

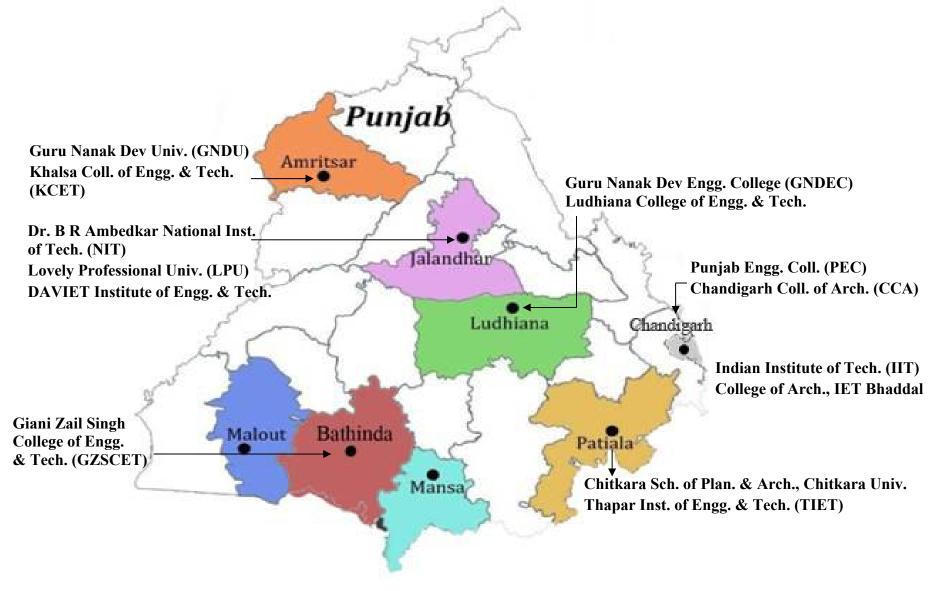
Built Structures -Skill Up-Gradation Training PUNJAB

Certified by Guru Nanak Dev Engineering College, Ludhiana





Locations for Training in the State of Punjab





Objectives of the Programme

Upgrade existing skill of Engineers through a Certified Training Program conducted in reputed institutes across various states in India.

- Upgrade & Strengthen existing knowledge base of practicing Civil Engineers / Architects, on Building Construction.
- Relate theory to practice in the regional context for Environment and Climate responsive Materials, Products & Services.
- Hone Computer application skills on technical interventions.
- Adopt new Technologies to address challenges in the existing and new built structures.



Outcome of the Programme

- A better understanding of new Products, Processes and Construction Techniques as well as Design & Construction Management.
- Academia Industry connect with Interactive sessions focusing on challenges of work in real life situations, and on ground Experiences, with practical problem solving skills.
- Upgraded Design & Build skills relevant to modern requirements with use of information technology in a world of Global Warming & Climate Change.
- Hand holding support initiatives (post training) by both faculty & industry to build an ecosystem of professional excellence.



Need Assessment Form

	Dee	
• Name:	Pag	
Contact details:		Year Project description in short Structural
Address (Office):		Electrical
(Residence):		Plumbing
 Telephone (Mobile): 		HVAC
 Telephone (Landline): 		Any other
Email:		Europhics / Knowledge / Internet Invols in fields of
• Gender: M F		Expertise / Knowledge / Interest levels in fields of - Image: Tick in the appropriate box: Most Interested Less Existing
• Age:		Interested Interested Expertise
Academic Qualification:		Construction Rapid building construction and emerging technologies
		Innovations in Concrete Construction: Prefabricated
• Institute:		Innovations in Steel Construction: Composite steel
Year in which qualified:		Innovative Materials & Products: Glass, Paints, Surface Finish
 Any other Professional Training undertaken: 		Innovative Waterproofing Products & Solutions
Employment Details : Self employed		Retrofit Solutions for Existing Built Structures
Working in a company or firm		Repair: Problems & Solutions
• Work Experience (in years):		Regional Use of locally available materials in building construction
 Projects undertaken with year of completion - 		Alternative Building Techniques: in the local context
Residential Commercial	Institutional	Disaster Proof Structures: Earthquake, Fire & Safety Systems
No. of Projects No. of P		Sustainable Building techniques: Right Steps in Right Order
✓ Completed Year ✓ Complete		Sustainable Built Structures
G+1 Offices	Hospitality	Energy Management: Alternative energy systems
G+2 Shops Shops	Healthcare	Water Management: Water recycling, Phytorid system
		Waste Water Management: STP, Grey water recycling
G+3 Malls	Resorts	Solid Waste Management: MSW, Demolition W, Composting
		Building Integrated Management Systems - BIMS
G+ 4 Others	Hotels	Urban Farming Techniques in Buildings - Roof gardens
High rise	Restaurants	Suggestions, (any other) for specific learning needs.
		Key expectations from the training.





