

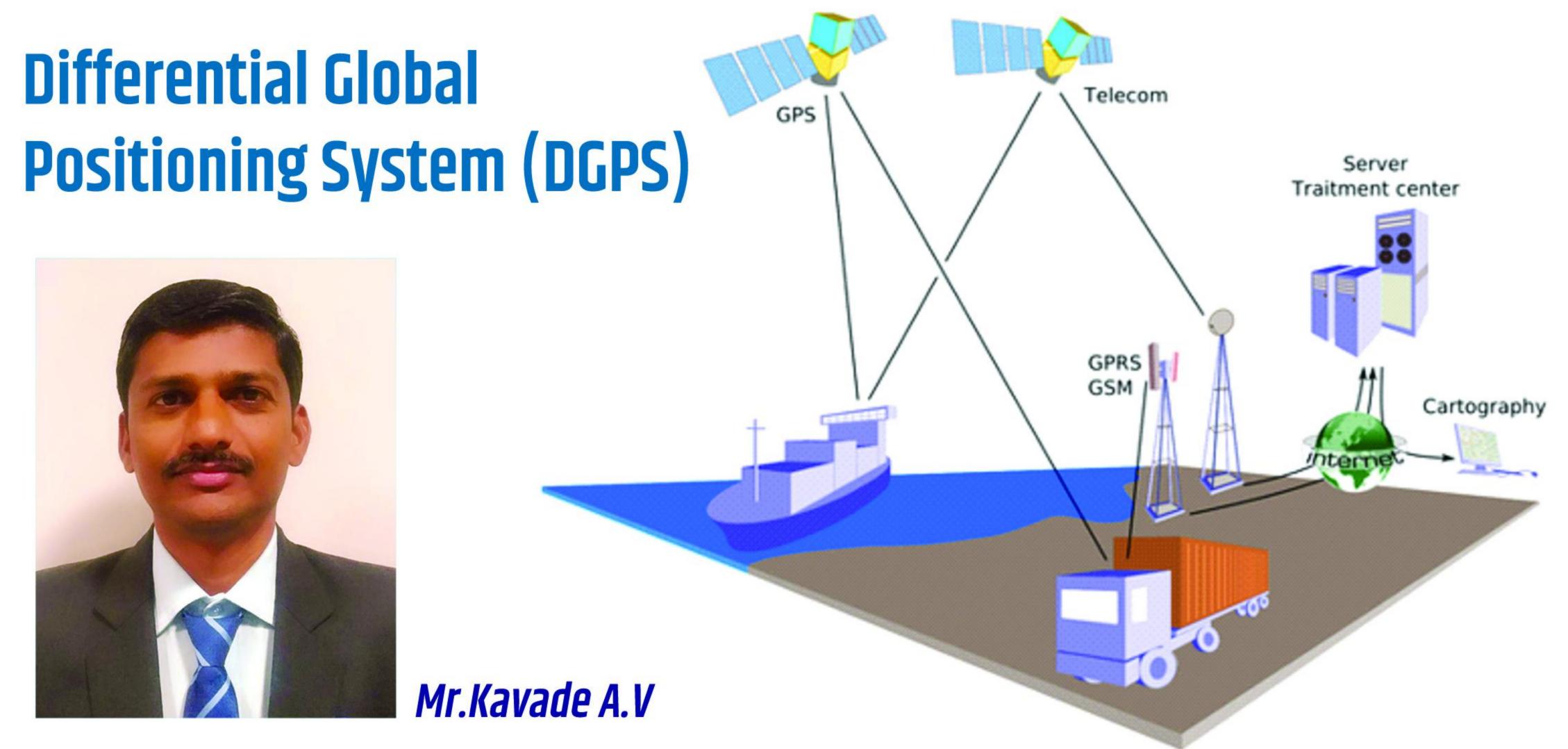
Nonlinear Analysis of RCC Open Square Elevated Storage Reservoir with Discrete Modelling by using Ansys

Mr.Avinash M. Thorat

Abstract -

The present study focuses on the nonlinear analysis of reinforced concrete open square elevated storage reservoir (ESR). In this study component wise static analysis with tank full condition is carried out. Means the components of the RCC open square ESR like tank wall, tank slab, supporting beam, supporting frame and footing are modelled and static analysis by considering all the design loads is carried out in order to find maximum stresses produced in the tank components. Concrete is modelled using SOLID65 element and reinforcement is modelled using LINK180 element. Also discrete type of modelling technique is used in order to model rebar in the concrete. For modeling and analysis Ansys Mechanical apdl software is used.

