

Shri Pandurang Pratishthan Pandharpur's
KARMAYOGI POLYTECHNIC COLLEGE
Shelve Tal. Pandharpur, Dist. Solapur

Department of civil Engineering



15 Sept 2021 Vol.3

VISION

Transform rural undergraduates into a aspirant civil engineer to enhance economical level and acquire a status in society.

MISSION

To Develop & Maintain Dedicated Faculty Members Who Are Committed To Maintain Learner Centered Environment With Emphasis On Student Mentoring.

To Promote Quality Education With Professional Skill For Industrial And Social Needs.

To Imbibe Moral & Ethical Values Among Civil Engineering Students.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

PEO1: Under Graduates Will Be Actively Engaged In A Professional Career As A Civil Engineer.

PEO2: Under Graduates Will Be Able To Become Entrepreneur & Will Provide Employment.

PEO3: Under Graduates Will Be Able To Use His Fundamental Knowledge To Pursue Higher Education & Will Continue His Professional Development.

Our Glorious Achievers



Dear Students,
We Believe Words Of Franklin D Roosevelt, "we Cannot Always Build Future For Our Youth, But We Can Build Our Youth For The Future". So, Beyond Providing Sound Education, We Wish To Provide Our Students A Holistic Learning Experience For Life. To Ensure It We Always Attempt To Craft Platforms For Students To Express.
Its My Great Pleasure To Know That Department Of Civil Engineering Is Publishing 3rd Volume Of Newsletter "Brick By Brick". I Appreciate The Efforts Put By All Students And Teachers For Bringing Out This Issue Of Newsletter.
My Heartiest Wishes For Your Pursuit Of Excellence.

Rohan Paricharak, Trustee

SY

Chavan Ganesh Gorakh Bansode Ujjawala Jalindar Gaikwad Sanket Mohan



88.38%

First Class with Dist.



84.88%

First Class with Dist.



81.13%

First Class with Dist.

TY

Mangedkar Shruti Sanjay Gophane Sagar Santosh Randave Ganesh Santosh



93.74%

First Class with Dist.



93.37%

First Class with Dist.



91.74%

First Class with Dist.



I Am Pleased To Know That On Occasion Of The Engineer's Day, Department Of Civil Engineering Is Publishing 3rd Volume Of Newsletter "Brick By Brick.

I Believe That Educational Institute Should Offer All Possible Opportunities To Students For Their Overall Development. This Newsletter Surely Will Showcase Some Of The Best And Creative Endeavors Of Students.

I Extend My Best Wishes To All The Students And Faculties Of Civil Engineering Department.

Dr. Ajit Kanase, Principal

FINAL YEAR PROJECT

ANALYSIS OF INDETERMINATE BEAM

This Project proposes a method for analysis of statically indeterminate beams, considering the shear deformations, which is an extension to the slope-deflection method, which is used to analyze all kinds of continuous beams. This methodology considers the shear deformation and flexure. The traditional method takes

into account only the flexure deformation and without taking into account the shear deformation; this is how it usually develops structural analysis of statically indeterminate beams. Also, it makes a comparison between the proposed method and the traditional method and the differences between both methods are greater, especially members of short length as can be seen in the results tables of the problems considered, in the traditional method not all values are on the side of safety. Therefore, the usual practice, without considering the shear deformations in short clear between its supports, will not be a commended solution and it is proposed the use of considering shear deformations and also is more attached to reality.

