



# ECONSTRUCT

DESIGN & BUILD PVT. LTD.

DESIGN | BUILD | DELIVER

## Our Services:

- CONSULTANCY
- CONSTRUCTION
- CORPORATE TRAININGS



[www.e-construct.in](http://www.e-construct.in)

## Address:-

2<sup>nd</sup> Floor, Venkatdhari Heights, Parapanna Agrahara Main Road,  
Opposite Sai Poorna Premier Apartment, Kudlu,  
Bengaluru, Karnataka - 560068

Are you planning for a Successful Career in Civil Industry?



DO YOU HAVE A PLAN TO MAKE SUCCESSFUL CAREER  
IN THE CIVIL INDUSTRY?Eco-system of a Civil Engineer

<https://www.youtube.com/watch?v=qWyg8Qrn5N8>

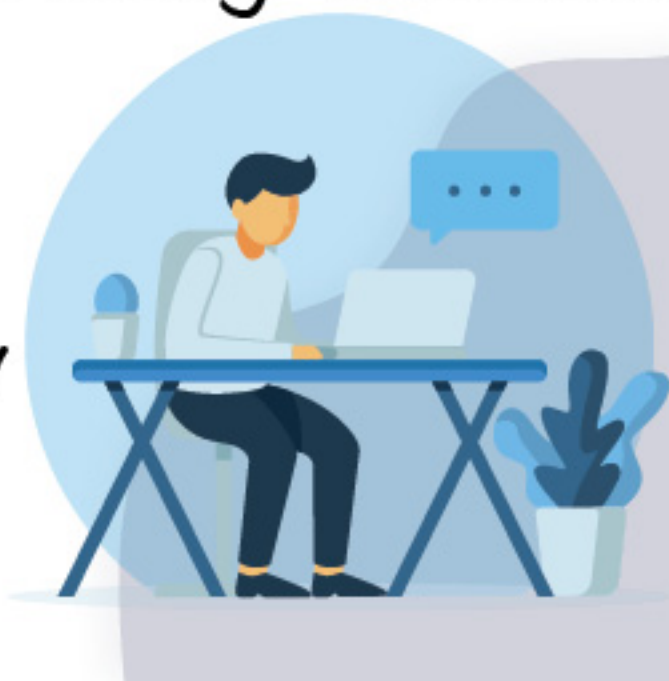
Tap the link







All the Master Study Courses  
are available  
in Online Now



# TECHNICAL PROJECT COMPETITION

## @ECONSTRUCT



**" Technical Project Competition "**  
among Master Study trainees @ Econstruct





# TECHNICAL PROJECT COMPETITION

## TEAMS





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## Services offered by Econstruct



01

ENGINEERING  
CONSULTANCY

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02

CIVIL  
CONSTRUCTION

---



03

CORPORATE  
ON-JOB  
TRAINING

---



04

ONLINE  
TECH-SUPPORT

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# MANAGEMENT TEAM

## *From the Managing Director's Desk*

---

He has over 18+ years of experience in Civil & Structural engineering. International experience in structural analysis, Design, Execution and Management of up to G+81 Storey Structure in Dubai. He has worked with a various Multidisciplinary organization that has given him "State of Art" in providing the services with International quality standards. He has worked by considering various International codes like ACI, CEBFIP, BS codes, IS codes that gave him the excellent exposure and immense knowledge about the civil engineering area. He holds unlimited structural license in Highrise Committee of Mumbai Corporation.



Mr. Sandeep Pingale  
Founder & Managing Director

## *From the Jt. Managing Director's Desk*

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Mrs. Shraddha Pingale  
Jt. Managing Director

She is a M.Tech Graduate from a recognized university who co-founded ECONSTRUCT Design & Build Pvt Ltd. Well-known for her innovative techniques in Business Development, Creative Strategies, Brand Building, Corporate Trainings for Entrepreneurship. Her entrepreneurship skills and strategic skills led the training department to emerge as the first of its kind training throughout India.

# FREE

## INITIATIVES BY ECONSTRUCT

### ONLINE TECH SUPPORT

E-construct launches free Tech-Support for the first time in India  
Students can call for Career Counselling & Internships  
Working Professionals & Consultants

### WEDNESDAY WEBINAR

FREE Online Technical Training Webinar with Mr. Sandeep Pingale, Founder & MD your personal coach for Career in Civil Engineering.

Date : Every Wednesday  
Time : 7 PM onwards  
Venue : Online

### ACTIVITIES

Econstruct takes care of your Health by keeping a day-off for Extra Curricular Activities like Outdoor Games, Yoga, Meditation etc. for the well being of Students.

### EMPLOYABILITY TEST

Identify your current Technical Skillset v/s Corporate Requirement  
Have clarity in your career and plan your career in a Step by Step manner with us to achieve the desired result and success.

### ON-JOB INTERNSHIPS

Econstruct has taken 100+ Interns from India & Abroad.  
Internships are offered to Students pursuing Diploma/B.Tech/M.Tech in Civil.





months

7

ON-JOB TRAININGS EXCLUSIVELY  
FOR CIVIL & STRUCTURAL ENGINEERS

## Master Study Course



WHY GET TRAINED WITH  
**ECONSTRUCT ?**



Get working experience on live projects.

Know the complete project execution from start to end.

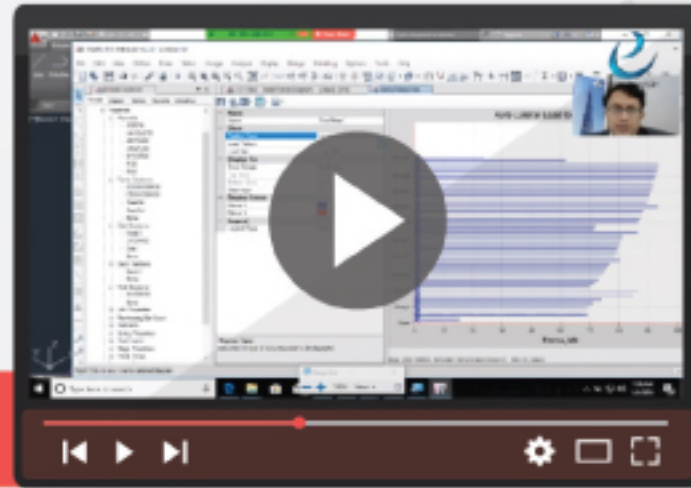
Get complete assistance to build your career from scratch.

Plan and upgrade your career step by step and get your dream Job in India or abroad.

# Free Webinar

## For Civil Engineers

LIVE  
ON  
 YouTube



#Wednesday 7pm

How to avail this Service ?