International Journal of Engineering Trends and Technology (IJETT) (Volume 36 Number 6- June 2016)



A Differential Global Positioning System (DGPS) is an enhancement to the Global Positioning System (GPS) which provides improved location accuracy, in the range of operations of each system, from the 15-meter nominal GPS accuracy to about 1-3 cm in case of the best implementations.

Each DGPS uses a network of fixed ground-based reference stations to broadcast the difference between the positions indicated by the GPS satellite system and known fixed positions. These stations broadcast the difference between the measured satellite pseudoranges and actual (internally computed) pseudoranges, and receiver stations may correct their pseudoranges by the same amount. The digital correction signal is typically broadcast locally over Chandrayaan 2 was launched on 22 July 2019 at 9:13 UT (2:43 p.m. Indian ground-based transmitters of shorter range.

Social Message for Society

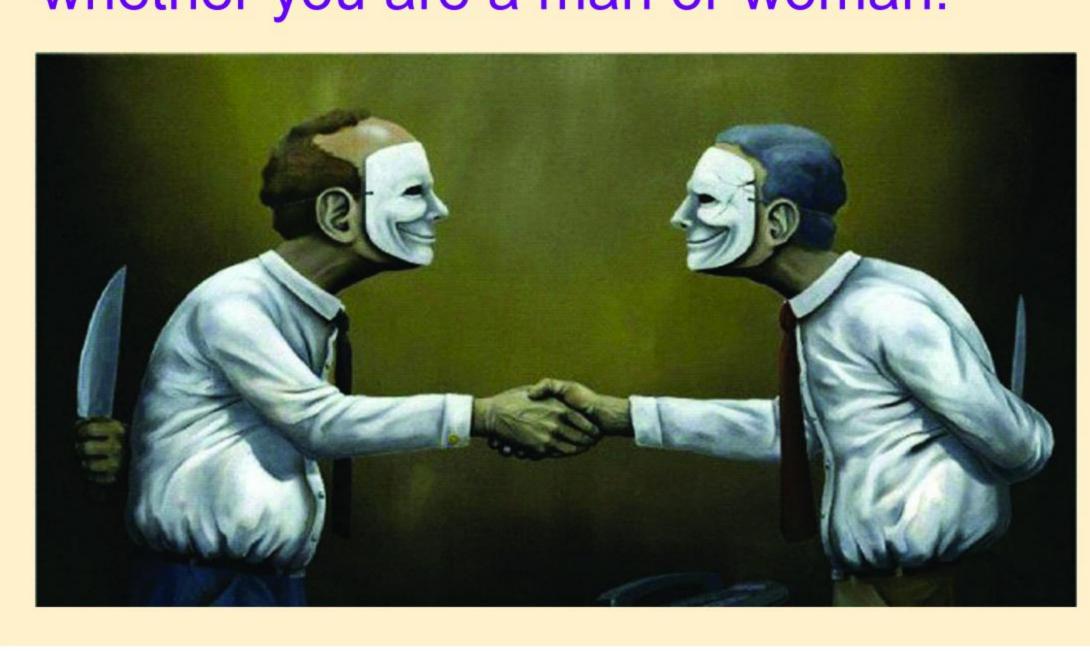
A small message to all the people in our society. A society which was the dream of Dr. B R Ambedkar.

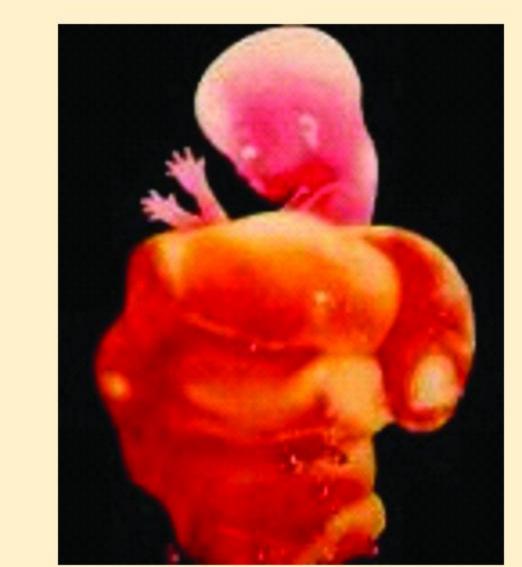
"Unlike a drop of water which loses its identity when it joins the ocean, man does not lose his being in the society in which he lives. Man's life is independent. He is born not for the development of the society alone, but for the development of his self."

