

ABOUT KPTM

Kolej Poly-Tech MARA is a private higher educational institution which is wholly owned by Majlis Amanah Rakyat (MARA). KPTM offers a wide range of educational opportunities in the field of Information Technology, Computer Science, Accounting, Business Management, Sciences, Engineering and Health Science.

VISION

To be a Tertiary Education Institution with Excellent Reputation

MISSION

- 1 To cultivate academic and entrepreneurial excellence to achieve an optimal individual potential
- 2 To lead a holistic education through global acknowledgement and acceptance

SHARED VALUE

Trustworthy, Resilient, Blessed

MOTTO

A Centre of Learning, Centred on You

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1.0 MESSAGE FROM THE CHIEF EXECUTIVE OFFICER

A warm welcome to Kolej Poly-Tech MARA.

First and foremost, I would like to congratulate you for succeeding in your study and now able to pursue it to a higher level at KPTM.

To ensure that all our students meet their educational goals, we go all-out to provide a conducive learning environment that facilitates effective learning.

We have experienced lecturers who could guide and motivate the students to meet their life goals. Our lecturers are very committed in making sure their students finish their studies on time and are able to get the right job within short duration of time after that. We also take pride of the fact that our lecturers are not only academic references but also excellent advisors and mentors for students.

It is hoped that this handbook will serve as a useful reference to students about their chosen programme specifications and guidelines.

I wish you all the best in your studies at KPTM.

**CHIEF EXECUTIVE OFFICER
KOLEJ POLY-TECH MARA**

2.0 MESSAGE FROM DEAN OF FACULTY OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY

A warm welcome to Kolej Poly-Tech MARA.

A college experience is not only about making the right decision about what you wanted to be when you finished your secondary education. It is about a series of adjustments before venturing into a more challenging life.

I truly hope that this handbook will be helpful in guiding you throughout your course of studies and throughout your adjustment processes as a college student.

You will find that this handbook provides you with the necessary reference and information regarding the study programme as well as the support system, and services that the college provides.

The procedures are carefully designed to ensure that you are equipped with the relevant information about Diploma in Information Technology.

I hope you have an enjoyable learning experience and a rewarding student life.

**DEAN
FACULTY OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY
KOLEJ POLY-TECH MARA**

3.0 PROGRAM BRIEF

Kolej Poly-Tech MARA (KPTM) is a center of educational excellence for academic, professional and continuous learning programs. KPTM has grown and developed approximately 20,000 graduates with a wide choice of careers and opportunities in government, industry, the professions, or to further study.

Computer System and Networking is one the world's great growth industries, and among the few industries to have become truly global across its workforce. Computer System and Networking courses at Kolej Poly-Tech MARA are structured to give students more choice and opportunity. Study opportunities include entry level training across a range of technical programs, to complex specializations in fields such as software development and networking.

Courses offered are industry recognized, and designed with the student's development in mind. Using qualified teachers and trainers, our course programs develop and enhance the individual's personal and professional skills, with the aim of preparing them for a career within the IT industry. With a focus on learning outcomes and personal development, each course can enhance your resume, or help you progress your career aspirations within the work place.

Graduates are well equipped for the IT challenge at hand, and they can be confident that their recognized qualification and relevant experience gained through study will have them in high demand within the workforce.

The main purpose of the Computer System and Networking diploma at Kolej Poly-Tech MARA is to generate graduates with the knowledge, skills, and attitudes to be effective and responsible IT practitioners within a rapidly changing IT environment.

Our proud history and solid foundation will drive continuous educational growth into the future. In recent times, we have extended our quality programs to all individuals and populations. It is our absolute commitment to provide opportunities for individuals to gain easy access and holistic approach to education and training towards the establishment of knowledge-based society.