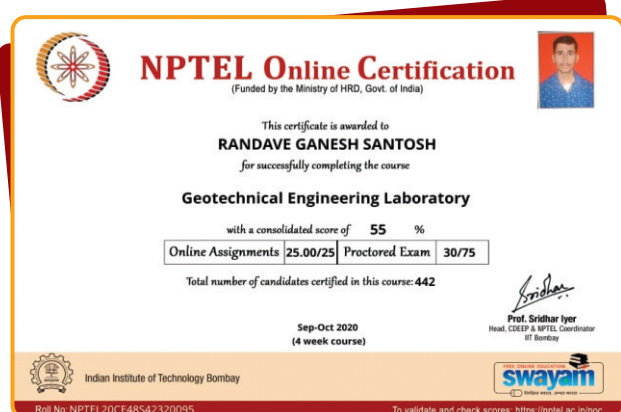
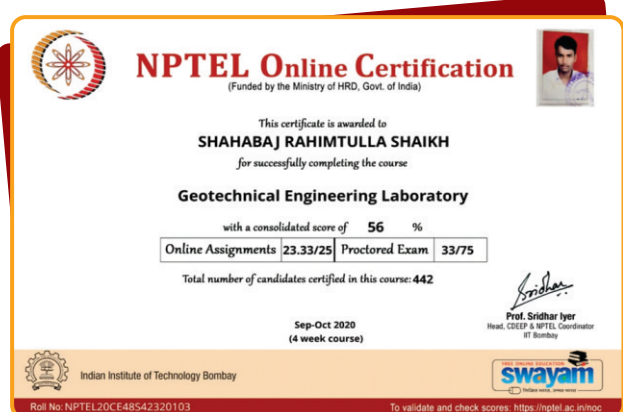
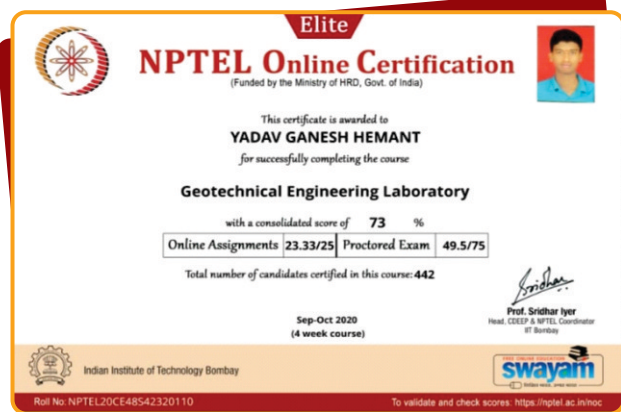
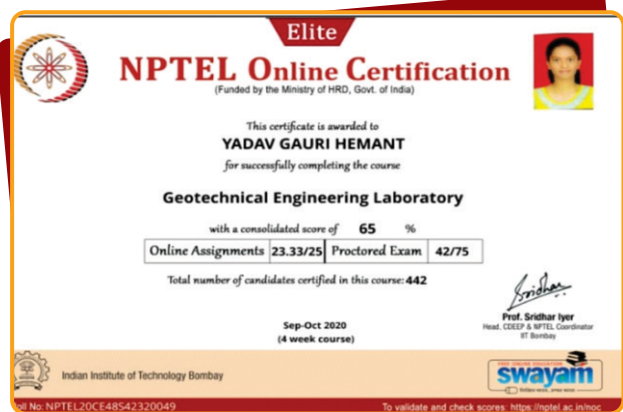
DESIGN OF STEEL ROOF TRUSS, INCLUDING COLUMN & BASE

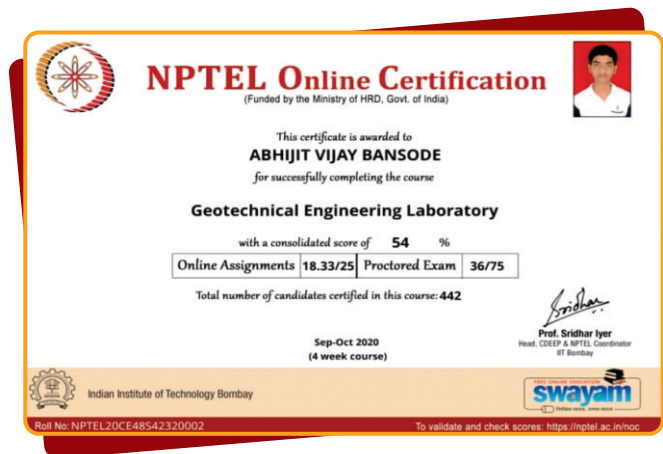
This Project deals with the design of steel roof truss with steel column and base plate. Now days the steel roof trusses are used majorly because it is more economical than the RCC roof slab. The most commonly used steel roof trusses are fink roof truss, Pratt roof truss, Warren roof truss, Howe roof truss etc. The steel column is used in construction where we require the large height. The maximum height of RCC column is 24m. The column height up to the 20m to 24m are constructed in one piece after that height we have to provide the joints it will affect structural stability and strength that's why the steel columns are used for more height. The base is used as steel interface between steel column and base plates. The main function of the steel base plate is to transmit the structural load and to link the column bottom end to the footing.

