

# HIGHER NITEC IN SECURITY SYSTEM INTEGRATION (2 YEARS)

## CERTIFICATION

Credits required for certification:

Core Modules	: 27
Specialisation Modules	: 20
Life Skills Modules	: 9
Cross Disciplinary Core Modules	: 6
Electives	: 4
<b>Total</b>	<b>: 66</b>

## COURSE STRUCTURE

Module Title	Credits
<b>CORE MODULES</b>	
Electrical & Cabling Technology	3
IoT Fundamentals	3
System Administration	3
Networking for Security System	3
CAD for Security System	3
Intrusion Detection System	3
Access Control System	3
Video Surveillance Technology	3
Video Surveillance System	3
<b>SPECIALISATION MODULES</b>	
Security System Integration	3
Project Management	3
AI for Security System	3
Cybersecurity for Physical System	3
Industry Attachment	8
<b>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

#### Electrical & Cabling Technology

On completion of the module, students should be able to set up, maintain and troubleshoot cabling systems.

#### IoT Fundamentals

On completion of the module, students should be able to configure, establish communication and process data from IoT environmental elements such as devices, nodes, gateways and cloud.

### System Administration

On completion of the module, students should be able to set up server operating systems and perform system administration tasks such as user management, resource management and performance monitoring. Students should also be able to configure file server services and implement basic system security.

### Networking for Security Systems

On completion of this module, students should be able to plan, install, configure and troubleshoot computer network system for the wired and wireless LAN environment.

### CAD for Security Systems

On completion of this module, students should be able to create, update and interpret electrical and security system installation drawings.

### Intrusion Detection System

On completion of this module, students should be able to install, maintain and troubleshoot intrusion detection systems in various security environments.

### Access Control System

On completion of this module, students should be able to install, maintain and troubleshoot access control systems in various security environments.

### Video Surveillance Technology

On completion of this module, students should be able to select, test and troubleshoot video surveillance devices.

### Video Surveillance System

On completion of this module, students should be able to set up, maintain and troubleshoot surveillance systems.

## Specialisation Modules

### Security System Integration

On completion of the module, students should be able to design and integrate a security system solution to meet customers' need and requirements.

### Project Management

On completion of the module, students should be able to plan, execute and monitor security system project using the various project management tools and techniques to meet the project scope, schedule and cost requirements.

### AI for Security Systems

On completion of the module, students should be able to apply their knowledge and skills in AI ethics and AI solution for security systems to propose and deploy the recommended AI solutions to leverage advanced analytics for physical security operations.

### Cybersecurity for Physical System

On completion of the module, students should be able to establish awareness of good practices in cybersecurity, and understanding of cybersecurity threats and vulnerabilities, utilize technologies and tools to mitigate them. The students should also be able to configure, test and troubleshoot security solutions at host and device level.

### Industry Attachment

On completion of the module, students should be able to apply and integrate the skills and knowledge that they have acquired at ITE College and develop competencies in other areas not covered in the curriculum, at the workplace.

## Life Skills Modules

For details, click [here](#).