4.0 PROGRAM INFORMATION

1. **ProgrammeTitle** : **Diploma in Computer System and Networking**
2. **Programme Code** : **CC103**
3. **Duration** : **2 years 4 months**
4. **Total Credit Hours** : **93 credits**
5. **Medium of Instruction** : **English**
6. **Entry Requirement** : **PASS SPM** or equivalent with:

THREE (3) credits in any subjects, including Mathematics

OR

Pass a Pre-Diploma or other certificate in a related field from any public / private institutions recognized by the government of Malaysia with at least CGPA of 2.50

OR

Pass the Malaysian Skills Certificate (SKM)/MLVK Level 3 in a related field

7. **Programme Description:**

Diploma in Computer System and Networking consists of 93 credits. This programme's curriculum is designed for those who are interested to have a career in Networking, System Administration or IT. At the end of this programme, students will developed a working knowledge of routing, switching, network applications, protocols, programming and server services.

Students are required to attend full-time class basis teaching mode that scheduled by time table unit. This program is accredited by Malaysian Qualification Agency (MQA).

8. Programme Outcomes :

Upon the completion of the programme, graduates will be able to:

- PO1 Demonstrate the basic knowledge in information technology and computer network to support demand in the work place for IT professionals.
- PO2 Apply networking skills in installing, configuring, securing, administering and troubleshooting the devices and server services within a network infrastructure.
- PO3 Employ social skills and demonstrate responsibilities while engaging with community.
- PO4 Demonstrate professional values, ethics and attitudes in IT profession.
- PO5 Appropriate use of leadership and teamwork skills and communicate appropriately and effectively within various organizational contexts.
- PO6 Develop solution to solve computing or / and network problem using appropriate tools, techniques and technologies.
- PO7 Engage in life-long learning by using technologies and skills effectively in information management for career development and self improvement.
- PO8 Employ managerial and entrepreneurial skills.

9. Career Opportunities :

At the completion of the course graduates will have vocational pathways that can lead to employment or further study in:

Computer Support	Technical Support
IT installation and maintenance	Online Services
Network Engineer	Computer Technician
Web Site Developer	Help Desk Specialist
Programmer	Hardware/Software Installer
Software Trainer	Computer Sales Person

10. Awarding Body : Kolej Poly-Tech MARA

5.0 ACADEMIC PLANNER

ACTIVITY	DAY / WEEK
Registration (New Students)	Day 1
Orientation	Day 1 – 3
Registration (Returning Students)	Day 2 – 3
Lectures and Add/Drop Sessions	Week 1
Lectures	Week 1 – 14
Revision Week	1 Week
Final Examination	1 - 2 Weeks
Semester Break	2 - 3 Weeks

Note: Actual calendar will be distributed during registration.

The Academic Calendar for KPTM has the following features:

- The first semester of the academic year begins in November.
- The second semester of the academic year begins in April.
- The 1-2 weeks of final exam period, with 1 ‘dead week’ for exam preparation between the end of instruction and the beginning of finals.
- The College reserves the right to make any changes to the academic calendar when necessary. You are advised to read notices at all times.

6.0 ACADEMIC REGULATIONS

- All KPTM students are subjected to the Academic Rules and Regulations as outlined in the **Buku Peraturan Akademik Kolej Poly-Tech MARA PINDAAN 2017 (Cetakan Kedua)**. A copy of this booklet will be given to every student upon registration.
- All KPTM students pursuing academic programmes in collaboration with local or foreign partner institutions are also subjected to the rules and regulations of the partner institutions. A copy of this booklet will be given to students of the respective program during the Academic Briefing within the Induction Week.