Is this society the same one he wished for? Or is it worth living for people? Is this a place we need to be proud of? Are there answers to all this things?

I don't think so. This society can be a better society only when you will be capable to make it one, of which he dreamt of. A society where we will be capable to answer all these questions and fulfill all our wishes. A place where women will be given full freedom and all evils of it will be diminished. For such a society, I have few things to tell them:

whether you are a man or woman.





a lot about women empowerment and freedom the womb of the mother itself for having a girl. your nonsense. God, Allah, Jesus or anything we believe of women, and then at your back will call those It's a women who gives birth to you and if you in can't be so cruel or harsh to be happy to see his who fight for it and stand against it as a REBEL. are not proud to have a girl as your child, you children dying. Everyone has the right to live and you are Please, grow up and stop being a hypocrite have no right to take birth from a woman too. no one to decide the destiny of someone. All are equal even if it's a woman. Everyone needs their You have no right to be a parent where you before him, whether you are Hindu, Muslim or Christian. It power and want to be free, it doesn't matter can't be thankful to God for what you have. doesn't matter. Your true heart matters the most and stop manipulating others for fulfilling your own wishes.

> Knowledge is power. Information is liberating. Education is the premise of progress, in every society, in every family.

Mr. Patil Shrinath, T.Y. Civil / Mr. Aniket Patil, T.Y. Civil Mr. Harshanand Honmute, T.Y. Civil



Presented by Jagtap Sanjay V.

Abstract: The foundation is very important for any structure and it has to be strong enough to support the entire structure. For foundation to be strong the soil around it plays a very important roll.

To work on soils, we need to have proper knowledge about their properties and factors which affect their behaviour. Expansive soils like black cotton soil always create problems more for lightly loaded structures than moderately loaded structures. The problems are swelling, shrinkage and unequal settlement. In this paper the experimental results for stabilization of black cotton soil by using groundnut shell ash, has been used to find their performance. The tests such as liquid limit, plastic limit, and standard proctor compaction test have been conducted to check the improvement in the properties of Black cotton soil. These tests are to be conducted at both non stabilized and stabilized states by adding 3%, 6%, 9%, and 12% of groundnut shell ash. The test results obtained on expansive black cotton soil mixed at different proportion of groundnut ash are presented and discussed in this paper. The objective of this study is to analyse the causes of cracks in foundation rested on expansive soil and overcoming it by stabilizing expansive soil and easy disposal of groundnut ash using as stabilizing material to obtain maximum stability for the black cotton soil. This paper will discuss about the problems in foundation due to expansive soil & its remedies.

Presented at -

International Journal of Innovative Research in Science, Engineering and Technology (Vol. 6, Issue 4, April 2017)





NASA shown interest to work with ISRO

Mr.Sanjay V. Jagtap

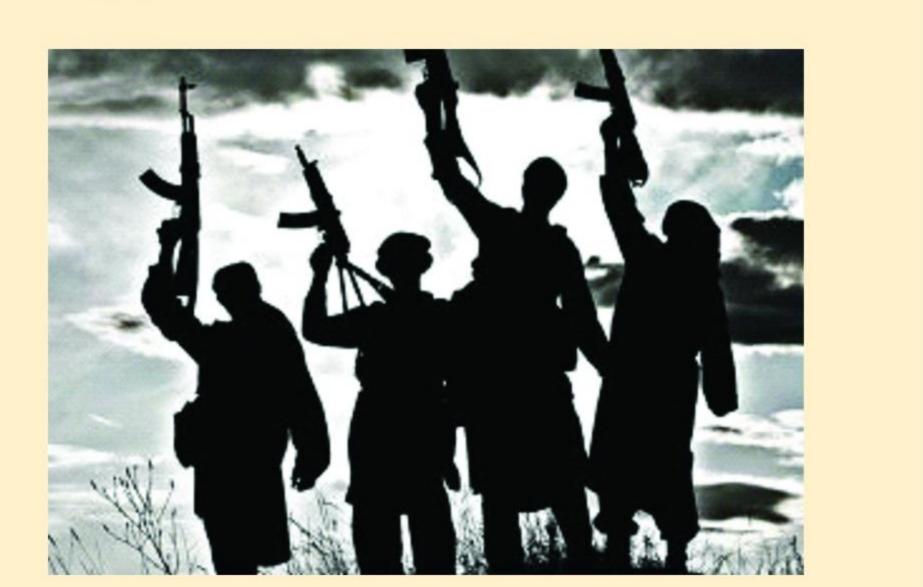
Space is hard. We commend @ISRO's attempt to land their #Chandrayaan2 mission on the Moon's South Pole. You have inspired us with your journey and look forward to future opportunities to explore our solar system together. twitter.com/isro/status/11...





