



VISION MATRIX INSTITUTE

100% ONLINE · LIVE INSTRUCTOR-LED VIRTUAL CLASSES



Build your future with
technical excellence.

**ELECTRICAL DESIGNING — DATA CENTER
SPECIALIST**

Inaugural batch · Live instructor-led · India-focused curriculum

www.visionmatrixinstitute.com · +91 99302 59997

info.visionmatrix@gmail.com

Technical excellence, delivered online.

Founded in 2025, Vision Matrix Institute empowers students with technical education online, reaching learners across India and beyond. Through modern virtual classrooms, experienced faculty, and an industry-aligned curriculum, we specialise in Computer Applications, CAD/CAM, BIM, and the Electrical Design and Data Center Specialist programs that today's digital-infrastructure economy demands.

14	400+	20 MW
Modules	Pages of Content	Capstone Project

OUR VISION To be the leading online technical education institute — recognised for excellence, innovation, and transforming lives through quality education.	OUR MISSION To provide quality technical education that empowers students with industry-relevant skills and prepares them for successful careers in the digital age.
---	---

Our Core Values

- Excellence in every session — live, interactive, industry-standard.
- Practice over theory — real deliverables, real tools, real hiring rubrics.
- Access without borders — quality education from any city, any country.
- Community over transactions — mentorship, alumni support, career-long guidance.

WHY CHOOSE VISION MATRIX INSTITUTE

The online institute built for career outcomes.

INDUSTRY-FOCUSED · Every course written for real hiring needs — Electrical Design, Data Center, BIM, AutoCAD, and more.

LIVE INTERACTIVE CLASSES · Real-time sessions with instructors, not pre-recorded videos alone. Every class recorded for review.

EXPERT INSTRUCTORS · Learn from industry professionals with years of practical experience and academic excellence.

LATEST SOFTWARE · AutoCAD, Revit MEP, Navisworks, ETAP, DIALux EVO, Bluebeam — plus AI copilots across the workflow.

PRACTICAL CASE STUDIES · Real project conditions, real vendor landscape, real Indian statutory pathways.

CAREER-ORIENTED · Every skill maps to a role a hiring manager is filling today. Every deliverable is portfolio-quality.

JOB READINESS · Interview preparation, mock rounds with senior engineers, resume review, and portfolio packaging built into the curriculum.

CERTIFICATION · LinkedIn-verifiable digital credential with QR-linked portfolio at course completion.

LEARN FROM ANYWHERE · All you need is an internet connection. Join from any city or country — recorded sessions available anytime.

Fourteen modules across four progressive stages.

Every module builds on the previous. The program culminates in a full 20 MW Tier III capstone — walking a real data-center project from client brief to operator handover.

STAGE 1 · FOUNDATION *Modules 1–4 · The vocabulary, physics, equipment, and standards of the DC industry*

M01 · Introduction to Data Centers

What data centers are, how they classify (colocation, hyperscale, edge), Tier levels, key Indian operators, and the ₹1.5 L Cr market opportunity.

M02 · Electrical Engineering Fundamentals

Three-phase power, power factor, harmonics, transformer basics, DG basics — the electrical vocabulary every DC engineer needs.

M03 · Electrical Equipment

Utility interfaces, MV switchgear, transformers, DG plants, UPS systems, and LT distribution — with real Indian vendor specifications.

M04 · Data Center Design Standards

TIA-942-C, Uptime Tier, IEC 61936, IEEE 519, NFPA 855, ASHRAE 90.4, IGBC, NBC 2016, and CPCB IV+ — current to mid-2026.

STAGE 2 · DESIGN *Modules 5–8 · The design process from client brief to Issued-For-Construction drawings*

M05 · Electrical Design Process

Basis of Design, concept-through-IFC workflow, design reviews, deliverables at every stage gate.

M06 · Load Calculations

Rack-to-facility load estimation, diversity factors, growth allowances, and ETAP-verified calcs.

M07 · Single-Line Diagrams

SLD drafting in every redundancy topology (N, N+1, 2N, 2N+1) with IEC 60617 symbols and protection coordination.

M08 · Electrical Layout Design

Substation, DG yard, UPS room, and data hall layouts with clearances, ventilation, cable routing, and fire compartmentation.

STAGE 3 · DELIVERY *Modules 9–12 · Software mastery, vendor engineering, site work, and the capstone project*

M09 · BIM and Software

AutoCAD, Revit MEP, Navisworks, ETAP, DIALux EVO, Bluebeam, ACC / BIM 360 — with real project workflows.

