



॥ ज्ञान, विज्ञान आणि सुसंस्कार यांसाठी शिक्षण प्रसार ॥ - शिक्षणमहर्षी डॉ. बापूजी साळुंखे

Shri Swami Vivekanand Shikshan Sanstha's

**Dr. Bapuji Salunkhe Institute of Engineering & Technology, Kolhapur**

Approved by AICTE, DTE - D6468, Affiliated to MSBTE - 1213 (1st Shift), 1693 (2nd Shift)



Department  
of

Civil  
Engineering

# Newsletter 2023- 24

February 2024

**1. Vision Mission**

**2. PEOs**

**3. Committee**

a. Chief Editor (HoD) – Mr. R.K.Patil

b. Executive Editor – Mr. M.T.Tirale

c. Faculty Member –

1. Mrs. S.P.Mengane

2. Mr. H.V.Kumbhar

d.Student Members (2)

1. Mrs. Shrilakshmi Nair TY Civil

2. Mr. Sahil Shinde SY Civil .

## Chief Editor's Desk:-

The Civil Engineering department aims at development of a beneficial upbringing for knowledge, by use of appropriate construction technologies in its everyday activities. The department mainly equips its students with diploma level expertise and appropriate skills in the field of civil engineering.

This semester we organized guest lecture and Industrial visit which helped students to learn Advanced Civil Engineering software's, Construction Practices & Hands on Training on different surveying instruments.

We also organized "CESA Departmental activities" a department level technical event.

**Mr. Rhituraj Kishor Patil**

## **Vision :**

- „To provide quality technical education for fulfilling social needs as a civil engineer”

## **Mission:**

- To impart quality teaching, hands on training and value education to students.
- To inculcate professional ethics through quality and modern construction practices.
- To facilitate students for self – employability and pursue career enhancing courses.

## **PROGRAM EDUCATIONAL OBJECTIVES (PEOs)**

- PEO-1 - Analyze and design Civil engineering systems with social awareness and responsibility.
- PEO-2 - Adapt to recent technology by continuously updating knowledge to achieve personal and organizational growth.
- PEO-3 - Engage in life-long learning and develop as ethical professional.

## Academic Achievements

### MSBTE RESULT WINTER 2023

Class	Rank	Name	Percentage
FY	FIRST	PRINCE SANJAY SINGH	82.82
	SECOND	SHUBHAM DHANAJI PATIL	80.00
	THIRD	PRACHI SANTOSH MATIWADE	78.47
SY	FIRST	BANGI ALAJARIN ADAM	90.00
	SECOND	NAIR SRIDEVI JAYANT	80.53
	THIRD	MALI NEHA ABHIJIT	78.87
TY	FIRST	NAIR SRILAKSHMI JAYANT	84.10
	SECOND	GAVADE PRATIKSHA BHAGVAN	83.20
	THIRD	PATIL VIKAS BHIVAJI	82.00

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## Co-Curricula Achievements:-

- 1) 04 students have participated in 'Model Making' Competition' at NPK, Kolhapur.
- 2) 06 students have participated in 'Quiz Competition, Impulse 2k24 at BSIET, Kolhapur
- 3) 02 Students participated in 'CAD competition' event at Bharati Vidyapeeth Kolhapur
- 4) 02 Students have Secured Second rank in 'Model Making' competition (Impulse 2k24) event at BSIET, Kolhapur
- 5) 1 student have secured first rank in 'Paper Presentation' Competition at AMGOI, Vathar

## ○ Extra-Curricular Achievements:-

- 1) Satyajeet Vijay Bhandari from TY Civil is runner up in Zonal Wrestling tournament at Tatasaheb Kore Institute of engineering & Technology (polytechnic), warana
- 2) Varad Atul Chavan from SY Civil had participated in Zonal Cricket tournament at Sanjay Ghodawat Polytechnic, Atigre.
- 3) Arman Tarik Shaikh from SY Civil had participated in Zonal Football tournament at MWIT, Turkewadi.
- 4) Saad Ikbal Bargir from SY Civil had participated in Zonal Football tournament at MWIT, Turkewadi.
- 5) Shrutika Balwant Redekar from TY Civil is winner in Zonal Kho-Kho tournament at Govt. Polytechnic, Kolhapur.

