

**D.K.T.E. SOCIETY'S  
YASHWANTRAO CHAVAN POLYTECHNIC,  
ICHALKARANJI**

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**DEPARTMENT OF CIVIL ENGINEERING**

**NEWSLETTER-SUMMER 2020-21**

**HOD's View**

I am happy to write a message for the first issue of our civil engineering 'newsletter'. This news letter also introduces you to our new logo for the civil engineering department. The core team has planned to give you latest information of civil engineering department at the end of every semester i.e. we will have two issues annually, one each for winter and summer semesters. The newsletter will provide you vital information on three basic pillars of the civil engineering department i.e. information on faculty, students and departmental activities. The newsletter also aims to equip you with the latest information on new technologists in the field of civil engineering which has not been covered in university syllabus.

Best wishes,

Mr.V.A.Patil

(HOD Civil Engineering Department)

**Editor's View**

It gives me an immense pleasure to release this News Letter for Department of Civil year 2020-21. It's an honor for me to highlight the achievements of our department. I would like to thank Director, Principal, and Faculty Members for their valuable support.

**Members of Editing Committee**

- Shruti Joshi (TY Civil)
- Mukta Chougule (S.Y.Civil)
- Piyush Ambekar (F.Y.Civil)

**DEPARTMENT VISION:**

- To create highly **skilled** committed **civil engineers** for transforming ideas in to **real structures** to fulfil the needs & sustainable growth of **society**.

**DEPARTMENT MISSION:**

- To impart quality education emphasizing the theoretical and practical concepts to prepare competitive civil engineers.
- To develop professional and entrepreneurial skills in students through consistence industry interaction
- To inculcate environmental, **ethical**, cultural & **social** awareness among the students.

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## Class Topper & Achievements

Rank	Name Of Student	Percentage
1	Mane Pooja Chandrakant	92.11
2	Mane Arti Chandrakant	90.44
3	Thane Aniket Sanjevkumar	89.38

**(TY CIVIL)**

Rank	Name Of Student	Percentage
1	Kashid Ganesh S.	89.25
2	Mourya Vandana R.	83.50
3	Lokare Pranjal S.	82.00

**(SY CIVIL)**

<b>Rank</b>	<b>Name Of Student</b>	<b>Percentage</b>
1	Chougule Mukta N.	80.42
2	Vathare Yash S.	76.00
3	Gurav Darshani S.	75.90

**(FY CIVIL)**

## **Student Achievement Report SUMMER 2020-21**

<b>S.N</b>	<b>ACTIVITY</b>	<b>DATE</b>	<b>STUDENT NAME</b>	<b>LEVEL</b>	<b>VANUE</b>
1	TECHNICAL	15/02/2020	POOJA MANE	NATIONAL	DYP,KOLHAPUR
2	TECHNICAL	15/02/2020	DIVYA PATIL	NATIONAL	DYP,KOLHAPUR
3	TECHNICAL	15/09/2021	MUKTA CHOUGULE	NATIONAL	DKTE YCP
4	TECHNICAL	15/09/2021	SAISHREE JADHAV	NATIONAL	DKTE YCP
5	TECHNICAL	15/09/2021	SHRUTI JOSHI	NATIONAL	DKTE YCP
6	TECHNICAL	15/09/2021	RADHIKA MANE	NATIONAL	DKTE YCP
7	TECHNICAL	15/09/2021	MAHEK MAKANDAR	NATIONAL	DKTE YCP
8	TECHNICAL	15/09/2021	VANDANA MOURYA	NATIONAL	DKTE YCP

## Class Subject Topper

<b>SUBJECT TOPERS SY (W-2020)</b>			
<b>SR.NO</b>	<b>NAME OF STUDENT</b>	<b>SUBJECT NAME</b>	<b>MARKS (70)</b>
1.	KASHID GANESH SHANKAR	HYDRAULICS	70
2.	GURAV SHREE SANJAY KASHID GANESH SHANKAR	THEORY OF STRUCTURES	64
3.	MULLANI PARVIZ YUNUS	RAILWAY AND BRIDGE ENGINEERING	66
4.	KASHID GANESH SHANKAR	GEO-TECHNICAL ENGINEERING	64
5.	KHOT VISHWASAGAR RAJARAM	BUILDING PLANNING AND DRAWING	65

