SARASWATI Education Society's
SARASWATI Institute of Technology
Kharghar, Navi Mumbai - 410210

NEWSLETTER 2023-2024

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Maharashtra State Board
Of Technical Education

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Saraswati Institute Of Technology

ABOUT OUR COLLEGE

The burning desire of the Saraswati Institute of Technology is to produce tomorrow's competitive techno survey greenhorns to meet the challenges ahead of today's society. It is our goal to explore an individual's talent and sharpen the technical skills to compete with his own unknown incomparable abilities to shine the realities of the future. Saraswati Institute of Technology is approved by the All India Council for Technical Education (AICTE) and the Directorate of Technical Education (DTE); recognized by the Government of Maharashtra and affiliated with the Maharashtra State Board of Technical Education (MSBTE).

With our education system that matches global standards, we endeavor to give a rewarding and fulfilling experience to our students. The best education leads to the all-around development of an individual. We also stress on the importance of extracurricular activities and conduct various sports and cultural events throughout the year. Comprehensive development is achieved with a strong emotional quotient and personal grooming. The excellence our students imbibe is reflected in their personal and professional lives. The most important feature of the Saraswati Education Society and Re Vera Institute of Technology, which is quite different from other such organizations, is that it is based on the collective effort made by every individual, working with a spirit of teamwork. Long-term planning, meaningful administration, a dedicated and experienced workforce, a full-fledged library, and well-equipped laboratories are a few of our strong points which are worth mentioning.

Saraswati Education Society lays special emphasis on providing the best possible infrastructure for learning on all its campuses.

All the existing and upcoming institutions of the Society are provided with spacious buildings to accommodate reception, office, classrooms, staff rooms, drawing halls, laboratories, workshop, library, computer center, auditorium, conference halls, examination hall, a recreation center for staff and students, sports rooms, canteen, and placement cell. All the buildings have sports rooms, canteen, and placement cell. All the buildings have been elaborately furnished and fitted with the necessary fixtures. There is a 24-hour backup in case of power failure so that the teaching and practical work are not hampered.

EDITORIAL COMMITTEE

Editor in Chief :
- Dr. D. R. Suroshe (Principal)

Co - Editor :
- Mrs. Kirti Tamboli

Student Editor :
- Ms. Gaurangi Madankar

Student Representative :
- Mr. Ameya Shirke(Automobile)
- Mr.Sujal kande (Mechanical)
- Mr.Nihal Mishra (IT)
- Mr.Sikandar Ram Adheen(Civil)
- Mr. Vivan Ahire(Computer)

Consulting Editorial :
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- Mr. Jaslok Pandey
- Mr. Arjun Kadam
- Mr. Dattatray Bangar
- Mrs. Yogita Wasu
- Mrs. Smita Kuldiwar
- Mrs. Najnin Daryavardi
- Mr. Rahul Gondhali

As part of the editorial team, we welcome all suggestion, articles and news regarding engineering academic field or accomplishments of your classmates. Kindly send your suggestions, queries at kirti.tamboli_siot@sce.edu.in

PRINCIPAL'S DESK

Dear readers, Welcome to the world of Saraswati Institute of Technology's Newsletter 2024, where education means the all-around development of the Student. This is an institute that has a mission to make each student achieve their best. We at Saraswati Institute of Technology strive to respect the unique individuality of each student and give the students the right kind of help. We believe that a student will be successful in life if we accept them as they are and inspire them to become what they want to become. They want to be liked, appreciated, and to be respected for their individuality. We give a lot of Importance to making discipline a core value and encourage students to develop a sense of responsibility through a well-planned academic schedule, and the institute has a well- planned curriculum so that co-curricular activities also are given due

DR. DIGAMBAR R. SUROSHE

importance. Finally, I want to assure you that the Management and our team of experienced teachers are doing their best to give your student the required edge to make his/her mark in this global world.

VISION

To be a globally renowned center of academic excellence and innovation, nurturing future-ready engineers with an entrepreneurial spirit, ethical values, and a commitment to social impact.