## Industrial Visit

1) Industrial Visit to “**Railway Station**” for SY Civil on 13<sup>th</sup> March, 2024

Purpose: Industrial Visit to **Railway Station** at Kolhapur was arranged on 13<sup>th</sup> March, 2024 For SY Civil students to identify various elements of Railway Engineering at Railway Station, Kolhapur











GPS Map Camera

Kolhapur, Maharashtra, India

P63R+252, Railway Colony, Shahupuri, Kolhapur, Maharashtra 416001, India

Lat 16.702188°

Long 74.240574°

13/03/24 10:09 AM GMT +05:30



## Industrial Visit to “Tilari Dam”

2) Visit to “**Tilari Dam**” on 21<sup>st</sup> Feb 2024

Purpose: Visit to “**Tilari Dam**” was arranged 21<sup>st</sup> feb 2024 for TY Civil students to Identify different components of Gravity Dam.





## Industrial Guest Lecture

1) Industrial Guest Lecture on “*Revolutionizing Civil Engineering- The Power and Potential of Software Solutions*” by Mr. O. P. Suryawanshi:

**Purpose:** Guest lecture on “*Civil Engg. Advance Softwares*” was arranged for Second year Civil engineering student’s .Objective of that lecture was to aware students about advance Softwares in Civil Engg.



2) Industrial Guest Lecture on “*Business needs money to start! Really?*” by *Mr.Jiya Momin sir*

**Purpose:** To inculcate business mindset during academics in students mind.





3) Industrial Guest Lecture “ *On Introduction and Hands on training of Total Station*”. by *Mr.Mohan Gokhale*

**Purpose:** Hands on training of Total Station.





## Personality Development Lecture



## Women's Day Seminar









# Life Skills Development Program



### 1) **“Jallosh 2024”: Annual Social Event:-**

“Jallosh 2024” an annual social event was organized in institute on 21<sup>st</sup> Jan.2024 . “Jallosh 2024 ” was 2 day festival of college that include various events where in student get the chances to think, step forward and showcase their talent. Various events had organized like face painting, Photography competition, rangoli competition, Mehendi competition, singing and dancing competition, fasion-show etc. more than 35 students from computer department had participated in event. Mr.Kaustubh Gavade sir (CEO- Shri Vivekanand Shikshan Sanstha, Kolhapur) had inaugurated all events and wished best luck to all participants.





## CESA FEST – 2023-24

### Engineers Day Event





# Student Article

## Advance Plastering Methods

-Mr. Ruturaj Chavan (TY Civil)

Plastering Work Procedure:-

### 1. Preparation of Surface for Plastering:-

1. All the mortar joints of wall should be rough, so as to give a good bonding to hold plaster.
2. Clean all the joints and surfaces of the wall by brushing or scrapping with a wire brush. There should be not be any oil, grease and efflorescence spots on the surface to be plastered.
3. If there are any cavities or holes on the surface, or any loose inferior materials, then fill it in advance with appropriate specified material.
4. If the surface is smooth or the wall to be plastered is old, then rake out the mortar joint to a depth of 12 mm – 20 mm for proper bonding of mortar with the surface.
5. Wash the mortar joints and entire wall to be plastered, and keep it wet for at least 6 hours before applying cement plaster.
6. If the projection on the wall surface is more than 12 mm, then knock it off, so as to obtain a uniform surface of wall. This will reduce the consumption of plaster.

### 2. Applying Under Coat or Base Coat

#### Preliminary Groundwork :-

1. For uniform thickness of plastering throughout the wall surface, *dots* on the wall should be fixed first at a distance of 2m horizontally and Vertically. A dot means patch of plaster of size 15 mm x 15 mm and having thickness of about 10 mm.
2. With the help of Plumb bob verticality is checked and screeds are formed as per the required thickness in the 2mx2m patches formed.  
(Sometimes a cement slury coat is applied on the wall surface for proper bonding between the surface).

#### Procedure for applying First coat or Base coat:-

1. The ratio of cement and sand for first coat plaster varies from 1:3 to 1:6.
2. In case of Brick masonry the thickness of first coat plaster is 12 mm and for concrete masonry this thickness varies from 9 to 15 mm.
3. First coat of plaster should be applied between the patches formed on wall surface. This is done by means of trowel. Level the surface by means of flat wooden floats and wooden straight edges.
4. First coat should set but it should not to dry. Roughen it with a scratching tool to form a key to the second coat of plaster.

### 3. Applying Finishing Coat :-

1. Before applying the second coat the first coat applied should be kept wet/damp.
2. Finishing coat is a final coat of plaster to be applied for finishing the plaster. The thickness of second coat or finishing coat may vary between 2 to 3 mm of cement mortar ratio 1:4 to 1:6.
3. The finishing coat should be applied starting from top to bottom and completed in one operation to eliminate joining marks.

#### 4. Curing of Plastering :-

1. After both coats of plastering, it is kept wet by sprinkling water for at least 7 days in order to develop strength and hardness.
2. Improper curing may lead to cracks formation or efflorescence in plaster work. Gunny bags can be used for keeping the surface damp, to achieve proper curing.