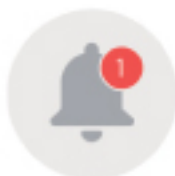
1



SUBSCRIBE

To Our Youtube Channel

2



Press The Bell Icon To Get The  
Notification About Our Webinar

# COME LIVE

# Every Wednesday @7pm



# FREE WEBINARS

## FREE PROGRAM EXCLUSIVELY FOR CIVIL/STRUCTURAL ENGINEERS

### Previous Webinars Conducted

Awareness : Opportunities for Civil Engineers in India and Abroad

Demo on ETABS, SAP2000, REVIT

Avenues for Civil Engineering in India & Abroad

Linear & Non Linear Static & Dynamic Analysis

Importance Of Finite Element Method Over Yield Line

Etabs + Rcdc Structural Detailing Drawings (GFC)



Opportunities for Civil Engineers - Demo on  
ETABS, SAP200, REVIT

[https://youtu.be/0s\\_c5KQcPxk](https://youtu.be/0s_c5KQcPxk)

Tap the link



Avenues for Civil Engineering in  
India & Abroad

[https://youtu.be/y\\_sjb5FiQxs](https://youtu.be/y_sjb5FiQxs)

Tap the link





# **FREE EMPLOYABILITY TEST**

**WE PROVIDE YOU  
CAREER GUIDANCE**

**IDENTIFY YOUR CURRENT SKILLSET  
TO ACHIEVE YOUR GOALS**

Employability Test measures your current SkillSet level and bridges gap between your current Skillset and industrial requirements. You need to spend only 8 Hours with Econstruct to know your Technical Skillset level as well as your personality score.

**FREE OF COST**

**CHECK YOUR SCORE NOW WITH THE HELP  
OF ECONSTRUCT TEAM.**



Are you confused about your career in Civil Engineer ?  
Are you struggling to get a right start in your career ?



**TEST YOUR EMPLOYABILITY  
SCORE FOR CIVIL / STRUCTURAL**

<https://youtu.be/pVD9nx1xdTI>

Tap the link 

Attend Employability test to have crystal clear clarity about your career.



**FAQ : EMPLOYABILITY TEST for  
Civil / Structural Engineering**

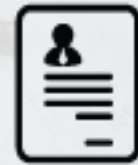
<https://youtu.be/nTd9WKxAvJo>

Tap the link 

# Benifits of getting trained from Econstruct



a. 7 or 14 Months Experience  
Letter from **ECONSTRUCT**



Portfolio with  
25+ Live Projects

b. Master Study Certification  
from **ECONSTRUCT**



Experience on Varied  
Variety of Softwares



Clarification on many  
Engineering Fundamentals



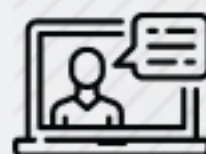
Getting Knowledge on  
Indian + International  
Codes



Employability Test for  
knowing your current  
skillsets



+



Lifetime Club Membership of Civil Studio and  
get access to Digital Library,  
200+ Ebooks, Codes and Videos



# Learning options @ ECONSTRACT

**Full Time  
ON-JOB Training  
@ Bangalore**

**Online  
Training**

**Master Study  
in  
Structural Engineering**

**7**  
Months

**Online Master Studies  
in  
Structural Engineering**

**7-12**  
Months

**Master Study  
in Project Management  
with BIM Technology**

**7**  
Months

**Online Master Study  
in Project Management  
with BIM Technology**

**7-12**  
Months

**Master Study  
Composite Course  
in  
Structures + BIM + PM**

**14**  
Months

**Online Master Study  
Composite Course  
in  
Structures + BIM + PM**

**14-24**  
Months

**Content for both Full-Time & Online Course is Same**



# COMPOSITE COURSE

months

14

Classroom Training  
Program

*It's a combination of* **2 Master Study Courses**

MS in  
Structures

MS in  
Project  
Management &  
BIM Specialist

Visual Resume  
+  
Interview  
Cracking &  
Software Skills





## Master Study Composite in Project Management + BIM + Structural Engineer

<https://www.youtube.com/watch?v=KZYCUcpxJ1k&t=4s>

Tap the link 



## Master Study in Composite Course in Structures, Project Management with BIM Technology

[https://www.youtube.com/watch?v=ok6Plartx\\_s](https://www.youtube.com/watch?v=ok6Plartx_s)

Tap the link 

Course Name	<b>Master Study Composite Course in Structures + Project Management + BIM Technology</b> This same course is available in Online in a Pre-recorded video format with the content as below & with same fees	
Course Type	Full time, ON-JOB Learning at Bangalore, Karnataka, India	
Timings	9:55 am to 7 pm	
Duration	14 Months	
Batch Starting Dates	Visit Website <a href="http://www.e-construct.in">www.e-construct.in</a> to know the latest batch starting dates	
Pattern of Training	ON-JOB Learning on Live Projects	
Softwares Covered	1. AutoCAD 2. ArchiCAD 3. Revit Architecture 4. Revit Structures 5. Revit MEP 6. NAVISWORKS or SOLIBRE 7. Synchro 8. MSP 10. Project Management Concepts & Fundamentals 11. ETABS Basics	12. ETABS Advance 13. SAFE 14. SAP2000 15. CSI Bridge 16. RCDC 17. PROKON 18. Staad.pro 19. Structural Engineering Fundamentals 20. Indian & International Codes 21. Spreadsheets
Type of Projects Covered	Residential + Commercial + Industrial + Infrastructure + RCC + Steel + Composite Structures	
Fees	2,65,000/- (Full fees to be paid in Advance)	
Mode Of Payment	Netbanking OR Payment Gateway links on our website	
Account Details	HDFC Bank AC NAME: ECONSTRICT DESIGN AND BUILD PVT LTD. Ac no: 50200000209630. Branch : btm layout. IFSC : HDFC0000885 Account Type: Current	
How do we get started ?	1. Make the payment through Net banking in above account. 2. Send the snapshot of payment done on +91 9036744017. 3. Recieve Confirmation mail within 24 hrs after making Payment. 4. Report to Bangalore Office 3 to 7 Days before the batch Starting dates along with your Laptop, Mouse, Pendrive & Academic Documents. 5. If you have taken admission for this course in a Online Learning Mode then you will receive details of your dashboard User I'd & password within 24 working hrs.	

Know more  
through video

<https://www.youtube.com/watch?v=KZYCUcpXJ1k>

Tap the link

You can download more information about this course from our website



# Master Study in Structure Engineering

7 Months ON-JOB Training

## Softwares Included

AUTOCAD

ETABS - BASICS

ETABS - ADVANCE

SAFE

SAP2000

CSI BRIDGE

RCDC

PROKON

STAAD.Pro

## Code Based Knowledge

### Indian Codes

IS-456 2000

IS-800

IS-1893 2016

IS-13920

IS-16700

### International Codes

BS 8110

ACI 318

CEBFIP 2010

UBC 97

1. What type of Projects are covered in Master Study in Structural Engineering 7 Months Course ?

**RCC + Steel + Composite Structure Projects**

# Master Study in Structure Engineering

7 Months ON-JOB Training

Watch following Video to understand everything about MASTER STUDY  
IN STRUCTURAL ENGINEERING Program.