Standard Time) from Satish Dhawan Space Center on Sriharikota Island on an ISRO Geosynchronous Satellite Launch Vehicle (GSLV) Mark III. The landerorbiter pair went into an initial elliptical (170 x 40400 km altitude) Earth parking orbit, followed by a trans-lunar injection on 14 August. The pair entered lunar polar orbit on 20 August. The lander and orbiter separated on September 2. The orbiter evolves into a 100 km altitude circular polar orbit and the Vikram lander maneuvered into a 30 x 100 km orbit with a plan to land on the surface in the high latitude areas near the south pole, between two craters, Manzinus C and Simpelius N, on 7 September between about 1:30 and 2:30 a.m. Indian local time (Sept. 6, 20:00-21:00 UT). contact was lost during the descent at an altitude of about 2.1 km, the data are being analyzed. The orbiter portion of the mission is planned to last 1 year. The rover was to be deployed using a ramp shortly after landing. The lander and rover portions of the mission were planned for 14-15 days, one period

1. To all those people in this society who speaks 2. To all those parents who kills the child in 3. To all those who thinks religion says killing people. Stop



Shri Pandurang Pratishthan, Pandharpur's

Karmayogi Polytechnic College, Shelve

Department of Civil Engineering





The Engineering Commu nity across India celebrates Engineers Day on 15 September every year as a tribute to the greatest Indian Engineer Bharat Ratna Mokshagundam Visvesvaraya. " Mokshagundam Visvesvaraya, born on 15 September, 1861, in Muddenahalli near Chikkaballapur. He went on to become India's most prolific civil engineer, dam builder, can be counted among the last century's foremost nation-builders.

M. Visvesvaraya was also the Diwan of Mysore from 1912 to 1918. He was the chief engineer responsible for the construction of the Krishna Raja Sagara Dam in Mysore as well as as the chief designer of the flood protection system for the city of Hyderabad. Due to his outstanding contribution to the society, Government of India conferred 'Bharat Ratna' on this legend in the year 1955." He was also awarded the British knighthood by King George V, and hence has the honorific "sir". His birthday, 15 September is celebrated as the Engineers day. He also designed and patented the automatic weir water floodgates, first installed at the Pune 1903. He transformed the Mysore state into what was then known as 'model

Known world over for his contribution to harnessing water resources, Visvesvaraya was, among other things, responsible for the building and consolidation of dams across the country. He is also credited with inventing the Block System -- automated doors that close in the conditions of

TATA Consulting

Eng. Ltd.,

ABOUT THE DEPARTMENT

The department of civil engineering was stared in the academic year 2008-2009 with an aim of promoting high quality education of civil engineering in rural area. The department currently offers diploma in civil engineering (DCE) program following the MSBTE curriculum. The teaching is assisted with digitalized presentation for better understanding of the students. Industrial visits are arranged for students to gain practical experience.

PRINCIPAL'S MESSAGE

I am glad to know that department of Civil

best wishes to students, faculty members and

head of Civil Engineering Department.

