FICOX®

POWER & INFRASTRUCTURE FIRM

ENGINEERING EXCELLENCE | SUSTAINABLE INFRASTRUCTURE | INTEGRATED SAFETY

Better Systems for a Safer, Greener Tomorrow

FICOX

ELECTRICAL ARCHITECTURE ENGINEERING

PROFESSIONAL SKILL & MENTORSHIP PROGRAMME

Multidisciplinary Power, Electrical Architecture, Integrated Audit & Sustainable Infrastructure Practice



LIMITED SEATS — MAXIMUM 10 PARTICIPANTS / YEAR

PROGRAMME FOCUS

- Power Systems
- Electrical Architecture Engineering
- Building Electrical Systems
- Energy Management
- Electrical Safety
- Renewable Energy
- EV & Green Infrastructure
- Integrated Multidisciplinary Audit (7-in-1)
- Integrated Living Science Assessment

PROFESSIONAL MENTOR

Dr. Chandan Kumar Sah

Ph.D. (EEE) | M.E. (Power Systems)
Multi-M-Sc. (Green Buildings | Vastu-Vedic Science)
B.Sc. (Interior Design) | Multi-PG Diploma
Registered Professional Engineer (ECI, Bharat)

- ✓ Principal Multi-Disciplinary Power & Infrastructure Specialist
- ✓ Chief Multi-Disciplinary Systems Auditor
- ✓ Integrated Living Science Assessment Engineer

Pioneer of India's 1st Integrated Single-Window Audit System



ELIGIBILITY
ONLY M.E./M.Tech.
in Power Systems Engineering

PROPOSED FEE
₹51,000 / Participant
Maximum 10 Participants / Year

Learn • Practice • Grow
Build a Sustainable Future

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Website: www.ficox.in
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PROGRAMME OVERVIEW

Bridging the Gap Between Academic Learning & Real-World Practice

The FICOX Electrical Architecture Engineering – Professional Skill & Mentorship Programme is a limited-seat, advanced, practical and multidisciplinary programme designed for M.E./M.Tech. (Power Systems) professionals.

It focuses on developing advanced practical skills in power systems, electrical architecture engineering, building electrical systems, energy management, electrical safety, renewable energy, EV & green infrastructure, and integrated multidisciplinary audit with Integrated Living Science Assessment.

The programme connects advanced engineering knowledge with real-world building, infrastructure and sustainable development applications.



OUR VISION

To develop advanced power-system professionals with practical electrical architecture, building systems, integrated audit and sustainable infrastructure skills.

DURATION & MODE

4 MONTHS
(Intensive & Focused Learning)

HYBRID MODE
(Online + Offline)

- **Online Sessions** (Theory & Concepts)
- **On-Campus Sessions** (Practical, Project & Lab)

Flexible learning | Expert guidance | Practical exposure

ELIGIBILITY

ONLY
M.E./M.Tech.
In Power Systems Engineering

- ✔ Final year / Passed candidates (As per university norms)
- ✔ Strong academic background and interest in advanced learning
- ✔ Preference for candidates with project experience (if any)

LIMITED SEATS
MAXIMUM 10 PARTICIPANTS / YEAR

PROGRAMME INVESTMENT

₹51,000 / Participant

Total Annual Cohort Value
₹5,10,000/-

The fee includes the complete professional skill & mentorship programme. Final fee structure and payment schedule may be mutually decided with the institution.

KEY HIGHLIGHTS

- Power Systems
- Electrical Architecture Engineering
- Building Electrical Systems
- Energy Management
- Electrical Safety
- Renewable Energy
- EV & Green Infrastructure

WHY CHOOSE FICOX?



- Practical Learning
- Expert Mentorship
- Real-World Projects
- Multidisciplinary Approach
- Integrated Audit & Assessment
- Sustainable Solutions
- Industry-Academia Collaboration
- Career Growth

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TECHNICAL LEARNING

MULTIDISCIPLINARY POWER & INFRASTRUCTURE DOMAINS

Gain in-depth knowledge and practical skills across multiple disciplines for real-world applications in power, buildings and sustainable infrastructure.

