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### **FROM CHAIRMAN'S DESK...**

Presently, a knowledge explosion is being ushered in our midst especially in Engineering and Technology. The joy and experience shared on our campus ensure the growth and development of the overall personality of all the students alike. It is great to notice interesting events taking shape frequently at our campus. All of us are equally delighted to witness the happenings of significant events and tremendous achievements. I wish to record my hearty congratulations to those who have brought laurels to the institution and I appreciate all of you for working together as a team. I am sure, it is just a beginning and there is a lot, more to be happening. Go ahead and continue the good work.

**Hon. Bhausaheb A. Rupnar**



**FROM MANAGING DIRECTOR'S DESK...**

We are on a mission to bring the finest education to our students. This newsletter is an attempt to keep our students and their guardians informed about the various activities going on in our campus community. It is important for us that all students stay involved in campus activities because it helps in their overall development. It is also a means to disseminate relevant information and keep the community updated. Our students and alumni have been achieving various milestones in their careers which make us really proud. We also wish to appreciate such students and alumni through this newsletter. I want to appreciate our staff and the students involved in this newsletter initiative and I look forward to the future volumes.

**Dr. Ameet B. Rupnar**



**FROM CAMPUS DIRECTOR'S DESK...**

I am delighted to know that our college newsletter carrying the campus news and the achievements of our staff and students, who earn credits for the institutions, is being released. Four years of engineering education at FTC COER will not only earn students a degree but will transform students' personality and creativity, empowering them to lead a successful life. On this gracious occasion I wish all the best to those who are responsible for bringing out this letter. On reading this text, it would definitely be an inspiration and motivation for the other students and staff to perform better and add on their contributions in the forthcoming issues. Congratulations to all the contributors.

**Dr. Sanjay N. Adate**



**FROM DIRECTOR'S DESK...**

I am really honored and feel very privileged to function as the Director of Fabtech Technical Campus (FTC), Sangola. We believe that the existence, growth, survival and future of every Educational Institute will long lasting only if that Institute make and keep the students & parents and all the stakeholders of the institute feel very happy and satisfied. The students & parents will be happy only if every entity in an Institute works with Academic Excellence, Research Excellence and Training & Placement Excellence, along with Overall Development of the Student and ensuring "Excellence in Technical Education with Outcome Based Education". Our institute growth lies in Institute Motto that is "Parents and Students dreams are our institute missions".

**Dr. Duradundi. S. Badkar**



**FROM PRINCIPAL'S DESK...**

The FTC COER has been functioning with its own vision and mission to produce quality Engineers who will be playing a proactive role in society. Apart from imparting best quality technical education through teaching-learning, laboratory classes, and self-study methodology, we are committed to ensuring that students of Fabtech Technical Campus become good at communication skills, team work, and decision-making abilities. The staff members are encouraged to maintain their intellectual curiosity & improve their technical expertise through staff development programs. Students are motivated to enhance themselves ethically, physically, & intellectually.

**Dr. Ravindra B. Shendge**

## STUDENT SECTION

### WORKSHOP ON LATEX



Department of Computer Science & Engineering organized “Workshop on LaTeX” on 3<sup>rd</sup> January 2023. Prof. Namdev Sawant started the session with LaTeX is a document preparation system for high-quality type setting. It is most often used for medium-to-large technical or scientific documents but it can be used for almost any form of publishing. LaTeX is not a word processor instead it encourages authors not to worry too much about the appearance of their documents but to concentrate on getting the right content.

### WORKSHOP ON JAVA PROGRAMMING LANGUAGE



Department of Artificial Intelligence & Data Science organized a workshop on “Java Connectivity with Database” on 3<sup>rd</sup> January 2023. Prof. Rahul Anuse sir conducted JAVA PROGRAMMING useful for IT Industry started the session with a document JDBC, ODBC Drivers of Database Connectivity to use drivers in Industries. All students are actively participated in the program and took suggestions from the expert.

### GUEST LECTURE ON “DISCRETE MATHEMATICS”



Department of Computer Science & Engineering organized a guest lecture on “Discrete Mathematics” on 16<sup>th</sup> January 2023. Prof. Sumit Ingole started the session with Introduction with Discrete mathematical structures include objects with distinct values like graphs, integers, logic-based statements, etc. This lecture covered all the topics of Discrete Mathematics for computer science like set theory, recurrence relation, group theory, and graph theory. Purpose of this guest lecture is to understand Discrete Mathematics Technology Concepts.