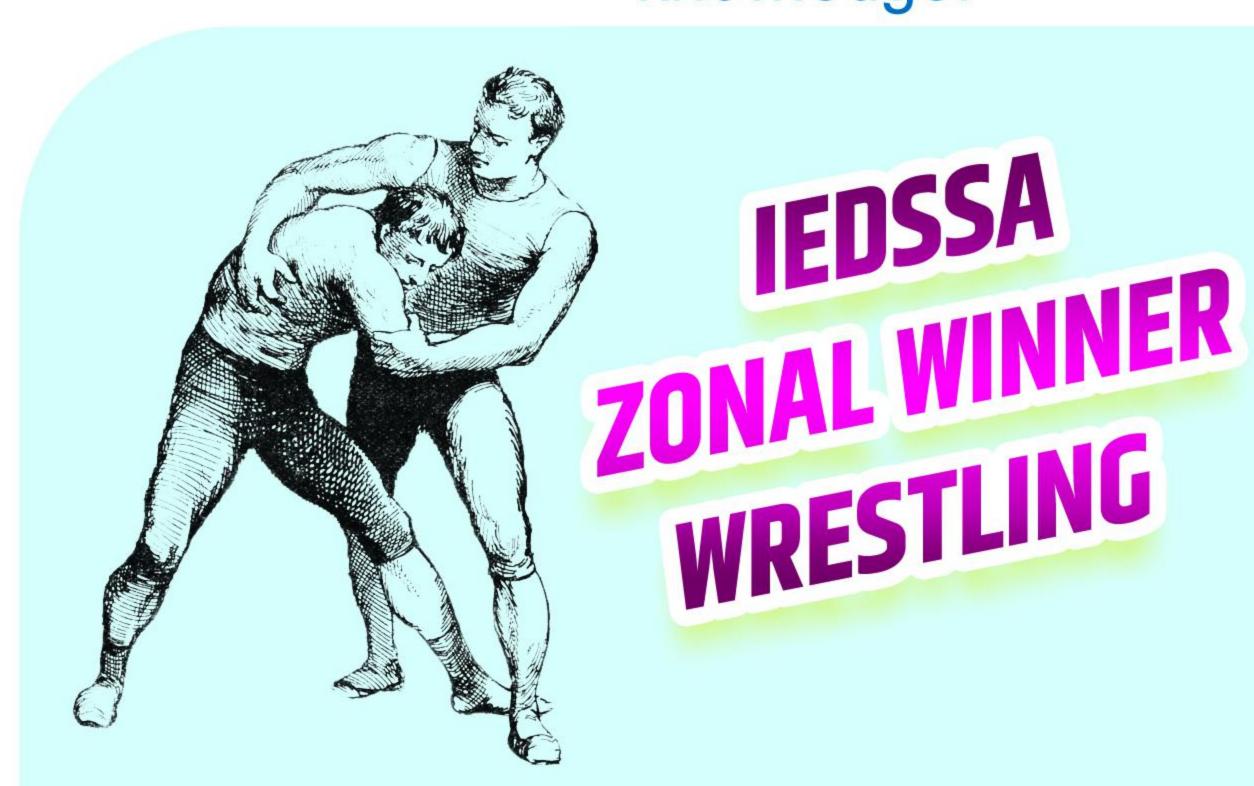


Dr.Kanase A.B. and resourceful. On this occasion I convey my



HOD'S MESSAGE

I am happy that civil department is releasing 1st issue of "Brick by Brick". I appreciate Mr.Kavade A.V and his team for their continuous effort in bringing out this newsletter. It gives me immense pleasure in seeing the articles by faculty and students on latest trends & social awareness and the department of civil engineering seems to be pro-active in organizing many programs. I wish the newsletter should carry many more useful information and faculty and students should make use of these opportunities to express their views and to update their knowledge.





GAVADE YOGESH

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 their fundamental knowledge to pursue higher Education & will continue his professional development.







YADAV GANESH 88.12%















KAVITKE ANAND

Role of Computer in Civil Engineering

Abstract :The development of powerful and affordable



and Research Development (IJAERD), UGC Approved e-ISSN: 2348 - 4470, p-ISSN: 2348-6406, February 2018



Microcomputers and computer software will have an impact in the delivery of instruction in higher education. This is especially true for civil engineering education where the computer has started to be appreciated as a useful tool in civil engineering analysis and design. This paper presents the use of computers as tools in the classroom and the Akshay Shinde author's experience of integrating computer usage in some civil engineering courses.

Published By: International Journal of Advance Engineering



OUR PLACEMENTS







Salunkhe Mahesh

ISO MATRIX

Guest Lectures

Guest speakers have become an important part of the educational experience for students. They expose students to real-world life experiences from the position of someone who has been there. Students get to see the insight and perspective of the guest speaker's particular field. When students are guided by industry specialists, senior professors, scientists, business tycoons, etc. they learn a ton. Education is not only about text-books and syllabus; there are many other interesting things to learn apart from the course that can help students grow in their personal as well as professional life.