## MASTER STUDY IN STRUCTURAL ENGINEERING

<https://youtu.be/LZIYGauoJpE>

Tap the link 

Watch following video to get answers for FREQUENTLY ASK QUESTIONS (FAQ'S)  
On Master Study in Structural Engineering program.



## FAQ: MASTER STUDY IN STRUCTURAL ENGINEERING

<https://youtu.be/3MJngJrs4ul>

Tap the link 



Course Name	<b>Master Study in Structural Engineering</b> This same course is available in Online in a Pre-recorded video format with the content as below & with same fees
Course Type	Full time, ON-JOB Learning at Bangalore, Karnataka, India
Timings	1 <sup>st</sup> Batch :- 9:55 am to 2 pm 2 <sup>nd</sup> Batch :- 2 pm to 7 pm
Duration	7 Months
Batch Starting Dates	Visit Website <a href="http://www.e-construct.in">www.e-construct.in</a> to know the latest batch starting dates
Pattern of Training	ON-JOB Learning on Live Projects
Softwares Covered	1. AUTOCAD 2. ETABS Basics 3. ETABS Advance 4. SAFE 5. SAP2000 6. CSI BRIDGE 7. RCDC 8. PROKON 9. STAAD.Pro 10. Corporate Work Expereince 11. Structural Engineering Fundamental 12. Indian Codes 13. International Codes
Type of Projects Covered	Residential + Commercial + Industrial + Infrastructure
Fees	1,50,000/- (Full fees to be paid in Advance)
Mode Of Payment	Netbanking OR Payment Gateway links on our website
Account Details	HDFC Bank AC NAME: ECONSTRICT DESIGN AND BUILD PVT LTD. Ac no: 50200000209630. Branch : btm layout. IFSC : HDFC0000885 Account Type: Current
How do we get started ?	1. Make the payment through Net banking in above account. 2. Send the snapshot of payment done on +91 9036744017. 3. Recieve Confirmation mail within 24 hrs after making Payment. 4. Report to Bangalore Office 3 to 7 Days before the batch Starting dates along with your Laptop, Mouse, Pendrive & Academic Documents. 5. If you have taken admission for this course in a Online Learning Mode then you will receive details of your dashboard User I'd & password within 24 working hrs.

Know more  
through video

<https://www.youtube.com/watch?v=LZIYGauoJpE&t=2s>

Tap the link

You can download more information about this course from our website

# Master Study in Project Management with BIM Technology

## Softwares Included

AUTOCAD

ARCHICAD

REVIT

NAVISWORKS / SOLIBRI

SPREADSHEETS

MSP

## Project Management Concepts & Fundamentals

Bar Charts

Critical Path Methods

Scheduling

Monitoring

Investment V/s Rate  
of Returns Ratio

Profitability V/s  
Investment Charts

## BIM Concepts

2D - Plans, Elevations & Sections

2D - Perspective View

4D - Time Model

5D - Cost Model

6D - Energy Model

7D - Hospitality / Maintenance

Model/RERA Compliance

## Live Project Corporate Work Experience

Small Villas

Highrise Buildings

Industrial Building

Cluster Project



# Master Study in Project Management with BIM Technology

7 Months ON-JOB Training

Watch following Video to understand everything about BIM TECHNOLOGY  
& PROJECT MANAGEMENT Program.



**Master Study in Project Management  
with BIM Technology**

<https://www.youtube.com/watch?v=5bT7Cb72NL0&t=97s>

**Tap the link** 

Watch following video to get answers for FREQUENTLY ASK QUESTIONS (FAQ'S)  
On BUILDING INFORMATION MODELLING program.



**FAQ: Building Information  
Modelling**

<https://www.youtube.com/watch?v=BGmpQXzmjVM>

**Tap the link** 

# Master Study in Project Management with BIM Technology

## YouTube Videos on BIM Technology



### **STEPS & CHECKS IN CONSTRUCTION OF YOUR DREAM HOME**

ECONSTRUCT DESIGN & BUILD PVT LTD

[https://youtu.be/t\\_H4f7BOEJI](https://youtu.be/t_H4f7BOEJI)

Tap the link



### **Know what is BIM ? Why BIM ? What are the Career opportunities in BIM?**

ECONSTRUCT DESIGN & BUILD PVT LTD

<https://youtu.be/5wflHs7nAQM>

Tap the link



### **CAREER GROWTH & SALARY PACKAGE OF A BIM MODELLER**

ECONSTRUCT DESIGN & BUILD PVT LTD

<https://youtu.be/naEDxYDou9Y>

Tap the link



### **Watch this video to know about Master Study in Project Management with BIM TECHNOLOGY Course**

ECONSTRUCT DESIGN & BUILD PVT LTD

<https://youtu.be/5bT7Cb72NL0>

Tap the link





Course Name	<b>Master Study in Project Management With BIM Technology</b> This same course is available in Online in a Pre-recorded video format with the content as below & with same fees
Course Type	Full time, ON-JOB Learning at Bangalore, Karnataka, India
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Pattern of Training	ON-JOB Learning on Live Projects
Softwares Covered	1. AUTOCAD 2. ArchiCAD 3. REVIT (Architecture, Structures, MEP) 4. NAVISWORKS / SOLIBRE 5. Synchro 6. BIM Concepts (2D, 3D, 4D, 5D, 6D, 7D) 7. MSP 8. Project Management Concepts & Fundamentals 9. You will gain working experience on Live Projects
Type of Projects Covered	Residential + Commercial + Industrial + Infrastructure
Fees	1,50,000/- (Full fees to be paid in Advance)
Mode Of Payment	Netbanking OR Payment Gateway links on our website
Account Details	HDFC Bank AC NAME: ECONSTRICT DESIGN AND BUILD PVT LTD. Ac no: 50200000209630. Branch : btm layout. IFSC : HDFC0000885 Account Type: Current
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Know more through video	<a href="https://www.youtube.com/watch?v=5bT7Cb72NL0">https://www.youtube.com/watch?v=5bT7Cb72NL0</a> <div>Tap the link</div>

You can download more information about this course from our website

## Following are the Full-Time, ON-JOB Training Programs at Bangalore

1 Master Study in Structural Engineering

7  
months

2 Master Study in Project Management with BIM Technology

7  
months

3 Master Study Composite Course in Structures + BIM + Project Management

14  
months

4 ON-JOB Internship at Econstruct's Ongoing Sites

6  
months

### **- Basic Eligibility**

- ITI / Diploma (Civil)
- B.E / B.Tech (Civil)
- M.E / M.Tech (Structures)
- M.E / M.Tech (CTM)

***Please note: Final year students or passout can apply for these courses.***





## Students who successfully started their Career in Core-Technical Field of Structural Engineering


*Econstruct Trainees are Working at ?*



**Placed Students**







On-Job Classroom  
Training Program

years

2

# Master Study in Entrepreneurship in Civil

## MODULE 1

Structures  
+  
BIM  
+  
Project Management

## MODULE 2

Business Development /  
Entrepreneurship Training

*Get ready to start your Entrepreneurship journey.*

# Master Study in Contracts Management

PARTNERED WITH



*Justacontract.com*

IACCM EXECUTIVE AWARD | EXCELLENCE

## Why You Should Attend?

01

As per IACCM  
Report on all  
companies,  
9.2% Revenue  
Shortfall

02

Project Management  
+  
Contracts  
Management  
= Profits

Contract are  
the integral  
part of All  
Projects.