MISSION

To provide technical expertise to fulfil the needs of industry.
To impact ethical values and professional responsibilities.
To achieve excellence in academics.

CAREER OPPORTUNITIES IN
BUILDING INFORMATION MODELING

Advanced construction techniques are innovative methods and technologies used in the construction industry that are more efficient, sustainable, and safer than traditional construction methods. Examples include 3D printing, Building Information Modeling (BIM), drones, and prefabrication. BIM is most effective tool used in civil engineering Era. Building Information Modeling (BIM)* Building information modeling is a process involving the generation and management of digital representations of the physical and functional characteristics of places. BIM is supported by various tools, technologies and contracts. The term 'Building Information Model' first appeared in a 1992 paper by G.A. van Nederveen and F. P. Tolman. However, the terms 'Building Information Model' and 'Building Information Modeling' (including the acronym "BIM") did not become popularly used until some 10 years later. BIM having four levels. BIM Level 0 – Low collaboration. This level of Building Information Modeling only includes 2D drawings using CAD (Computer Aided Design). BIM Level 1 – Partial collaboration. BIM Level 2 – Full collaboration. BIM Level 3 – Full Integration. BIM Level 4 – To go further. Lifecycle BIM is the practice of creating, maintaining and utilizing building information to manage operations and maintenance of buildings throughout their operational lifecycles. Facility managers are finding value in a number of areas of building operations that benefit from enhanced data. Is good job opportunity in BIM domain.

By Najnin Sayyed
Lecturer in CIVIL Department

ARTIFICIAL INTELLIGENCE (AI)

The ability of a digital computer or computer-controlled robot to perform tasks commonly associated with intelligent beings. The term is frequently applied to the project of developing systems endowed with the intellectual processes characteristic of humans, such as the ability to reason, discover meaning, generalize, or learn from past experience. Since the development of the digital computer in the 1940s, it has been demonstrated that computers can be programmed to carry out very complex tasks—such as discovering proofs for mathematical theorems or playing chess —with great proficiency. Still, despite continuing advances in computer processing speed and memory capacity, there are as yet no programs that can match full human flexibility over wider domains or in tasks requiring much everyday knowledge. On the other hand, some programs have attained the performance levels of human experts and professionals in performing certain specific tasks, so that artificial intelligence in this limited sense is found in applications as diverse as medical diagnosis , computer search engines , voice or handwriting recognition, and chatbots.

By Mrs.Samika Patil
Lecturer in IT Department

MOBILE APPLICATION DEVELOPMENT

What is mobile application development? Mobile application development is the set of processes and procedures involved in writing software for small, wireless computing devices, such as smartphones and other hand-held devices. Like web application development, mobile application development has its roots in more traditional software development. One critical difference, however, is that mobile apps are often written specifically to take advantage of the unique features of a particular mobile device. For example, a gaming app might be written to take advantage of the iPhone's accelerometer or a mobile health app might be written to take advantage of a smartwatch's temperature sensor. Before developing an app, you need to determine which type you'll be creating. Here's a breakdown of several types of mobile app development technologies with information about each. Native applications. These applications are built using integrated development environments (IDEs) and languages for mobile OSes such as Apple iOS or Google Android. Native apps enable you to customize necessary features, but they can be more costly than other technologies. Hybrid apps. These are web apps that act like native apps. They are developed using technologies such as HTML, JavaScript and Cascading Style Sheets (CSS). Hybrid apps are more cost-effective to develop than native apps and can be created faster, but they aren't as feature-rich as native applications. Progressive web apps.

By Mrs. Deepali Patil
Lecturer in IT Department

STUDENT OPENION

WATER TREATMENT PLANT

Water Treatment is any process that improves the quality of water to make it appropriate for a specific end-use. The end use may be drinking , industrial water supply, irrigation, river flow maintenance, water recreation or many other uses, including being safely returned to the environment. Water treatment removes contaminants and undesirable components or reduces their concentration so that the water becomes fit for its desired end-use. This treatment is crucial to human health and allows humans to benefit from both drinking and irrigation use.

