

Certificate Course In



FORMWORK TECHNOLOGY

(INTERNSHIP 6 Months)



Civil ENGINEERING IIT
www.civilengineeringit.com

ISO 9001-2015(QMS) Certified Institute

 9112078534 | 9112078538

VISION, MISSION & OBJECTIVES



VISION

We aspire to create competitive manpower in the field of civil engineering by bridging the gap between academic learning and practical requirement of the industry.



MISSION

REPRESENT, LEAD AND SERVE

Representing the Civil Engineering Sector/industry

We improve understanding of the civil engineering industry among decision makers and increase awareness of the benefits that civil engineering brings to national and global economies. We advocate for the interests of civil engineers in professional development.

Leading the Civil Engineering Sector/industry

For over a years, we have developed civil engineering professional skills among multiple civil engineering industry by educating people and creating a professionally developed competitive manpower.

Serving the Civil Engineering Sector/Industry

We help civil engineering industry to operate safely, smoothly, securely, efficiently by providing competent manpower.

Professional Support is provided to civil industry stakeholders with a wide range of civil engineering services and expert services.



OBJECTIVES

- Promote Civil Engineering IIT Education & Technology in India
- Collaborate to unite on a Professional front
- Provide World class computer and engineering education
- Organize paper presentation, conference & seminars and tech fests
- Create an open platform for development of Civil Engineering Startup
- Honour outstanding students and personalities

BACKGROUND

1.a. Preface

There's no doubt that construction has formed the basis of modern civilization. Whether it be buildings, houses, roads, tunnels or bridges, construction has enabled humans to evolve by providing the means necessary to make our lives easier and more comfortable. Since its inception, modern technology has played a crucial role in the construction industry. Having the ability to design and construct entire structures digitally has significantly increased speed and efficiency and considerably reduced costs at the same time.

Huge skill gap in current construction industry standard is one of the major concerns. Freshers are striving to find jobs while on the other hand industry is unable to create Formwork Engineers leaving a void in filling up of desired job openings.

1.b. Introduction

Good formwork greatly reduces the amount of time it takes to construct a project by minimizing floor to floor construction cycle time. Due to the huge costs involved in construction, using good formwork is critical in reducing costs and meeting budget requirements.

A good formwork ensures desired concrete finish, project timelines and affect hugely to the cost of construction hence it is very essential for each civil engineer to be updated with all the formwork technologies and industry trends to have an upper hand in this cut-throat competitive environment.

1.c. Changes in Industry Scenario

Recently we have seen huge changes in the Indian industry. The Indian Industry registered an impressive growth during the last decade and half. The number of industries in India have increased manifold in the last fifteen years especially in services and manufacturing sectors. It has been realized that India would become a prosperous and a modern state by raising skill levels, including by engaging a larger proportion of apprentices, will be critical to success; as will stronger collaboration between industry and the trainees to ensure the supply of skilled workforce and drive development through employment. Various initiatives to build up an adequate infrastructure for rapid industrialization and improve the industrial scenario in India have been taken.

We bring with us an enriched expertise into formwork with hands-on experience in all major formwork systems being used world-wide and latest trends in formwork market. We aim to educate each civil engineer and equip them with latest formwork innovations thereby reducing the skill gap in overall Indian construction industry.

The knowledge sharing is bifurcated in various segments as per the training need analysis of the target group, providing details and insights on the latest system equipment through seminars, workshops and product training where we provide detailed product knowledge as well as train participants for the day-to-day use and reveal practical tips and tricks. In the process, users learn how to safely and efficiently use world-wide formwork solutions on the construction site even under time pressure.

