



PROGRAMMES

6

BUILDING MANAGEMENT SYSTEMS

COMPLETE PROGRAMME GUIDE · 2026

Building Management Systems

Course Details & Career Growth Guide

Every Building Management Systems programme at IPCS Global Coimbatore in one place — full syllabus, module-by-module topics, tools, projects, certification, job roles, salary progression and next steps.

6 Programmes

1 Week to 12 Months

Syllabus + Career Growth

Placement Support

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PROGRAMMES — COURSE DETAILS & CAREER GROWTH

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IPCS Global — Since 2008

IPCS Global began in 2008 as a specialised industrial automation training and services provider and has grown into one of India's leading technical and digital skills institutes, with 50+ branches across India and the GCC. Our Coimbatore centre in Peelamedu combines classroom teaching with hands-on labs, and every learner is coached in communication, aptitude and interview readiness alongside technical skills.

18+

YEARS

15,000+

PROFESSIONALS TRAINED

50+

BRANCHES

100%

PLACEMENT ASSISTANCE

About the Building Management Systems Stream

Every modern building runs on security, fire, access and energy systems. Our BMS programmes train you to install, commission and maintain them — from a one-week CCTV course to a full one-year diploma in building automation technology.



ISO 9001:2015 Certified

Audited, consistent training quality.



TÜV SÜD Cooperation Partner

Partner of the German testing & certification body.



NSDC Approved Partner

Approved training partner under Skill India.



Inside the IPCS Global Coimbatore training centre.

Why Building Management Systems, **Why Now**

The demand behind every programme in this guide — and the industries that hire our graduates.

- 1 Smart buildings everywhere**
 Offices, hospitals, malls, IT parks, airports and apartments now install integrated security, fire, access and energy systems that need skilled installers and engineers.
- 2 Safety is mandatory**
 Fire alarm, CCTV and access control are required by building codes and insurers, creating steady demand for installation and annual maintenance.
- 3 Energy efficiency drives BMS**
 Rising power costs and green-building norms push facilities to automate HVAC, lighting and power — the core of BMS work.

Where You Can Work

- 1 Facility management companies**
- 2 Security & surveillance system integrators**
- 3 Fire & safety contractors**
- 4 Commercial real estate & IT parks**
- 5 Hospitals, hotels & airports**
- 6 HVAC & electrical contractors**

Three Ways to Build Your Career

Full-Time Job

Join a company with placement support behind you — stability and structured growth.

Job + Freelance

Hold a job while taking side projects to build income and a broader portfolio.

Overseas / GCC

GCC construction and facility management is a major employer of BMS, fire alarm and security technicians from India. Experienced installers can also start their own installation and AMC business locally.

All Programmes at a Glance

6 programmes to match every background and goal. Full course details and a career guide for each follow in this document.

#	PROGRAMME	DURATION	HOURS	TYPE	BEST FOR	PAGE
01	Diploma in Building Management Systems	6 Months	360	Career programme	Diploma / BE in EEE, ECE, EIE	6
02	Diploma in Building Automation Technology	12 Months	400	Career programme	12th pass / ITI students wanting a full year of technical training	12
03	Certified Building Management Systems	3 Months	240	Career programme	Diploma / BE in EEE, ECE, EIE	18
04	Smart Home Automation	1.5 Months	120	Entry-level course	Electricians & installers	23
05	CCTV & Security Systems	1 Month	90	Short course	Electricians & technicians	29
06	CCTV Installation	1 Week	30	Short course	Electricians & technicians	35

Recommended Pathways

1 Diploma in Building Management Systems → Diploma in Building Automation Technology (12 months)

2 Diploma in Building Automation Technology → Professional Diploma in Industrial Automation

3 Certified Building Management Systems → Diploma in Building Management Systems (6 months)

4 Smart Home Automation → Certified Building Management Systems

5 CCTV & Security Systems → Smart Home Automation

6 CCTV Installation → CCTV & Security Systems (1 month)

Diploma in Building Management Systems

Complete smart-building training — security, fire, access, panels, PLC/SCADA, HVAC and home automation.

6 Months

360 Hours

6 Modules

5 Projects

Classroom + hands-on lab

Part A · Course Details

Program Overview

Our flagship BMS diploma prepares you to install, commission and maintain the systems that run modern buildings: CCTV, networking, intruder alarms, access control, fire alarms, BMS controllers, HVAC, lighting, solar and power backup — plus control panels, VFD, PLC, HMI and SCADA used in building automation.

DURATION

6 Months

TRAINING HOURS

360 Hours

MODULES

6 Structured Modules

MODE

Classroom + hands-on lab

BATCHES

Weekday · Weekend · Fast-track

CERTIFICATION

TÜV SÜD + IPCS Global

Who Should Join

- ✓ Diploma / BE in EEE, ECE, EIE
- ✓ ITI electricians & technicians
- ✓ Facility & maintenance staff
- ✓ Engineers targeting India or GCC facility roles

Eligibility: ITI, diploma or degree in an electrical or electronics discipline.

What You'll Be Able To Do

- ✓ Install and configure CCTV, DVR/NVR and IP networks
- ✓ Commission intruder, access control and fire alarm systems
- ✓ Understand BMS controllers, HVAC and lighting control
- ✓ Design building control panels with VFD and PLC
- ✓ Build HMI/SCADA screens for building monitoring
- ✓ Deliver Arduino and PLC-based home automation

The Full Syllabus

6 modules, 360 hours, delivered in three phases that each build on the last.

01 · FOUNDATION

Modules 1 & 3 · 80 Hours

Electrical and electronics basics plus how buildings are managed.

02 · AUTOMATION CORE

Module 2 · 120 Hours

Panels, VFD, PLC, HMI, SCADA and field instruments.

03 · BUILDING SYSTEMS

Modules 4–6 · 160 Hours

Security, fire, access, home automation, HVAC, lighting and power.