IGM: Interaction with Practicing Architects & Engineers for Need Assessment





Amritsar, Punjab Oct. 6 to Dec. 1, 2018



LAUNCH CEREMONY -1

Date: Oct. 6, 2018 at Hyatt Hotel, Amritsar



Mr. Arun Hamda (MRH), Mr. Subramaniam (Tata Tiscon), Mr. Pradeep Malhotra (MRH), Dr. Harpal Singh (GNDEC), Dr. Behl (GNDU), Prof. Kulbir S Gill (GNDEC), Dr. H S Rai (GNDEC), Dr. Bikramjit Singh (KCET), Dr. Jagbir Singh (GNDEC), Ms. Sangita Kapoor (Blue Planet)



Session -1: Oct. 6, 2018



Architecture in a Warming World -Good Building Design Practices for Architects. Ms. Sangita Kapoor Sustainability Consultant, Blue Planet.



Good Building Practices - Building Design & Construction.

Dr. H S Rai Professor - GNDEC Ludhiana

Session -2: Oct. 13, 2018

Good Practices for Contemporary Climate Responsive Architecture in Punjab Building Envelop, Orientation, Day Light & Ventilation.

How a good building is supposed to do all this and more.....be resource efficient, consume less energy to build and run, low maintenance, long life, produce less Waste + Be Functional, Comfortable, Climate responsive, Cost effective, Aspirational & Aesthetic too !

Ar. Siddhartha Wig B.Arch. SPA, Delhi, M.Tech.in Building Science & Construction Management





Session -3: Oct. 27, 2018

Geotechnical Aspects in Building Construction -The Indian Scenario & Scope for Improvement. Soil & its behaviour, Soil Testing.

Dr. Kulbir Singh Gill HoD - Civil Engg. Dept., GNDEC, Ludhiana



Ground Improvement: Problems & Approach for Solutions.

Dr. Charanjeet Singh GNDEC, Ludhiana





Water & Waste Management Practices in Dwelling Units, Solid Waste Management, Water Conservation in Built Environment & Wastewater Treatment/Management: Technological Options.

Dr. Siby John HoD - Civil Engg. Dept., PEC, Chandigarh



Right Steps in the Right Order for Systems Approach to Built Structures - Heating, Cooling, Lighting & Ventilation.

Ms. Sangita Kapoor

Session -5: Nov. 10, 2018



Building Information 3D Modeling Computer Application for Architecture, Engineering, Construction & Operations Industry.

Dr. H S Rai, TIET, Patiala

Session -6: Nov. 17, 2018



Practical Solutions, Innovations & Techniques for Building Construction to Reduce Costs, Ensure Quality & Efficacy through Selection of Materials.

Dr. Harvinder Singh GNDEC, Ludhiana



Session -7: Nov. 24, 2018 Earth quake Resistant Design of Concrete Structures, Fatigue Behaviour, Technology

Structures, Fatigue Behaviour, Technology & Recycling of materials in concrete.