M10 · Vendor Engineering

RFQ preparation, weighted Technical Bid Evaluation, vendor drawing reviews, FAT witnessing, compliance registers.

M11 · Site Engineering

Installation supervision, testing procedures, commissioning, integrated systems testing, snag lists, handover.

M12 · Capstone Project

BharatDCX Hyderabad Phase-1 — a 20 MW Tier III colocation walked end-to-end from client brief to operator handover.

STAGE 4 · CAREER *Modules 13–14 · Interview readiness and AI-augmented engineering workflow*

M13 · Interview Preparation

Technical Q&A across every DC topic, case studies, resume review, portfolio packaging, and mock interview rounds.

M14 · AI for Electrical Engineers

Claude, ChatGPT, Copilot, Perplexity, NotebookLM — integrated across load calcs, drafting, spec writing, and design review.

The specialist path for every stage of an electrical career.

- Fresh graduates in Electrical or Electronics Engineering seeking a career-launching credential. - Diploma engineers moving from operator or supervisor roles into design engineering. - Working professionals transitioning from conventional MEP into data-center specialisation. - MEP engineers expanding into a higher-value, faster-growing sub-domain. - Electrical design engineers developing expertise in mission-critical facilities.	- BIM engineers adding electrical-specific competence to their software skills. - Consultants seeking a competitive credential to differentiate in DC-focused RFPs. - EPC professionals adding design-office fluency to site execution experience. - Career-changers seeking a decisive entry point into India's fastest-growing infrastructure industry.
---	--

C A R E E R O P P O R T U N I T I E S

Where the program takes you.

R O L E S Y O U C A N T A R G E T	I N D U S T R I E S H I R I N G N O W
- Electrical Design Engineer - BIM Engineer — Electrical - Electrical BIM Coordinator - Data Center Electrical Consultant - Project Engineer at DC operators - Commissioning Engineer - Data Center Facility Engineer - Design Manager / Lead	- Design consultancies — AECOM, Arup, WSP - EPC contractors — Sterling & Wilson, L&T, Shapoorji - Colocation operators — Yotta, STT GDC, AdaniConneX, CtrlS, Sify, Nextra - Hyperscalers — Microsoft, Google, Meta, AWS, Oracle - Equipment vendors — Vertiv, Schneider, Cummins, ABB - Third-party commissioning agencies

Career Growth Path

0 - 2 Y R S	2 - 5 Y R S	5 - 10 Y R S	10 - 15 Y R S	15 + Y R S
Design Engineer	Senior Engineer	Lead Engineer	Principal / Manager	Practice Head

India's data-center capacity is set to triple from 1.5 GW to 5+ GW by 2030 — tripling the addressable market for DC electrical designers.

On graduation, you can walk into any data-center design office and be productive from Week 1.

Every outcome below is measurable, portfolio-ready, and directly matches a hiring rubric used by consulting firms, EPC contractors, and DC operators today.

▪ Interpret client briefs and convert them into signed Design Basis documents. ▪ Perform site studies including utility interface, soil resistivity, and statutory analysis. ▪ Build load estimates from rack level to facility level with correct diversity allowances. ▪ Size transformers, DG sets, UPS systems, and battery banks for any DC scale. ▪ Calculate cable sizes, breaker ratings, and fault levels using ETAP and hand verification. ▪ Draft single-line diagrams in every redundancy topology with correct IEC 60617 symbols. ▪ Design physical layouts with clearances, ventilation, and fire compartmentation.	▪ Compile complete tender packages — drawings, calculations, BOQ, and specifications. ▪ Prepare weighted Technical Bid Evaluations and witness Factory Acceptance Tests. ▪ Supervise site installation, commissioning, and integrated systems testing. ▪ Present portfolio-quality capstone projects at interviews with confidence. ▪ Answer any DC electrical technical interview question — from load flow to arc flash. ▪ Use AI copilots productively across the entire design workflow. ▪ Operate confidently in vendor negotiations, FAT floors, and client reviews.
---	--



Your future in technical engineering starts with a single decision.

Live interactive classes · Learn from anywhere · Portfolio-driven certification

New batches commence quarterly. Book your free demo today.

ENROL TODAY →

CALL / WHATSAPP

+91 99302 59997

EMAIL

info.visionmatrix@gmail.com

WEBSITE

www.visionmatrixinstitute.com

CONNECT WITH US

Facebook · facebook.com/visionmatrixinstitute

Instagram · instagram.com/visionmatrixinstitute

YouTube · youtube.com/@visionMatrixInstitute

Office Hours · Monday-Saturday · 9:00 AM – 6:00 PM IST

100% Online · Live Instructor-Led Virtual Classes