7.0 PROGRAM STRUCTURE – DIPLOMA IN COMPUTER SYSTEM AND NETWORKING (CC103)

YEAR	SEM	COURSE CODE	COURSE NAME	COURSE STATUS	CREDIT HOURS	PRE REQ
YEAR 1	SEMESTER 1	TSE1363	FUNDAMENTALS OF PROGRAMMING	CORE MODULE	3	NONE
		TTS1253	INTRODUCTION TO INFORMATION TECHNOLOGY	CONCENTRATION	3	NONE
		TTS1242	ENTERPRISE IT APPLICATION	CONCENTRATION	2	NONE
		HES1013	ENGLISH SKILLS 1	IPT MODULE	3	NONE
		TNW2033	DATA COMMUNICATION CONCEPT	CORE MODULE	3	NONE
		TNW2053	CISCO DISCOVERY 1	CONCENTRATION	3	NONE
YEAR 2	SEMESTER 1	TCS1063	COMPUTER ORGANISATION AND ARCHITECTURE	CORE MODULE	3	NONE
		MPU2213	BAHASA KEBANGSAAN A	MPU MODULE	3	NONE
		MPU2223	STUDY SKILLS			NONE
		MPU2233	PENGUCAPAN AWAM			NONE
		MPU2243	HUMAN COMMUNICATION			NONE
		MPU2253	KEMAHIRAN MENULIS	NONE		
		MPU2163	PENGAJIAN MALAYSIA 2	MPU MODULE	3	NONE
		MPU2133	BAHASA MELAYU KOMUNIKASI 1			NONE
YEAR 2	SEMESTER 2	TCS2073	OPERATING SYSTEMS	CORE MODULE	3	NONE
		HES1023	ENGLISH SKILLS 2	IPT MODULE	3	HES1013
		TDM1023	COMPUTING MATHEMATICS	CORE MODULE	3	NONE
		TTS2213	DATABASE CONCEPTS	CORE MODULE	3	NONE
		TNW2163	SYSTEM ADMINISTRATION 1	CONCENTRATION	3	NONE
		TNW2073	CISCO DISCOVERY 2	CONCENTRATION	3	TNW2053
YEAR 2	SEMESTER 3	TSE2463	OBJECT ORIENTED SYSTEM ANALYSIS AND DESIGN	CORE MODULE	3	NONE
		TNW2173	SYSTEM ADMINISTRATION 2	CONCENTRATION	3	TNW2163
		TNW3143	CISCO DISCOVERY 3	CONCENTRATION	3	TNW2073
		TSE2443	OBJECT ORIENTED PROGRAMMING	CORE MODULE	3	NONE
		PEN2303	DIGITAL ENTREPRENEURSHIP	IPT MODULE	3	NONE
		TSE2504	PROGRAMMING IN PYTHON	ELECTIVE MODULE	4	NONE
		TSE2454	WEB PROGRAMMING AND APPLICATION			NONE

YEAR	SEM	COURSE CODE	COURSE NAME	COURSE STATUS	CREDIT HOURS	PRE REQ
YEAR 3	SEMESTER 1	MPU2313	PENGAJIAN ISLAM	MPU MODULE	3	NONE
		MPU2333	ETIKA DAN NILAI			NONE
		TQM1013	STATISTICS	CONCENTRATION	3	NONE
		HPS2013	BASIC ORATORY	IPT MODULE	3	NONE
YEAR 3	SEMESTER 2	MPU2412	KHIDMAT MASYARAKAT 1	MPU MODULE	2	NONE
		MPU2422	PENGURUSAN MASJID			NONE
		MPU2432	SPORT EVENT MANAGEMENT 1			NONE
		TTS3293	IT PROJECT	CORE MODULE	3	NONE
		TNW3153	CISCO DISCOVERY 4	CONCENTRATION	3	TNW3143
		TNW3103	WIRELESS NETWORK	ELECTIVE MODULE	3	NONE
		TNW3183	BASH PROGRAMMING			TNW2163
		TNW3023	COMPUTER NETWORK SECURITY	CONCENTRATION	3	NONE
		TTS2273	E-MARKETING	ELECTIVE MODULE	3	NONE
		TTS3113	E-COMMERCE			NONE
YEAR 3	SEMESTER 3	TTS3284	INDUSTRIAL TRAINING	INDUSTRIAL TRAINING	4	Pass all courses with minimum CGPA 2.0
GRAND TOTAL					93	
GRADUATION REQUIREMENT					93	

8.0 COURSE INFORMATION

SEMESTER 1 YEAR 1

TSE1363: FUNDAMENTALS OF PROGRAMMING

Pre-requisite: None

This course mainly focuses on the fundamentals of writing computer program, analysing simple computer problems, write the solution in the form of algorithm, and finally transfer the algorithm into executable program codes. In addition, this course also introduced the selected programming language as the basic programming tools to help student understand and experience the input and output activity and the process of producing a simple computer program. This course also introduce student with Java programming environment.

