir secara individu dan berkumpulan.
KKD 10903	Muzik Gamelan
	Kursus ini akan memberikan pendedahan kepada pelajar untuk mengenali, membaca nota dan memainkan alat-alat yang terkandung dalam muzik gamelan secara individu atau berkumpulan.
KKD 10303	Muzik Kompang
	Kursus ini memberikan pendedahan kepada pelajar tentang konsep dan permainan asas kompang, konsep bermain kompang dengan betul, mengenalpasti teknik permainan kompang dari segi rentak pukulan dan lagu, mengetahui cara memimpin kumpulan dan bekerjasama, dan memahami proses kompang dihasilkan.
KKD 10403	Seni Tari
	Kursus ini akan memberikan pendedahan kepada pelajar-pelajar menghasilkan persembahan yang berdaya kreatif tarian tradisional dan moden secara perseorangan dan berkumpulan.
KKD 10203	Taranum
	Kursus ini akan mendedahkan pelajar kaedah membaca Al-Quran secara berlagu di samping memperkenalkan jenis-jenis lagu yang digunakan ketika membaca Al-Quran.
KKD 10503	Teater
	Kursus ini akan mendedahkan pelajar kepada persediaan fizikal dan mental yang menjadi asas kepada lakonan. Persediaan fizikal termasuklah memahami latihan untuk olah tubuh dan vokal (pengucapan). Persediaan mental pula merujuk kepada proses memahami lakonan melalui latihan seperti improvisasi, bahasa badan (<i>body language</i>), pemerhatian dan penghayatan.
KKV 10103	Projek Khidmat Masyarakat
	Kursus ini pelajar akan didedahkan dengan program kemasyarakatan, kebajikan dan kesedaran. Pelajar juga akan diajar mengenai ciri-ciri kepimpinan dalam menguruskan sesebuah program kemasyarakatan. Pelajar akan melakukan kerja-kerja amal pada masyarakat tanpa mengira kaum dan agama.

KKV 10203	Pemadam	Kursus ini menerangkan aspek-aspek pengetahuan dan pendidikan asas sejarah dadah, jenis-jenis dadah dan kesan/akibat kepada manusia, penguatkuasaan undang-undang, profil seorang penagih dan bekas penagih, proses pemulihan di pusat serenti, penjara dan pelajar juga dibawa melawat ke pusat serenti dan penjara di dalam negara. Selain dari itu, mata pelajaran ini juga memberi peluang kepada pelajar untuk berinteraksi dengan pelatih melalui kaunseling berkelompok dan penganjuran kursus / bengkel dan seminar antidadah.
KKN 10303	Asas Pengucapan Awam	Kursus ini menekankan konsep-konsep asas dalam pengucapan awam bagi membina kecekapan berpidato dan berucap di kalangan pelajar. Bakat dan pengetahuan dalam bidang komunikasi umum yang ada pada pelajar akan digilap melalui latihan-latihan amali pengucapan.
KKN 10603	Asas Kewartawanan	Kursus ini memberi pendedahan serta mengenalkan panduan-panduan dalam menghasilkan bahan berita di dalam akhbar menerusi pelbagai isu semasa dalam dan luar negara demi kepentingan umum melalui media cetak dan elektronik di negara ini.
KKN 10703	Fotografi	Kursus ini bertujuan memberi pendedahan dan kemahiran fotografi kepada pelajar-pelajar. Aspek-aspek teori dan pratikal serta teknik-teknik pengambilan foto yang menarik diberi penekanan. Pelajar berpeluang menghayati seni foto dengan mempraktikkan kombinasi teknologi kamera fotografi digital dan analog (SLR kamera).
KKN 10203	Katering	Kursus ini dibentuk bertujuan untuk mendedahkan pelajar kepada kemahiran dalam bidang katering. Para pelajar akan diberi penerangan dan tunjuk ajar dalam pelbagai aspek penyediaan makanan, pengurusan dapur, prinsip makanan dan juga perkhidmatan katering.
KKY 10103	Pengakap Kelana Siswa I	Kursus ini memperkenalkan ilmu kepengakapan, sejarah, struktur organisasi, ilmu asas perkhemahan, kawad kaki, istiadat pengakap, kerja tali-menali, mengagak serta ilmu perkhemahan. Kursus ini menekankan kepimpinan Manikayu yang akan melayakkan mereka menjadi pemimpin.
KKN 10503	Rakan Kaunselor	Rakan Kaunselor merupakan subjek yang menekankan aspek-aspek kemahiran asas kaunseling yang dapat digunakan oleh pelajar mata pelajaran ini untuk membantu diri, rakan pelajar, keluarga dan masyarakat sekelilingnya menangani masalah. Selain dari itu mata pelajaran ini memberi peluang kepada pelajar untuk mempelajari kemahiran mengurus dan memimpin dalam sesebuah organisasi.
KKX 11203	Asas Pelayaran	Kursus ini memperkenalkan pelajar kepada pengetahuan-pengetahuan asas dan kemahiran-kemahiran asas pelayaran dan ia juga memperlihatkan pelajar kepada sejarah pelayaran, mengetahui jenis dan bahagian kapal layar. Pelajar juga harus melayarkan kapal layar.