03

04

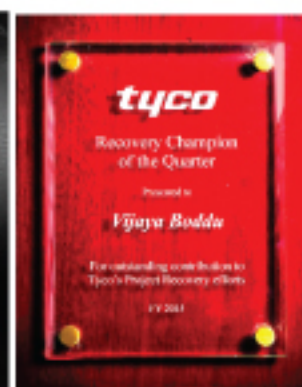
Contracts  
Management is  
highly in demand  
and have plenty of  
job opportunities.

## About the Trainer of Contracts Management Course



**VIJAYA KRISHNA BODDU**

**IACCM EXECUTIVE  
AWARD WINNER**



## Why choose Econstruct ?



**GRADUATE STUDENTS  
LAW/ACCOUNTUNG/  
POST GRADUATES**



**ENGINEERING STUDENTS  
ALL DISCIPLINES IN ALL  
ENGINEERING COURSES**



**WORKING PROFESSIONALS  
EXPERIENCED GRADUATES IN  
ACCOUNTING & LAW**



**PROJECT MANAGERS  
EXPERIENCED GRADUATES AS  
PROJECT MANAGER**



# CRASH COURSE

Cities covered till now :



**3 DAY WORKSHOP**  
[CLASSROOM TRAINING]



**30 DAY PRACTICE SESSION**  
[ONLINE TRAINING]



## CRASH COURSE

ECONSTRUCT DESIGN & BUILD PVT LTD

<https://youtu.be/68GKYMFPVM>

Tap the link



# Pre-requisite *(Recommended)*

## System Requirements

### *For Structures :*

<i>Processor</i>	—	<b>i5 / i7</b>
<i>RAM</i>	—	<b>8GB (Minimum)</b>
<i>HDD</i>	—	<b>1TB (Preferrably with SSD)</b>
<i>Graphics Card</i>	—	<b>1GB (Minimum)</b>

### *For BIM :*

<i>Processor</i>	—	<b>i5 / i7</b>
<i>RAM</i>	—	<b>16GB (Minimum)</b>
<i>HDD</i>	—	<b>1TB or more</b> <small>(Preferrably with SSD)</small>
<i>Graphics Card</i>	—	<b>2GB (Minimum)</b>


## How to take Admission for Full-Time ON-JOB Training at Bangalore ?





# How to take Admission for Online Course?



**STEP 05**

## Start your “fully Online” Learning Process

- Software Installation links will be on the dashboard
- Videos will be uploaded on the dashboard for your training / learning purpose.
- Projects Assignment will be uploaded for you to work on the Projects.
- Doubts can be asked anytime in Online on the dashboard & our Tech team will revert in working hours.
- Certification will be sent in online upon successful completion a 4 months training.

## Fees



### COMPOSITE COURSE

₹2,65,000

#### Master Study in Structures

₹1,50,000

- ✓ Full-Time
- ✓ Certification
- ✓ Experience Letter
- 7 Months
- Softwares Covered*
- ✓ AutoCAD
- ✓ ETABS Basic
- ✓ ETABS Advance
- ✓ SAFE
- ✓ SAP2000
- ✓ CSI BRIDGE
- ✓ RCDC
- ✓ PROKON
- ✓ STAAD.Pro
- ✗ SOLIBRI
- ✗ REVIT
- ✗ NAVISWORKS
- ✗ SPREADSHEETS
- ✗ MSP
- ✓ Corporate Work Experience
- ✓ Structural Engineering Fundamentals
- ✓ Indian Codes
- ✓ International Codes