By keeping in mind the points mentioned in above paragraph we arranged some guest lectures.



On 10th October 2019, we arranged a guest lecture on, "Different Schemes of State and Central Government for Rural Development". The guest speaker Mr. Sachin Jadhav, District Program Manager, Water and Sanitation Commission, Zilla Parishad Solapur, delivered an excellent lecture about importance of sanitation, different schemes of government for rural areas.

Mr. Sachin Jadhav Sir has completed Masters of Journalism & Mass Communication from Shivaji University. Sir has experience as sub-editor in Lokmat Newspaper, Sakal Agroone, Prahar Newspaper. Sir has also covered "Lokmat National Afro-Asian Games". Sir has awarded with

In 2017 by Honourable Chief Minister of Maharashtra, Mr. Devendra Fadanvis & Mr. Amitabh Bachchan. Sir has also awarded with 'स्वच्छ सर्वेक्षण ग्रामीण'award in 2018 by Hon. Cabinet Minister of Water & Sanitation Ms. Uma Bharati. For Pandharpur Vaari, Sir has innovated a program named as 'पंढरीचे दारी स्वच्छतेची वारी'

Presently Sir is National President of "All India Water & Sanitation Consultant Organisation".



On 28th January 2019, we arranged one guest lecture on "Guidance for Competitive Exam". The guest speaker Mr. Girish Khedkar, Director of Infinity Civil Engineering Academy, Pune delivered very nice and effective lecture about how to use engineering skill in day to day lifestyle?, How to get all the knowledge from books, internet & use it properly?, How to be disciplined?, How to prepare and face the competitive exams?

Industrial Visits



Industrial visit is one of the tactical method of teaching. The Purpose is to know things practically through interaction, working methods as well as employment practices. Moreover, it gives exposure through academic point of view. The Ultimate aim of industrial visit is to provide an exposure to students about practical working environment .They also provide students, a good opportunity to get awareness about industrial practices & new technology.

Technology development is a main factor, about which a students should be with updated knowledge. After visiting to an industry/ Site, the students can get knowledge about both theory and practical. Through the various Industrial/ Site Visits, Students enable to build good relation with the different Site activities which is beneficial to them in future.

In-plant Training



As per the Scheme, every student has to undergo In-plant Training after the Second Year Theory Examinations. Concerning this, the In-plant Training is Scheduled from 15th May to 25th June 2019, 6 weeks by MSBTE. All the students from SY Civil are distributed in different Groups for Training on the Site/ Industry. It gives the First Hand Knowledge about the various activities on Site. This includes field work and conceptual knowledge through observation and Experience.

Our students get the training at the sites under Pandharpur Municipal Council, Bal Kumbhar Associates, Sharad Constructions, Shri Swami Samarth Construction. There is Construction of Proposed RCC Residential Building Colony (Multi-Storey Building). Here the students come to know the precautions and care to be taken on the site for safety measures. The students have observed the various tools & plants and Machineries used on the Site. It gives excellent information of the construction site.

It is beneficial for the students in their future Career.





Computer Aided Drawing

Computer Aided Drawing as a drafting tool to draw, read, and interpret the civil engineering drawing facilitate more speed, accuracy and repetitive use of drawing as and when needed.

Architect Bal P. Kumbhar, B. Arch., is contributing toward improving competency of second year students through hands-on practice on 2-D drawing, isometrics, from 2012.







"A beautiful mind resides in a strong body". The social need is to strengthen the body of young people living in the 21st century. In order to meet this need, we motivate students to participate in individual and team sports, thereby developing a mindset for students to exercise their interest, teamwork, and ability to face defeat.

