POLITEKNIK MALAYSIA
NILAI

Student Handbook

PROGRAMME DIPLOMA IN LANDSCAPE HORTICULTURE TECHNOLOGY (DHL)

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Introduction

Diploma in Landscape Horticulture Technology (DHL) is designed to provide students with opportunities to learn basic horticulture science, landscape design and develop valuable applied skills through hands on learnings. It also prepares students for their future role as landscape horticulturists. This programme focuses on the development and management of landscape areas which deal with plants production, landscape design, installation, maintenance, and management. This programme also introduces emerging technologies used in landscape horticulture field such as IR 4.0, Internet of Things (IOT), 3D software, Artificial Intelligence (AI), Global Positioning System (GPS), Geographical Information System (GIS) to promotes the use of blue-green infrastructure, community well-being through urban farming and sustainable landscape design. This is in line with the mandate of the United Nations in Malaysia is to help the country in its vision of achieving developed nation status via the 2030 Agenda, which aims towards balances economic growth with social inclusion and environmental sustainability, based on solid institutional foundations, conditions for peaceful societies and the realization of human rights. This programme was designed to develop new generations that expert in landscape horticulture field to boost the country towards a total quality living environment, as well as accentuate Malaysia's unique landscape identity.

Synopsis

Diploma in Landscape Horticulture Technology (DHL) is a full-time programme that consists of 5 academic semesters and a semester for industrial training. This programme is designed to cover the wide discipline of landscape horticulture, with specialisation in Horticulture, Plant Production, Landscape Design, Landscape Technology, Landscape Installation and Landscape Management. The knowledge and skills coverage of the landscape horticulture field would provide graduates with a wide range of employment opportunities as well as the ability to become job creators.

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Job Prospect

The knowledge and skills acquired by the students from the programme will enable them to participate in the latest related job market demands that provide landscape design, construction and maintenance services, as well as garden centres, nurseries, golf courses and urban parks and public works departments. The knowledge and skills that the students acquire from the programme will enable them to participate in the job market as:-

- *Landscape Site Supervisor*
- *Landscape Contractor*
- *Nursery Supervisor*
- *Entrepreneur*
- *Assistant Landscape Architect*
- **Assistant Agriculture Officer**
- **Assistant Researcher Officer**
- **Assistant Project Manager**
- **Arborist**
- **Golf Superintendent**















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Vision

- To be the Leading-Edge TVET Institution

Mission

- To provide wide access to quality and recognised TVET programmes.
- To empower communities through lifelong learning.
- To develop holistic, entrepreneurial and balanced graduates.
- To capitalise on smart partnership with stakeholders.

Educational Goal

- To produce holistic and competent TVET graduates capable of contributing to national development.

Programme Aim

- This program aims to produce an innovative, responsible, and competent landscape horticulturist in supporting the country's aspiration of enhancing environment quality towards Malaysia Beautiful Garden Nation.

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Programme Educational Objectives (PEO)

Diploma in Landscape Horticulture Technology should produce balance Professional Landscape Horticulturist who:

PEO 1 apply fundamental knowledge, understanding and technical skills of landscape horticulture in identifying issues and assisting to provide solution in landscape horticulture field.

PEO 2 integrate values, attitudes, professionalism and social skills in engaging with society and stakeholder in landscape horticulture field.

PEO 3 alternately adopt the roles of a leader and a team member, and communicate effectively in assisting to solve creative solutions for landscape horticulture challenges in community

PEO 4 engaged in landscape horticulture activities to embark entrepreneurial skills for career advancement and innovatively assist to manage resources and information.

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Programme Learning Outcomes (PLO)

Upon completion of this programme, students should be able to:

PLO 1 possess relevant knowledge of technology fundamentals on well-defined procedures and practices in the field of landscape horticulture.

PLO 2 propose and employ current tools and techniques to resolve well-defined problems in the field of landscape horticulture.

PLO 3 establish investigative and significant thinking abilities to resolve well-defined problems in the field of landscape horticulture.