TTS1253: INTRODUCTION TO INFORMATION TECHNOLOGY

Pre-requisite: None

This subject covers the use of personal computers in terms of their hardware and software in theory and its usage through hands on. The students will be exposed to the computer hardware, such as input output devices, system unit, digital storage, communication media and its components, and internet technologies.

TTS1242: ENTERPRISE IT APPLICATION

Pre-requisite: None

This subject covers the use of personal computers in terms of their software in theory and its usage through hands on. The student will be exposed to the system and application software such as windows operating system, word processor, spreadsheet, presentation software and database software.

HES1013: ENGLISH SKILLS 1

Pre-requisite: None

This course is designed to develop students' basic English vocabulary and communicative ability which is also to prepare their readiness in future English courses. Students are exposed with two main English language skills; Speaking and Writing while Basic grammar skills are integrated inductively throughout the lessons. This course is also aimed to provide students with the opportunity to improve their command of English besides building their confidence in conversing in the language.

TNW2033: DATA COMMUNICATION CONCEPT

Pre-requisite: None

This course exposes fundamental concepts in a manner that discusses the components of data communication, the hardware and distributed processing/computer networking. The subject also covers wider technologies available in data communication, mechanism underlying telecommunications and networking.

TNW2053: CISCO DISCOVERY 1

Pre-requisite: None

This course introduces the architecture, structure, functions, components, and models of the Internet and other computer networks. The principles and structure of IP addressing and the fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum.

SEMESTER 1 YEAR 2

TCS1063: COMPUTER ORGANISATION AND ARCHITECTURE

Pre-requisite: None

This course explain about the introduction to basic computer architecture, numbering system, logic circuit design processing unit, computer memory system, input and output, and parallel processing. Its purpose is to present, as clearly and completely possible, the nature and characteristics of modern-day computer systems. Throughout this subject, aspects of the system are viewed from the points of view of both architecture and organization.

MPU2213: BAHASA KEBANGSAAN A

Pre-requisite: None

Kursus ini mencakupi pengenalan kepada bahasa Melayu, prinsip sebutan dan intonasi, sistem ejaan dan tatabahasa Melayu, prinsip pengucapan awam, kepelbagaian teks, prosa, puisi dan penulisan teks atau wacana sama ada berformat atau tidak berformat.

MPU2223: STUDY SKILLS

Pre-requisite: None

Study Skills is designed to help students improve their study skills and develop their ability to use it. This subject is also geared to provide the students with the awareness on the knowledge and tools that the students need in order to build the skills for lifelong learning. In addition, it will guide the students in understanding what they can do to be a more efficient and effective learner. The learning strategies taught in this course are meant to be used for learning tasks in class, work and in their personal lives.

MPU2233: PENGUCAPAN AWAM

Pre-requisite: None

Pengucapan awam merupakan seni menyampaikan mesej secara lisan daripada pengucap (sumber) kepada pendengar (audien) dalam keadaan bersemuka. Kursus ini bertujuan mendedahkan kepada pelajar tentang pengucapan awam yang merangkumi kemahiran, strategi dan pengaplikasian dalam khalayak awam dengan lebih berkesan. Kemahiran berucap membolehkan pelajar mampu untuk berucap dalam pelbagai situasi. Strategi dalam pengucapan awam membolehkan pelajar melaksanakan melalui penyediaan ucapan serta mampu mengatasi halangan yang wujud. Dari segi pengaplikasian, pelajar berkeupayaan mewujudkan komunikasi yang baik dan berkesan pada masa hadapan.

MPU2243: HUMAN COMMUNICATION

Pre-requisite: None

This course is offered to gain students understanding with the types of human communication, how it occurs, the skills in interpersonal communication, communication in a small group as well as in the organization. Students also will learn basic on how to manage conflicts in the organization and group.