LEARNING OUTCOMES

The Attendees Will Be Able To

- Skilled in all aspects of formwork to fill the skill Gap in current industry scenario
- Understand the huge role of formwork in Civil construction
- Interact and knowledge sharing with other civil engineering students and industry experts
- Understand the basic concepts of Formwork
- Estimate the formwork cost for tendering for various types of projects
- Understand detailed formwork planning
- Identify the best suited formwork systems for various elements and projects
- Techniques to Improve formwork manpower productivity
- Techniques to Improve formwork material productivity
- Details of formwork design
- Details of scaffolding and its guidelines
- Formwork safety
- Best formwork practices
- Detailed information & applications of latest formwork trends and technology being used worldwide
- Indian, European and American standards/codes

Highlights

- First Of Its Kind Internship Course On Formwork
- Six Months Internship Course Will Be Provided With Certificate On Successful Completion Of The Course.
- All Weekly Courses Clubbed Together Along With Various Case Studies For 6 Months Internship Course.
- Participants Can Enroll For Individual Weekly Courses And/or 6 Months Internship Course.
- In-depth Knowledge Of All Formwork Aspects
- On-site Practical Training
- Factory Visits: Understanding The Manufacturing Process
- Warehouse Visits: Understanding Foreign Technology With Live Mock-ups

Eligibility

Civil/Mechanical Engineering students or working professionals

SYLLABUS

FORMWORK TECHNOLOGY (Internship 6 Months)



- | | |
|----|--|
| 1 | Introduction to construction and formwork |
| 2 | Types of Formwork |
| 3 | Asset Management & Futuristic approach |
| 4 | Tendering, estimation and budgeting |
| 5 | Methods & Planning and PM control |
| 6 | Loads and design |
| 7 | Formwork Safety |
| 8 | Scaffolding |
| 9 | Conventional Formwork |
| 10 | Monolithic Formwork: Aluminium Formwork system |
| 11 | Monolithic Formwork: Tunnel Formwork |
| 12 | Modular Panel Formwork for Verticals |
| 13 | Modular Panel formwork for slabs |
| 14 | Slipform |
| 15 | Climbing Formwork |



SITE VISITS



MANUFACTURING UNIT VISITS



WAREHOUSE AND MOCKUPS VISITS

OUR SHORT TERM COURSES

ALUMINIUM MONOLITHIC FORMWORK:

- Concept of Monolithic construction
- Advantages of Monolithic formwork
- Application areas
- Limitations
- Knowing the components
- Typical slab cycle study
- Manufacturing process and tolerances
- Yard setup and bifurcation
- Planning and setup
- Setting out and Assembly process
- MEP works in monolithic concept
- Dismantling process
- Safety provisions
- Dos and Don'ts



FORMWORK TENDERING:

- Types of projects
- Project details with case study
- Understanding client requirements
- Deriving formwork scope for various types of project
- Understanding cycle time concept
- Factors affecting the selection of formwork systems
- Analysis of best suited formwork systems for the project
- Selection of best suitable formwork system
- Quantity of formwork to be deployed on project
- Asset procurement vs cost loading over particular project
- Formwork planning and material movement
- Formwork budgeting

FORMWORK DESIGNING:

- Types of formwork from design point of view
- Advantages and disadvantages of system from design point of view
- Types of loads acting on the formwork/scaffold
- Behavior of loads on supports.
- Concept of formwork designing and its application
- Usage of Indian steel table in formwork design
- Indian standard Codes for formwork designs
- Indian standard codes for various formwork material (Assets)
- Indian standard codes for various consumable items (Plywood, timber etc.)
- Types of concrete and its effect on formwork
- Calculating design pressure and factors affecting it
- Causes of formwork failures
- Dos and Don'ts

SCAFFOLDING AND SAFETY:

- Importance of a scaffold
- Learning OSHA and standard EHS Guidelines
- Understanding PPE's
- Scaffold's safety: Types of scaffolds and its applications
- Ladder safety: Types of ladders and its applications
- Safety while scaffold erection
- Safety while scaffold dismantling
- Safety while Material handling
- Working at heights
- Fall prevention
- Safe material stacking practices
- Dos and Don'ts