\*For candidates seeking career in Structural Engineering

#### Master Study in Project Management & BIM Specialist

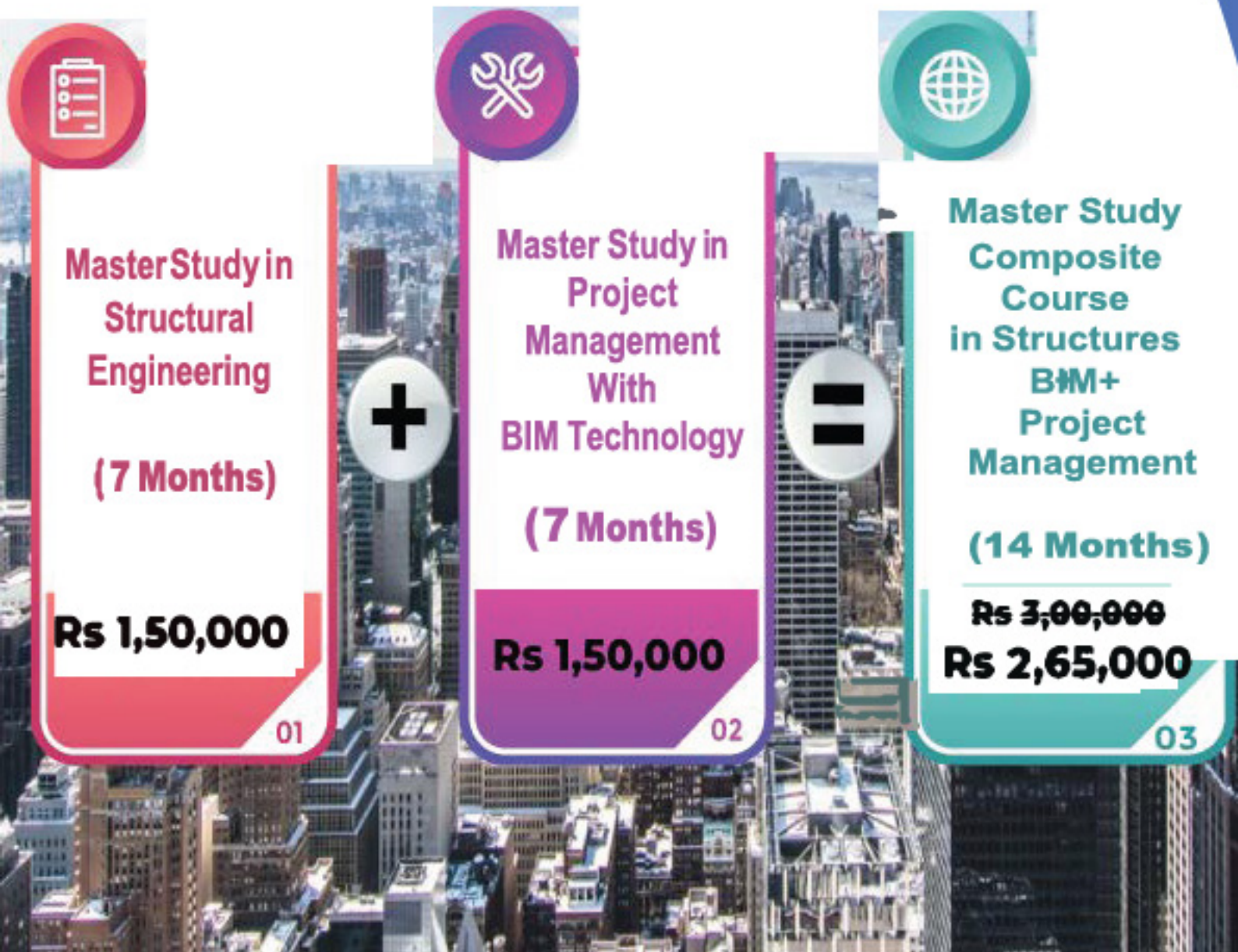
₹1,50,000

- ✓ Full-Time
- ✓ Certification
- ✓ Experience Letter
- 7 Months
- Softwares Covered*
- ✓ ETABS BASICS
- ✓ AutoCAD
- ✓ REVIT ( Arch, Str, MEP)
- ✓ NAVISWORKS
- ✓ MSP
- ✓ TEKLA STRUCTURES
- ✓ CPWD & MARKET RATES
- ✓ SPREADSHEETS
- ✗ SAFE
- ✗ SAP2000
- ✗ CSI BRIDGE
- ✗ RCDC
- ✗ PROKON
- ✗ STAAD.Pro
- ✓ BIM Concepts
- ✓ Live Project Corporate Work Experience
- ✓ Project Management Concepts & Fundamentals
- ✓ International Codes & Standards

\*For candidates seeking career in Project Management & BIM Specialisations.

- ✓ Full-Time
- ✓ Certification
- ✓ Experience Letter
- 14 Months
- Softwares Covered*
- ✓ AutoCAD
- ✓ ETABS Basic
- ✓ ETABS Advance
- ✓ SAFE
- ✓ SAP2000
- ✓ CSI BRIDGE
- ✓ RCDC
- ✓ PROKON
- ✓ SOLIBRI
- ✓ REVIT
- ✓ NAVISWORKS
- ✓ SPREADSHEETS
- ✓ MSP
- ✓ STAAD.Pro
- ✓ Corporate Work Experience
- ✓ Indian Codes
- ✓ International Codes
- ✓ BIM Concepts
- ✓ Structural Engineering Fundamentals
- ✓ Project Management Concepts & Fundamentals
- ✓ Live Project Corporate Work Experience

# Full-Time + Online Training option @ Econstruct





## ***Mode of Payment***

*Net- Banking*

## ***Account Details***

A/c Name: ECONSTRUCT DESIGN & BUILD PVT LTD

A/c No: 502000000209630

IFSC Code: HDFC0000885

Branch: HDFC Banch, btm layout

# INSTANT LOAN FACILITY AVAILABLE



*We are associated with :*

**NEEV FINANCE**

**+91-74060-38899**

**GET IN-TOUCH FOR ANY QUERIES**

# WORRY ABOUT ACCOMMODATION ?

## CHILL !

**Download the detailed Accomodation pdf from our website**

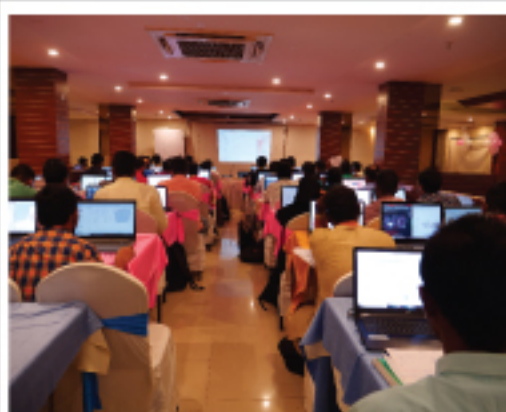
**Website - [www.e-construct.in](http://www.e-construct.in)**

Nearby PGs are available, at walkable distance.

Price ranges from ₹ 4000 - ₹ 6000 depends on no. of sharing, including with 3 times food available.



# Master Study : Gallery





**Why Civil Engineers are  
not getting Jobs ?**

<https://www.youtube.com/watch?v=1o7PSfn1p5Y&t=132s>

**Tap the link** 



**What's wrong in the "Making Process"  
of a Civil Engineer?**

<https://www.youtube.com/watch?v=diT4bOMxfQc&t=481s>

**Tap the link** 

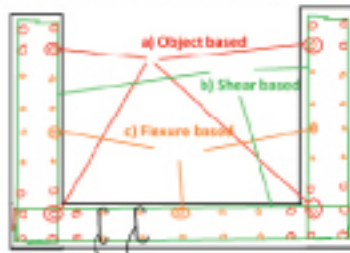






# Glimpse of a Classroom Whiteboard / Digital Board

## U shape or any Irregular shape shear wall design Idealizations



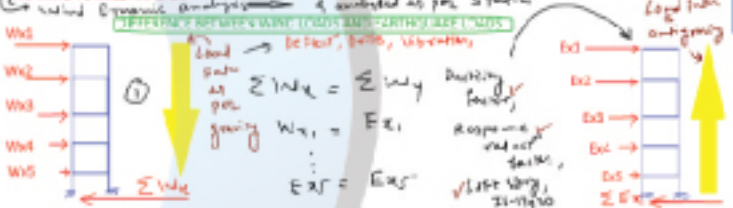
- Higher diameter main vertical rebars (Object based Idealisation)
- Lower diameter main vertical rebars (Flexure based Idealisation)
- Horizontal shear rebar (Shear based Idealisation)

Based on IS13920 or from site requirement based

## WIND LOADS

FOLLOWING ARE THE METHODS TO GENERATE WIND LOADS IN ETABS

- 1.0 EXPOSURE FROM THE EXTENT OF DIAPHRAGM
- 2.0 EXPOSURE FROM THE SHELL OBJECTS
- 3.0 GUST FACTOR CALCULATION (CHAPTER 7 OF IS875 PART 3)
- 4.0 WIND TUNNEL ANALYSIS