MPU2253: KEMAHIRAN MENULIS

Pre-requisite: None

Kursus ini ditawarkan kepada pelajar sebagai subjek elektif. Secara umumnya kursus ini merangkumi pengenalan kepada penulisan, proses asas penulisan, jenis-jenis penulisan dan penulisan dalam laman blog.

MPU2163: PENGAJIAN MALAYSIA 2

Pre-requisite: None

Kursus ini menghuraikan tentang warganegara Malaysia yang berwawasan dan mampu menghadapi cabaran ke arah mencapai kesejahteraan hidup serta dapat menghayati peranan Malaysia di peringkat antarabangsa. Kursus ini memberi penghayatan tentang sejarah dan politik, perlembagaan Malaysia, kemasyarakatan dan perpaduan, pembangunan negara dan isu-isu keprihatinan negara juga mendedahkan tentang kepentingan organisasi MARA dalam pembangunan negara.

MPU2133: BAHASA MELAYU KOMUNIKASI 1

Pre-requisite: None

Kursus ini ditawarkan kepada pelajar luar negara bagi membantu mereka dalam aspek berkomunikasi. Ia lebih menekankan kaedah penggunaan bahasa yang mudah serta dapat membantu dalam aktiviti kehidupan harian mereka. Pelajar juga akan dapat menggunakannya untuk membuat rujukan bahan-bahan akademik dalam bahasa Melayu.

SEMESTER 2 YEAR 2

TCS2073: OPERATING SYSTEMS

Pre-requisite: None

This module is intended to provide students with the concepts of design and implementation of computer systems. It explains what operating systems are and what they do. It also introduces to the students the issues and techniques of resources management and protection, and shows how computer system manages processor, memory and secondary storage to be used by the process in an efficient manner.

HES1023: ENGLISH SKILLS 2

Pre-requisite: HES1013

The course provides students with general capacity to a level that enables them to use English in their social and professional environment. Students are also expected to focus on understanding any kind of reading materials through the listening activities conducted. This course is also to develop students' general capacity to a level that enables them to use English in social and professional situations.

TDM1023: COMPUTING MATHEMATICS

Pre-requisite: None

This course introduces the basic discrete mathematics that is required in the contemporary aspects of computing. The topics covered are set theory, fundamental principles of counting, relation and function, digraph, logic, mathematical induction and recursion.

TTS2213: DATABASE CONCEPTS

Pre-requisite: None

This course provides an intermediate level of knowledge into how database concepts are used commercially. It provides an introductory study of database theory, design and management.

TNW2163: SYSTEM ADMINISTRATION 1

Pre-requisite: None

This course introduce Linux command and basic system administration. It will use Debian distribution as the teaching tools.

TNW2073: CISCO DISCOVERY 2

Pre-requisite: TNW2053

This course provide information for small network architecture, components, and operations of routers and switches. It also gives the student skills in configuring and troubleshooting router and switches.

SEMESTER 3 YEAR 2

TSE2463: OBJECT ORIENTED SYSTEMS ANALYSIS AND DESIGN

Pre-requisite: None

This course starts with the description about system requirements organization types such as how information can be organized at the stage of system analysis. Further system analysis and design is described according to an analysis of system application and construction of system model based on use-cases. Diagrams in UML language are constructed during system analysis and design. Construction of systems model diagram is supported by any system modeling tool.

TNW2173: SYSTEM ADMINISTRATION 2

Pre-requisite: TNW2163

This course is use to teach the students in installing, configuring, and troubleshooting common Linux Server services. Debian Distro will be use as the teaching tool.

TNW3143: CISCO DISCOVERY 3

Pre-requisite: TNW2073

This course describes the architecture, components, and operations of routers and switches in a larger and more complex network. Students learn how to configure routers and switches for advanced functionality.

TSE2443: OBJECT ORIENTED PROGRAMMING

Pre-requisite: None

This course aims to introduce students with the basic concepts of object-oriented programming and develop students' algorithmic problem solving skills. It emphasizes a deeper understanding of object-oriented program design and implementation, advanced features of object-orientation such as inheritance, polymorphism, abstract classes, inheritance, Graphical User Interface (GUI) and file input/output.