KKX 11603	Bola Baling	Kursus ini akan memberikan pendedahan kepada pelajar-pelajar akan kemahiran membuat hantaran, rejaman dan tangkapan yang baik dalam bola baling, mengaplikasikan peraturan dalam permainan ini serta berkemahiran dalam penyediaan padang dan alatan permainan ini.
KKX 10803	Ekuestrian	Kursus ini memperkenalkan kepada pelajar sukan berkuda, sejarah serta perkembangannya. Pelajar juga akan dibawa menerokai alam kehidupan kuda dan bagaimana menjalin persahabatan dengan haiwan ini serta pelajar dapat mempelajari dan mengenal pasti peralatan-peralatan menunggang, ilmu mengenai kesihatan kuda dan teknik-teknik asas menunggang kuda.
KKX 10903	Golf	Kursus ini mendedahkan peraturan sukan golf, latihan kecergasan, asas pengadil, teknik permainan dan penganjuran sukan golf.
KKX 12003	Hoki	Kursus ini memberi pendedahan mengenai asas permainan Hoki, mendidik cara memimpin kumpulan dan kerjasama antara ahli pasukan serta menyihatkan tubuh badan.
KKX 12303	Karatedo	Kursus ini akan memberikan pendedahan kepada pelajar-pelajar akan pengetahuan asas mengenai teknik, peraturan-peraturan permainan dan mengambil bahagian dalam pertandingan <i>Karate-do</i> .
KKX 11303	Kayak	Kursus ini menawarkan pendedahan asas kepada kemahiran berkayak, teknik-teknik kayuhan yang betul, peraturan dan kod keselamatan semasa berkayak atau semasa menjalankan aktiviti di air.
KKX 10503	Memanah	Kursus ini menekankan kepada pelajar tentang undang-undang dan peraturan permainan sukan memanah, pelajar juga diberikan tumpuan tentang kemahiran-kemahiran asas sukan memanah khususnya dari segi teknik yang betul serta pendedahan penganjuran kejohanan mini.
KKX 12203	Rowing	Kursus ini akan memberikan pendedahan kepada pelajar-pelajar akan pengetahuan asas mengenai teknik, peraturan-peraturan permainan dan mengambil bahagian dalam pertandingan <i>Rowing</i> serta menyihatkan tubuh badan.
KKX 10203	Sepak Takraw	Kursus ini memperkenalkan kepada pelajar-pelajar bagaimana bermain Sepak Takraw dengan betul, asas-asas kepada kemahiran bermain Sepak Takraw, undang-undang permainan Sepak Takraw, serta melibatkan pelajar dengan latihan bermain dan menganjur mengendalikn suatu pertandingan kecil dan juga menyertainya.
KKX 10603	Taekwando	Kursus ini memberi pendedahan terhadap pengurusan fizikal secara saintifik dalam sukan <i>Tae kwon-do</i> . Pembentukan sahsiah dan jati diri yang seimbang serta mencetuskan semangat daya juang tinggi dalam menghadapi dan mengharungi cabaran kehidupan harian.