<b>SUBJECT TOPERS TY (W-2020)</b>			
<b>SR.NO</b>	<b>NAME OF STUDENT</b>	<b>SUBJECT NAME</b>	<b>MARKS (70)</b>
1.	THANE ANIKET SANJEEVKUMAR	MANAGEMENT	66
2.	MANE POOJA CHANDRAKANT	CONTRACTS AND ACCOUNTS	70
3.	MUGULKHODE YOGESH YUVRAJ	MAINTENANCE AND REPAIRS OF STRUCTURES	70
4.	MANE POOJA CHANDRAKANT	EMERGING TRENDS IN CIVIL ENGINEERING	70
5.	MAGDUM ABHIJEET BABURAO	SOLID WASTE MANAGEMENT	70

## Faculty Achievements

### Faculty Training Attended (AY-2020-21)

Sr no	Name of Faculty	TOPIC	Date	Duration
1	Mr.A.V.Hajare	Productivity parameters in Construction	23 Oct To 24 Oct	2 Days
2	Mr.A.V.Hajare	Scientific approach to Vastushastra In Building Planning Part- II	21 Jan To 26 Jan	5 Days
3	Mr.A.V.Hajare	Exposure On recent Advancement In Construction Industry	22 Feb To 26 Feb	5 Days
4	Mr.A.V.Hajare	Innovations in Concrete Technology	12 March To 18 March	7 Days
5	Mr.M.S.Shingade	Recent Innovations in Geotechnical Engineering	4 June To 5 June	2 Days
6	Mr.M.S.Shingade	Introduction to Moodle for Teaching Learning Process	3 May To 8 May	7 Days
7	Mr.M.S.Shingade	Scientific approach to Vastushastra In Building Planning Part- II	21 Jan To 26 Jan	5 Days
8	Mr.M.S.Shingade	Innovations in Concrete Technology	12 March To 18 March	7 Days
9	Mr.S.K.Naik	Recent Trends In Highway Engineering	18 June To 19 June	2 Days
10	Mr.S.K.Naik	Concrete Mix Design	21 Oct 2021	1 Days
11	Mr.S.K.Naik	E Tendering : A Construction Contract Building	31 March To 2 April	3 Days
12	Mr.S.K.Naik	Recent Trends in Green Energy Technology	15 March To 19 March	5 Days
13	Mr.R.M.Bandgar	Analysis and Design of R.C.C.Building	7 July 2021	1 Days
14	Mr.R.M.Bandgar	Dam And Spillway	13 Oct 2021	1 Days
15	Mr.R.S.Chougule	Geotechnical Engineering Laboratory ( NPTEL )	July –August 2021	4 Week
16	Mr.R.S.Chougule	Implementation Of National Educational Policy-2020	25 March 2021	1 Days
17	Mr.R.S.Chougule	Water Resource and Environmental Engineering-2021	11 June To 12 June 2021	2 Days
18	Mr.R.S.Chougule	Online Platform For Distance Education	12 May To 14 May	3 Days
19	Mr.R.S.Chougule	Scientific approach to Vastushastra In Building Planning Part- II	21 Jan To 26 Jan	5 Days

20	Mr.V.A.Patil	S.Y.B.Tech. CBSE Scope Of Syllabus & Syllabus Setting Of T.Y.B.Tech. CBSE	17 Jan 2021	1 Days
21	Mr.V.A.Patil	Shivaji University	5 June 2021	1 Days

## Faculty Achievements

### Faculty Paper Published (AY-2020-21)

Sr No	Name of Faculty	TOPIC	Date	Publication
1	Mr.A.V.Hajare	Study Of Nylon Reinforced Cement Sheet Paper Published	5 April 2021	Man-Tech
2	Mr.M.S.Shingade	Comparative Assessment Study of Traditional Concrete and green Concrete	09 Sept 2021	IJSART
3	Mr.R.M.Bandgar	Fluid Mechanics and Mechanical Design	Year 2021	
4	Mr.R.S.Chougule	Geotechnical Engineering Laboratory ( NPTEL )	July –August 2021	4 Week

