



Olewin
Academy

AN IIT Alumnus Platform



FULL STACK CIVIL ENGINEERING CAREER PROGRAM

AI, Web-3.0, BIM & AR/VR
Immersive Training Program with
Internship



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<https://olewinacademy.com/>



About the Program

India's most advanced, job-oriented civil engineering training program designed to prepare future-ready engineers for the global infrastructure revolution. Spanning 6 to 9 months, this immersive program blends core civil skills with cutting-edge technologies like AI, BIM, AR/VR, IoT, and Digital Twins to shape a new generation of high-impact infrastructure leaders.

Students will gain hands-on expertise while building real-world projects with AI-powered infrastructure solutions.



Learn Civil. Lead with AI. Build the Future with AR/VR & BIM.

Who Should Join?

- **3rd / Final-year civil engineering students**
- **Recent graduates seeking future-tech jobs**
- **Working civil engineers looking to upgrade**
- **Job seekers ready to shift into AI-driven infrastructure careers**

Program Highlights

- **Advanced AI models with Web 3.0 Applications Development (Web/Mobile)**
- **AR/VR Civil Visualization (Unity, Oculus, HoloLens)**
- **AI for Structural Analysis, Soil Prediction & Smart Cities**
- **IoT Integration for Real-Time Infrastructure Monitoring**
- **Capstone Project: Digital Twin + Smart Building Walkthrough**
- **Resume Building + Global Interview Training**
- **Paid Internships with Real-Tech Companies**
- **Global Certifications: Autodesk, Bentley, GIS, Unity**



PROGRAM STRUCTURE

Job-Oriented Civil Engineering Training Program – fully aligned with future technologies and AI-driven industry demands – to prepare students for high-paying, sustainable, and global civil careers.

Program Type	Duration	Target Audience	Outcome
Beginner Level	3 Months	Final Year Students / Freshers	Skill & Software-Based Job Readiness
Intermediate	6 Months	Graduates / Entry-Level Engineers	Core + AI + Internship + Interview Training
Advance Level	9 Months	Graduates / Career Switchers	Full Stack Civil + AI + BIM + Paid Internship

UNIQUE VALUE ADDITIONS

- AI + Civil Engineering Integration
- Live company Projects
- Global Tools Mastery with AI & AR/VR
- LinkedIn + Resume + Portfolio building
- Career Support & Job Assistance
- Job-Oriented | Portfolio-Based | Paid Internship-Ready
- Not Just a Course. A Career Accelerator for 2026 and Beyond.



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Civil Engineering Curriculum Structure



FINAL PROJECT OPTIONS

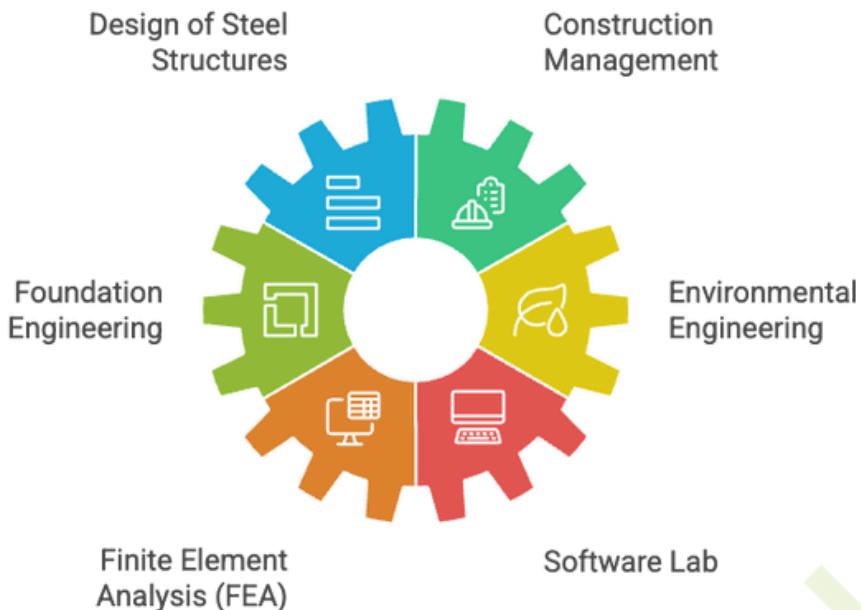
- Students choose from real-world immersive projects like:
- Designing an AI-Driven System Live Prediction
- Creating an Augmented Reality BIM Workflow
- Civil Drone + GIS Mapping with Real-Time Visualisation
- IoT-Based Smart System in Urban India
- AR/VR web 3.0 Application development on real company project



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Core Civil Engineering Skills



Limited Intake Only

Civil Engineering Course Categorization

Hydrology and Irrigation Engineering

Hydrology and Irrigation Engineering provides foundational theoretical knowledge.

Foundational

Industry Internship II

Industry Internship II offers practical application of foundational skills.

Theoretical Knowledge



Practical Application

AI/ML in Civil Engineering

AI/ML represents advanced theoretical knowledge in civil engineering.

Advanced

Smart Cities & Urban Infrastructure

Smart Cities & Urban Infrastructure combines advanced theory with practical application.

