

## NITEC IN URBAN GREENERY & LANDSCAPE

### CERTIFICATION

Credits required for certification:

Core Modules	: 45
Life Skills Modules	: 9
Elective Modules	: 4
<u>Total</u>	<u>: 58</u>

### COURSE STRUCTURE

Module Title	Credits
<b>CORE MODULES</b>	
Introduction to Horticulture	7
Nursery Services	6
Electrical Services	6
Arboriculture Services	6
Turf Services	6
Urban Greenery	6
Industry Attachment	8
<b>ELECTIVES (COURSE SPECIFIC)</b>	
Floral Design	2
Landscape Services	2
<b>ELECTIVES (INTER-DISCIPLINARY)</b>	
Engineering Mathematics	3
Elementary Land Surveying	3
Introduction to Urban Farming	3
<b>ELECTIVES (JOINT ITE-INDUSTRY)</b>	
Swimming Pool Maintenance	2
<b>ELECTIVES (GENERAL) AND LIFE SKILLS MODULES</b>	
For details, click <a href="#">here</a>	

*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

#### Introduction to Horticulture

On completion of the module, students should be able to perform plant identification and plant health diagnostics, recognise basic plant anatomy and morphology, and interpret work plan for landscape maintenance works.

#### Nursery Services

On completion of the module, students should be able to propagate ornamental plants in nurseries, maintain nursery facilities and worksite, coordinate nursery operations, transportation of nursery products and crop harvesting, supervise and coordinate the post-harvest operations and nursery production programme, recognise and control pests, diseases and weed, and record and update stock.

#### Electrical Services

On completion of the module, students should be able interpret electrical circuit diagrams, install conduits and trunkings, replace light fittings and accessories, rectify faults in electrical circuits, and conduct insulation resistance and continuity tests.

#### Arboriculture Services

On completion of the module, students should be able to plant, transplant, remove and prune trees and palms, perform visual tree assessment (VTA) and inspection, perform tree protection and tree health maintenance, and maintain arboriculture equipment.

#### Turf Services

On completion of the module, students should be able to supervise installation and maintenance of subsoil drainage and irrigation systems, maintain golf courses and turf, monitor turf health and repair damaged turf, maintain turf equipment, and perform a range of basic field and lab testing on soil.

#### Urban Greenery

On completion of the module, students should be able to recognise different types of urban greenery, skyline greenery and urban farming systems, landscape light fixtures and irrigation components, implement automation in landscape works, install water features, and implement irrigation system for urban landscape.

#### Industry Attachment

Students will be attached to landscape companies to reinforce the skills and knowledge acquired at ITE as well as gain professional and working experience.

### Electives (Course Specific)

#### Floral Design

On completion of the module, students should be able to identify, select, design and arrange suitable flora and fauna schemes to meet different Client's requirements during different occasions.

#### Landscape Services

On completion of the module, students should be able develop basic landscape design and landscape work plan, supervise implementation and installation of landscape structure and facilities, maintain softscape and hardscape features, maintain landscape equipment and machinery, as well as prepare and apply chemicals and fertilizer.

### Electives (Inter-disciplinary)

#### Engineering Mathematics

On completion of the module, students should be able to solve engineering problems involving indices, logarithms, algebra, graphs, trigonometry, complex numbers and basic statistics.

### 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 specification.

### 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 (Joint ITE-Industry)

#### Swimming Pool Maintenance

On completion of the module, students should be able to carry out servicing, maintenance and repair on swimming pool filtration system; and carry out water quality checks.

### Electives (General) and Life Skills Modules

For details, click [here](#).