PRODUCTIVITY: (Manpower & Material)

- Understanding the contract document
- Factors affecting productivity
- Responsibilities of sub-contractor
- Understanding the formwork scheme, material BOQ and design
- Issuance of formwork material
- Supervising sub-contractor's work
- Inspection
- Job allocation ensuring right person on right job
- Job types and shuttering rates
- Formwork Bill checking
- Formwork wastages and its causes
- Training the sub-contractors
- Dealing with formwork asset loss by sub-contractor
- Proper distribution/ optimum utilization of resources

MODULAR FORMWORK SYSTEMS AND LATEST TECHNOLOGIES:

- What is a Company asset?
- Types of formwork assets
- Project specific formwork (Non-asset)
- Conventional Formwork
- Aluminum monolithic formwork
- Plastic monolithic formwork
- Tunnel monolithic formwork
- Modular Panel formwork of various types for verticals
- Modular Panel formwork with drophead mechanism for Slabs
- Modular formwork for beams
- Flex formwork
- Table formwork
- Climbing technology



- **Jump form** • **Rail climbing** • **Hydraulic climbing** • **Automatic climbing** • **Slipform**



FORMWORK SLAB



FORMWORK SAFETY



VERTICAL FORMWORK



TUNNEL FORMWORK



SLIPFORM



CONVENTIONAL FORMWORK

BENEFITS

- Specialized trade knowledge
- Practical, theoretical and industrial training with all study material
- One-year personal consultation post 6 months course
- Career Guidance and job assistance
- Worldwide exposure
- Updated Engineering technology
- Overall personality development
- Interview skills

FACULTY

Mr. Sarang Acharya Is A Civil Engineering Professional-formwork Expert Having Rich Experience Of 15+ Years In Formwork Industry Having National And International Exposure. He Was Associated With Many Reputed Organizations Like Shapoorji & Pallonji, Jmc (I) Ltd., Meva Formwork (Germany), Alsina Formwork (Spain) And Vascon Engineers Ltd. Before Starting His Own Firm Formwell.

Formwell Has Been Formed With An Objective To Train The Engineers In The Field Of Formwork And Bridge The Huge Skill Gap In The Current Construction Industry.