## EXPERT LECTURE ON “COMPUTER ARCHITECTURE AND ORGANIZATION”



Department of Computer Science & Engineering organized an expert lecture on “Computer Architecture and Organization” on 3rd February 2023. The expert lecture was conducted by Prof. Vijay J., KIT, Shelave, Pandharpur on “Computer Architecture and Organization”. Computer Organization is one of the prominent subjects for CSE students. The expert emphasized on how computer internally works. He also extended the lecture on instruction formats of a computer, using these instruction formats, how operations on data will be performed. How architecture of computer can be implemented? Also includes number representation, floating point representation,

and floating point arithmetic. He also explained all important points regarding control unit and input output organization, memory organization. All students are actively participated in the program and took suggestions from the expert.

## TWO DAYS IOT & PROJECT WORKSHOP



Department of Computer Science & Engineering, organized a two-day hands-on workshop on "IOT & Projects" on 23<sup>rd</sup> and 24<sup>th</sup> May 2023, from 9 am to 5 pm under the guidance of Hon. Campus Director, and respected Principal Dr. R. B. Shendage. The resource persons for this workshop were Prof. Manoj Deshmukh & Dr. Somnath Thigale. More than 68 students and 03 staff attended sessions and came out with 10 Projects. The workshop began with an overview of IoT, its applications, and its impact on various industries. Participants had the opportunity to work with IoT development boards and sensors, learning how to collect and transmit sensor data to a cloud platform. Participants were divided into groups and given a project challenge to design and implement an IoT solution using the knowledge gained during the workshop.

## EXPERT LECTURE ON “DESIGN AND ANALYSIS OF ALGORITHM”



Department of Computer Science & Engineering organized Expert Lecture on “Design and Analysis of Algorithm” on 10th July 2023. The expert lecture was conducted by Mrs. Trupti Bansode, Analyst, CXM, Merkle. Design and Analysis of Algorithm is one of the prominent subjects for CSE students. Design and Analysis of Algorithm is very important for designing algorithm to solve different types of problems in the branch of computer science and information technology. It plays a vital role in the programming world. The expert emphasized on how analysis of any algorithm is to be calculated. She also extended the lecture on dynamic

programming; she explained examples of Bellman Ford algorithm, Floyd Warshall algorithm. She also explained all important points regarding algorithm visualization. All students were actively participated in the program and took suggestions from the expert.

## SITE VISITS OF CIVIL ENGINEERING STUDENTS



The department of civil engineering had organized the site visits to the SY and TY BTech students on the day 24<sup>th</sup> August 2023. The main purpose of arranging such site visits was that how the theoretical knowledge is actually applied to the field for construction. Prof. S. S. Adlinge communicated the brief knowledge about construction site to the students. This visit was so helpful to students for upgrading their knowledge about construction work.

## WORKSHOP ON GATE 2024



The Fabtech Technical Campus Organized the “Workshop On GATE 2024”. Prof. S.M.Mali (M.Tech, IIT Guwahati) from civil department conducted this workshop for Final Year and Third Year BTech students. He gave brief information about GATE 2024 i.e., who is conducting this exam, how to fill the form, what is the qualification required to fill the form, what is the syllabus of exam, how much is the fees, difficulty level of the examination, what are the advantages of qualifying GATE etc. This workshop was very important for students about GATE preparation.

## INDUSTRIAL VISIT



The industrial visit of First Year Engineering students commenced with a visit to Fabtech Textiles, on 11th Aug. 2023 located at Ekatpur, Sangola. Students were given an overview of the textile park and its facilities. They gained insights into the various stages of textile production, including spinning, weaving, dyeing, and finishing. Students had the opportunity to interact with industry experts like Project Manager, HR Manager, who shared their experiences and provided valuable insights into the textile industry. The experts addressed queries related to textile industry,

textile park establishment, objectives of the park, company affiliations, market opportunities & challenges and market trends.