## WIND LOAD COEFFICIENT CALCULATION:

$h = 23.2 \text{ m}$

$w = 12.7 \text{ m}$

$b = 22.38 \text{ m}$

$h/w = 1.82$

$h/b = 1.04$

$\mu = 0.2$  Internal pressure coefficient  
value considered for gable house type  
B indicates the angle of the force acting on it.  
+ sign indicates that the force is acting towards the half  
- sign indicates force acting away from loads

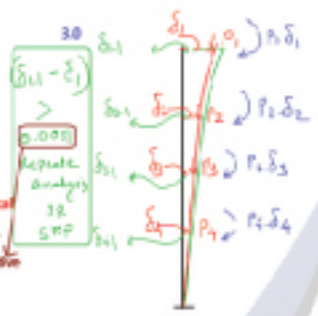
A	B	C	D
0.4	0.8	0.7	0.7
-0.5	-0.5	-0.8	-0.8

## P-DELTA ANALYSIS

- 1.0 P-Delta analysis is geometric non-linear second order analysis
- 2.0



150  
Or  
120 + 12L  
Whichever is critical  
Tolerance for iterative analysis



4.0 P-Delta analysis is getting used in various other types of analysis also. Like for e.g. Buckling analysis, Construction sequence analysis, Pushover analysis etc.

## COORDINATE SYSTEMS

Types of Elements in ETABS

- Area
- Line
- Shell walls
- Slab
- Beam
- Column
- Base elevation

GLOBAL AXIS COORDINATE SYSTEM

LOCAL AXIS COORDINATE SYSTEM

GLOBAL AXIS COORDINATE SYSTEM

LOCAL AXIS COORDINATE SYSTEM

GLOBAL AXIS COORDINATE SYSTEM

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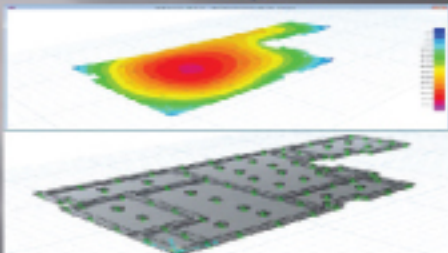
## WIND LOADS

- 1.0 EXPOSURE FROM THE EXTENT OF DIAPHRAGM
- 2.0 EXPOSURE FROM SHELL OBJECTS
- 3.0 GUST FACTOR CALCULATION
- 4.0 WIND TUNNEL ANALYSIS

DYNAMIC ANALYSIS OF WIND APPLIED IN STATIC FORM

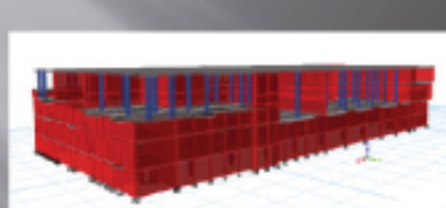
## Structural Projects

## ON GOING INTERNATIONAL PROJECTS



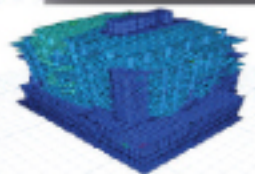
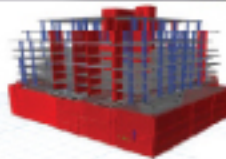
PROJECT NAME: Controls etc. Access to Internet  
PROJECT SEAS  
PROJECT DESCRIPTION: C-2 Windows Frame  
LOCATION: Canada

## ON GOING INTERNATIONAL PROJECTS



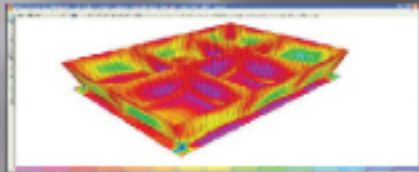
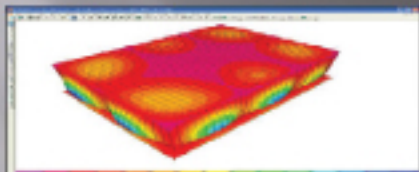
PROJECT NAME: ONTO-  
PROJECT SIZE:  
PROJECT DESCRIPTION: ZEB+MEGAWATT+R&D  
LOCATION: Canada

### ON GOING INTERNATIONAL PROJECTS



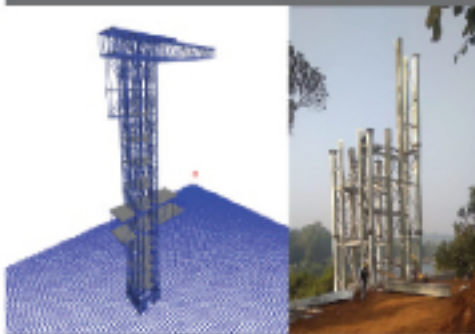
87800 821-4 "D" 76 3.6(11) 87811  
 C. caerulea (Dendroica) 4. 1000000  
 87800 821-4 "D" 76 3.6(11)  
 87800 821-4 "D" 76 3.6(11) 87811 176  
 87811 4. 1000000  
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## STRUCTURAL DESIGN PROJECT



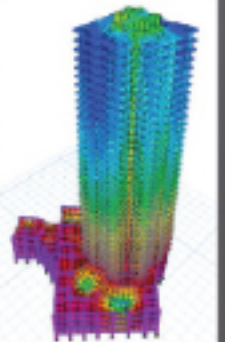
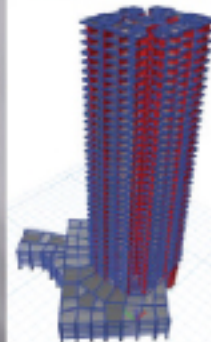
PROJECT NAME: SANJAY WASTE PARK, MUMBAI  
PROJECT DESCRIPTION: 5 LAKH LITRES CAPACITY  
WATER TANK

## STRUCTURAL DESIGN PROJECT



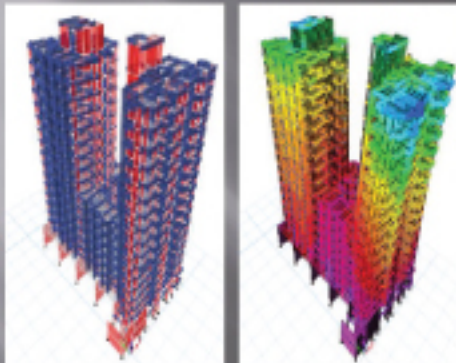
PROJECT NAME : BUNGEE JUMPING, COA

## STRUCTURAL DESIGN PROJECT



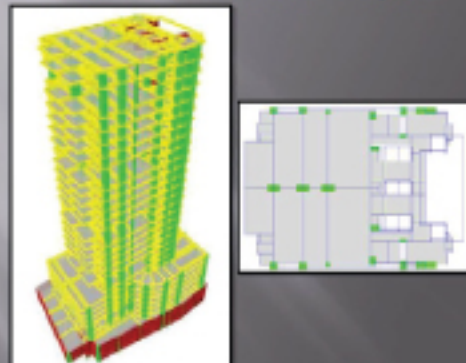
**PROJECT DESCRIPTION:** The structure comprises of G+No. floors intended with the usage for car parking, residential apartments. The vehicle structure has been designed to withstand lateral forces.