KKX 10403	Tenis	Kursus ini memperkenalkan pelajar kepada pengetahuan-pengetahuan asas dan kemahiran-kemahiran asas permainan tenis dan ia juga memperlihatkan pelajar kepada seni pergerakan dan teknik sesuatu pergerakan atau kemahiran yang dilakukan serta teknik boleh menganjurkan pertandingan/kursus.
KKX 10703	Tenpin – Bowling	Kursus ini akan memberikan pendedahan kepada pelajar-pelajar akan strategi permainan, pengetahuan dalam peralatan serta pengurusan, pemarkahan pertandingan tenpin bowling.
KKY 10311	KOR SISPA I	Kursus ini akan memberi ruang kepada pelajar mempelajari ilmu kemahiran pertahanan awam dan melahirkan lebih ramai pegawai Pertahanan Awam yang berkaliber serta mampu menghadapi cabaran global. Pegawai Pertahanan awam akan diberi pengetahuan tentang pengetahuan asas pertahanan awam, asas pertolongan cemas, kemahiran asas melawan kebakaran, kemahiran asas menyelamatkan dan etika moral.
KKY10321	KOR SISPA II	Pelajar berpeluang menimba beberapa lagi pengetahuan asas pertahanan awam yang lain termasuklah kawad usungan, ikatan dan simpulan tali, manual keselamatan bagi operator gergaji berantai serta sains kebakaran dan alat pemadam api, teknik pembacaan peta dan kompas mengurus pusat bantuan/makanan kecemasan serta pengetahuan tentang bencana alam.
KKY20331	KOR SISPA III	Kursus ini adalah lanjutan kepada Kor SISPA II. Ianya memberi penekanan kepada kegunaan <i>power cutter</i> dan alat hidraulik, penggunaan peralatan ambulan, tatacara keselamatan dan latihan <i>ascending & descending</i> , kaedah menyelamatkan diri dari tempat tinggi serta pengenalan kepada peralatan, ' <i>Basic Trauma & Life Support</i> '.
KKY20341	KOR SISPA IV	Kursus ini akan memberikan penekanan kepada khidmat kecemasan 999 termasuklah pengurusan bilik gerakan/MERS 999, pengendalian dan penyelenggaraan serta sistem komunikasi (radio dan prosedur am komunikasi). Pelajar juga akan berpeluang belajar ilmu pengurusan bencana dan krisis, kaedah pengurusan latihan serta kaedah pengurusan pasukan.
KKY30351	KOR SISPA V	Dalam kursus ini pelajar akan diberikan ilmu berkenaan pengendalian mesyuarat, simulasi pengendalian mesyuarat serta komunikasi berkesan. Sahsiah, etika pegawai dan kepimpinan juga akan ditekankan bagi melahirkan seorang pegawai SISPA yang berkaliber. Pelajar juga akan dilatih mengenai etiket dan protokol termasuklah pengurusan majlis rasmi, etiket dalam perbualan sosial, etiket ketika makan beradat serta kursus kejurulatihan kemahiran kepada bakal pegawai yang akan dijalankan di Pusat Latihan.
KKW 10311	KOR PALAPES UDARA I	Kursus ini mendedahkan kepada para pelajar mengenai asas ketenteraan, etika tentera dan mengamalkan sifat setia kawan serta memupuk seorang pelajar itu menjadi seorang pemimpin yang berkualiti.

KKW 10321 KOR PALAPES UDARA II

Kursus ini mendedahkan kepada para pelajar berkenaan dengan etika kerja dan ianya dapat menguruskan segala maklumat serta idea baru melalui asas ketenteraan yang merangkumi latihan-latihan ilmu medan perang (IMP).

KKW 20331 KOR PALAPES UDARA III

Kursus ini mendedahkan kepada para pelajar berkenaan dengan etika kerja dan ianya dapat menguruskan segala maklumat serta idea baru melalui asas ketenteraan yang merangkumi latihan-latihan ilmu medan perang (IMP).

KKW 20341 KOR PALAPES UDARA IV

Kursus ini dapat mendedahkan etika tentera kepada para pelajar bagaimana untuk berkongsi pandangan setiap aktiviti ketenteraan dan memupuk kerjasama dalam satu kumpulan serta berkemahiran untuk mengkoordinasikan latihan Ilmu Medan Perang (IMP).

KKW 30351 KOR PALAPES UDARA V

Kursus ini mendedahkan kepada para pelajar Asas Latihan Ketenteraan melalui latihan-latihan yang dijalankan pada tahap tinggi.

KKW 30361 KOR PALAPES UDARA VI

Kursus ini mendedahkan kepada para pelajar Asas Latihan Ketenteraan melalui latihan-latihan yang dijalankan pada tahap tinggi.

KKW 10211 KOR-SUKSIS I

Kursus ini adalah untuk melahirkan seorang Pegawai Sukarelawan Polis Siswa/Siswi (Kor-SUKSIS) yang berpengetahuan tentang undang-undang berkaitan, latihan mingguan, urusan latihan, pentadbiran, daya kepimpinan, disiplin serta ketahanan fizikal/metal yang sesuai di antara pasukan polis dan Universiti.

KKW 10221 KOR-SUKSIS II

Kursus ini adalah untuk melahirkan seorang Pegawai Sukarelawan Polis Siswa/Siswi (Kor-SUKSIS) yang berpengetahuan tentang undang-undang berkaitan, latihan mingguan, urusan latihan, pentadbiran, daya kepimpinan, disiplin serta ketahanan fizikal/metal yang sesuai di antara pasukan polis dan Universiti.