## FIRST YEAR WELCOME FUNCTION

First Year Welcome function for the Academic Year 2023-2024 was held in FTC, COER, Sangola, on 12<sup>th</sup> September 2023 at 10.00 am at college seminar hall. The Guest of Honour for the function were Mr. Babasaheb Shinde and Mr. Nadaf J. Nabisaheb. The guests were felicitated by Hon. Dr.Sanjay Adate , Campus Director and Hon. Principal Dr. Ravindra Shendage. Hon. Guests of Honour in their speech highlighted that the students must know their age of responsibility and their values in building life and nation. Hon. Dr.Sanjay



Adate sir in his address said that students don't have any option for hard work. They must work hard to succeed in their life. Principal Dr. Ravindra Shendage has presided over the function. In his key note address, he elucidated the rules and regulations of the academic system of college to the students. The function had been organized under the guidance Hon. Chairman Dr. Bhausaheb Rupnar and all Hon. Trustee members. The HOD of First Year Engineering

Prof. Rahul Patil proposed the vote of thanks of the function.

### **ANTI-RAGGING GUIDANCE SESSION**



Anti-Ragging programme was organized for the First Year Engineering students on 13th Sep.2023. Prof. Sanjay Pawar guided the students about rules and regulations of ragging crime and its punishments. He said that ragging is a Social Crime. As per above referred AICTE "Regulations", ragging is strictly prohibited in the college campus as well as outside the college campus. He further said that the fresher students can contact any

of the Committee Member or the Principal at any time, if anybody tries to do ragging with them. The Fresher student should desist from doing anything against their will even if ordered by the seniors. They should immediately contact the Office or any of the Anti-Ragging Committee Member and report the incident immediately. The college will take stringent action against the senior student involved in ragging .The freshers should not fear of any action and should not tolerate any kind of atrocities of senior students. Hon. Principal Dr. Ravindra Shendage was also present for the session.

### **TEACHERS DAY CELEBRATION ON DATE 5 SEPTEMBER 2023**

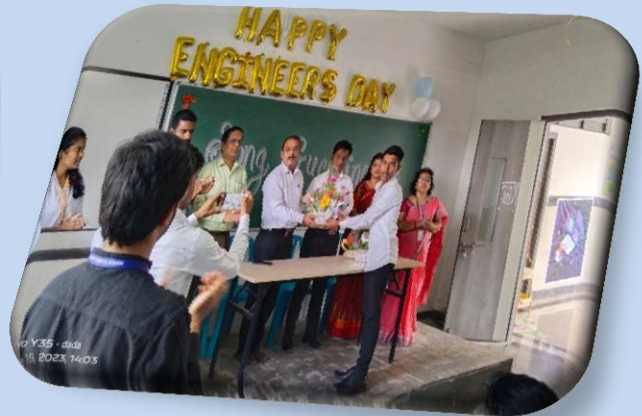


Department of mechanical engineering and AIDS department was celebrated teachers day. Every year on October 5, we celebrate World Teachers Day. Also referred to as International Teachers Day, its focus is on recognizing and enhancing the work of educators worldwide by addressing and resolving problems that arise in the course of their work.

## ENGINEERS DAY CELEBRATION



Celebration of Engineers Day in Mechanical Engineering Department



Celebration of Engineers Day in AIDS Engineering Department

Engineers Day was celebrated in Fabtech College of Engineering and Research on 15<sup>th</sup> September 2023 with great enthusiasm. It is a day to celebrate the achievements of engineers and their contributions to the society. It is celebrated on September 15<sup>th</sup> each year in India to commemorate the Birth of M. Visvesvaraya, a renowned engineer and statesman considered the "Father of Modern India". A Technical Events conducted in AI & DS department was Blind C for all students. Another technical event conducted by department of mechanical engineering was "Poster Presentation" for all students. It gives a platform to represent their innovative technical ideas related to engineering field.

## STUDENT ACHIEVEMENT

### MECHANICAL ENGINEERING STUDENTS BAGGED FIRST PRIZE IN SOMESHWAR TECHNOTHON 2K23

- ❖ The "Someshwar Technothon 2K23" a state-level project competition was held in Someshwarnagar on 22<sup>nd</sup> July 2023. Two project groups from the FTC, COER, Sangola were participated in the event. One project from the Mechanical engineering department titled "Solar powered Multipurpose agricultural Machine" guided by Dr. S. V. Jadhav participated and won first prize in the competition.