01	Basics – Electrical, Electronics & Digital Electronics	60 Hrs
02	Building Panel Design & Automation	120 Hrs
03	Fundamentals of Building Management Systems	20 Hrs
04	Building Automation, Security & Fire Systems	100 Hrs
05	Home Automation	40 Hrs
06	BMS Theory – Lighting, Power & HVAC	20 Hrs

Total Training Duration

360 Hours

Module-by-Module Topics

MODULE 01

60 Hrs

Basics – Electrical, Electronics & Digital Electronics

- Basic electrical: AC/DC, wiring, safety
- Basic electronics: components & circuits
- Digital electronics fundamentals
- Measuring instruments

MODULE 02

120 Hrs

Building Panel Design & Automation

- Relay logic & building panel design
- Control panel design & wiring
- VFD for pumps & AHUs
- PLC application analysis
- HMI & SCADA for buildings
- Field instruments & sensors

MODULE 03

20 Hrs

Fundamentals of Building Management Systems

- What a BMS does
- Building services overview
- Standards & safety

MODULE 04

100 Hrs

Building Automation, Security & Fire Systems

- CCTV fundamentals: analog, HD & IP cameras
- Camera selection: lens, resolution, IR, placement
- DVR & NVR configuration and recording
- IP addressing & subnetting basics
- Routers, switches & PoE
- Intruder alarm panels, zones & sensors
- Biometric access control: fingerprint, face, card
- Video door phones
- Fire alarm panels: detectors, MCPs, hooters, loops
- BMS controller theory

MODULE 05

40 Hrs

Home Automation

- Introduction to home automation
- Arduino-based home automation
- PLC-based home automation
- Smart device integration & apps

MODULE 06

20 Hrs

BMS Theory – Lighting, Power & HVAC

- HVAC systems & controls
- Lighting controls
- Solar, UPS & generators
- Surge & lightning protection
- Automatic gates & barriers

Diploma in Building Management Systems · Part A

Tools, Projects & Assessment

Tools & Technologies You'll Use

Hikvision / CP Plus DVR & NVR

IP cameras & PoE switches

Intruder alarm panels

Biometric devices

Fire alarm panel

Video door phone

Arduino

PLC & HMI

VFD

Network tools

SCADA software

Projects You'll Build

1 Complete CCTV + NVR installation with remote view

2 Access control + intruder alarm integration

3 Fire alarm loop commissioning

4 PLC-based pump/AHU control panel

5 Smart home demo with Arduino

How You'll Be Assessed

1

Module Assessments

Practical and theory checks at the end of each module.

2

Project Reviews

Trainer review of your mini projects and final project.

3

Certification

Issued on meeting assessment and attendance criteria.

Certification: TÜV SÜD certification + IPCS Global course certificate + Internship Certification.

PART B · CAREER GROWTH

Where Diploma in Building Management Systems Can Take You

Job roles, a realistic growth ladder with salary ranges, and the skills to keep growing.

Roles You'll Be Ready For

1

BMS Engineer / Technician

Operates and maintains building automation systems.

2

Fire Alarm Engineer

Installs and commissions fire detection systems.

3

Security Systems Engineer

Designs CCTV and access control solutions.

4

ELV / Low-Current Engineer

Handles all extra-low-voltage building systems.

5

HVAC Controls Technician

Maintains AHU, chiller and ventilation controls.

6

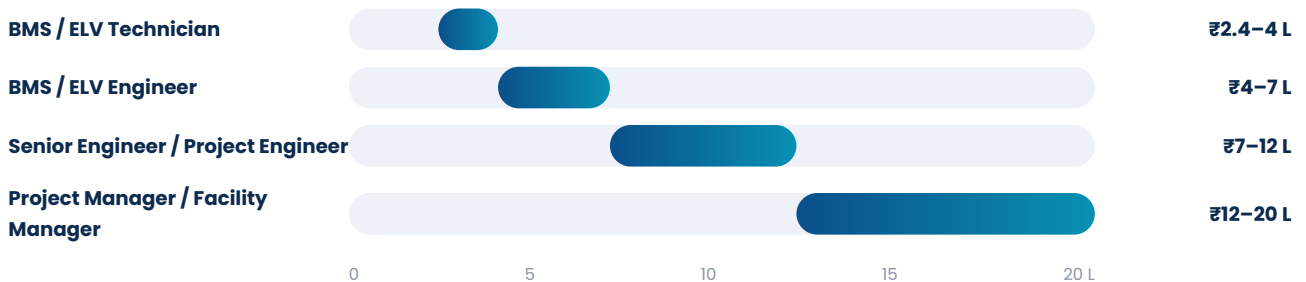
Facility / Maintenance Engineer

Keeps building services running.

■ Your Growth Ladder

STAGE 01 0–2 YRS	BMS / ELV Technician Install, test and maintain building systems.	₹2.4 – 4 LPA
STAGE 02 2–5 YRS	BMS / ELV Engineer Commission systems and handle clients.	₹4 – 7 LPA
STAGE 03 5–8 YRS	Senior Engineer / Project Engineer Lead projects and integration.	₹7 – 12 LPA
STAGE 04 8+ YRS	Project Manager / Facility Manager Run projects or large facilities.	₹12 – 20 LPA

■ Annual Salary Range (CTC) — ₹ Lakh per annum



Indicative ranges for India in 2026. Lower end: Tier-2 cities such as Coimbatore and smaller firms; upper end: metros and larger companies; GCC and overseas packages are typically higher. Guidance only, not a salary guarantee.

■ Skills to Add Next

- ✓ BACnet & Modbus integration
- ✓ BMS platforms (Honeywell, Siemens Desigo, Johnson Controls)
- ✓ Addressable fire alarm systems
- ✓ IP networking & cybersecurity
- ✓ Energy management

■ Certifications to Target

- ✓ TÜV SÜD certification
- ✓ Vendor certifications (Honeywell / Siemens / Bosch)
- ✓ NEBOSH / fire safety courses
- ✓ CCTV & access control vendor training

■ Upgrade Path at IPCS Global

1 **Diploma in Building Automation Technology (12 months)**

2 **Professional Diploma in Industrial Automation**

■ Your First 12 Months After the Course

1

Month 0–1 • Get Visible

Polish your resume and portfolio; apply through the IPCS placement cell's drives.

2

Month 1–3 • First Role

Join as a BMS / ELV Technician.

3

Month 3–6 • Get Certified

Earn one certification from the list above.

4

Month 6–12 • Specialise

Pick a specialisation and own a project, system or channel.

Diploma in Building Automation Technology

A one-year diploma covering electronics, security, fire, BMS, solar and AV integration — with a final project.