## **Online Faculty Development Program**

<b>SR.NO</b>	<b>NAME OF FACULTY</b>	<b>TITLE</b>
<b>1</b>	<b>Mr.A.V.Hajare</b>	<b>Exposure on Recent Advancements in Construction Industry</b>
<b>2</b>	<b>Mr.P.S.Redekar</b>	<b>Exposure on Recent Advancements in Construction Industry</b>
<b>3</b>	<b>Mr.M.S.Shingade</b>	<b>Exposure on Recent Advancements in Construction Industry</b>

**Photo's**



**c** civil tech is presenting
Meeting details X

### Flexible Pavement Design Methodology

**Figure 12.1** Catalogue for pavement with bituminous surface course with granular base and sub-base - Effective CBR 5% (Plate-1)

Required is MSA and CBR

CBR- To evaluate the subgrade strength of roads and pavements

MSA- To evaluate the Load

$$M_{des} = \frac{1000(1+r)^n}{x} \times A \times D \times F \quad (4.5)$$

Where,

- $M_{des}$  = cumulative number of standard axles to be catered for during the design period of 'n' years
- A = initial traffic (commercial vehicles per day) in the year of completion of construction (directional traffic volume to be considered for divided carriageways where as for other categories of the carriageway, two-way traffic volume may be considered for applying the lateral distribution factor)
- D = lateral distribution factor (as explained in para 4.5)

$$A = P \times 10^{rt} \quad (4.6)$$

Where,

- F = vehicle damage factor (VDF)
- n = design period, in years
- r = annual growth rate of commercial vehicles in decimal (e.g., for 6 per cent annual growth rate, r = 0.06). Variation of the rate of growth over different periods of the design period, if available, may be considered for estimating the design traffic

The traffic in the year of completion of construction may be estimated using equation 4.6.

civil tech

Devendra Lady...

Sheetal Nalbilw...

Harsha Shinde

Datta Mogale

KUNAL KALE

People (8)

Nilkanth Bhole 12:57  
strata detail

civil tech 13:38  
I shared a Jam file with the meeting:  
[https://jamboard.google.com/d/1efFZGZBWyo0Z-1Jrg3GU1A9VYxpLpnwYqRooZU2kg/edit?usp=meet\\_whiteboard](https://jamboard.google.com/d/1efFZGZBWyo0Z-1Jrg3GU1A9VYxpLpnwYqRooZU2kg/edit?usp=meet_whiteboard)

You 14:09  
no

Sheetal Nalbilwar 14:09  
No

Nilkanth Bhole 14:09  
no sir

Sheetal Nalbilwar 14:11  
Concrete  
Asphalt paving

Send a message to everyone

Turn on captions

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Meeting details X

Dr. Taha Rashid

civil tech

Nishant Upadhye

KUNAL KALE

shramika chore

Sheetal Nalbilw...

Harsha Shinde

Saill Deshpande

Datta Mogale

Nilkanth Bhole

People (14)

Sheetal Nalbilwar 12:06  
Okay Sir

Nilkanth Bhole 12:06  
ok

Devendra Ladvanjari 12:07  
ok

Kedar Gitte 12:13  
Thank u sir nice

Nilkanth Bhole 12:57  
strata detail

civil tech 13:38  
I shared a Jam file with the meeting:  
[https://jamboard.google.com/d/1efFZGZBWyo0Z-1Jrg3GU1A9VYxpLpnwYqRooZU2kg/edit?usp=meet\\_whiteboard](https://jamboard.google.com/d/1efFZGZBWyo0Z-1Jrg3GU1A9VYxpLpnwYqRooZU2kg/edit?usp=meet_whiteboard)

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Method Name	Min FS
Ordinary/Fellenius	0.794
Bishop simplified	0.829
Jarvis simplified	0.793
Jarvis corrected	0.886

Material Name	Color	Unit Weight (kN/m <sup>3</sup> )	Strength Type	Cohesion (kPa)	Phi (deg)	Water Surface	Hu Type	Hu
Soil 1	Yellow	19	Mohr-Coulomb	28.5	25	Water Surface	Custom	1
Soil 2	Green	18.5	Mohr-Coulomb	0	10	Water Surface	Custom	1

SLIDE - 2 Materials, Water Table and Load

Are you talking? Your mic is off. Click the mic to turn it on.

