

# *Student Handbook*

## **PROGRAMME**

### **DIPLOMA IN LANDSCAPE**

### **HORTICULTURE TECHNOLOGY**

### **(DHL)**



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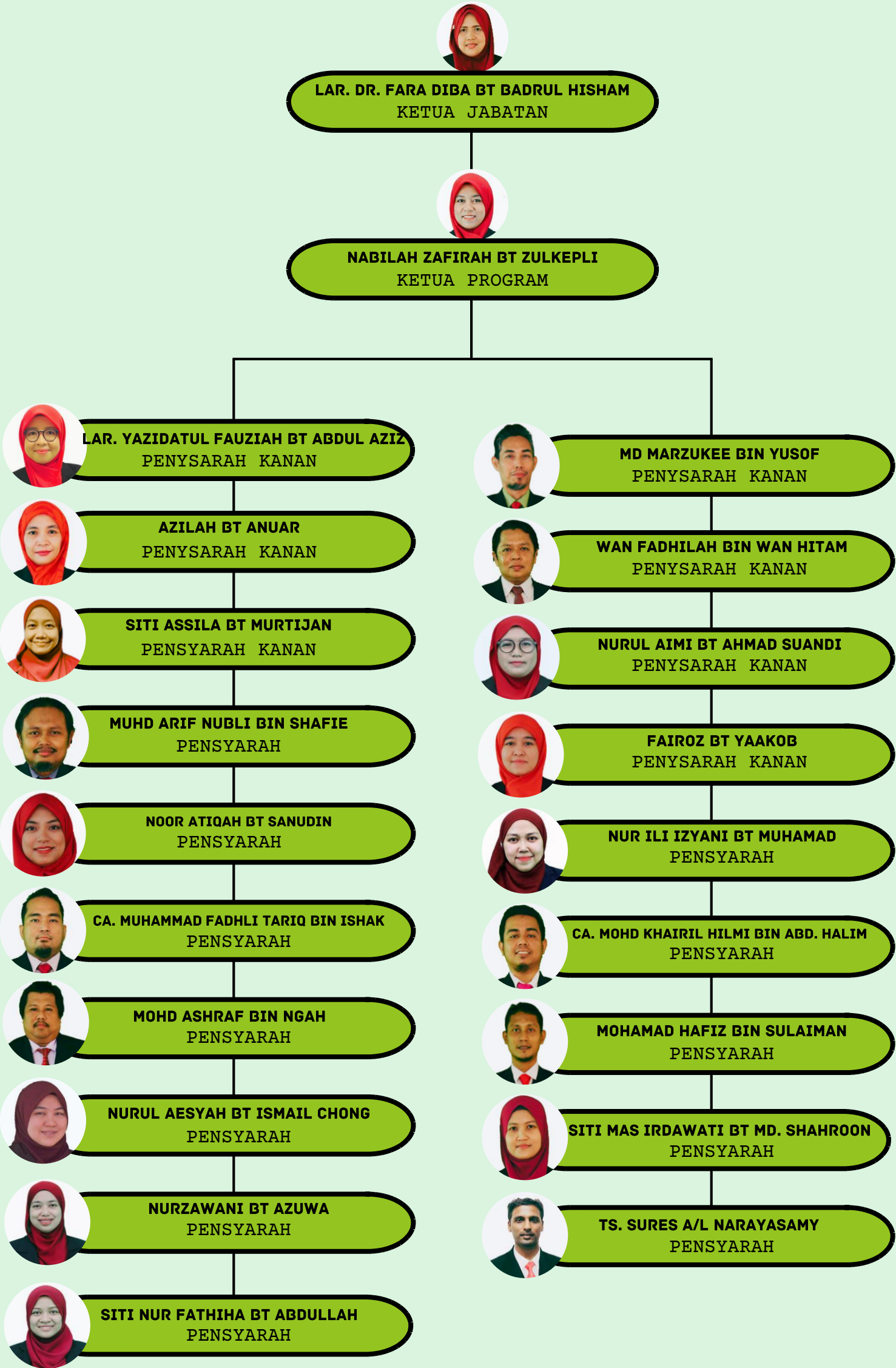


Kompleks Pendidikan Bandar Enstek, 71760 Bandar Enstek Negeri Sembilan





# Organisation Chart



# Introduction

**D**iploma 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.



# 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***





# 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.

# Programme Educational Objectives (PEO)

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

**PE01**

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

**PE02**

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

**PE03**










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

**PE04**

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

# Programme Learning Outcomes (PLO)

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

-  possess relevant knowledge of technology fundamentals on well-defined procedures and practices in the field of landscape horticulture.
-  propose and employ current tools and techniques to resolve well-defined problems in the field of landscape horticulture.
-  establish investigative and significant thinking abilities to resolve well-defined problems in the field of landscape horticulture.
-  communicate and clearly explain several viewpoints for social, academic, and professional purposes.
-  illustrate the understanding of the issues related to the society and the subsequent responsibilities appropriate to the extended well-defined technology practices.
-  acknowledge the requirement of career establishment and to employ independent continuing learning in specialised technical knowledge.
-  illustrate a consciousness of management and technopreneurship routine of real perspective.
-  illustrate ethical awareness and professionalism.
-  illustrate leadership character and work efficiently in diverse technical team.

# Programme Structure

| CODE              | COURSE NAME                                   | CREDIT    |
|-------------------|---|-----------|
| <b>SEMESTER 1</b> |   |           |
| MPU21072          | Penghayatan Etika dan Peradaban               | 2         |
| MPU24031          | Sukan 1                                       | 1         |
| MPU24041          | Kelab / Persatuan 1                           | 1         |
| MPU24XX1          | Unit Beruniform 1                             | 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         |
| <b>TOTAL</b>      |   | <b>17</b> |
| <b>SEMESTER 2</b> |   |           |
| MPU23182          | Sains, Teknologi dan Kejureteraan Dalam Islam | 2         |
| MPU23172          | Nilai Masyarakat Malaysia                     | 2         |
| MPU24051          | Sukan 2                                       | 1         |
| MPU24061          | Kelab / Persatuan 2                           | 1         |
| MPU24XX1          | Unit Beruniform 2                             | 1         |
| MPU22071          | Kursus Integriti dan Anti Rasuah              | 1         |
| DYA10243          | Soil Science                                  | 3         |
| DYL20353          | Nursery Operation                             | 3         |
| DYL20363          | Plant Identification                          | 3         |
| DYL20373          | Landscape Computer Graphic                    | 3         |
| <b>TOTAL</b>      |   | <b>16</b> |
| <b>SEMESTER 3</b> |   |           |
| MPU22062          | Entrepreneurship                              | 2         |
| DUE30122          | Communicative English 2                       | 2         |
| DYL30382          | Turf Management                               | 2         |
| DYL30393          | Plant Health Care                             | 3         |
| DYL30403          | Basic Landscape Design                        | 3         |
| DYL30414          | Landscape Construction and Installation       | 4         |
| <b>TOTAL</b>      |   | <b>16</b> |



# Programme Structure

| SEMESTER 4         |                                |    |
|--------------------|--------------------------------|----|
| DUG30032           | Green Technolgy Compliance     | 2  |
| DYL40423           | Landscape Design               | 3  |
| 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  |
|                    | 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) |