12 Months

400 Hours

11 Modules

4 Projects

Classroom + hands-on lab

Part A · Course Details

Program Overview

A year-long programme that builds strong electrical and electronics foundations, then covers every major building technology — CCTV, biometric access, intruder alarms, fire alarm panels, smart BMS, solar and renewables, and AV & home theatre integration — ending with a project.

DURATION
12 Months

TRAINING HOURS
400 Hours

MODULES
11 Structured Modules

MODE
Classroom + hands-on lab

BATCHES
Weekday · Weekend · Fast-track

CERTIFICATION
TÜV SÜD + IPCS Global

Who Should Join

- ✓ 12th pass / ITI students wanting a full year of technical training
- ✓ Diploma students
- ✓ Technicians building a long-term career
- ✓ Defence personnel transitioning to civilian roles

Eligibility: 12th pass, ITI or diploma.

What You'll Be Able To Do

- ✓ Build and troubleshoot electronic circuits
- ✓ Install complete CCTV and security systems
- ✓ Commission fire alarm panels
- ✓ Operate smart BMS systems
- ✓ Install solar systems
- ✓ Integrate AV and home theatre setups

The Full Syllabus

11 modules, 400 hours.

01	Basic Electronics	40 Hrs
02	Basic Electrical	40 Hrs
03	Electronic Circuits & Embedded Design	40 Hrs
04	CCTV Surveillance Systems	40 Hrs
05	Biometric Access Control	30 Hrs
06	Security Systems – Intruder Alarms	30 Hrs
07	Fire Alarm Panel Systems	30 Hrs
08	Smart Building Automation – BMS	50 Hrs
09	Solar Power & Renewable Systems	30 Hrs
10	AV Integration & Home Theatre	30 Hrs
11	Project Work	40 Hrs

Total Training Duration

400 Hours

Module-by-Module Topics

MODULE 01

40 Hrs

Basic Electronics

- Components & circuits
- Power supplies
- Soldering & testing

MODULE 02

40 Hrs

Basic Electrical

- AC/DC, wiring & safety
- Earthing & protection
- House wiring basics

MODULE 03**40 Hrs****Electronic Circuits & Embedded Design**

- Sensor circuits
- Microcontroller basics
- Circuit troubleshooting

MODULE 04**40 Hrs****CCTV Surveillance Systems**

- CCTV fundamentals: analog, HD & IP cameras
- Camera selection: lens, resolution, IR, placement
- DVR & NVR configuration and recording
- Cabling, PoE & power supplies
- Remote monitoring on mobile & PC

MODULE 05**30 Hrs****Biometric Access Control**

- Fingerprint, face & card readers
- Door locks & controllers
- Software & attendance

MODULE 06**30 Hrs****Security Systems – Intruder Alarms**

- Panels, zones & sensors
- Keypads & sirens
- GSM dialers

MODULE 07**30 Hrs****Fire Alarm Panel Systems**

- Conventional vs addressable
- Detectors, MCPs & hooters
- Loop wiring & commissioning

MODULE 08**50 Hrs****Smart Building Automation – BMS**

- BMS architecture & controller theory
- HVAC systems & controls
- Lighting controls
- Solar, UPS & generators
- Surge & lightning protection
- Automatic gates & barriers

MODULE 09**30 Hrs****Solar Power & Renewable Systems**

- Solar PV basics
- On-grid & off-grid systems
- Inverters & batteries

MODULE 10**30 Hrs****AV Integration & Home Theatre**

- Audio-video systems
- Home theatre setup
- Conference room AV

MODULE 11**40 Hrs****Project Work**

- System design
- Installation
- Documentation & demo

Tools, Projects & Assessment

Tools & Technologies You'll Use

Hikvision / CP Plus DVR & NVR

IP cameras & PoE switches

Intruder alarm panels

Biometric devices

Fire alarm panel

Video door phone

Arduino

PLC & HMI

VFD

Network tools

Solar PV kit

AV equipment

Projects You'll Build

1 Integrated security system for a model building

2 Addressable fire alarm demo

3 Solar rooftop design

4 Final project

How You'll Be Assessed

1

Module Assessments

Practical and theory checks at the end of each module.

2

Project Reviews

Trainer review of your mini projects and final project.

3

Certification

Issued on meeting assessment and attendance criteria.

Certification: TÜV SÜD certification + IPCS Global course certificate + Internship Certification.

Where Diploma in Building Automation Technology Can Take You

Job roles, a realistic growth ladder with salary ranges, and the skills to keep growing.

Roles You'll Be Ready For

1

BMS Engineer / Technician

Operates and maintains building automation systems.

2

Fire Alarm Engineer

Installs and commissions fire detection systems.

3

Security Systems Engineer

Designs CCTV and access control solutions.

4

ELV / Low-Current Engineer

Handles all extra-low-voltage building systems.

5

HVAC Controls Technician

Maintains AHU, chiller and ventilation controls.

6

Facility / Maintenance Engineer

Keeps building services running.

Your Growth Ladder

STAGE

01

0-2 YRS

BMS / ELV Technician

Install, test and maintain building systems.

₹2.4 – 4 LPA

STAGE

02

2-5 YRS

BMS / ELV Engineer

Commission systems and handle clients.

₹4 – 7 LPA

STAGE

03

5-8 YRS

Senior Engineer / Project Engineer

Lead projects and integration.

₹7 – 12 LPA

STAGE

04

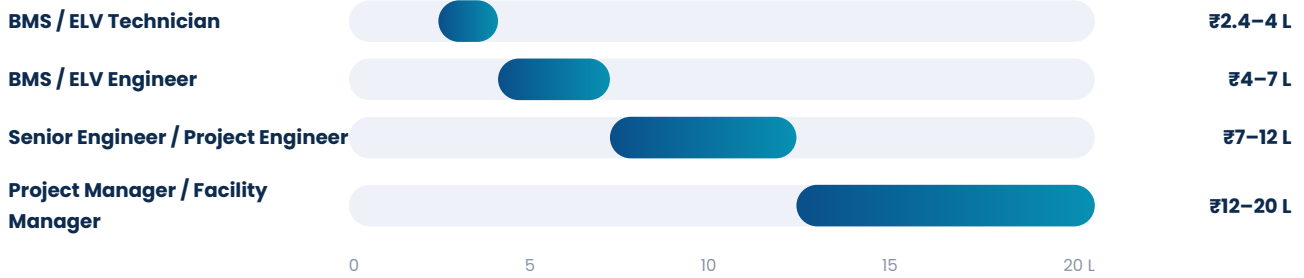
8+ YRS

Project Manager / Facility Manager

Run projects or large facilities.