**MR. SARANG
ACHARYA**

HOW TO ENROLL FOR THIS COURSE

**DOWNLOAD
INTERNSHIP
APP
CLICK HERE**



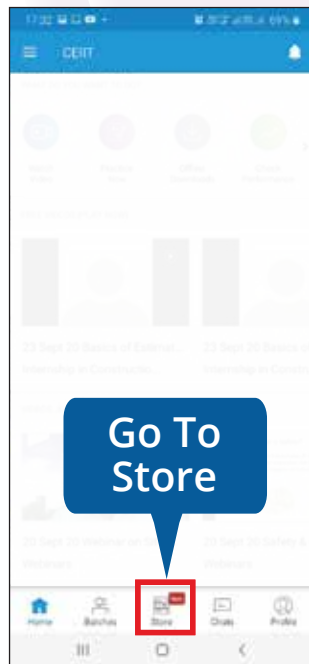
HOW TO SELECT COURSE & MAKE PAYMENT

Step 1



App Home Screen

Step 2



Step 3



Step 4

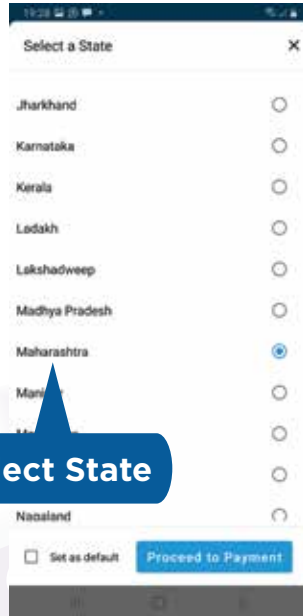


HOW TO BUY THE COURSE WITH EMI

Step 1



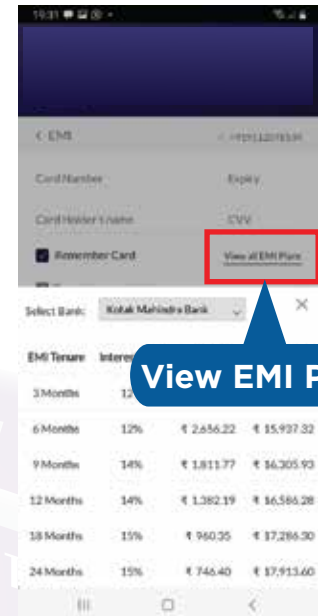
Step 2



Step 3



Step 4



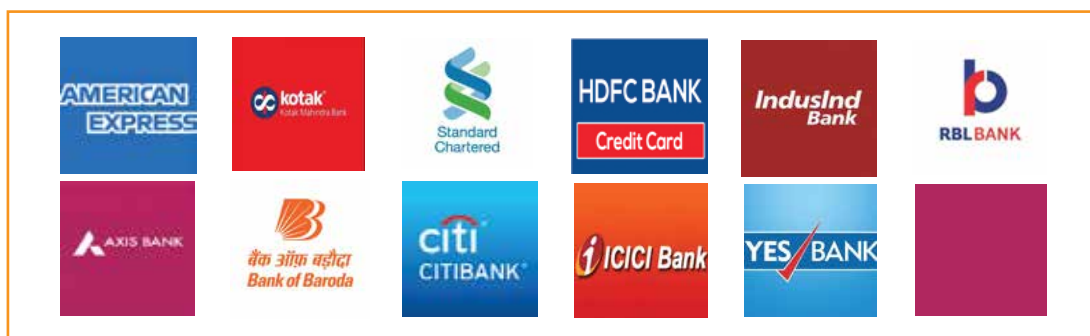
TERMS & CONDITIONS

1. Finance options are given for your ease. It is totally depends upon lending banks. Its availability options limited to provided on app. Institute is not involved in that.

EMI OPTION AVAILABLE ON

1. Pre Approved Debit Cards from Selected Banks
2. All Credit Cards
3. Other financial institutions

BANKS PROVIDING EMI FACILITY



DISCOUNTS POLICY

Discounts Policy

- Diploma / BE Student : **20%** Discount
- No Discount for MTech Student or passed out students
- Students need to carry I card & Recommendation letter from college HOD on college Letterhead.

A

On 100% Payment

- 8 days Prior to Batch: **10%**
- 15 Days Prior to Batch: **15%**
- 30 Days Prior to Batch: **25%**
- 60 Days Prior to Batch: **30%**

B

Group Discounts on Booking at a Time

- 3+ Participants Group : **10%**
- 5+ Participants Group: **15%**
- 10+ Participants Group: **20%**
- 20+ Participants Group: **30%**
- 30+ Participants Group: **40%**
- 50+ Participants Group: **50%**

A & B can be clubbed together if 100% Advance payment as per days decided.

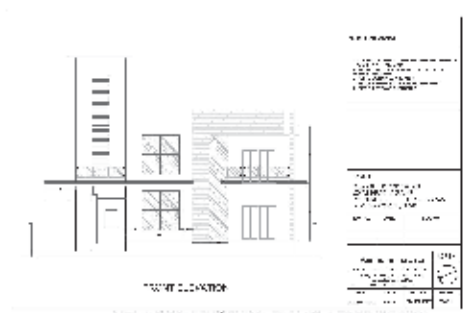
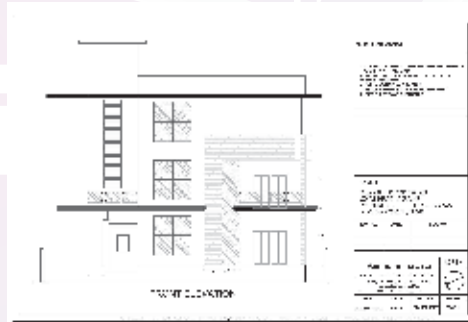
OUR OFFICE AND CLASSROOM