KKW 20231 KOR-SUKSIS III

Kursus ini adalah untuk melahirkan seorang Pegawai Sukarelawan Polis Siswa/Siswi (Kor-SUKSIS) yang berpengetahuan tentang undang-undang berkaitan, latihan mingguan, urusan latihan, pentadbiran, daya kepimpinan, disiplin serta ketahanan fizikal/metal yang sesuai di antara pasukan polis dan Universiti.

KKW 20241 KOR-SUKSIS IV

Kursus ini adalah untuk melahirkan seorang Pegawai Sukarelawan Polis Siswa/Siswi (Kor-SUKSIS) yang berpengetahuan tentang undang-undang berkaitan, latihan mingguan, urusan latihan, pentadbiran, daya kepimpinan, disiplin serta ketahanan fizikal/metal yang sesuai di antara pasukan polis dan Universiti.

KKW 30251 KOR-SUKSIS V

Kursus ini adalah untuk melahirkan seorang Pegawai Sukarelawan Polis Siswa/Siswi (Kor-SUKSIS) yang berpengetahuan tentang undang-undang berkaitan, latihan mingguan, urusan latihan, pentadbiran, daya kepimpinan, disiplin serta ketahanan fizikal/metal yang sesuai di antara pasukan polis dan Universiti.

KKW 30261 KOR-SUKSIS VI

Kursus ini adalah untuk melahirkan seorang Pegawai Sukarelawan Polis Siswa/Siswi (Kor-SUKSIS) yang berpengetahuan tentang undang-undang berkaitan, latihan mingguan, urusan latihan, pentadbiran, daya kepimpinan, disiplin serta ketahanan fizikal/metal yang sesuai di antara pasukan polis dan Universiti.

KKW 10411 KOR SISKOR I

Kursus ini akan memberi ruang kepada pelajar mengetahui dengan lebih terperinci mengenai Jabatan Penjara Malaysia termasuklah objektif, fungsi, misi, visi, motto dan Lagu Jabatan. Pelajar juga akan diperkenalkan dengan Akta Penjara dan Peraturan Penjara, Asas Kesukarelawan termasuk peranan dan tugas sukarelawan, Kepimpinan Sukarelawan, Kod Etika SISKOR dan latihan fizikal (Kawad Kaki)/SENTAP.

KKW 10421 KOR SISKOR II

Kursus ini akan memberi menekankan kepada dasar kerajaan mengenai sukarelawan termasuklah mentor dan coaching serta kerja berpasukan dalam sukarelawan. Pelajar juga akan diperkenalkan kepada Dasar kepenjaraan termasuklah halatuju dan kerjaya di Jabatan Penjara Malaysia. Pengenalan kepada pemulihan, Parol dan Khidmat komuniti selain dari latihan fizikal (kawad kaki setiap minggu).

KKW 20431 KOR SISKOR III

Kursus ini akan memberi menekankan kepada etiket sosial dan protokol, keselamatan fizikal penjara, strategik keselamatan, Rumah Pengantaraan, pengoperasian Rumah Perantaraan di samping latihan fizikal kawad senjata pada setiap minggu. Pelajar juga akan dibawa melawat Rumah Perantaraan bagi melihat pengoperasian rumah tersebut.

KKW 20441 KOR SISKOR IV

Pada tahap ini pelajar-pelajar akan diberi maklumat mengenai tatacara pemakaian seragam JPM, risikan dan siasatan, aspek-aspek pemulihan termasuklah vokasional dan industri di samping asas kemahiran penghuni. Program Pemulihan Pemasarakatan (PPP) juga akan diperkenalkan. Antara yang akan disentuh termasuklah kepentingan dan keperluan PPP, peruntukan undang-undang, usahasama dengan agensi luar serta lawatan ke Pusat Pemulihan Pemasarakatan. Latihan fizikal di peringkat ini akan lebih menekankan kepada Formasi Tamat Latihan.