₹12 – 20 LPA

■ Annual Salary Range (CTC) — ₹ Lakh per annum



Indicative ranges for India in 2026. Lower end: Tier-2 cities such as Coimbatore and smaller firms; upper end: metros and larger companies; GCC and overseas packages are typically higher. Guidance only, not a salary guarantee.

■ Skills to Add Next

- ✓ BACnet & Modbus integration
- ✓ BMS platforms (Honeywell, Siemens Desigo, Johnson Controls)
- ✓ Addressable fire alarm systems
- ✓ IP networking & cybersecurity
- ✓ Energy management

■ Certifications to Target

- ✓ TÜV SÜD certification
- ✓ Vendor certifications (Honeywell / Siemens / Bosch)
- ✓ NEBOSH / fire safety courses
- ✓ CCTV & access control vendor training

■ Upgrade Path at IPCS Global

1 Professional Diploma in Industrial Automation

2 Certified Industrial IoT Professional

■ Your First 12 Months After the Course

1

Month 0–1 • Get Visible

Polish your resume and portfolio; apply through the IPCS placement cell's drives.

2

Month 1–3 • First Role

Join as a BMS / ELV Technician.

3

Month 3–6 • Get Certified

Earn one certification from the list above.

4

Month 6–12 • Specialise

Pick a specialisation and own a project, system or channel.

Certified Building Management Systems

Security, fire, access control, panels, PLC/SCADA and home automation in three months.

3 Months

240 Hours

5 Modules

4 Projects

Classroom + hands-on lab

Part A · Course Details

Program Overview

A 3-month certification covering the core systems of smart buildings — CCTV, networking, intruder alarms, biometric access, fire alarm panels, BMS controllers — plus building panels with VFD, PLC, HMI and SCADA, and home automation.

DURATION

3 Months

TRAINING HOURS

240 Hours

MODULES

5 Structured Modules

MODE

Classroom + hands-on lab

BATCHES

Weekday · Weekend · Fast-track

CERTIFICATION

TÜV SÜD + IPCS Global

Who Should Join

- ✓ Diploma / BE in EEE, ECE, EIE
- ✓ ITI electricians
- ✓ Facility & security technicians

Eligibility: ITI, diploma or degree in an electrical or electronics discipline.

What You'll Be Able To Do

- ✓ Install CCTV and configure DVR/NVR
- ✓ Commission access control, intruder and fire systems
- ✓ Understand BMS controllers
- ✓ Build panels with VFD & PLC
- ✓ Create home automation projects

The Full Syllabus

5 modules, 240 hours.

01	Fundamentals of Building Management Systems	15 Hrs
02	Building Automation & Security Systems	100 Hrs
03	Building Panel Design & Automation	65 Hrs
04	Home Automation	40 Hrs
05	BMS Theory – Lighting, Power & HVAC	20 Hrs

Total Training Duration

240 Hours

Module-by-Module Topics

MODULE 01

15 Hrs

Fundamentals of Building Management Systems

- BMS overview
- Building services
- Safety & standards

MODULE 02

100 Hrs

Building Automation & Security Systems

- CCTV fundamentals: analog, HD & IP cameras
- Camera selection: lens, resolution, IR, placement
- DVR & NVR configuration and recording
- Cabling, PoE & power supplies
- IP addressing & subnetting basics
- Routers, switches & PoE
- Intruder alarm panels, zones & sensors
- Biometric access control: fingerprint, face, card
- Video door phones
- Fire alarm panels: detectors, MCPs, hooters, loops
- BMS controller theory

MODULE 03

65 Hrs

Building Panel Design & Automation

- Relay logic & building panel design
- Control panel design & wiring
- VFD for pumps & AHUs
- PLC application analysis
- HMI & SCADA for buildings

MODULE 04

40 Hrs

Home Automation

- Introduction to home automation
- Arduino-based home automation
- PLC-based home automation
- Smart device integration & apps

MODULE 05

20 Hrs

BMS Theory – Lighting, Power & HVAC

- HVAC systems & controls
- Lighting controls
- Solar, UPS & generators
- Surge & lightning protection
- Automatic gates & barriers

Certified Building Management Systems · Part A

Tools, Projects & Assessment

Tools & Technologies You'll Use

Hikvision / CP Plus DVR & NVR

IP cameras & PoE switches

Intruder alarm panels

Biometric devices

Fire alarm panel

Video door phone

Arduino

PLC & HMI

VFD

Network tools

Projects You'll Build

1 CCTV + NVR installation

2 Access control & alarm integration

3 VFD/PLC building panel

4 Arduino home automation

How You'll Be Assessed

1

Module Assessments

Practical and theory checks at the end of each module.

2

Project Reviews

Trainer review of your mini projects and final project.

3

Certification

Issued on meeting assessment and attendance criteria.

Certification: TÜV SÜD certification + IPCS Global course certificate + Internship Certification.

Where Certified Building Management Systems Can Take You

Job roles, a realistic growth ladder with salary ranges, and the skills to keep growing.

Roles You'll Be Ready For

1

BMS Engineer / Technician

Operates and maintains building automation systems.

2

Fire Alarm Engineer

Installs and commissions fire detection systems.

3

Security Systems Engineer

Designs CCTV and access control solutions.

4

ELV / Low-Current Engineer

Handles all extra-low-voltage building systems.

5

HVAC Controls Technician

Maintains AHU, chiller and ventilation controls.

6

Facility / Maintenance Engineer

Keeps building services running.

Your Growth Ladder

STAGE

01

0-2 YRS

BMS / ELV Technician

Install, test and maintain building systems.

₹2.4 – 4 LPA

STAGE

02

2-5 YRS

BMS / ELV Engineer

Commission systems and handle clients.

₹4 – 7 LPA

STAGE

03

5-8 YRS

Senior Engineer / Project Engineer

Lead projects and integration.