1 POWER SYSTEMS ENGINEERING

- Power System Analysis
- Stability & Protection
- Power Quality
- Renewable Integration
- Advanced Applications

2 ELECTRICAL ARCHITECTURE ENGINEERING

- Building Electrical Planning
- Load Calculation
- Electrical Architecture Drawings
- SLD & Distribution Planning
- Electrical-Architectural Coordination

3 BUILDING ELECTRICAL SYSTEMS

- HT/LT, Transformer, DG, UPS
- Distribution & Protection
- Earthing & Liphtning Protection
- Building Electrical Safety

4 ENERGY MANAGEMENT

- Energy Audit & Efficiency
- Energy Conservation
- Energy Performance
- Sustainable Energy Planning

5 ELECTRICAL SAFETY

- Hazard Identification
- Risk Assessment
- Protection & Earthing
- Electrical Fire-Risk Interface
- Safe Installation & Operation

6 RENEWABLE ENERGY

- Solar PV & Rooftop Solar
- Renewable Integration
- Energy Storage
- Green Building Energy Systems

7 EV & GREEN INFRASTRUCTURE

- EV Charging Infrastructure
- EV Load Assessment
- Protection & Integration
- Solar-EV Synergy
- Sustainable Mobility



COMPLETE LEARNING CYCLE

Theory → Engineering Analysis → Design → Calculation → Electrical Architecture Drawing → Building Systems → Energy & Safety → Integrated Audit → Living Science Assessment → Renewable Energy → EV Infrastructure → Technical Report → Solution & Implementation



KEY OUTCOMES

- ✔ Integrated Multidisciplinary Knowledge
- ✔ Practical Project Exposure
- ✔ Real-World Problem Solving
- ✔ Professional Confidence
- ✔ Pathway to Consultancy & Entrepreneurship

DURATION & MODE

4 MONTHS
(Intensive & Focused Learning)

HYBRID MODE
(Online + Offline)

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6. Programme Learning Areas

The programme integrates technical knowledge, practical exposure and professional mentorship across key areas:

1. **Power Systems and Electrical Architecture Engineering**
   - Power system analysis and design
   - Electrical architecture concepts
   - Grid integration and smart systems

2. **Building Electrical Systems and Electrical Architecture Drawings**
   - Building electrical design and layout
   - Lighting, earthing and protection systems
   - Electrical architecture drawings (CAD/BIM)

3. **Energy Management and Electrical Safety**
   - Energy audit and efficiency
   - Load management and monitoring
   - Electrical safety standards and practices

4. **Renewable Energy, EV & Green Infrastructure**
   - Solar, wind and hybrid systems
   - EV charging infrastructure
   - Green buildings and sustainable design

5. **FICOX 7-in-1 Integrated Multidisciplinary Audit**
   - Electrical & power systems
   - Fire safety
   - Industrial safety
   - Energy management
   - Environmental assessment
   - Spatial assessment
   - Infrastructure/project support

6. **Integrated Living Science Assessment**
   - Health, comfort and well-being
   - Indoor environment quality
   - Sustainable living and future readiness

7. **Practical Project Exposure, Technical Review and Professional Mentorship**
   - Real-world project case studies
   - Technical report writing
   - Industry expert interaction
   - Career guidance and mentorship









Programme Objectives

- Bridge the gap between academic knowledge and industry requirements.
- Develop multidisciplinary technical skills.
- Provide practical project exposure and hands-on learning.
- Foster professional growth through mentorship and industry interaction.

Key Outcomes

- Enhanced technical and practical skills
- Ability to work on multidisciplinary projects
- Exposure to real-world industry practices
- Professional network and mentorship
- Career readiness for higher roles and consultancy



Programme Mode

Hybrid
(Online + Offline)
Flexible learning with practical exposure.

Eligibility

M.E./M.Tech. in Power Systems Engineering
(Only)

Annual Intake & Fee

Maximum 10 Participants
Proposed Fee:
₹51,000
per participant

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PROFESSIONAL DEVELOPMENT & ENTREPRENEURSHIP PATHWAY

Build Skills → Gain Experience → Create Value → Build Your Future

YOUR GROWTH JOURNEY

1. **M.E./M.Tech. Power Systems Engineering** (Your Foundation)
2. **Advanced Electrical Architecture Skills** (Build Expertise)
3. **Building Electrical / Infrastructure Projects** (Gain Practical Exposure)
4. **Multidisciplinary Audit & Assessment** (Broader Perspective)
5. **Professional Project Experience** (Build Portfolio)
6. **Applicable Registration / Authorisation** (Meet Standards)
7. **Professional Consultancy** (Serve Industry & Society)
8. **Entrepreneurship / Own Professional Practice** (Create Your Future)

KEY PROFESSIONAL DEVELOPMENT AREAS

- **Practical Project Based Learning**
  Real-world projects and field exposure.
- **Individual Mentorship**
  Personal guidance and career support.
- **Technical Review**
  Quality assurance and professional standards.
- **Professional Project Experience**
  Hands-on industry and infrastructure projects.
- **Integrated Audit & Assessment**
  Multidisciplinary exposure and problem solving.
- **Professional Consultancy**
  Industry and government project support.
- **Entrepreneurship / Own Practice**
  Build your own consultancy and business.
- **University / College Collaboration**
  Industry-Academia partnership and exposure.