PEN2303: DIGITAL ENTREPRENEURSHIP

Pre-requisite: None

This subject will expose the students with knowledge of entrepreneurship environment such as the evolution of entrepreneurship, the characteristics of successful entrepreneurship and the types of new business venture. This subject will also provide students with the knowledge on how to prepare a business plan and how to demonstrate their business idea. Students will learn basic areas which are related to entrepreneurship environment such as management, marketing, operation or production, business support system, human resource management and accounting. It also requires students to do research, analysis and consultation with their respective lecturers in preparing the business plan. Students also are required to demonstrate their business plan idea in group.

TSE2504: PROGRAMMING IN PYTHON

Pre-requisite: None

This course introduces computer programming in Python. Students will solve programming problems using procedural programming constructs such as loop, branching structures, and functions. Student will write programs that are testable and maintainable (using good programming style, naming conventions, and comments).

TSE2454: WEB PROGRAMMING AND APPLICATION

Pre-requisite: None

This course will guide students to use hypertext mark-up language (HTML), Java Script, Cascading Style Sheet (CSS), graphical web authoring tools, HyperText Pre Processor (PHP) language and MySQL database to create a dynamic web page and online database application.

SEMESTER 1 YEAR 3

MPU2313: PENGAJIAN ISLAM

Pre-requisite: None

Kursus ini merupakan antara mata pelajaran umum yang disyaratkan oleh Kementerian Pengajian Tinggi. Kursus ini merangkumi empat bahagian iaitu;

- A. Islam dan Konsep-konsep Asas.
- B. Islam Sebagai Peradaban dan Tamadun.
- C. Institusi-institusi yang terdapat di dalam Islam
- D. Islam dan Cabaran Semasa.

Selain itu, subjek ini memberi penerangan kepada pelajar mengenai tasawwur Islam secara tepat yang menyumbang kepada pembangunan ummah. Ia juga menghuraikan keupayaan Islam dalam menangani pelbagai cabaran yang dihadapi oleh masyarakat Malaysia.

MPU2333: ETIKA DAN NILAI

Pre-requisite: None

Pendidikan Etika dan Nilai ini disediakan untuk melahirkan warganegara yang faham taswuur (konsep) Islam sebagai satu cara hidup yang bersepadu dan seimbang serta berupaya menghadapi pelbagai masalah dan cabaran. Perbincangan berasaskan kepada konsep-konsep asas Islam, Islam sebagai cara hidup, institusi Islam dan cabaran semasa. Pengajaran dan pembelajaran akan dilaksanakan dalam bentuk kuliah, tugas, peperiksaan, pengalaman pembelajaran atau pembelajaran berasaskan masalah. Kursus ini bertujuan untuk menerapkan nilai-nilai moral, pengertian, teori dan sistem nilai, nilai-nilai moral dalam setiap agama, nilai kebangsaan dan patriotisme, nilai-nilai korporat dan isu-isu berkaitan etika dan nilai (keganasan, perkauman, diskriminasi, seksual, gejala media sosial dan penyalahgunaan dadah).

TQM1013: STATISTICS

Pre-requisite: None

A course designed to emphasize the basic concept of statistics and probability. Topics include descriptive statistics, data presentation, correlation, regression, probability, probability distribution, sampling distribution, estimation and hypothesis testing.

HPS2013: BASIC ORATORY

Pre-requisite: None

This course is a platform to develop an awareness of the different types of speeches and students' competency in public speaking.

SEMESTER 2 YEAR 3

MPU2412: KHIDMAT MASYARAKAT 1

Pre-requisite: None

Modul ini memberi peluang kepada pelajar untuk memahami kursus khidmat masyarakat berdasarkan pengalaman praktikal bersama masyarakat setempat dengan melibatkan bersama agensi sukarelawan. Di akhir kursus ini pelajar memperoleh kecekapan dalam mengurus sesuatu program kemasyarakatan melalui kemahiran insaniah seperti menyelesaikan masalah dan kerjasama dalam kumpulan.