❖ This project also won first prize in the “Samruddha Maharashtra Mega exhibition” a National Level Project Exhibition was held in Sangola from 23rd August 2023 to 25th August 2023. In this project, a multi-purpose agricultural machine was designed and fabricated by the project group which was capable of serving multiple purposes like spraying insecticides, Grass cutting, spraying fertilizers, Sawing seeds, etc.

**MR. YUVRAJ RAJENDRA PATIL GOT FIRST RANK IN SPEECH COMPETITION**



The 96th birth anniversary of Dr. Ganapatraoji Deshmukh was celebrated on ‘Labours Day’ 10th August 2023. On this occasion speech competition was organized. In this competition student of Fabtech College of Engineering Mr. Yuvraj Rajendra Patil got first rank. He delivered speech on Today’s Youth and Farming. He told why youth should choose agriculture. When it comes to fighting poverty, agriculture is more effective than other sectors. Agriculture is up to four times more effective than other sectors in reducing poverty. Young people need to see live examples of other youth who made it in agriculture before they can believe what they can do.

**BRILLIANT SUCCESS OF STUDENTS AT FABTECH TECHNICAL CAMPUS**



A national level exhibition was organized at Ramakrishna Garden Villa, Mangalvedha Road, Sangola from 23 August 2023 to 25 August 2025. Six project groups from Fabtech Technical Campus College of Engineering and Research participated in the event. Computer Engineering Department student Sutar Digvijay won third prize in the event. His project was "Cap for Blind People” A cap is a device used by people who are blind or visually impaired. A cap primarily allows its user to scan their surroundings for obstacles or orientation marks, but is also helpful for onlookers in identifying the user as blind or visually impaired and taking appropriate care.

# FACULTY SECTION

## INTERACTION WITH OUTSIDE WORLD

### Dr. S. B. Thigale Conducted online workshop on “Design Thinking and Innovation”



Dr. S. B. Thigale conducted online workshop on ‘Design Thinking and Innovation’ for third year and final year students of SMSMP COE, Akulj. He explained students about what is design thinking, what are the 4 D's of design. Design thinking is an iterative, non-linear process which focuses on a collaboration between designers and users. Dr. Thigale explained why design thinking and innovation is important. Innovation is important in design thinking because it allows designers to create solutions that are both practical and effective. Innovation in design thinking can take many forms. It can involve using new materials or technologies, rethinking traditional design practices, or finding new ways to solve problems.

### Mrs.Ujwala Vijay Bhagat Sortlisted for Funding Under DBATU



1. Mrs.Ujwala Vijay Bhagat sortlisted for funding under DBATU-VC-RPG-2023 on 30/3/2023. The title of Project is Mimo Antenna Using 5g Devices Under 5g/6g networking. The fund sanctioned for this project is 3 Lacks. It is pleasure, to place on record that in the first attempt to cultivate a quality research culture in DBATU.

2. She also presented a paper on “MIMO ANTENNA using 5 G devices IN 5G/6G Networking: Journal & book publication Digital India published a progress towards sustainable development goals by IIT Tiruchirapalli in 2023.

### Dr. S. B. Thigale nominated as a Member for IEI Solapur Local Centre, Solapur.



Dr. S. B. Thigale (Head -Associate Professor) nominated as a Member for IEI Sholapur Local centre, Sholapur. IEI Solapur Local Centre is established on 22nd August 2010 with 646 corporate members & 1683 Non corporate attached to it. Total 9 Student Chapters are working under IEI-SLC at Engineering & Polytechnic Colleges. Technician & Sr. Technicians are guided for form submission attestation & support. Members, students

can avail study material & library facility at local centre

## BOOKS/PUBLICATIONS/PATENTS/CERTIFICATION

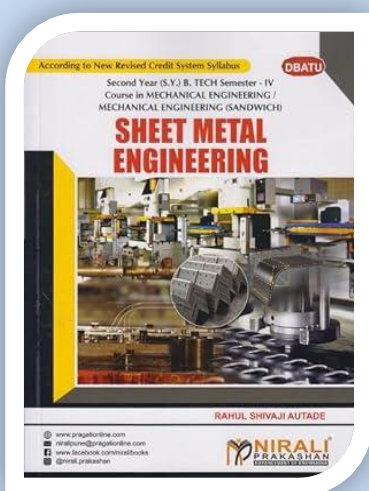
### Prof. G. G. Kale & Dr. S.B Thigale have published a book in LAMBERT Publication on “An Optimal Multilevel Thresholding Based for Color Image Segmentation”