#### **Points to remember after Completion of Plaster Work**

- Cleaning of door and window frame and floor area after completion of work.
- Curing should be started as soon as the plaster has hardened. Plaster should be cured for at least 7 days.
- Curing shall commence, 24 hours after the plaster is laid.

Plastering techniques and Machines:-

#### **Objectives of Using a machine for Plastering:-**

As compared to old plastering technique / Traditional plastering technique, following objectives can be achieved using machine for plastering

1. This Machine will reduce the human work reducing the labor cost. (Since labor employment is necessary for any country, this factor can be only considered in some exceptional cases.) Although skilled labor is required for operation of machines.
2. It will avoid wastage's of the mortar, thus saves the overall cost of construction.
3. Higher accuracy of the plaster can be acquired along with fast plaster coverage.
4. Machine is portable i.e. can be moved from one place to another.
5. Cost of Plastering per Sq.m can be reduced for large construction work.

# Scope of Civil Engineering

- Prof.M.T.Tirale

There is a massive career scope in Civil Engineering as BE/BTech Civil Engineering graduates can explore promising opportunities in both the private sector and public sectors. Most importantly, there is an immense scope of Civil Engineering in the government sector where you can work in the following government jobs in Civil Engineering:

- ONGC
- PWD
- Electricity boards
- Armed Forces
- NHAI
- Indian Railways
- IOC
- Town Planning
- BHEL

At these public-sector organisations, there are numerous vacancies available at Indian Railways, ONGC, PWD and BHEL and offer the most scope of Civil Engineering in India!

## **Scope of Civil Engineering in the Private Sector**

Here are the most popular job profiles and careers in Civil Engineering in India:

- **Project Manager**
- Planning and Design Officer
- Site Engineer
- Construction Managers
- Civil Engineering Technicians
- **Architects**
- Assistant Engineer
- Senior Engineer
- Chief Engineer
- City Engineer
- Division Leader and Head
- Deputy Engineer
- Surveyors
- Director of Public Work
- Urban and Regional Planners
- Environmental Engineers
- Professor and Teachers
- Researcher
- Consultants
- **Entrepreneurs**



### Popular Private Companies for Civil Engineers

Looking for the best private companies for Civil Engineering jobs? Here are the top private companies in India that hire Civil Engineering graduates:

- **Punj Lloyd**, Maharashtra
- **Akme Projects Ltd**, New Delhi
- **Bridge & Roof Co (India) Limited**, Kolkata
- **DLF Limited**, Haryana
- **Coastal Projects Pvt Ltd (CPPL)**, Hyderabad
- **CQRA**, Mumbai
- **Gammon Infrastructure Projects Limited (GIPL)**, Mumbai
- **Stewarts & Lloyds of India Ltd**, Kolkata
- **Arun Excello Group of Companies**, Tamil Nadu
- **Conart Engineers Ltd**, Mumbai
- **Essar Group**, Maharashtra

### Salary in Civil Engineering

The average salary differs as per the public and private sector as government jobs. **The average salary in Civil Engineering in India can be around 3-5 Lakhs per annum.** If you are planning to work abroad, you can either go for a masters in Civil Engineering in USA, UK, Germany, Canada, etc. and then get a **salary package of 12 to 18 Lakhs per annum as a Civil Engineer.**

### List of Civil Engineering Jobs

Now that you are familiar with the most popular Civil Engineering jobs in the government and private sector, take a look at the comprehensive list of Civil Engineering jobs in demand around the world:

- Structural Engineer
- Civil Engineer
- Geotechnical Engineers
- Site Engineers
- Construction Engineers
- Project Engineer
- Architectural Engineer
- Nuclear Engineer
- CAD Technician
- Environmental Engineer
- Civil Engineering Technicians
- Architects
- Assistant Engineer
- Senior Engineer
- Chief Engineer
- City Engineer
- Division Leader and Head
- Deputy Engineer
- Surveyors

### **Skills Required**

As a highly technical and intellectually-rewarding field of study, the scope of Civil Engineering is truly immense and requires candidates to possess certain skills to thrive in their careers! Here are the key skills required to pursue a successful career in Civil Engineering:

- Technical and Mathematical Proficiency
- Problem-Solving Skills
- Organizational Skills
- Attention to Detail
- Excellent Communication Skills
- Numeracy and IT skills
- Data Interpretation Skills

### **Popular Job Areas**

The scope of Civil Engineering lies in developing, designing, planning, calculating, monitoring construction as well as executing and managing the construction of buildings, roads and physical structures like bridges, dams, etc. and their maintenance.