## STRUCTURAL DESIGN PROJECT



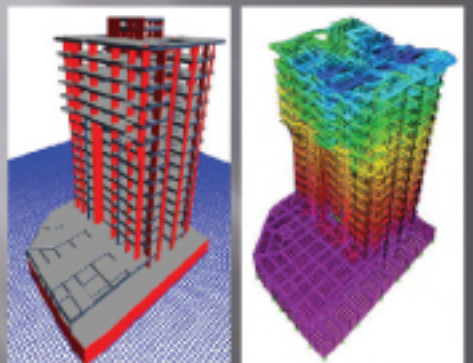
**PROJECT DESCRIPTION:** The structure comprises of 800 sq. ft. floors, interlocked with the neighbouring parking, residential apartments. The whole structure has been designed to withstand lateral forces.

## STRUCTURAL DESIGN PROJECT



**PROJECT NAME:** SUDYA HILL & HEADQUARTERS, Mumbai  
**FLOOR DESCRIPTION:** G+21+BASEMENTS+GROUND+5  
**POWERSUPPLY:** 66KV CABLEDIN  
**PROJECT DESCRIPTION:** The structure comprises of G+ 26 floors, intended with the usage for car parking, residential apartments. The whole structure has been designed by reinforced lateral forces.

## STRUCTURAL DESIGN PROJECT



PROJECT NAME: Kioscoventa, Muntol  
PROJECT SIZE: 77,010 Sq. ft. or 7,137 Sqm.  
PROJECT CODE: RA-9, 24, 12,006/-  
PROJECT DESCRIPTION: The structure comprises of Ground floor + 15 Floors with the provision for car parking at basement and podium levels.



## FAQ'S : Frequently Asked Questions

1. I am a Civil Engineer but I am Confused about which course to join. How can I analyse my skill set? You can take Employability Test and Score to know your current skill set vs corporate requirement.  
<https://youtu.be/pVD9nx1xdTI>
2. How do I book appointment for Employability Test?  
Watch video here : <https://youtu.be/nTd9WKxAvJo>
3. What is the training pattern of Master Study in Structures?  
Find complete details here: <https://youtu.be/LZIYGauoJpE>
4. What is the training pattern of master in BIM & Project Management?  
Find complete details here: <https://youtu.be/LZIYGauoJpE>
5. What is mode of communication in training sessions?  
Students come from varied regions of India considering that we use English as the mode of commuting during training sessions.
6. Is accommodation available near by office for staying?  
Yes, accommodation is available near Econstruct office.
7. Where does Econstruct conduct corporate trainings? What is the address of the office?

Corporate training are held at Bengaluru, Karnataka.

ADDRESS: 2nd Floor, Venkatdhari Heights, Parapanna Agrahara  
Main Road Opposite Sai Poorna Premier Apartment, Kudlu,  
Bangalore, Karnataka 560068



## **Frequently asked questions FAQ for Master Study Training programs**

- 1). **What is the mindset required to do Master Study in Structural Engineering 7 month's course? And what are the opportunities in future and how much time I may take to settle as a Successful Structural Design Engineer?**
  - Master Study in Structural Engineering course is a 7 months course and it requires 3 P's as **Passion** for Structures, **Patience** and **Practice** on regular consistent basis. You must be regular for the 7 months training as it's an ON-JOB training which will give you mirror experience of the corporate world .It's a pure working experience on live project. You will also learn how to submit the project within the deadline. You can become a "**Project Delivery Man**" in your company who can handle the project from start to end. If you are taking admission for structures course then you must understand that this is a niche field and this can be compared to the Doctors career. Doctors have to practice for years together to become a real expert in their field. In the similar way, structural engineers have to spend years together in practice to get the JUDGEMENT. Structural engineering is a "**Judgmental Science**". We promise you to give exact knowledge + skills + relevant experience as expected by the Industry through this course. You need to give **100 %** attentiveness and participation to get maximum out of this course. You can easily get experience equivalent to 2 to 5 years experienced person in just 7 months training. Provided you have followed the training as it is. Do not join the course if you can't give this type of **100 % FOCUSED** commitment otherwise **DO NOT JOIN**. You will have to work for 9 to 10 hours daily on projects continuously for 7 months to come up-to a level of highly experienced person. Training will not work out for you if you are not regular and not following the activities of the training. **WE DO NOT GIVE ANY FALSE PROMISES HENCE DO NOT JOIN IF YOU CAN'T GIVE COMMITMENT.**



Core technical Dream Job will be a side effect of this training if followed as it is. You can get your own Structural consultancy License over the period of time and this will also help you in starting your own consultancy firm. There are multiple job opportunities for structural design engineers in India and abroad. The question is "DO YOU HAVE THE RIGHT SKILLS?"

## 2). What mind set is required to Join Master Study in Project Management with BIM Technology 7 month's course? What are the future opportunities and how much time it may take for me to settle as a successful **BIM ENGINEER** or **PROJECT ENGINEER** ?

- Master Study in Project management course is a FULL-TIME, ON-JOB 7 Month's duration Training program and it requires you to be a rough and tough attitude as you handle multiple resources, vendors and teams to manage any small or big construction project. You should be ready to move to any part of the world as the project may be located anywhere. You must have flexible and adaptive nature. BIM is used in many big companies for big projects. So you are likely to get a job in Well-established MNC's in India and even abroad. BIM Technology is emerging in India but it is already widely used in foreign countries. Infact, BIM is compulsory in many countries. You will take 2 to 3 years to become highly expert on all the dimensions (2D, 3D, 4D, 5D, 6D, and 7D) of BIM. You can become expert in BIM only if you consistently work by planning your career in right direction. We at Econstruct will completely lay a strong foundation for your career through Master Study in Project management with BIM Technology course. You need a right core technical break after the course to practice further and become expert in this field. BIM jobs are very high paying jobs if you have right skills at **EXPERT LEVEL** along with the right attitude and passion for this field. You need to invest time in planning your career in a step by step manner and work consistently to achieve your career goal.



You can create your portfolio and also upload your portfolio on freelancing websites for executing projects in part time or full time after completion of the course. You can start your own BIM & Project management consultancy firm over the period of time depending on the level of expertise that you gain over the technology.

## 2). What mind set is required to Join 14 months Composite Course? What are the future opportunities and how much time it may take for me to settle as a successful **BIM ENGINEER** or **PROJECT ENGINEER** ?