MPU2422: PENGURUSAN MASJID

Pre-requisite: NONE

Kursus ini memberi peluang kepada pelajar memahami secara mendalam peranan dan fungsi institusi masjid di samping memberi pendedahan kepada pelajar tentang peranan dan etika kerjaya pentadbiran institusi tersebut melalui aktiviti yang dijalankan.

MPU2432: SPORTS EVENT MANAGEMENT 1

Pre-requisite: None

The course introduces students to sports event management and focuses on the details required when planning a specific sports event. Emphasis is placed on the planning of events, beginning with research into selecting the right event, event themes, site selection, task and responsibility checklists, organizational committee structures, budgeting, advertising and promotion, and event administration.

TTS3293: IT PROJECT

Pre-requisite: None

This module requires students to develop an application such as system, application or networking task under the supervision of academic supervisor. The end product and final report will be presented and evaluated. It gives an opportunity to demonstrate original thinking in identifying, creating, designing, testing, implementing and producing documentation of a computer-based project.

TNW3153: CISCO DISCOVERY 4

Pre-requisite: TNW3143

This course discusses the WAN technologies and network services required by converged applications in a complex network.

TNW3103: WIRELESS NETWORK

Pre-requisite: None

Introduce the students to wireless LAN RF, functions of wireless LAN components in term of knowledge and practical skills. In addition, the students will also identify security issues and solutions involved in wireless LAN.

TNW3183 BASH PROGRAMMING

Pre-requisite: TNW2163

This course will teach the students on how to develop Linux bash scripts as a tool to aid in system administration.

TNW3023: COMPUTER NETWORK SECURITY

Pre-requisite: None

In this course, students will learn the basic concept in computer and network security, type of threat and necessary control measure to overcome these threats.

TTS2273: E-MARKETING

Pre-requisite: None

The course is designed to expose the fundamentals, practical and managerial approach of e-marketing. It gives students a comprehensive, innovative, managerial and practical introduction to e-marketing so that the students will become skilled and manageable.

TTS3113: E-COMMERCE

Pre-requisite: None

This course covers the role of e-commerce and its related issues in classification, business models, infrastructure, security and payment. This subject also gives exposure how to participate in e-commerce transaction.

SEMESTER 3 YEAR 3

TTS3284: INDUSTRIAL TRAINING

Pre-requisite: Passes all courses with minimum CGPA 2.0

This course covers the role of e-commerce and its related issues in classification, business models, infrastructure, security and payment. This subject also gives exposure how to participate in e-commerce transaction.

9.0 KPTM TOP MANAGEMENT GROUP

En Nordin Bin Ahmad
Chief Executive Officer

En Abdul Azmi Bin Abdul Aziz
Vice President of Academic

Assoc. Prof. Dr. Darulihzan Bin Abdul Hamid
Vice Chancellor
KUPTM Kuala Lumpur

En Mohamed Saifuddin Bin Hussin
Senior Director
Corporate Planning Department

En Mohd Sahidi Bin Yaakob
Senior Director Human Resources Department and
Acting as Vice President of Student Affairs