PLO 4 communicate and clearly explain several viewpoints for social, academic, and professional purposes.

PLO 5 illustrate the understanding of the issues related to the society and the subsequent responsibilities appropriate to the extended well-defined technology practices.

PLO 6 acknowledge the requirement of career establishment and to employ independent continuing learning in specialised technical knowledge.

PLO 7 illustrate a consciousness of management and technopreneurship routine of real perspective.

PLO 8 illustrate ethical awareness and professionalism.

PLO 9 illustrate leadership character and work efficiently in diverse technical team.

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Programme Structure

COURSE CODE	COURSE NAME	CREDIT HOURS	PREREQUISITE/ CO-REQUISITE
SEMESTER 1			
MPU21072	Penghayatan Etika dan Peradaban	2	
MPU24031	Sukan 1	1	
MPU24041	Kelab / Persatuan 1		
MPU24XX1	Unit Beruniform 1		
DUE10112	Communicative English 1	2	
DUW10032	Occupational, Safety and Health	2	
DBM10213	Mathematics for Technology	3	
DYL10322	Plant Science	2	
DYL10332	Introduction To Landscape Horticulture	2	
DYL10343	Landscape Graphic	3	
	TOTAL	**17**	
SEMESTER 2			
MPU23182	Sains, Teknologi dan Keiureteraan Dalam Islam*	2	
MPU23172	Nilai Masyarakat Malaysia**		
MPU24051	Sukan 2	1	MPU24031
MPU24061	Kelab / Persatuan 2		MPU24041
MPU24XX1	Unit Beruniform 2		MPU24XX1
MPU22071	Kursus Integriti dan Anti Rasuah	1	
DYA10243	Soil Science	3	
DYL20353	Nursery Management	3	
DYL20363	Plant Identification	3	
DYL20373	Landscape Computer Graphic	3	
	TOTAL	**16**	
SEMESTER 3			
MPU22062	Entrepreneurship	2	
DUE30122	Communicative English 2	2	
DYL30382	Turf Management	2	
DYL30393	Plant Health Care	3	
DYL30403	Basic Landscape Design	3	DYL10343
DYL30414	Landscape Construction and Installation	4	
	TOTAL	**16**	

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Programme Structure

SEMESTER 4			
DUG30032	Green Technolay Compliance	2	
DYL40423	Landscape Design	3	DYL30403
DYL40433	Project Proposal	3	
DYL40443	Landscape Technology	3	
DYL40454	Landscape Maintenance	4	
	Elective 1	2	
	TOTAL	**17**	
SEMESTER 5			
DUE50132	Communicative English 3	2	
DYL50483	Arboriculture	3	
DYL50493	Landscape Project Management	3	
DYL50505	Landscape Horticulture Project	5	DYL40433
	Elective 2	2	
	TOTAL	**15**	
SEMESTER 6			
DUT600710	Industrial Training	10	
	TOTAL	**10**	
	TOTAL CREDIT HOURS	**91**	

ELECTIVES			
DYL40462	Photography	2	
DYL40472	Professional Practice & Ethics	2	
DYL50512	Floriculture	2	
DYL50522	Integrated Aquascape	2	
DYL50532	Urban Horticulture Technology	2	
FREE ELECTIVES			
DUD10012	Design Thinking	2	

COURSE WITH PREREQUISITE	
COURSE CODE	**PREREQUISITE COURSE CODE**
MPU24051 (SEMESTER 2)	MPU24031 (SEMESTER 1)
MPU24061 (SEMESTER 2)	MPU24041 (SEMESTER 1)
MPU24XX1 (SEMESTER 2)	MPU24XX1 (SEMESTER 1)
DYL30403 (SEMESTER 3)	DYL10343 (SEMESTER 1)
DYL40423 (SEMESTER 4)	DYL30403 (SEMESTER 3)
DYL50505 (SEMESTER 5)	DYL40433 (SEMESTER 4)