COURSE BROCHURE

BTech / BE - Robotics & Automation - Academic Support

Higher Education · Undergraduate / Engineering & Technology

One-time full-course fee

INR 4,999

Access

12 months course access

Study plan

Self-paced study with additional readings and project practice

Learning format

14 additional written readings are included in the existing programme. Robotics and automation theory plus fourteen new PLC logic laboratory readings (31 published readings after append), an original offline Python project, worked scan/fault/scaling/register examples and an original 100-mark self-assessment with explained rubrics. The new execution evidence is for the Python model; Structured Text is an uncompiled comparison. Native vendor software, hardware commissioning and supervised practical assessment remain outside the verified deliverables. Project prerequisites: Existing introductory PLC/Boolean logic reading; Basic files and folders; Python 3.11 environment; author-tested 3.11.9, other versions unverified; no external package required. Not included in this addition: Native CODESYS or other vendor project compilation, simulation or device execution; Real I/O wiring, fieldbus traffic, sensors/actuators, electrical work, machine commissioning or supervised practical assessment; Safety PLC functions, protective control validation, risk assessment competence or certification; Complete industrial automation/robotics degree or vendor-exam syllabus mastery; Physical process dynamics, PID tuning, motion control, HMI/SCADA implementation and production historian integration; Full protocol stack, authentication, live device data maps, asynchronous/multiple tasks and persistent restart recovery; Live classes, individual marking, official vendor affiliation, examination fee or certificate.

Programme overview

Supplementary academic support for BTech / BE - Robotics & Automation, with original concept notes, topic practice, revision and Tutor-led explanation. The underlying degree or qualification is awarded only by the learner's recognised institution. Robotics and automation theory plus fourteen new PLC logic laboratory readings (31 published readings after append), an original offline Python project, worked scan/fault/scaling/register examples and an original 100-mark self-assessment with explained rubrics. The new execution evidence is for the Python model; Structured Text is an uncompiled comparison. Native vendor software, hardware commissioning and supervised practical assessment remain outside the verified deliverables.

Who this is for

1. This is supplementary academic learning support, not admission to or award of a university degree.
2. The duration describes the standard full-time qualification route, not the number of months purchased on ZELVU. University paper names, semester order, electives, admission rules and batch-specific regulations must be checked separately.

Published topics and learning focus

1. Year 1: Engineering mathematics; Applied physics and chemistry; Programming and graphics; Workshop theory and engineering ethics
2. Year 2: Mechanics; Programming; Electronics; Linear algebra
3. Year 3: Robot kinematics; Control; Sensing; Embedded automation
4. Year 4: Robot system design; Human safety; Evaluation and integration; Capstone

Before you choose

1. These are published programme highlights, not certification of complete syllabus coverage. Review the available reading index and programme trial before enrolling.
2. ZELVU provides learning support. It does not award the underlying degree, professional registration or an examination result.
3. Current checkout terms and refund policy apply. Payment and access require successful provider verification.

Take the next step

Explore the programme trial

View current details, scope and terms

Ask ZELVU about this programme

Save this brochure for reference. Details can change: confirm the current programme page and checkout before making a purchase.