Civil Engineering Skills Hierarchy

Practical Application

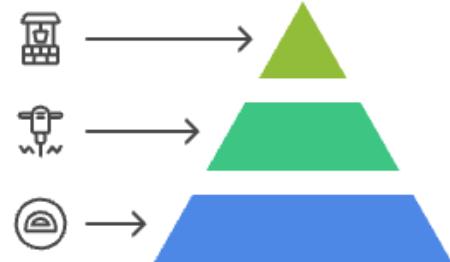
Real-world application through projects and internships

Advanced Techniques

Specialized skills in specific civil areas

Core Skills

Fundamental knowledge in civil engineering



INTERNSHIP

- Industry Aligned
- Paid Internships for Selected Students

Not all courses available. See full course catalog.



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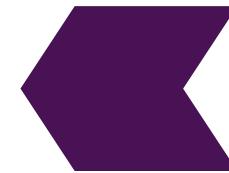
COMMON FOUNDATION (All Programs Start with This)

Core Civil Engineering Essentials

- Construction Materials & Techniques
- Building Drawing and Plan Interpretation
- Surveying Basics with AutoCAD
- Structural Basics and RCC Design Concepts
- Project Estimation and Costing
- Hands-on Project: Residential Plan + Estimation
- Site Project Report Preparation
- Structural Analysis + Foundation Design
- Geotechnical Data Analysis
- Soil Bearing Capacity Prediction
- Reinforcement Optimization using AI
- Smart Water Management (AI)
- Remote Sensing + Satellite Data Applications
- Research Paper Publication Support

PROGRAM OBJECTIVES

- Equip students with next-generation civil engineering skills
- Make them AR/VR construction-ready, AI/ML aware, and BIM certified
- Enable job placement in top Indian and international infra/real estate/tech firms by 2026–2027



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CURRICULUM STRUCTURE

MODULE 1: CORE FOUNDATIONS

- Structural Design Basics (RCC + Steel)
- Building Codes & Smart Construction Standards
- Project Estimation and Quantity Take-off (BOQ)
- 2D & 3D Architect Designing
- Revit Essentials (Modeling & Families)

MODULE 2: BIM & DIGITAL TWIN TECHNOLOGIES

- Advanced Collaboration with tech Stack & models Development
- Detection principles & RCC Modelling
- Creating and Managing Digital Twins (Infrastructure + Building)
- Hands-on Projects -1
- Web /Mobile Application Foundation (Elective -1)
- Project on Application

**Live Projects Assignments &
Architecture Planning,Designing
Modelling with AI**



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MODULE 3: AI & MACHINE LEARNING FOR CIVIL ENGINEERS

- Basics of Python for Civil Engineers
- AI Use Cases:
- Concrete Strength Prediction
- Structural Failure Detection
- Soil Stability Analysis with ML
- Smart Drainage and Water Management Systems
- Tools: Google Colab, Scikit-Learn, TensorFlow (lightweight)



MODULE 4: AR/VR IN CONSTRUCTION

Most Civil Engineers won't know this – our students will lead the future. Be the early bird .

- Introduction to AR/VR & MR (Mixed Reality)
- AR for Site Walkthroughs (Unity + 3D Models)
- VR-based Structural Visualization (Oculus Quest, HTC Vive compatible)
- Digital Construction Workflow with HoloLens/ARKit
- Create Your Own Models on AR/VR
- Virtual 3D Building Model Tour
- Augmented BIM Overlay on Site Plans

MODULE 5: SMART INFRASTRUCTURE & IOT

- Introduction to IoT in Civil Infrastructure
- Sensor Integration for Smart Roads & Bridges
- Real-time Monitoring Dashboards using Node-RED & Blynk
- Smart City Planning: Transport, Water, Waste, Energy
- Case Studies: Singapore, Dubai, Germany

Real-world immersive Projects with Internship



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WE ARE HIRING

JOIN OUR PROFESSIONAL TEAM

Open Positions :-

- AI & ML Engineer
- Ai Agents & LLM's Developer
- Administration staff
- Marketing & Business Consultant
- Business Analyst
- Full Stack AI Web 3.0 Developer
- Mobile App Developer (Android & iOS (D-Apps))
- GeoScientist (Geology & GeoPhysics)
- Energy Sector Engineer
- Data analyst & Data science
- Geo-Technical Engineer
- Environmental Data Engineer (AI)
- Blockchain Developer
- Senior Software Engineer (SDE-II)
- And More.



Visit for More



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Technology Company

OUR PROJECTS

We are a team of IIT
alumni

- Quantum Computing Applications
- Multi AI-Agents
- Blockchain Technology
- GeoSciences
- Energy/oil sector & Renewable Energy
- Smart Grid Environmental Data Prediction Models
- Product & Service based Business Apps

Remote Roles

Qualifications :

- Experience in Real Time work/ Projects
- Good communication skills
- Collaborate with our team
- Quick learner and open to feedback
- Proficient in Multi cloud & tech tools
- Hybrid Model



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Thank You for choosing our Platform



COMPANY PROFILE



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AN IIT ALUMNUS PLATFORM

**Empowering learners globally with quality education
and training content for new approach to learning
paradigms**

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