COLLEGE WORKSHOPS



OUR PROJECTS



SITE PHOTOS



Life Republic, Mharunji, Pune



Benelli India Service Center, Ravet, Pune



Finolex Academy of Management & Technology, Ratnagiri



DLF Akruiti Info Parks Pvt. Ltd. - SEZ Project, Hinjewadi Pune



Farmhouse at Theur, Pune, Maharashtra



Residential Project for Wahile, Chakan, Maharashtra



Development Work at IIEBM, Hinjewadi, Pune, Maharashtra



Bungalow Project at Nigadi Pradhikaran, Pune, Maharashtra

Property TODAY मुंबईचे पुरे
जुलैचा २९ दिवसात २०११

बांधकाम संवहान



बांधकामात काम करताना प्रकल्प निव्वारणीयता नकोच, त्यासाठी चांगले साहित्य वापरणे चांगले उपाययोजना आहे.

जलद बांधकामासाठी अॅल्युमिनियम फॉर्मवर्क

घरणी, इका, ब्रीटिंग बांधकाम प्रकल्पांमध्ये घेतले जाते. अॅल्युमिनियम फॉर्मवर्क वापरणे चांगले उपाययोजना आहे. इतर बांधकामात वापरण्याची साठी अॅल्युमिनियम फॉर्मवर्क वापरणे चांगले उपाययोजना आहे. घराबांधणी, कारखाने, उच्च इमारती बांधकामासाठी अॅल्युमिनियम फॉर्मवर्क वापरणे चांगले उपाययोजना आहे.

प्रकाश वेडेकर, संपादन अधिकारी



बां बांधकामात जलद बांधकामासाठी अॅल्युमिनियम फॉर्मवर्क वापरणे चांगले उपाययोजना आहे. घराबांधणी, कारखाने, उच्च इमारती बांधकामासाठी अॅल्युमिनियम फॉर्मवर्क वापरणे चांगले उपाययोजना आहे.

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Reaping The Power And Promise Of Education

Today, India is witnessing tremendous transformation in the field of education. As the youth aspire for better education and training, they discover a new world of ideas. CEIIT wishes to support the youth and aims to shape a more fulfilling future for them.

For CEIIT, social responsibility is one of the mainstays that support our academic and research work. We believe that our role as a premier educational institution involves something more than just imparting knowledge and skills to our students. We aim to be the active agents of social change to address social concerns. With this responsibility, we take on the role of leader in the creation of a culture of social responsibility in society through our actions. We are committed to defending the ideals, responsibilities and objectives of a socially responsible academic institution.

With this aim, we have offered scholarships to needy students from more than 200 institutions. We aim to set new standards to promote ISR to achieve a greater impact on the youth and India, as a nation.

SIR VISHWESHWARAYA SCHOLARSHIP

500 Scholarships Exclusively for students from Rural Background with Merit

SIR VISHWESHWARYA SCHOLARSHIP



FAQ (Frequently Asked Questions)

