

HIGHER NITEC IN LANDSCAPE MANAGEMENT & DESIGN

CERTIFICATION

Credits required for certification:

Core Modules	: 51
Life Skills Modules	: 9
Elective Modules	: 6
<u>Total</u>	<u>: 66</u>

COURSE STRUCTURE

Module Title	Credits
CORE MODULES	
Nursery Production	7
Arboriculture Operations	7
Sports Turf Operations	7
Landscape Operations	7
Landscape Design and Skyrise Greenery	8
Horticulture Sciences and Parks Practices	7
Industry Attachment	8
ELECTIVES (COURSE SPECIFIC)	
Elementary Land Surveying	3
Introduction to Urban Farming	3
Landscape Project Management	3
ELECTIVES (INTER-DISCIPLINARY)	
Water Efficiency in Building	2
Green Building Technology	2
ELECTIVES (GENERAL) AND LIFE SKILLS MODULES	
For details, click here	

Note: The offer of electives is subject to the training schedule of respective ITE Colleges. Students are advised to check with their Class Advisors on the availability of the elective modules they intend to pursue.

MODULE OBJECTIVES

Core Modules

Nursery Production

On completion of the module, students should be able to perform management and maintenance works in a plant production nursery. They should also be able to perform tasks such as re-potting, propagation, harvesting, and maintenance of nursery facilities and customer service. In addition, students should be able to perform identification of plant pests and diseases.

Arboriculture Operations

On completion of the module, students should be able to perform basic tree structural safety inspection and tree health inspection. They should be able to assist in the supervision of tree maintenance works including planting, transplanting, pruning, removal, selection, establishment and the implementation of maintenance plan for arboriculture equipment and tools.

Sports Turf Operations

On completion of the module, students should be able to supervise the installation, maintenance and first line troubleshooting of drainage and irrigation systems in turf areas on golf courses and sports turf. They should also be able to perform integrated pest management program including pests, diseases, disorders and soil analysis. In addition, they should be able to identify the appropriate materials, tools and equipment for turf maintenance, and supervise the implementation of turf nutrition plan and maintenance plan for common turf areas.

Landscape Operations

On completion of the module, students should be able to supervise the maintenance and implementation of various landscape operations including softscapes, landscape features and facilities. In addition, they should be able to supervise the operation and maintenance of basic landscape machinery and equipment.

Landscape Design and Skyrise Greenery

On completion of the module, students should be able to assist in designing sustainable, themed and cultural landscapes with spatial planning, and prepare site layout. In addition, students should be able assist in designing, managing, installation and maintenance of skyrise greenery.

Horticulture Sciences and Parks Practices

On completion of the module, students should be able to apply the fundamental knowledge of plant anatomy, morphology, taxonomy and nutrition, and soil science to analyse and identify the common plant healthcare issues. Students should be able to supervise the implementation of sustainable horticulture practices, suitable soil amendments, plant healthcare and integrated pest management plans in accordance to horticulture and landscape industry requirements. In addition, students should be able to assist in the managing of Parks recreation, events and visitor-ship, and supervise the implementation of Parks maintenance contracts.

Industry Attachment

Students will undergo 6 months of internship training in landscaping construction and maintenance companies to reinforce the skills and knowledge acquired at the training institute and to develop competencies in other specialised areas.

Electives (Course Specific)

Elementary Land Surveying

On completion of the module, students should be able to perform a site survey using basic surveying equipment. Students will be able to set up and use the surveying equipment, conduct a closed survey and verify basic survey plan to incorporate levels and contours according to landscape specifications.

Introduction to Urban Farming

On completion of the module, students should be able to perform basic urban farming techniques to achieve sustainable farming outcome, Students will be able to set up urban farming systems using different medium such as water based and soil-based system, incorporating technology, such as use of LED lightings to enhance the photosynthesis of crops for indoor setting.

Electives (Inter-disciplinary)

Water Efficiency in Building

On completion of the module, students should be able to conduct water audit and apply water efficiency measures to reduce water consumption in commercial/residential buildings.

Green Building Technology

On completion of the module, students would be equipped with the fundamental skills and knowledge of green building technologies and design, and incorporate environment-friendly features in building facility design.

Landscape Project Management

On completion of the module, students should be able to manage landscape contracts, interpret contract specifications and drawings, assist in the implementation of procurement plans, supervise environmental control measures and verify as-built drawings on site in accordance with local industry standards, regulations and codes of practice.

Electives (General) and Life Skills Modules

For details, click [here](#).