₹7 – 12 LPA

STAGE

04

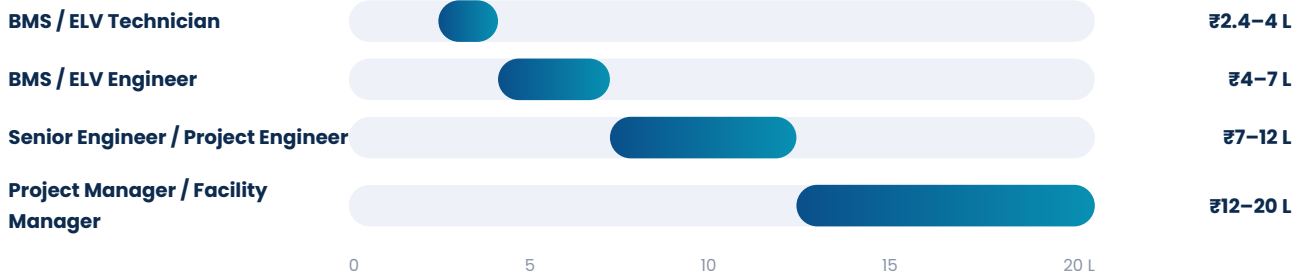
8+ YRS

Project Manager / Facility Manager

Run projects or large facilities.

₹12 – 20 LPA

■ Annual Salary Range (CTC) — ₹ Lakh per annum



Indicative ranges for India in 2026. Lower end: Tier-2 cities such as Coimbatore and smaller firms; upper end: metros and larger companies; GCC and overseas packages are typically higher. Guidance only, not a salary guarantee.

■ Skills to Add Next

- ✓ BACnet & Modbus integration
- ✓ BMS platforms (Honeywell, Siemens Desigo, Johnson Controls)
- ✓ Addressable fire alarm systems
- ✓ IP networking & cybersecurity
- ✓ Energy management

■ Certifications to Target

- ✓ TÜV SÜD certification
- ✓ Vendor certifications (Honeywell / Siemens / Bosch)
- ✓ NEBOSH / fire safety courses
- ✓ CCTV & access control vendor training

■ Upgrade Path at IPCS Global

1 **Diploma in Building Management Systems (6 months)**

2 **Professional Diploma in Industrial Automation**

■ Your First 12 Months After the Course

1

Month 0-1 · Get Visible

Polish your resume and portfolio; apply through the IPCS placement cell's drives.

2

Month 1-3 · First Role

Join as a BMS / ELV Technician.

3

Month 3-6 · Get Certified

Earn one certification from the list above.

4

Month 6-12 · Specialise

Pick a specialisation and own a project, system or channel.

Smart Home Automation

Install and integrate smart home, security and automation systems.

1.5 Months

120 Hours

4 Modules

2 Projects

Classroom + hands-on lab

Part A · Course Details

Program Overview

A six-week practical course for installers and technicians who want to deliver smart home projects — CCTV, networking, intruder alarms, biometric access and video door phones, house wiring basics, and smart device integration.

DURATION

1.5 Months

TRAINING HOURS

120 Hours

MODULES

4 Structured Modules

MODE

Classroom + hands-on lab

BATCHES

Weekday · Weekend · Fast-track

CERTIFICATION

TÜV SÜD + IPCS Global

Who Should Join

- ✓ Electricians & installers
- ✓ ITI / diploma students
- ✓ Home-security entrepreneurs

Eligibility: ITI, diploma or equivalent field experience.

What You'll Be Able To Do

- ✓ Install CCTV and video door phones
- ✓ Set up home networks for smart devices
- ✓ Install intruder alarms and biometric locks
- ✓ Integrate smart home devices and apps

The Full Syllabus

4 modules, 120 hours.

01	Basics – Electrical & Electronics	15 Hrs
02	Building Automation & Security Systems	65 Hrs
03	Basics of House Wiring	15 Hrs
04	Home Automation & Smart Device Integration	25 Hrs

Total Training Duration

120 Hours

Module-by-Module Topics

MODULE 01

15 Hrs

Basics – Electrical & Electronics

- Basic electrical: AC/DC, wiring, safety
- Basic electronics: components & circuits
- Digital electronics fundamentals

MODULE 02

65 Hrs

Building Automation & Security Systems

- CCTV fundamentals: analog, HD & IP cameras
- Camera selection: lens, resolution, IR, placement
- DVR & NVR configuration and recording
- Cabling, PoE & power supplies
- IP addressing & subnetting basics
- Routers, switches & PoE
- Intruder alarm panels, zones & sensors
- Biometric access control: fingerprint, face, card
- Video door phones

MODULE 03

15 Hrs

Basics of House Wiring

- Wiring systems & circuits
- Switchboards & DBs
- Safety & earthing

MODULE 04

25 Hrs

Home Automation & Smart Device Integration

- Introduction to home automation
- Smart switches, plugs & sensors
- Voice assistants & apps
- Scenes & automation rules

Tools, Projects & Assessment

Tools & Technologies You'll Use

CCTV / NVR

Routers & PoE

Intruder alarm

Biometric lock

Video door phone

Smart home hubs & apps

Projects You'll Build

1 Smart home security installation

2 Home automation scene setup

How You'll Be Assessed

1

Module Assessments

Practical and theory checks at the end of each module.

2

Project Reviews

Trainer review of your mini projects and final project.

3

Certification

Issued on meeting assessment and attendance criteria.

Certification: TÜV SÜD certification + IPCS Global course certificate + Internship Certification.

Where Smart Home Automation Can Take You

Job roles, a realistic growth ladder with salary ranges, and the skills to keep growing.

■ Roles You'll Be Ready For

1

Smart Home Installer

Installs smart devices, locks and security.

2

Home Automation Technician

Configures scenes, apps and integrations.

3

Security & CCTV Technician

Installs cameras and door phones.

4

AV & Smart Home Integrator

Combines AV, lighting and automation.

5

Field Service Engineer

Supports customers after installation.