KKW 10611	WATANIAH NEGARA I
KKW 10621	WATANIAH NEGARA II
KKW 20631	WATANIAH NEGARA III
KKW 20641	WATANIAH NEGARA IV
KKW 30651	WATANIAH NEGARA V
KKW 30661	WATANIAH NEGARA VI

Grading System

A student **must pass with at least Grade C** for all registered courses offered by the faculty. The students will be assessed by continuous assessment and end-of-semester examination. The academic achievement of students will be graded as follows:

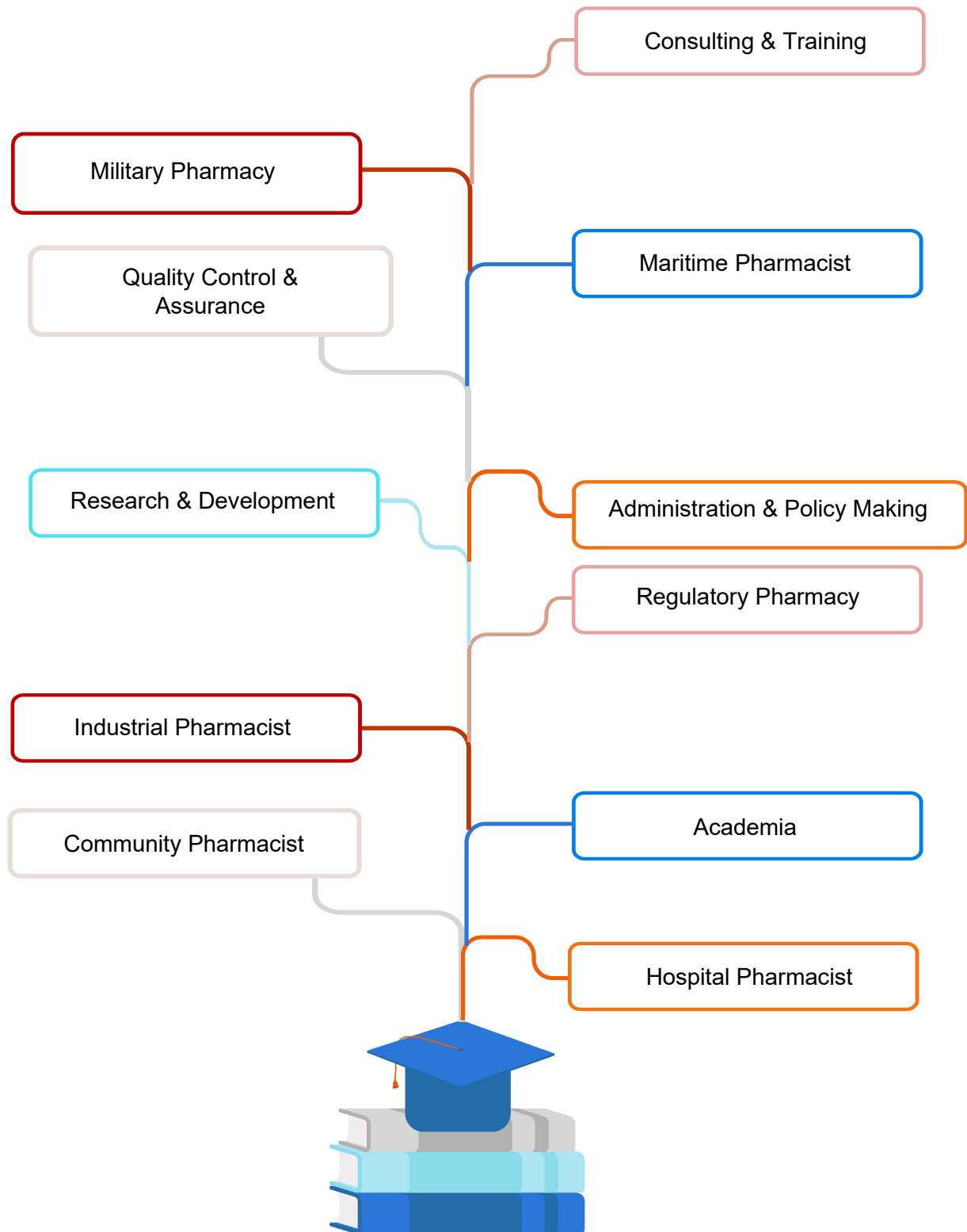
Marks (%)	Grade	Grade Points	Performance
80-100	A	4.00	Distinction
75-79	A-	3.67	
70-74	B+	3.33	Honours/Good
65-69	B	3.00	
60-64	B-	2.67	Average
55-59	C+	2.33	
50-54	C	2.00	
47-49	C-	1.67	Fail
44-46	D+	1.33	
40-43	D	1.00	
0-39	F	0.00	

The overall academic achievement is based on Grade Point Average (GPA) from all the registered courses in a particular semester. Cumulative Grade Point Average (CGPA) is the GPA accumulated by a student from one semester to another throughout the years of study.

Please refer to *Buku Peraturan Akademik Prasiswazah UniSZA* for the details on student's academic information.

Career Prospect

Registered Pharmacist in Malaysia





For further enquiries please contact:

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