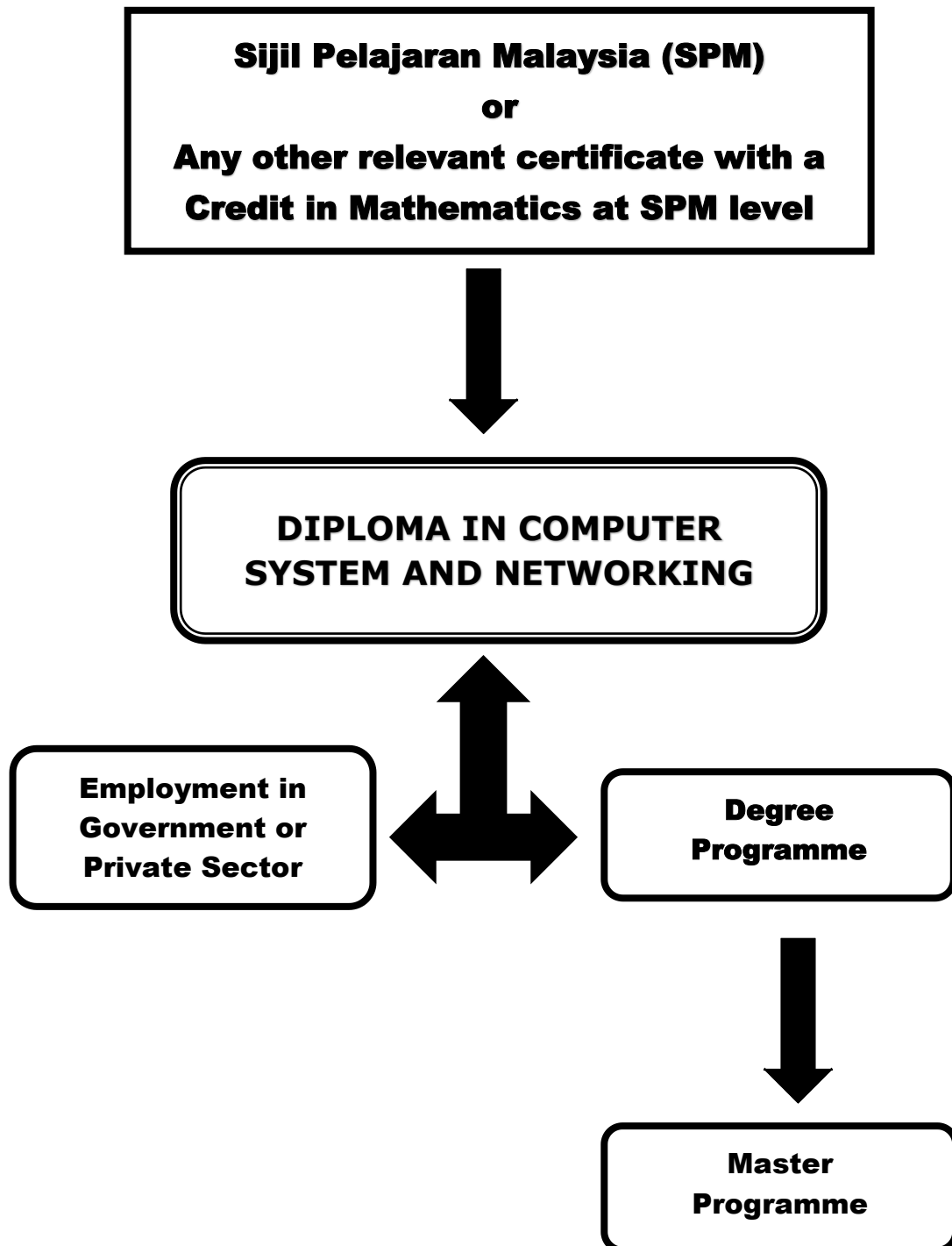
Pn Azlina Bt Yusof
Senior Director
Finance Department

En Zaidi Bin Zakaria
Senior Director
Logistic and Asset Department

En Mohd Asri Bin Mohammad
Director
Information Technology Department

Pn Noorizan Binti Noordin
Director
Department For Continuing Education

10.0 STUDY PATH



11.0 KPTM SONG

KPTM GEMILANG

*Kepada negara, kita curahkan bakti setia
Putra putrinya tekad menjunjung obor ilmu
Taat agama, kaya bangsanya berdaulat
MARA ke arah matlamat negara yang maju*

*Sehati dan sejiwa
Menuju puncak jayanya
Bangsaku gemilang*

*Di mana ku berada
Namamukan tersemat dijiwa
Penuh rasa bangga*

*Kepada negara, kita curahkan bakti setia
Putra putrinya tekad menjunjung obor ilmu
Taat agama, kaya bangsanya berdaulat
MARA ke arah matlamat negara yang maju*

*Semangat nan membara
Obor ilmu dinyala
untuk menyuluh dunia.*

*Di mana ku berada
Namamukan tersemat dijiwa
Penuh rasa bangga*

*Dengan cogan kata
Amanah, Teguh dan Dirahmati
Seia sekata
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