6

Self-employed Smart Home Integrator

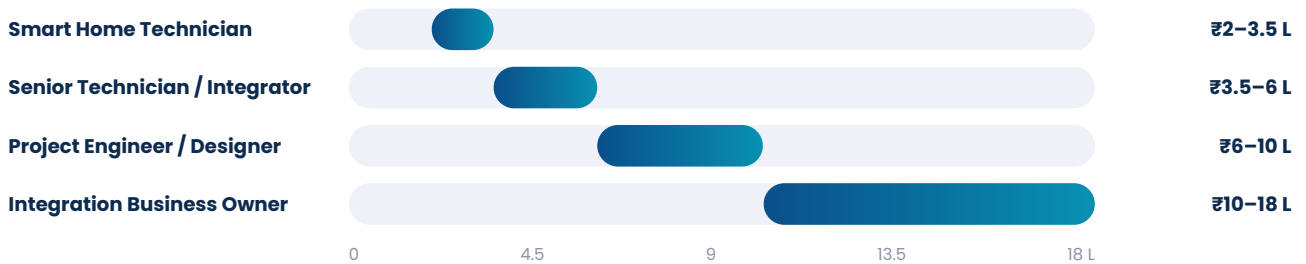
Runs an installation business.

Good to know: this course prepares you for entry-level roles. To move up faster, continue with **Certified Building Management Systems**.

■ Your Growth Ladder

STAGE 01 0–2 YRS	Smart Home Technician Install and configure devices.	₹2 – 3.5 LPA
STAGE 02 2–5 YRS	Senior Technician / Integrator Deliver full-home projects.	₹3.5 – 6 LPA
STAGE 03 5–8 YRS	Project Engineer / Designer Design premium automation projects.	₹6 – 10 LPA
STAGE 04 8+ YRS	Integration Business Owner Run a smart home integration firm.	₹10 – 18 LPA

■ Annual Salary Range (CTC) — ₹ Lakh per annum



Indicative ranges for India in 2026. Lower end: Tier-2 cities such as Coimbatore and smaller firms; upper end: metros and larger companies; GCC and overseas packages are typically higher. Guidance only, not a salary guarantee.

■ Skills to Add Next

- ✓ KNX / Zigbee / Z-Wave basics
- ✓ AV integration
- ✓ Networking & Wi-Fi design
- ✓ BMS fundamentals
- ✓ Sales & estimation

■ Certifications to Target

- ✓ Vendor smart home certifications
- ✓ KNX Basic course
- ✓ Networking fundamentals
- ✓ BMS certification (next step)

■ Upgrade Path at IPCS Global

1 **Certified Building Management Systems**

2 **Diploma in Building Management Systems**

■ Your First 12 Months After the Course

1

Month 0–1 • Get Visible

Polish your resume and portfolio; apply through the IPCS placement cell's drives.

2

Month 1–3 • First Role

Join as a Smart Home Technician.

3

Month 3–6 • Get Certified

Earn one certification from the list above.

4

Month 6–12 • Specialise

Pick a specialisation and own a project, system or channel.

CCTV & Security Systems

CCTV, intruder alarms, biometric access, video door phones and gate automation in one month.

1 Month

90 Hours

7 Modules

2 Projects

Classroom + hands-on lab

Part A · Course Details

Program Overview

A one-month course covering the security systems every building needs. You learn CCTV installation, intruder alarms, biometric access control, video door phones, automatic gates & barriers and solar basics.

DURATION

1 Month

TRAINING HOURS

90 Hours

MODULES

7 Structured Modules

MODE

Classroom + hands-on lab

BATCHES

Weekday · Weekend · Fast-track

CERTIFICATION

TÜV SÜD + IPCS Global

Who Should Join

- ✓ Electricians & technicians
- ✓ Security system installers
- ✓ Students wanting a quick employable skill

Eligibility: 10th / 12th pass, ITI or diploma.

What You'll Be Able To Do

- ✓ Install and configure CCTV systems
- ✓ Set up intruder alarm panels
- ✓ Install biometric access control
- ✓ Install video door phones & gate automation

The Full Syllabus

7 modules, 90 hours.

01	Fundamentals of Building Management Systems	18 Hrs
02	CCTV Systems	21 Hrs
03	Security Systems – Intruder Alarms	21 Hrs
04	Biometric Access Control	18 Hrs
05	Video Door Phone	3 Hrs
06	Solar Panels (Theory)	6 Hrs
07	Automatic Gates & Barriers	3 Hrs

Total Training Duration

90 Hours

Module-by-Module Topics

MODULE 01

18 Hrs

Fundamentals of Building Management Systems

- Building systems overview
- Electrical basics for installers
- Safety

MODULE 02

21 Hrs

CCTV Systems

- CCTV fundamentals: analog, HD & IP cameras
- Camera selection: lens, resolution, IR, placement
- DVR & NVR configuration and recording
- Cabling, PoE & power supplies
- Remote monitoring on mobile & PC

MODULE 03

21 Hrs

Security Systems – Intruder Alarms

- Alarm panels & zones
- Sensors & sirens
- Arming & remote alerts

MODULE 04

18 Hrs

Biometric Access Control

- Fingerprint & face readers
- Door locks & exit buttons
- Access software

MODULE 05

3 Hrs

Video Door Phone

- Installation & configuration

MODULE 06

6 Hrs

Solar Panels (Theory)

- Solar basics for buildings

MODULE 07

3 Hrs

Automatic Gates & Barriers

- Gate motors & controls

CCTV & Security Systems · Part A

Tools, Projects & Assessment

Tools & Technologies You'll Use

Analog & IP cameras

DVR / NVR

Alarm panel

Biometric devices

Video door phone

Projects You'll Build

1 CCTV installation with mobile viewing

2 Access control + alarm setup

How You'll Be Assessed

1

Module Assessments

Practical and theory checks at the end of each module.

2

Project Reviews

Trainer review of your mini projects and final project.

3

Certification

Issued on meeting assessment and attendance criteria.

Certification: TÜV SÜD certification + IPCS Global course certificate + Internship Certification.

Where CCTV & Security Systems Can Take You

Job roles, a realistic growth ladder with salary ranges, and the skills to keep growing.

■ Roles You'll Be Ready For

1

CCTV Technician

Installs and services CCTV systems.

2

Security System Installer

Installs alarms, access control and door phones.

3

Surveillance Operator

Monitors CCTV in control rooms.

4

Field Service Technician

Handles AMC and breakdown calls.

5

Network Camera Technician

Configures IP cameras and NVRs.