Meeting details

People (8)

IN CALL

- Prashant Redekar (You)
- civil tech
- civil tech Presentation
- Devendra Ladvanjari
- KUNAL KALE
- winod date
- Nilkanth Bhole
- Devendra Lad...
- Nishant Upadhye
- vinod date

Turn on captions

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civil tech is presenting

Meeting details

People (13)

Chat

dhanasri pawar 10:37  
To know Properties of soil available at road site

Sheetal Nalbilwar 10:37  
Property of soil

You 10:37  
which geomatierial material is used

Sheetal Nalbilwar 10:43  
Signal system

You 10:44  
traffic management

dhanasri pawar 10:55  
For ease of work, to reduce time, for more efficiency and accuracy

Sheetal Nalbilwar 10:56  
Can change design anytime

Send a message to everyone

Turn on captions

civil tech is presenting

Meeting details ✕

People (17) Chat

11:42:00  
ok sir

11:42:13  
Devendra Ladvanjari 11:42:13:00

11:42:20  
DIPAK PAWAR 11:42:20:00  
Thanks sir, Nice session

11:42:25  
Nilkanth Bhole 11:42:25:00  
yes

11:42:30  
civil tech 11:42:30:00

11:42:30  
Devendra Ladvanjari 11:42:30:00  
ok

11:43:00  
Keshav Ramdas Manerikar 11:43:00:00  
Nice session

Send a message to everyone ▶

Meeting details ^

Turn on captions Present now

civil tech is presenting

Meeting details ✕

People (19) Chat

15:59:00  
no

15:55:00  
Sheetal Nalbilwar 15:55:00:00  
Frog

15:55:00  
Harsha Shinde 15:55:00:00  
frog

15:59:00  
Sheetal Nalbilwar 15:59:00:00  
1st class

15:59:00  
Harsha Shinde 15:59:00:00  
first, second, third

15:59:00  
You 15:59:00:00  
class i ii iii

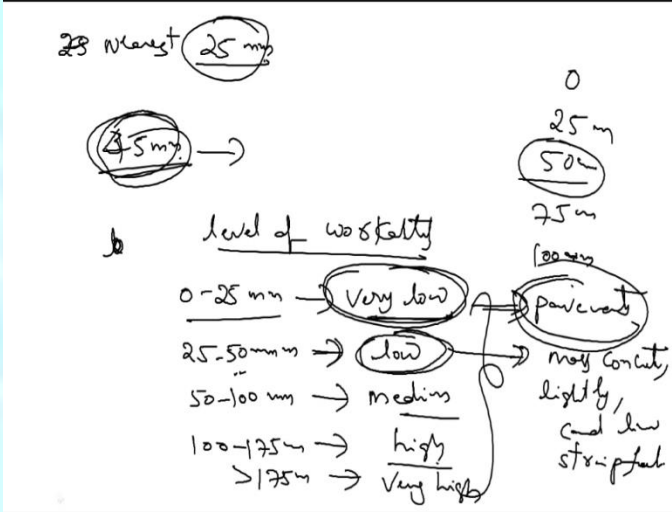
16:02:00  
Megha Jadhav 16:02:00:00  
3.5  
45

Send a message to everyone ▶

Meeting details ^

Turn on captions civil tech is presenting

Grade	Average minimum compressive strength (N/mm <sup>2</sup> )
(3.5)	3.5 N/mm <sup>2</sup>
5	5 N/mm <sup>2</sup>
7.5	7.5 N/mm <sup>2</sup>
10	10 N/mm <sup>2</sup>
12.5	12.5 N/mm <sup>2</sup>
15	
20	
25	
30	
35	



Participants list:

- civil tech
- Pradeep Dara
- Milind Chavan
- Devendra Lad...
- Megha Jadhav
- Harsha Shinde
- Sheetal Nalbilw...
- PP. Jadhav
- DIPAK PAWAR

People (16)

Chat

- 25 collapse
- Megha Jadhav 16:20 highest pt
- You 16:21 shear
- Megha Jadhav 16:21 centre
- Sheetal Nalbilwar 16:22 50
- Megha Jadhav 16:22 50
- Sheetal Nalbilwar 16:23 Low

Send a message to everyone

Meeting details ^



Turn on captions  
civil tech is presenting

# GUEST LECTURE





## Industrial visit

:-

**Mr. M. B. Dange Stone Crusher, Jaysingpur.**

**Class:- FY CIVIL**

**Date:16/12/2021**