Dr. S P Singh Dean - Plan. & Development, NIT Jalandhar



Hands on Training on Concrete Testing Structure Health Monitoring using Destructive & Non destructive Techniques. Dr. Jagbir Singh GNDEC, Ludhiana



Concluding Session -8: Dec. 01, 2018 Natural & Artificial Lighting Space Planning: Designing Inside Out Aesthetics & Language of Design in Architecture.

Creating Aesthetic Impact through use of Lighting, Colours & Paints in Landscape, Exterior & Interior Spaces in Built Structures.

Ms. Sangita Kapoor



CLOSING CEREMONY

Date: Dec. 10, 2018 at Hyatt Hotel, Amritsar



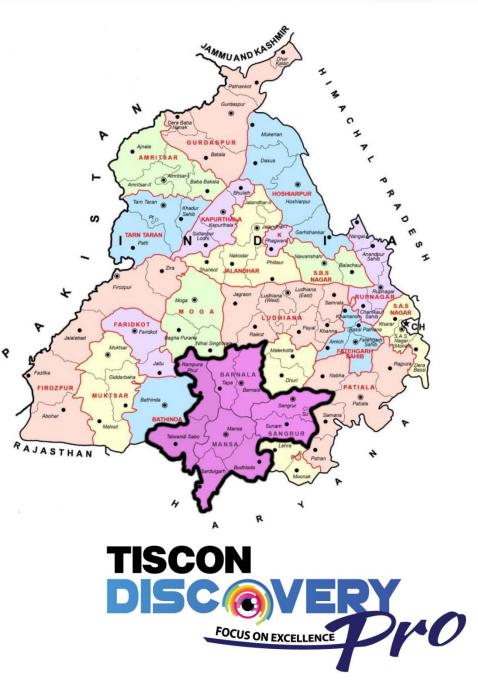






Mansa, Punjab March 30 to April 27, 2019

- 1. Budhlada
- 2. Bareta
- 3. Barnala
- 4. Bhikhi
- 5. Bhoa
- 6. Dhanaula
- 7. Joga
- 8. Mansa
- 9. Rampura
- 10. Sangrur
- 11. Sardulghar
- 12. Sunam
- *13. Tapa*
- 14. Talwandi







LAUNCH CEREMONY -1

Date: March 30, 2019



Training Session in Progress





Session -1

Date: March 30, 2019

Principles of Architectural Planning
& Design
Ms. Sangita Kapoor (Director, Blue Planet)

Session -2

Good Practices & Innovations in Concrete Construction

Dr. Jagbir Singh (Professor, GNDEC, Ludhiana)





Date: April 6, 2019



Session -3

Practical Solutions to Reduce Cost, Improve Quality through Innovative Techniques & Materials for Good Building Construction: Steel & Concrete

Prof. Harvinder Singh (GNDEC, Ludhiana)





Date: April 6, 2019

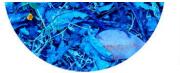
Session -4



Electrical Services for Single Dwelling Units Dr. Arvind Dhingra (GNDEC, Ludhiana)

HVAC for Single Dwelling Units Prof. Gagandeep S Sodhi (GNDEC, Ludhiana)







Session -5

Date: April 13, 2019

Good Practices for Contemporary Climate Responsive Architecture in Punjab Ar. Siddhartha Wig (Chandigarh)



Session -6

Basics of Plumbing Design in Low Rise Buildings Mr. Sahil Kansal (Consultant, Public Health Engg., Chandigarh)





Session -7

Date: April 19, 2019

Geotechnical Aspects in the Building Planning; Understanding Relationship of Soils & Foundation Techniques Prof. Gurprit Bath (GZSCET, Bathinda)

Session -8

Testing: Concrete & Soil Practical Demonstration Dr. Jagbir Singh









Session -9

Date: April 27, 2019

Surface Finishes, Materials & Products: Roofs, Ceilings, Walls & Floors Ms. Sangita Kapoor (Director, Blue Planet)



Session -10

Bye-Laws for Architectural & Engineering Practices *Er. Kapil Arora*



CLOSING CEREMONY

Date: April 27, 2019







Faculty, Industry Experts and Practicing Architects & Engineers