6

Self-employed Installer

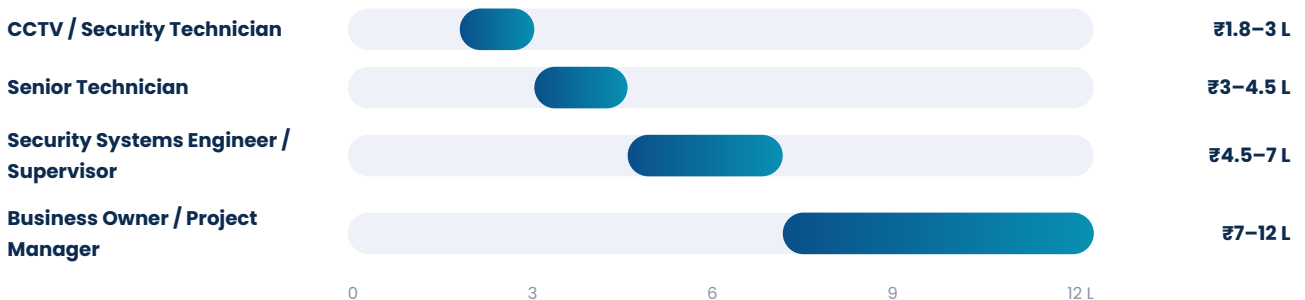
Runs an installation and AMC business.

Good to know: CCTV & Security Systems is a focused short course and a strong starting point for these roles; most learners reach them fastest by continuing with **Smart Home Automation**.

■ Your Growth Ladder

STAGE 01 0–2 YRS	CCTV / Security Technician Install and service systems.	₹1.8 – 3 LPA
STAGE 02 2–4 YRS	Senior Technician Handle complex sites and teams.	₹3 – 4.5 LPA
STAGE 03 4–7 YRS	Security Systems Engineer / Supervisor Design systems and manage projects.	₹4.5 – 7 LPA
STAGE 04 7+ YRS	Business Owner / Project Manager Run an integration business or projects.	₹7 – 12 LPA

■ Annual Salary Range (CTC) — ₹ Lakh per annum



Indicative ranges for India in 2026. Lower end: Tier-2 cities such as Coimbatore and smaller firms; upper end: metros and larger companies; GCC and overseas packages are typically higher. Guidance only, not a salary guarantee.

■ Skills to Add Next

- ✓ IP networking & VMS software
- ✓ Access control & fire alarm
- ✓ Smart home integration
- ✓ Customer handling & estimation
- ✓ Business & AMC management

■ Certifications to Target

- ✓ Hikvision / CP Plus / Dahua vendor certifications
- ✓ Networking basics (CCNA-level)
- ✓ Fire alarm system training
- ✓ BMS certification (next step)

■ Upgrade Path at IPCS Global

1

Smart Home Automation

2

Certified Building Management Systems

■ Your First 12 Months After the Course

1

Month 0–1 • Get Visible

Polish your resume and portfolio; apply through the IPCS placement cell's drives.

2

Month 1–3 • First Role

Join as a CCTV / Security Technician.

3

Month 3–6 • Get Certified

Earn one certification from the list above.

4

Month 6–12 • Specialise

Pick a specialisation and own a project, system or channel.

CCTV Installation

Learn to install, configure and commission CCTV systems in one week.

1 Week

30 Hours

8 Modules

2 Projects

Classroom + hands-on lab

Part A · Course Details

Program Overview

A practical one-week course on CCTV — camera types and technology, DVR and NVR configuration, networking, commissioning and remote monitoring.

DURATION**1 Week****TRAINING HOURS****30 Hours****MODULES****8 Structured Modules****MODE****Classroom + hands-on lab****BATCHES****Weekday · Weekend · Fast-track****CERTIFICATION****TÜV SÜD + IPCS Global**

Who Should Join

- ✓ Electricians & technicians
- ✓ Beginners wanting a quick trade skill
- ✓ Shop owners & entrepreneurs

Eligibility: 10th pass or above.

What You'll Be Able To Do

- ✓ Choose and install the right cameras
- ✓ Configure DVR and NVR
- ✓ Set up networking and remote viewing
- ✓ Commission a complete system

The Full Syllabus

8 modules, 30 hours.

01	Introduction to CCTV	3 Hrs
02	Types of CCTV	4 Hrs
03	Technology of CCTV	4 Hrs
04	DVR Configuration	4 Hrs
05	NVR Configuration	4 Hrs
06	Commissioning of CCTV	4 Hrs
07	Networking	4 Hrs
08	Remote Monitoring	3 Hrs

Total Training Duration

30 Hours

Module-by-Module Topics

MODULE 01 Introduction to CCTV • Uses & components	3 Hrs	MODULE 02 Types of CCTV • Analog, HD, IP & PTZ	4 Hrs
MODULE 03 Technology of CCTV • Lens, resolution, IR	4 Hrs	MODULE 04 DVR Configuration • Setup & recording	4 Hrs
MODULE 05 NVR Configuration • IP cameras & PoE	4 Hrs	MODULE 06 Commissioning of CCTV • Cabling & testing	4 Hrs
MODULE 07 Networking • IP addressing, routers	4 Hrs	MODULE 08 Remote Monitoring • Mobile & PC apps	3 Hrs

Tools, Projects & Assessment

Tools & Technologies You'll Use

Analog & IP cameras

DVR / NVR

PoE switch

Mobile viewing apps

Projects You'll Build

1 4-camera DVR installation

2 IP camera NVR setup with remote view

How You'll Be Assessed

1

Module Assessments

Practical and theory checks at the end of each module.

2

Project Reviews

Trainer review of your mini projects and final project.

3

Certification

Issued on meeting assessment and attendance criteria.

Certification: TÜV SÜD certification + IPCS Global course certificate + Internship Certification.

Where CCTV Installation Can Take You

Job roles, a realistic growth ladder with salary ranges, and the skills to keep growing.

■ Roles You'll Be Ready For

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CCTV Technician

Installs and services CCTV systems.

