

Workshop on LaTeX



Department of Computer Science & Engineering organized “Workshop on LaTeX” on 3th January 2023. Prof. Namdev Sawant started the session with LaTeX is a document preparation system for high-quality typesetting. 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, LaTeX encourages authors not to worry too much about the appearance of their documents but to concentrate on getting the right content.

Guest Lecture on “Discrete Mathematics”



Department of Computer Science & Engineering organized “Guest Lecture on “Discrete Mathematics”” on 16th 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. In 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 **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 was 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? Number representation, floating point representation, floating point arithmetic. Sir had 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.

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 was 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. Madam had also explained all important points regarding algorithm visualization.

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 May 23 and 24, 2023, from 9 am to 5 pm. Under the guidance of Hon. Management, Hon. Campus Director, and Respected Principal Sir. 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.

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. In this occasion speech competition organized by organization. In this competition student of Fabtech College of Engineering Mr. Yuvraj Rajendra Patil got first rank. He given speech on Today's Youth and Farming. He told Why should youth 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 2023. 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 is "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.

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



Gojanan Kale
Somnath Thigale
**An Optimal Multilevel
Thresholding Based for
Color Image Segmentation**



prof. G. G. kale & Dr. S.B Thigule has 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, propose 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.

Dr. S. B. Thigale nominated as a Member for IEI Sholapur Local centre, Sholapur.



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

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 TY and Final year Students of SMSMP COE, Aakluj. Sir had 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. Sir had explain Why is design thinking and innovation 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.

One Day Technical Event “TECNOFAB 2K23”



State level competition “TechnoFab2K23” was organized on 21st April 2023 in Department of Computer Science & Engineering. The chief guest of the competition Dr. Babasaheb Ambedkar University of Technology Lonere Solapur Divisional Special Executive Officer Hon. Dr. R. P. Kate. Dr. Somnath Thigale, Head of the Department of Computer Science, expressed his opinion, TechnoFab 2K 23 aims to enable students to share their ideas, showcase their

work and explore emerging technologies in various fields. Chief guest Dr. R. P. Kate Guidance to students at this time, The present time is the time of technology. With new technology developing, we must always strive to increase our knowledge. So students should concentrate on their studies without wasting their time. Acquire technical skills. Also, true education should be generated through social dialogue, always read good books, dream big. He said this while guiding the students. More than 1311 students from around 17 colleges of the state participated in this program. 245 from Computer Department Students participated. More than 85 students participated in each competition and enjoyed the competition. The students who came to see the exhibition were very enthusiastic and motivated.