1. When are the batches Planned? -Batches are formed every month, for more details contact 9112078538 / 34 / 39
 2. Is this course available in Online/Offline ? - Yes, courses are available on both Modules
 3. What are the Methods for payment of fees?-Payment are accepted Only via CEIIT App . There are lot of options of payment on the App like Net banking, Debit cards, credit cards, EMI on Credit Cards, Wallets.
 4. Can I get Installments in fee? - Fees must be paid in one go to our institute However there are some EMI facilities provided from bank, you can check its procedure on app, or contact 9112078538.
 5. Can I cancel my admission ? - No, admission once taken cant be cancelled and fees once paid is non refundable for any reason. Admission is non transferable at any circumstances
 6. How to Download App & Register for Course ? - You can do with Various Ways-
 - Android App Link CEIIT App: bit.ly/ceiit_app
 - Android App Link Internship App: https://bit.ly/internship_app
 - Android App Link TenderGuru App: <https://bit.ly/tenderguru>
 - Steps to login using iPhone, CEIIT Phone: <https://bit.ly/ceiitios>
 1. Download Classplus App from App store.
 2. Enter org code of your app. (Org code - ceiit)
 3. Enter mobile number and click on Continue.
 4. Enter the OTP and Verify. It's Done.
- Note: Register using as a Student, not parent.**
7. Are Payment accepted on the spot/offline? - No, Due to ovelwhelming response our batches are full so no on the spot entries allowed. Due to limited seats, making seating arrangements for spot entries gets difficult.
 8. Where can i find the Syllabus content of course - You can find it on our respective apps.

9. Are you providing Placements ? - Yes, We offer Placement support to our Interns who has taken more than 12 Months internship. There is no placement for this course, but we are adding you in our Jobs group specially for our students, you will find reference jobs over there.
10. Where do the classes gets conducted ? - Online on Zoom App & Offline At Pune Main Institute.
11. Teaching faculty name – Can be found in the Broucher.
12. Whether notes are provided ? – Yes in Soft copy we will provide important reference material.
13. How much discount will you offer on courses ? - CEiIT Dicount Policy is there, we offer discounts based on the courses.
14. Where we get Software ? – After admission we will guide you completely in getting necessary softwares installed on your system.
15. Is there any Demo lecture? Yes, you can find it on our App.
16. What if we miss any lecture: All our sessions are recorded and uploaded on our App only?- You can watch and download them in app only for offline viewing.
17. What is the Duration of the validity of these Recorded sessions? You can watch the recorded session unlimited time for the period mentioned on app as “Validity”
18. Information about current batch such as batch timing , Start date, Syllabus covered in current batch, etc.: For more details contact 9112078538 / 34 / 39
19. When do we get Certificate? & How? - Certificate will be issued after completion of the course, you need to apply for it. Certificates issued in Digital Formats. Hard copy can also be provided on your request with a nominal cost.
20. Institute Establishment & more detail about the institute ? - Institute is establised in the year 2015.
 - Visit us on **www.civilengineeringiit.in** & **www.civilengineeringiit.com** / on our social Media Platforms **civilengineeringiit** (Facebook, Instagram, Telegram, LinkedIn, Youtube)

OUR OTHER ESSENTIAL TRAINING FOR CIVIL ENGINEERS

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RAILWAYS

DAMS



CANALS



AIRWAYS



GOVERNMENT ESTIMATION 5 DAYS ONLINE TRAINING



STRUCTURAL DESIGNING



ETENDERING WORKSHOPS

PUNE

NAGPUR

JALGAON

KOLHAPUR

NASHIK

SOLAPUR

NANDED

AMRAVATI

AURANGABAD

THANE



ARCHITECTURAL COURSES



VISIT OUR CEIT APPS



CEIT APP



ETENDERLAB APP



INTERNSHIP APP



TENDER GURU

OUR HONOURABLE INDUSTRY SPEAKERS



**Er. Subhash
Pathak**



**Er. Shrirang
Palande**



**Er. Prakash
Medhekar**



**Er. Mahendra
Avhad**



**Er. Satish
Kumar Nair**



**Er. Rajesh
Jujare**



**Er. Prakash
Bhat**



**Er. Mayur
Pangrekar**



**Er. Kedar
Shelar**



**Er. Rupali
Desai**



**Er. Mitesh
Bhatt**

HOW TO CONTACT US ?



3rd Floor, Ketaki Premises, Beside Alka Talkies,
Navi Peth, Near Deccan Gymkhana, Pune 411030



admissions@civilengineeringiit.in



9112078534 / 9112078538

VISIT OUR SOCIAL MEDIA SITES