PROFESSIONAL ENTREPRENEURSHIP PATHWAY

(Step by Step)

1. **M.E./M.Tech. Power Systems** (Your Foundation)
2. **Advanced Electrical Architecture Skills** (Build Expertise)
3. **Practical Projects** (Gain Hands-on Experience)
4. **Multidisciplinary Audit & Assessment** (Broader Perspective)
5. **Professional Experience** (Build Portfolio)
6. **Applicable Registration / Authorisation** (Meet Standards)
7. **Consultancy** (Serve Industry & Society)
8. **Entrepreneurship / Own Practice** (Create Your Future)

Your Skills Today ... Your Impact Tomorrow



From Learning to Leading



PROGRAMME OVERVIEW

Duration
4 Months

Mode
Hybrid
(Online + Offline)

Batch Size
Maximum 10 Participants / Year

Invest in Your Professional Growth

- Gain Advanced Skills
- Get Real-World Exposure
- Build Your Network
- Create Your Future

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OUR MENTOR

Dr. Chandan Kumar Sah

Principal Multi-Disciplinary Power & Infrastructure Specialist
Chief Multi-Disciplinary Systems Auditor

Integrated Living Science Assessment Engineer

Academic Qualifications

- Ph.D. (EEE) –
- M.E. (Power Systems)
- B.E. (EEE)
- M.Sc. (Green Buildings)
- B.Sc. (Interior Design)
- M.Sc. (Vastu Science – Vedic Architectural)

Post Graduate Diplomas (5)

- Electrical Safety & Safety Management
- Energy Management & Energy Audit
- Fire Safety Management
- Industrial Safety Management
- One Additional PG Diploma

Others

- ECI Registration
- Technical Focus: Electrical Architecture Engineering, Building Systems, Integrated Audit & Sustainable Infrastructure.

From Knowledge to Practical Solutions



FICOX PROFESSIONAL ECOSYSTEM

- Power Systems
- Electrical Architecture Engineering
- Safety Management
- Energy Management
- Environment & Pollution Control
- Vedic Spatial & Vastu
- Infrastructure & PMC

FICOX – Integrated Green Energy & Infrastructure Consultancy

- ✔ PM-KUSUM Integration (Solar / Renewable Energy)
- ✔ Services for Private + Government Industry
- ✔ Fire Safety Audit Empanelment Support
- ✔ Consulting Firm based Implementation
- ✔ **Bharat Sustainable Building Council** (Proposed)
  Shaping India's Green Built Future

Directors: Chandan Kumar Sah | Sushila Kumari

Integrated Sustainable Development

OUR NETWORK – CONSULTATION CENTRES

Delhi | Patna | Kolkata | Ranchi | Lucknow | Jaipur | Pune | Chennai

CERTIFICATE

- ✔ Hands-on Practical Projects
- ✔ Individual Mentorship & Guidance
- ✔ Technical Review & Evaluation
- ✔ Professional Project Experience
- ✔ Integrated Audit & Assessment
- ✔ Professional Consultancy Exposure
- ✔ Entrepreneurship / Own Practice Support
- ✔ University / Industry Collaboration

DURATION & MODE

4 MONTHS
(Intensive & Focused Learning)

HYBRID MODE
(Online + Offline)

PROGRAMME INVESTMENT

₹51,000 / Participant

(Maximum 10 Participants / Year)

WHO CAN APPLY?

ELIGIBILITY (ONLY)

M.E./M.Tech.
in Power Systems Engineering

(With strong academic background and interest in advanced learning)

IMPORTANT NOTE

- ✔ **Limited Seats** – Maximum 10 participants / year
- ✔ Selection based on academic record, interest & suitability
- ✔ Admission after interaction and evaluation
- ✔ Programme fee to be paid as per schedule
- ✔ Travel allowance will be extra
- ✔ 50% advance payment (at the time of confirmation)



Get in Touch

Ficox.ee@proton.me
www.ficox.in
HVS Complex, Gamitola
Katihar District, Bihar, Bharat

Statutory Disclaimer
This programme is a professional skill development initiative and does not guarantee employment, certification or any statutory recognition. All terms and conditions are applicable.

With Best Wishes,
Dr. Chandan Kumar Sah