By Sikandar Ramadheen Vishwakarma [CIVIL]

REPAIR AND MAINTENANCE

Repair and maintenance are used hand-in-hand, but they refer to different things in the asset management space. Repairs are restoration work for when an asset breaks, gets damaged or stops working. Maintenance refers to routine activities and corrective or preventive repair done on assets to prevent damage and prolong the life expectancy.

By Shobhit Sahu [CIVIL]

STAYING SAFE IN THE DIGITAL WORLD

We live in a digital world and we are fully surrounded by gadgets, smartphones and devices, and they make our lives easier and make our tasks easier, but with technology is also being used to cause harm to human beings and promote illegal activities and make target audience which can be fooled easily in the name of technology. There are many such activities which are happening in the digital era and it's our responsibility to make sure that we are up to date from the things happening around us, and know some basic things to be safe in the digital era from malicious actors, also known as Cyber Criminals. Keeping yourself updated and not clicking on unknown links, and falling into phishing attacks. Keeping your device software up to date to patch vulnerabilities(issues) in the previous version of software Keeping auto update on in Play Store and App Store and also Windows Update. Using A minimum of 10 Digit multi format password for Ex --> { Ch33SeB$urg@2 } Using Multifactor authentication to avoid unauthorized logins Don't use auto save password whenever possible try to use VPN when using payment gateways and prevent from using outdated software whose service the organization has stopped for Ex --> [Windows 7 and earlier]

By Naman Yadav [IT]

HOW TECHNOLOGY HAS CHANGED COMMUNICATION

Over the past few decades, technology has revolutionized the way we communicate, reshaping the dynamics of interpersonal connections and societal interactions. The advent of the internet, mobile phones, and social media platforms has ushered in an era where communication is faster, more accessible, and globally interconnected. One of the most significant transformations is the instant exchange of information. Email, messaging apps, and social media enable real-time communication, transcending geographic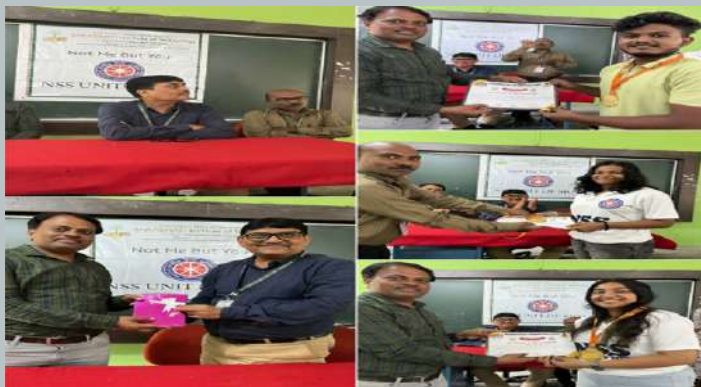al barriers. Video conferencing tools have made face-to-face conversations possible regardless of physical distances, fostering collaboration on a global scale. Social media platforms have given individuals a voice on a massive scale, allowing them to share thoughts, ideas, and experiences with a vast audience. This has both democratized information dissemination and created new challenges related to misinformation and privacy. Moreover, technology has diversified communication channels. Multimedia elements such as images, videos, and emojis enhance expression and convey emotions, adding depth to digital conversations. However, this shift also poses challenges, such as the potential for miscommunication or the loss of nuanced, in-person interactions.