Upcoming Events-

Four Day Workshop on Total Station in 4th week of September 2019

E-Tendering Workshop in 2nd week of January 2020



National Service Scheme (NSS)

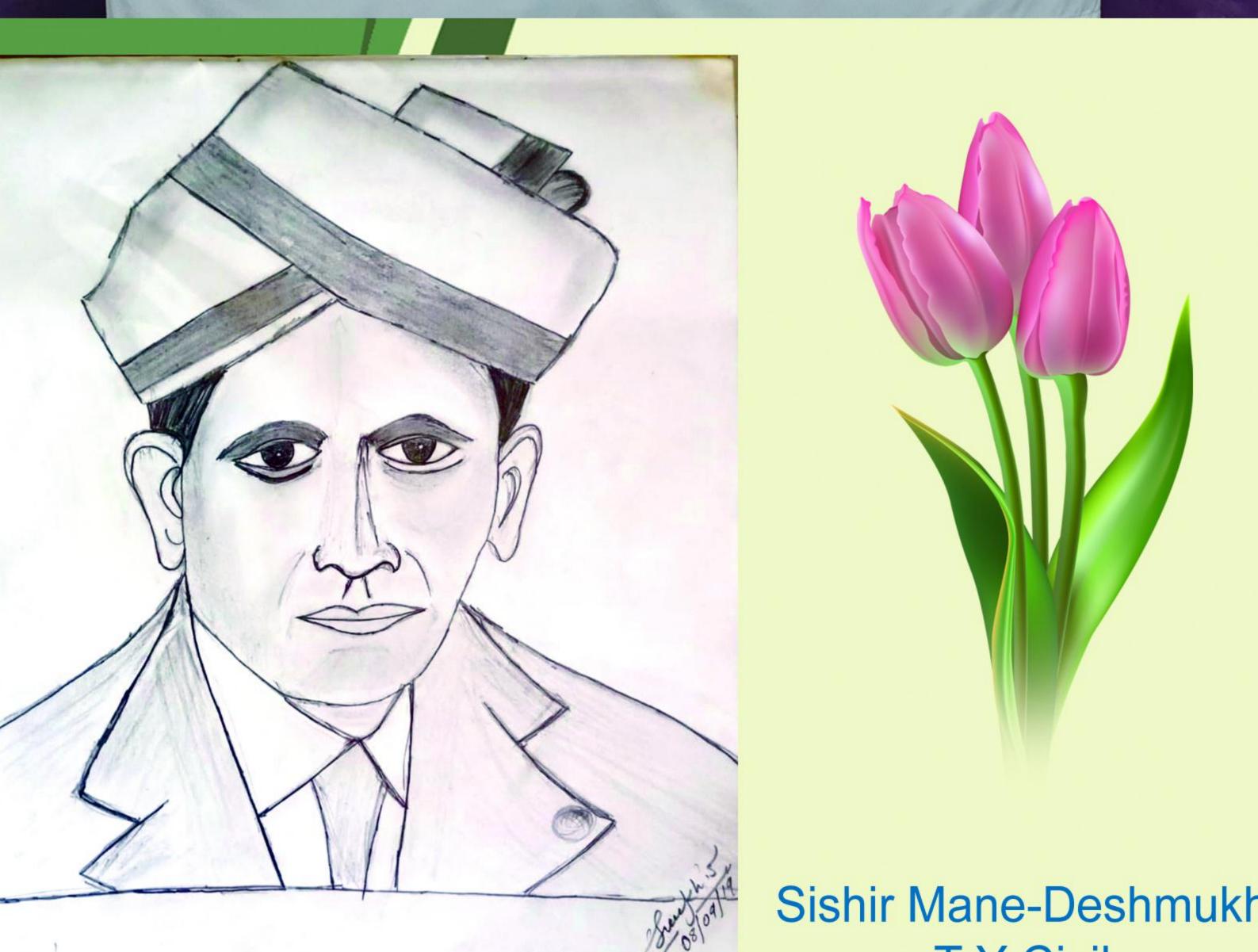
National service is one of the human values. The need of the hour is to develop service spirit. In order to meet this need, we plan various activities through the "National Service Scheme". The activities of the students are developed through the active participation of the students, such as social awareness, cooperation and patience.





Teacher's Day





On the Occasion of Teacher's Day, Students from Civil Engineering Department express their feelings and gratitude towards the Principal and the Faculties in the Institute.

As per the tradition, students took up the role of a teacher and carried out various academic activities on the day. Special function was organized at the end of academic session where students expressed their reverence towards their teachers and teaching community as a whole. The successful students were awarded to motivate & inspire. The function was also marked by a motivational speech from Principal Dr. A.B. Kanase.

Such programs nourishes the students to improve thoroughly.