RETROFITTING OF BUILDING

The retrofitting of concrete structures has become increasingly important in view of aging and more deterioration of infrastructure. The problem is more severe due to optimized technologies for construction. Many expansive methods are available for retrofitting structures and choice of suitable method/material is a challenge to a structural engineer. Retrofitting is the Science and Technology of strengthening the existing structures or structural elements to enhance their performance with new technology, features and components. Retrofitting of an existing reinforced concrete structure includes either repair, rehabilitation (or) strengthening terms. The term retrofit is used if the damaged structure performance was satisfying than before with some additional resistance then the term retrofit will be representative. Now a day's many researchers have proposed many materials, methods and techniques for strengthening flexure deficient RC beams. The studies performed on the flexure retrofitted RC beams using traditional method like stitching (Hook Method) are studied. Further it is required to study the relative effect of these techniques on flexure carrying capacity of flexure deficient beams by retrofitting.

Achievement through ONLINE





COUNTRY'S PRIDE



RAVI KUMAR DAHIYA



NEERAJ CHOPRA



MIRABAI CHANU



INDIAN HOCKY TEAM (MEN)

STUDENT PARTICIPATION



DARANDALE ROHIT (TY)

Indian languages, including Marathi, that belong to the Indo-Aryan language family are derived from early forms of Prakrit. Marathi is one of several languages that further descend from Maharashtri Prakrit. Further change led to the Apabhramṣa languages like Old Marathi, however, this is challenged by Bloch (1970), who states that Apabhramṣa was formed after Marathi had already separated from the Middle Indian dialect.

The earliest example of Maharashtri as a separate language dates to approximately 3rd century BCE: a stone inscription found in a cave at Naneghat, Junnar in Pune district had been written in Maharashtri using Brahmi script. A committee appointed by the Maharashtra State Government to get the Classical status for Marathi has claimed that Marathi existed at least 2300 years ago alongside Sanskrit as a sister language. Marathi, a derivative of Maharashtri, is probably first attested in a 739 CE copper-plate inscription found in Satara. Several inscriptions dated to the second half of the 11th century feature Marathi, which is usually appended to Sanskrit or Kannada in these inscriptions. The earliest Marathi-only inscriptions are the ones issued during the Shilahara rule, including a c. 1012 CE stone inscription from Akshi taluka of Raigad district and a 1060 or 1086 CE copper-plate inscription from Dive that records a land grant (agrahara) to a Brahmin. A 2-line 1118 CE Marathi inscription at Shravanabelagola records a grant by the Hoysalas. These inscriptions suggest that Marathi was a standard written language by the 12th century. However, there is no record of any literature produced in Marathi until the late 13th century.

BHENKI POOJA (TY)

* जीवनातील तथ्य *

कधी कधी लाईफ मध्ये अशी सुच्युवेशन येते की, आपल्यासमोर २ ऑफशन येतात एकतर रियालीटीला अॅक्सेप्ट करुन त्याला तोंड देन किंवा त्याला इग्नोर करुन तेच आयुष्य जगत राहणं आणि ९०% लोक दुसरं ऑफशन निवडतात कारण त्यांना रिक्स घ्यायची नसते, मस्त साधं आयुष्य जगायचं असतं आणि ते पण मोठे-मोठे स्वप्न बघुन अस नाही होत यार, रियालीटीला इग्नोर करुन आपण फक्त ती वेळ पुढे सरकावतो बाकी काही होत नाही, जे होणार असतं ते होतचं रियालीटी अॅक्सेप्ट करणं सोपं नसतं माहिती आहे. पण आहे त्याच सेल्युशन त्यावरच नाहीतर, तुम्ही तुमचं आयुष्य चुकीच्या पद्धतीने जगत राहाल आणि स्वप्नांच्या दुनियेत खुश राहाल.

कधी कधी काय होत आपल्याला रियालीटी माहित असते तरी आपण दुर्लक्ष करतो, पण याच पुढे जाऊन तुम्हाला खप त्रास होतो कारण त्यांना तुम्हाला एकट्यालाच समोरे जायचं असतं स्वतःला तयार करा आणि जे आहे त्याला अॅक्सेप्ट सोप नसेल पण जे होयच आहे त्रास वैगरे ते आताच झालेलं चांगलं असतं नंतर त्याच परिणाम खुप मोठ्या दुःखःमध्ये होऊ शकतो. जेव्हा कधी अशी सुच्युवेशन येईल ना तुमच्यासमोर तेव्हा स्वतःला सांगा जे होयच आहे ते होऊदे मी त्यांना जाईल चांगली गोष्ट ही होईल की तुम्हाला समजेल की खरंच असे पण लोक असतात. जगात अस पण होऊ शकतं. तुमचे डोळे उघडतील आणि हे खुप महत्वाचं आहे. आताच्या जगात कारण लोक आपल्या धुंदीत जगत आहात त्यांना अजुन कळलं नाही आहे की कोण काही असेल त्याला समोर जायचं तुम्ही तुमच्या आई-वडीलासारखे स्ट्रॉंग आहात आसल्या छोट्या-छोट्या गोष्टींना घाबरायचं नाही.