By Gaurangi Madankar [CO]

SOCIAL ACTIVITIES

SWACHATA ABHIYAN

Saraswati Institute of Technology Kharghar was organized Swachata Abhiyan on dated 01/10/2023 at Taloja Jail, Kharghar Navi Mumbai program was inaugurated by the principal D. R .Suroshe .The program convener Samadhan Landge (NSS Co-ordinator) gave the brief about the need of the Swachata Abhiyan in human beings life. The principal sir explained aim of swachta Abhiyan and motivated students and Staffs principal sir also gave a message "Cleanness is the best weapen to change the Climate ".In this program one hundred of staff andstudents were participated and they had taken the oth of cleanness.Shivam Patil, Komal Jadhav,Omkar choudhary, Yogita Wasu, Vrushali Patil, Datta bangar ,   Prakash Gorve , Vikas Yadav ,Vishal Yadav , Pradeep Mukadam were also presented for the program . The program was a really good and it was truly a day to remember Prakash Gorve , Vikas Yadav ,Vishal Yadav , Pradeep Mukadam were also presented for the program . The program was a really good and it was truly a day to remember.

NSS DAY

Saraswati Institute Of Technology, Kharghar was celebrated NSS day on24/09/2023. . The Chief guests for the event was Mr. Hanmant Patne , Assistant Prof.Father Agnel college Vashi. The whole event was conducted in offline mode. Event started with introduction of our chief guests and then Patne sir guided us. He ellaborated all the duties and responsiblities of NSS volunteer and importance of NSS day. He explained us that NSS volunteers are those who understand the community in which they work, who understand themselves in relation to their community, who identify the needs and problems of the community and involve them in problem solving process and develop among themselves a sense of social and civic responsibility. His words were just a great motivation for all. All volunteers were inspired to work effectively and efficiently by his guidance. About 40 students wittnessed this celebration. And whole event was successfully conducted under the guidance of NSS Co-ordinator Samadhan Landge .

INSTITUTE ACTIVITIES

Faculty Development Programme (Under MSBTE)

One Week Faculty Development Programme was organized by Saraswati Institute Of Technology, Kharghar in our Institute From 3 rd July to 8 th July, 2023.The Programme was organized to educate the faculty for our institute and other college faculty also. Faculty from other colleges have also participated in this FDP. The topic was National Education Policy for "Effectiveness in Faculty Empowerment". The Programme was inaugurated on 3rd July 2023 by Hon', Dr.D.R.Suroshe ,Principal SIOT, Chief guest and Speaker of the Day, Prof. Suryakant Nawle Sir ,Principal Of MITM, Sindhudurg along with all the departmental Teaching staff, supporting staff and other college participants. The programme was coordinated by All Departmental HOD of Saraswati Institute of Technology, Kharghar. The program was appreciated by All the Participants and they will be able to understand Multidisciplinary and Holistic Education, effect of NEP on Youth Empowerment and sports development.

"CHANDRAYAAN-III MAHOTSAV 2023"
ON OCCASION OF ENGINEER'S DAY

Title: Technical Competition arranged on theme (Chandrayaan-III)
Date: 15 september 2023
Time: 03:00 pm to 4.00 pm
Above Competition was conducted on 15 September 2023 from 03.00pm to 4.00pm on occasion of engineers day for students of Computer, Mechanical ,Civil, Information technology and Automobile department for first, second and third year students. Rules and regulations are given to all students before competition. All competitions are either handmade or Digital. Judges were invited from the Saraswati institute of technology from respective departments. The Model, Poster and Logo were judged and winners from all students were declared. We are thankful to our principal sir for giving permission for this event.

CIVIL ENGINEERING DEPARTMENT

INDUSTRIAL VISIT

Title: Industrial visit At Water treatment plant
Date: 4th October, 2023
Time: 10:30 am to 3:00 pm
Venue: Water treatment plant, Bhandup complex
Participants: Third Year Students.

