

## **SYNOPSIS PROGRAMME DIPLOMA IN DIGITAL TECHNOLOGY**

This programme provides education and training in computing field with a specific emphasis on Information Technology area. The courses offered is grouped into modules such as Platform Technologies, Computing Foundation, Programming Essentials, Computing Foundation, Industry-Led modules and Industry Domain Cluster, which are referred to specific task. Domain cluster that offered in Politeknik METrO Kuala Lumpur is Game Development. The courses offered provide opportunities for students to get into a broad range of careers in a variety of ICT sectors. This programme also provides the students with transferable skills and multiskilling which enable them to adapt and adopt to new technologies.

## **PROGRAMME EDUCATIONAL OBJECTIVES**

The Diploma in Digital Technology programme shall produce semi-professionals who are:

1. Possess relevant knowledge, skills and aptitude to meet job specifications, organisational and system needs;
2. Utilise current computing tools and techniques by applying knowledge and interpreting information to solve problems, can execute and be responsible for routine tasks;
3. Possess effective communication skills to convey information, problems and solutions;
4. Possess team and interpersonal skills, and are aware of their social and ethical responsibilities; and
5. Possess skills for lifelong learning and career development.

## **JOB PROSPECT**

ICT manpower demand is expected to have a strong growth recently based on the research done by Malaysia Digital Economy Corporation (MDEC). The rapid development in ICT has raised the demand for qualified IT graduates that meet the industry needs and requirements for both locally and globally. The knowledge and skills that the students acquire from the programme will enable them to participate in the job market such as:

1. Computer Application Programmer
2. Internet Programmer
3. Web Programmer
4. Database Programmer
5. System Analysts Assistant
6. Software Developer
7. Database Administrator
8. Software Tester
9. System Support Personnel
10. Systems Programmer
11. Network Support Personnel
12. Network Administrator
13. IT Supporting Engineer
14. Assistant Network Engineer
15. Technical Helpdesk / Support.

PROGRAMME STRUCTURE (BY SEMESTER) FOR DIPLOMA IN DIGITAL TECHNOLOGY				
SEMESTER	COURSE CODE AND COURSE		COURSE	CREDIT
SEMESTER 1	DFC 1033	Introduction to Computer System	Common Core	3
	DFC 2053	Computer System Architecture	Common Core	3
	DFC 1042	Problem Solving and Program Design	Common Core	2
	DFC 2073	Programming Fundamentals	Common Core	3
	DBM 1033	Mathematical Computing	Common Core	3
	MPU1012	Pengajian Malaysia	Compulsory	2
	DFT 1012	Inventive Problem Solving	Specialisation	2
			<b>TOTAL</b>	<b>18</b>
SEMESTER 2 (SHORT SEM)	MPU 2011	Ko-Kurikulum 1	Compulsory	1
	MPU 3012	Ko-Kurikulum 2	Compulsory	2
	DFC 2083	Database Design	Common Core	3
	DFC 3043	System Analysis and Design	Common Core	3
			<b>TOTAL</b>	<b>9</b>
SEMESTER 3	DFC 2063	Operating System	Common Core	3
	DFC 3023	Introduction to Networks	Common Core	3
	DFT 4013	Security Basics and IT Professional	Specialisation	3
	DBM 2033	Discrete Mathematics	Common Core	3
	DFC 3033	Data Structures	Common Core	3
	DFT 4024	Object Oriented Programming	Specialisation	4
			<b>TOTAL</b>	<b>19</b>
SEMESTER 4	MPU 4013	English for Digital Technology	Compulsory	3
	DFT 3013	Web Design Technologies	Specialisation	3
	DFT 3023	Digital Multimedia	Specialisation	3
		Elective 1	Electives	3
		Elective 2	Electives	3
		Elective 3	Electives	3
			<b>TOTAL</b>	<b>18</b>
SEMESTER 5 (SHORT SEM)	DFT 5013	Cyberpreneurship	Specialisation	3
	MPU 2012/ 2022	Pengajian Islam/ Pendidikan Moral	Compulsory	2
		Elective 4	Electives	3
			<b>TOTAL</b>	<b>8</b>
SEMESTER 6	DFT 6014	Integrated Project	Specialisation	4
		Elective 5	Electives	3
		Elective 6	Electives	3
		Elective 7	Electives	3
			<b>TOTAL</b>	<b>13</b>
SEMESTER 7	DUT 7019	Internship	Industrial Training	9
			<b>TOTAL</b>	<b>9</b>