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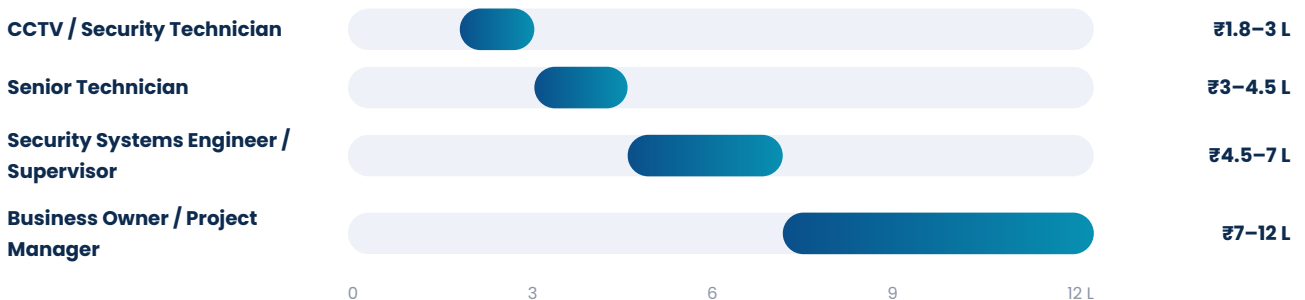
Runs an installation and AMC business.

Good to know: CCTV Installation is a focused short course and a strong starting point for these roles; most learners reach them fastest by continuing with **CCTV & Security Systems (1 month)**.

■ Your Growth Ladder

STAGE 01 0–2 YRS	CCTV / Security Technician Install and service systems.	₹1.8 – 3 LPA
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- ✓ Access control & fire alarm
- ✓ Smart home integration
- ✓ Customer handling & estimation
- ✓ Business & AMC management

■ Certifications to Target

- ✓ Hikvision / CP Plus / Dahua vendor certifications
- ✓ Networking basics (CCNA-level)
- ✓ Fire alarm system training
- ✓ BMS certification (next step)

■ Upgrade Path at IPCS Global

1 CCTV & Security Systems (1 month)

2 Smart Home Automation

■ Your First 12 Months After the Course

1

Month 0–1 • Get Visible

Polish your resume and portfolio; apply through the IPCS placement cell's drives.

2

Month 1–3 • First Role

Join as a CCTV / Security Technician.

3

Month 3–6 • Get Certified

Earn one certification from the list above.

4

Month 6–12 • Specialise

Pick a specialisation and own a project, system or channel.

How We Train & Certify

Technical skill gets you noticed — presentation, confidence and communication get you hired. Career-readiness runs alongside the syllabus, not after it.

Our Learning Method



Your Certifications

- TÜV SÜD Certification**
 IPCS Global is a cooperation partner of TÜV SÜD, the German testing and certification body. Eligible learners receive a TÜV SÜD certificate that adds independent, international credibility to their skills.
- IPCS Global Course Certificate**
 IPCS Global is an ISO 9001:2015 certified institute and an NSDC approved training partner. Your course certificate is issued on successful completion of assessments.
- Internship Certification**
 Documents your hands-on installation and commissioning work — verifiable experience for your resume.

Career-Readiness Track



How IPCS Global Gets You Hired

Every learner goes through a structured career-readiness track alongside the course, supported by our dedicated placement cell.

1

Dedicated Placement Cell

Interview drives, industry referrals and follow-up until you are placed – not just until the course ends.

2

Resume & Portfolio

One-on-one sessions to build a recruiter-ready resume and a project portfolio that proves your skills.

3

Aptitude & GD Training

Quantitative, logical and verbal aptitude plus group discussion practice.

4

Mock Interviews

Simulated technical and HR panels so the first real interview never feels like the first.

Recent IPCS Coimbatore Placements



A selection of recent placements across IPCS Global Coimbatore programmes.

Global opportunity: GCC construction and facility management is a major employer of BMS, fire alarm and security technicians from India. Experienced installers can also start their own installation and AMC business locally.

Why IPCS Global



18+ Years of Training Excellence

A track record since 2008, refined across 15,000+ professionals trained.



ISO 9001:2015 Certified

Audited, consistent training quality — every batch, every time.



Recognised Partnerships

TÜV SÜD cooperation partner and NSDC approved training partner.



Dedicated Placement Cell

Industry tie-ups, interview drives and follow-up until you are placed.



Real Labs, Real Projects

Industry-grade equipment and live projects — proof of work, not just a certificate.



50+ Branches, One Standard

Across India and the GCC, with weekday, weekend and fast-track batches.

Meet Our Coimbatore Team



Trainers, mentors, counsellors and placement coordinators at IPCS Global Coimbatore — working with every learner from the first class to final placement.

Frequently Asked Questions

Quick answers to the questions learners and parents ask us most. For anything else, call or visit the Coimbatore branch.

Q. Do I need prior experience to join?

Most programmes start from the fundamentals. Each programme lists its eligibility — our counsellors will confirm the right starting point for your background.

Q. Are classes held online or in the classroom?

Classroom + hands-on lab. Talk to our counsellors about the best option for your programme.

Q. What batch timings are available?

We run weekday, weekend and fast-track batches, so students and working professionals can both find a schedule that fits.

Q. Is placement guaranteed?

We provide 100% placement assistance — resume building, aptitude and GD training, mock interviews and interview drives through our dedicated placement cell. Final selection depends on each learner's performance, attendance and interview results.

Q. What certificate will I receive?

TÜV SÜD certification + IPCS Global course certificate + Internship Certification.

Q. Can I attend a class before enrolling?

Yes. Book a free demo session to meet the trainers, see the labs and experience a live class before you decide.

Q. What are the course fees?

Fees depend on the programme and batch type. Please contact the Coimbatore branch for the current fee structure and any available offers.

Q. Can working professionals join?

Yes. Weekend and fast-track batches are designed for people who are working or studying alongside the course.

LET'S START THE CONVERSATION

Your Career in **Building Management Systems** Starts Here

Book a free demo class, meet the trainers and see the labs — our counsellors will help you pick the right programme and batch.

Visit Us

Address #12, 2nd Floor, Swathi Towers,
Sowripalayam –
Masakalipalayam Road, Opp.
GRG Matriculation School,
Periyar Nagar, Peelamedu,
Coimbatore, Tamil Nadu –
641004

Get In Touch

Phone +91 80860 96664
Email bmcbe@ipcsglobal.com
Web www.ipcsglobal.com
Batches Weekday · Weekend · Fast-track

Book Your Free Demo Session Today

Walk in, call or write to us — meet the trainers, see the labs, and get counselling on the right course and batch before you enrol.

How to Enrol

1

Contact Us

Call, WhatsApp or walk in to our Peelamedu centre.

2

Free Demo

Attend a live class and see the labs.

3

Choose a Batch

Weekday, weekend or fast-track.

4

Enrol & Start

Simple, guided enrolment.