Prof. G. G. Kale & Dr. S.B Thigale have published a book in LAMBERT Publication on 16th August 2023. The title of the book is "An Optimal Multilevel Thresholding Based for Color Image Segmentation". In this book, it is proposed a practical and self-interpretable invasive cancer diagnosis solution. With minimum annotation information, the proposed method mines contrast patterns between normal and malignant images in unsupervised manner and generates a probability map of abnormalities to verify its reasoning. Particularly, a fully convolution auto encoder is used to learn the dominant structural patterns among normal image patches. Patches that

do not share the characteristics of this normal population are detected and analyzed by one-class support vector machine and 1-layer neural network. Here apply the proposed method to a public breast cancer image set. Results, in consultation with a senior pathologist, demonstrate that the proposed method outperforms existing methods. The obtained probability map could benefit the pathology practice by providing visualized verification data and potentially leads to a better understanding of data-driven diagnosis solutions.

### Prof. Autade R. S. has published book in NIRALI publication on “Sheet Metal Engineering”



Prof. Autade R. S., a distinguished expert in the field of Mechanical Engineering, has recently published a remarkable book titled "Sheet Metal Engineering" through NIRALI publication in January 2023. This publication marks a significant addition to the realm of engineering literature, specifically tailored to benefit students at DBATU University who are pursuing their SY B-TECH Sem II studies. "Sheet Metal Engineering" is more than just a book; it's a comprehensive guide that has been meticulously designed to cover every facet of Sheet Metal Engineering as outlined in the DBATU syllabus. Prof. Autade R. S. has poured his expertise into this book, making it an invaluable tool for students aiming to excel in this field.

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FABTECH EDUCATION SOCIETY, PUNE  
**FABTECH TECHNICAL CAMPUS**  
Engineering | Polytechnic | Pharmacy | PG-DMLT | School & Jr. College

## Government Sector Selection 2022-23

 <b>Miss. Mrunmayi N. Raut</b> Electrical Engineering Assistant Engineer, Public Work Department (PWD)	 <b>Mr. Dnyaneshwar A. Chaugule</b> Electrical Engineering Assistant Engineer, MAHATRANSCO	 <b>Mr. Jivan R. Khandekar</b> Mechanical Engineering Police Sub - Inspector
 <b>Miss. Madhuri M. Bhosale</b> Electrical Engineering Junior Engineer, Indian Railway	 <b>Mr. Sitaram V. Yedage</b> Electrical Engineering Assistant Engineer, MAHATRANSCO	 <b>Miss. Kiran M. Mohite</b> Electronics & Tele. Engineering Sales Tax Inspector
 <b>Mr. Tushar V. Ghadage</b> Civil Engineering Junior Engineer Public Work Department (PWD)	 <b>Miss. Ankita S. Gaikwad</b> Civil Engineering Junior Engineer, Water Resource Department (WRD)	 <b>Miss. Supriya B. Shinde</b> Electronics & Tele. Engineering Government Labour Officer Maharashtra State

### Meet the Editors



**PATRON:-**

**Dr. Shendge R. B. – Principal**

**CO-PATRON:-**

**Dr. Vageesha S. Mathada  
Dean Academics**

**EDITOR IN CHIEF:-**

**Prof. Pawaskar P. P.  
(Mechanical Department)**

**MEMBER:-**

**Prof. Patil D. S. (ENTC)  
Prof. Ujanikar P. P. (ELECT.)  
Prof. Ingawale R. V.(CSE)  
Prof. Bhagat U. A.(AIDS)  
Prof. Jadhav S. A. (CIVIL)  
Prof. Padwale S. G. (FY Enaa.)**

### Placed students in QSpider(2024 Passout Batch)