GHODAKE SWATI (TY)

Engineering is my Passion

दिलो में पसिंग का डर लेकर जी रहे हो, तो
इंजिनीअर हो तुम...

हॉस्टेल में रहते हो और मॅगी को भगवान मानते हो तो
इंजिनीअर हो तुम...

किताबे खुली हो या बंद हो या बंद हो पढाई लास्ट नाईट पर करते हो तो
इंजिनीअर हो तुम...

घर से दूर रहकर सपनों के भगत हो तो
इंजिनीअर हो तुम...

एक Answer कॅसीओ मे तीन बार चेक करते हो तो
इंजिनीअर हो तुम...

कंधो को किताबो के साथ बीज में डालते हो तो
इंजिनीअर हो तुम...

दिलो मे अपनी बेताबिया और नजर मे ख्वाबो की बिजलीया लेकर चल रहे हो
तो
इंजिनीअर हो तुम...

Thank you

BHALSHANKAR RENUKA (TY)

STUDENT PARTICIPATION

Women empowerment is one of the most critical and essential things that everyone are given the most power and right to make decision for themselves women have been subjected to in justis thought decades they have been treated as non existent for decades.

Women were else was always making decisions for them this is one of the biggest reasons for women's empowerment it was one of the essential things which were taught how to be self independent in all aspects of there lives they were taught how to create a space for them where they can grow and become the people they want to be.

the men always had all the rights however the women didn't have any of these rights, even a small right like voting things changed when women realized that they too need equal rights.

This brought along the revolution be th women demanding their right it spread the awareness that gender shouldn't be the reason for that things go in their favor India is one of the countries which is not safe for women and there are several reasons for their lack of safety is the danger of honor killing families think that it's the right to kill the female if they have brought shame to the family and reputation of the family.

another big problem that women face ps that there's lack of education women are discouraged from pursuing higher education in the country are married along with that the men dominating the women think that the role of women is limited to work for them. They don't let these women go and these women have the

reputation freedom. Need of the is

oneneedsof beunitedoftheempoweredbewomentowardssouldsothatliterate receive tofor

women empowerment most significant. many ways in which women can people should be together to make the reality women empowerment one of the significant steps towards empowerment would be educating women. Education be provided and encouraged more women can the education that the is going to help them pursue what they want pursue women can have the that they want to have and be happy in it another way of women of women empowerment and equal opportunities be men should the same chances that their pay is another that should women and men women should is to be given the same in every be given field are a counter parts get pay be equal for be paid equally for the work that they do.

OTARI TEJASWINI (TY)



TALEKAR SHUBHANGI (SY)

Personality development the ever -factors Personality development encompasses dynamic construction and de construction of integrative characteristics that distinguish on individual in terms of interpersonal behavioral traits. Indeed, personality development is changing and subject to contextual and lire - altering experiences. Personality development is also dimensional description and subjective in nature. That is, personality development be continuum varying in degrees of intensity and change. It is subjective in nature because its conceptualization is rooted in social expected behavior self expression and personal growth can seen as emerges early and The dominant viewpoint in personality Psychology indicates that personality continues to develop one's lifespan.

2) Adult personality traits are believed have basis in infant temperament meaning that individual differences disposition and behaviour appear early in life potentially before language consciosre presentation develop. The fire Faction Model of personality onto the maps of dimensions childhood temperament. This suggests that individual differences levels the corresponding personality traits Theories ex-The development of personality is supported and attempted to the plained by theories of personality. Psychoanalytic Theory Trait Theory Social Cognitive Theory Evolutionary Theory Life spanTheory Influencing factors mean Personality traits demonstrate moderate levels but still of continuity, smaller significant normative level individual difference sin change often late into the life This pattern is influenced by genetica, environmental transactional and stochastic factors changes, and Course Genetics..Environmental interactions. Stability of personality Course over the an individual's lifespan, the stability of their personality has been shown to bevariable olthough this variability levels out in adulthood. Behavioral genetics can account for the variability experienced the life-span.across

THORAT SHUBHANGI (SY)



PISE PAYAL (SY)