- Master Study Composite Course with **Structures + BIM + Project Management** is of 14 months Duration. It's a FULL-TIME, ON-JOB training at Bangalore office. This course will be a combination of 2 courses (**Master study in Structural Engineering + Master Study in Project Management with BIM Technology**). You should join this course if you want to explore complete life cycle of a Civil Engineering project from start to end. Civil engineering projects have 2 main phases (**Design phase + Execution Phase**). Composite 14 months course gives you exposure to work on both the phases and understand how a project is executed from start to end. This course makes you civil engineer in "**TRUE SENSE**" You get to know anything and everything about the project start to completion and successful submission to the client. You can get a job as a "**Techno- Management**" Team member who can handle the project from start to end. You will be a person in a company who can work "purely in technical team" or in "**Management team as a manager**". You will be very well capable to manage design as well as execution phase hence you are likely to get a manager position over the period of time. Econstruct will lay a strong foundation for you to start your career in the "**TECHNO MANAGEMENT job role**" in any startup company, growing company or well established Multinational company (MNC). Please note: Techno Management roles are highly paying jobs and most in demand. Companies are always in search of



people who can handle project design, execution, driving the team or team training, handling client meetings and handing over the lock and key to the clients. Companies also find it difficult to find multi-talented and multi task handling managers.

This course also gives you opportunity to explore multiple sub fields of Civil Engineering like

- 1). Basic entry level drafting Department,
- 2). Building Information Modelling Department
- 3). Structural Design Engineering Department
- 4). Site / Project Management Department
- 5). Project estimation/costing / tendering / Contracts Management etc.

You will get opportunity to explore major departments and then decide what are you good at? What is your real cup of tea? You can identify your passion & then build your career upon that. Sometimes some fresher's join site job or structures job or any xyz job just because they don't have clarity about their real passion or cup of tea and then it becomes very difficult to shift from **"site job" to "design job"** or vice versa. It's very important to plan your career and for planning you need to have clarity and to have clarity, you need to invest time in exploring various things. This 14 months training gives you opportunity to Explore and then choose the area of interest. Being a fresher, you must invest time in exploring multiple areas of civil engineering and then come to a conclusion of what is your cup of tea / passion / interest and then build your career. You will take only 2 to 3 years max to become expert in any of the chosen area if you approach your career in a step by step manner. You can settle completely with a HIGH PAYING job with 100% job satisfaction if you plan in right direction with the advice of Industry experts of Econstruct. Composite course is also highly recommended for those who aspire to start **"Entrepreneur Journey"** in Civil Engineering.

Please think deeply before joining this course. Have clarity about **"Your reason for joining Composite course"**? Do not join blindly. You must have commitment to work for 14 months to explore and understand Composite course. You will be able to achieve your desired goal upon successful completion of this course provided you have answer for your **"STRONG WHY"**. Meet our team in person at Bangalore office if you are still confused.



#### 4). Is Master Study course available in ONLINE ?

- We are training on a "ON-JOB" Environment through various activities and hence it's not possible to train in online. These training are held in Bangalore and you need to pack your bags and come to Bangalore to learn in a **"Corporate working Environment"**.

However, if it's not possible to give commitment for 7 months or 14 months then you can consider attending any of our 3 Day workshops which are held once in a month. Dates of the workshop are updated regularly on the website. You can join 3 Day workshop in Bangalore office once in a while. OR ELSE join our fully online 4 months course called **"ADVANCE STUDIES IN CIVIL ENGINEERING"** which covers AutoCAD, REVIT architecture, REVIT structures, REVIT MEP, ETABS and SAFE. All the information is available on our official website [www.e-construct.in](http://www.e-construct.in).

#### 5). What is the pattern of training in Full-Time, ON-JOB Master study programs?

- Training pattern is **" ON-JOB "** which means you are given live projects in team or as an individual and you need to submit the project to our technical team who will review it and give you feedback. Econstruct is a Consultancy and Construction company. Hence we have our own live projects. We are not training like a coaching center or training institute like school or colleges. You will get opportunity to explore lot of things in a company environment. It's a pure working environment and we do not give any spoon feeding classes. We give the assignments and guidance to do the assignments. Our students have to explore lot of things on their own. There are no classes / lectures like college or schools. We conduct lot of workshops and give guidance before starting the projects. Our trainees need to work on their own in teams or individually to find solutions. Our team will guide you if you are stuck at anywhere in the project. If you are expecting a coaching center type regular classes then you will be highly disappointed to join us. We believe that students are already sitting in class for so many years of engineering and post-graduation but they are not remembering even 20% of what they have



learnt in class and they are not able to complete even single small project on their own. Best way to learn is to **DO IT YOURSELF** and **LEARN BY EXPLORING**. We will give the right platform + environment + guidance in which our trainees become 100 % ready for the industry with technical skills + knowledge + relevant experience. Not only are this but our trainees 100 % confident in any interview. We work on building right attitude required for the chosen job.

For example,

- a). **Project managers need to be flexible, adaptable, rough and tough nature along with sound knowledge.**
  - b). **Structural Design Engineers need to have high level of patience to acquire the required level of judgment in structures.**
  - c). **Our Trainees are highly well versed with technical reporting and presentations for their clients.**
  - d). **Our trainees know the importance of submitting the project within the deadline.**
  - e). **Our trainees know how to work in team or as an individual.**
  - f). **We train through different activities which make them 100 % employable.**
- Job is a side effect of the training!**

## **6). How many seats are available for each course? How many batches are held in a year?**

- **There are 15 to 25 seats per batch. We are going to have only one batch in every June or August from 2020. There will be only one batch per year for all the 3 Master study course from the year 2020. Admissions are on first come and first serve basis and admissions start minimum 6 months before the batch starting date. All the admissions are on pre booking basis. Please keep a watch on our website for the batch starting dates and also ping us on whatsapp + 91 9036744017 for all the updated details.**




### **7). Is the fees refundable or transferable?**

- Fees once paid is non- refundable and non- transferable as we have limited seats and admissions happen on pre booking basis. Hence, please think before joining any of the courses. Fees once paid is non-refundable and non-transferable under any circumstance. However you can join next batch.

### **8). What about my accommodation?**

- There are many paying guest accommodations nearby to the office on walkable distance and the cost may range from **Rs 4000** to **Rs 9000** depending on the room chosen by you. This amount includes 3 times food with accommodation. We have uploaded PG details PDF on our official website. You can download the same from there.



*See You at*

*Econstruct*

Reach Us:

Econstruct Design & Build Pvt Ltd



2<sup>nd</sup> Floor, Venkatdhari Heights, Parapanna Agrahara Main Road, Opposite Sai Poorna  
Premier Apartment, Kudlu, Bengaluru, Karnataka 560068



e-construct.in

WhatsApp No. : +91-9036744017