BUILDING CONSTRUCTION

Title: Building Construction
Date: 2nd September, 2023
Time: 11:00 am to 03:00 pm
Venue: Elysiam Pvt.Ltd. Plot no.92,Kharghar
Subject Incharge: Mrs. Najnin Daryavardi
Participants: Second Year Civil students

Title: Advance Total Station & DGPS One Day Workshop
Date: 20 Oct 2023
Time: 10:00 am to 4.30 pm
Venue: Saraswati Institute of Technology
Subject Expert: Lawrence & Mayo
Participants: Second Year Students

WORKSHOP

INFORMATION TECHNOLOGY
ENGINEERING DEPARTMENT

WORKSHOP-AUGMENTED REALITY, VIRTUAL REALITY AND METAVERSE

Date: 9/10/2023 to 11/10/2023
Venue: Saraswati Institute of Technology
Subject: Workshop ARVR
Participants: SY IF Students

The Department of Information Technology recently organized a three-day workshop on Augmented Reality, Virtual Reality and Metaverse from 9/10/2023 to 11/10/2023. The workshop was specifically designed for second-year students under the guidance of Mr. Rahul Gupta, head of Institute of Futuristic Technologies. The objective of this workshop was to provide expert guidance to the students in the field of Information Technology Engineering. During the workshop, the students had the opportunity to interact with Mr. Rahul Gupta, who shared his vast knowledge and experience in the field of ARVR. The students actively participated and engaged in discussions, gaining valuable insights from the sessions.

EXPERT LECTURE

Title: File Handling
Date: 1/11/2023
Venue: Saraswati Institute of Technology
Subject:Object Oriented Programming using C++
Participants: SY IF Students

The Department of Information Technology recently organized an expert lecture of Mr. Vinod Rathod on 1/11/2023 at 1.00 pm. The lecture was arranged for 2nd year students. The objective of this lecture was to provide expert guidance and knowledge to the students in the field of programming. During the lecture, the students had the opportunity to interact with Mr.Vinod Rathod, who shared his vast knowledge and experience in the field of C++ programming. The students actively participated and engaged in discussions, gaining valuable insights from the lecture. The chosen topic for the lecture received significant appreciation from the majority of the students, who expressed their satisfaction and requested similar lectures for other subjects in the future. The lecture benefitted a total of 70 students and 1 faculty member from the Department of Information Technology. Their enhanced understanding of C++ will undoubtedly contribute to their academic and professional growth.

INDUSTRIAL VISIT INDIAN INSTITUTE OF GEO MAGNETISM

Department of Mechanical and Automobile organized a one-day Industrial visit at 'Indian Institute of Geo Magnetism, Panvel' from entire department more than 33 students participated in the program. This visit is conducted to get knowledge and guidance to students about Geo Magnetism. This visit helps ME/AE Department students to enhance their collective theoretical and practical knowledge of Geo Magnetism. Student understood about detail scenario of Geo Magnetism which were covered in the subject. It was conducted by HOD Mr.Jaslok Pandey (Department of Mechanical),Mrs.Priyanka Gurav (Lecturer- MechanicalDepartment) and Mr. Vishal Sagwekar (Lecturer- Mechanical Department) were there. As per discussion with student, About Geo Magnetism Technology topic covered and was appreciated by most of the student and requested to arrange such kind of visit in the future too for other subjects

INDUSTRIAL VISIT ON AUTOMOTIVE MANUFACTURING PVT. LTD.

Date of Visit: 19 January 2024
Time: 11.00 am to 1.00 pm
Venue: Nerul, Mumbai.
Participants: Third year and Second Year Students (ME/AE Departments)

Department of Mechanical and Automobile Engineering organized a one-day Industrial visit at 'Automotive Manufacturing Pvt. Ltd. Nerul, Mumbai' from department more than 20 students participated in the program. This visit is conducted for the purpose of enrich the knowledge and clear the basic fundamental concept related to Heating, ventilation and air conditioning of automobile and clear the concept related to Heat transfer. This visit helps ME/AE Department students to enhance their collective theoretical and practical knowledge of Heating, ventilation and air conditioning system. It was conducted by Automobile HOD Mr. Abhijit Kamthe, Mrs.Pushpa Patil (Lecturer-Mechanical Department).

ROBOTICS

Computer department organized a guest lecture on topic "ROBOTICS" on 19th January 2024 for 3rd year Computer Department students. The main motivation behind this workshop to guide the students about future scope of the subject. Computer Department's technical coordinator Mrs. Kirti Tamboli took efforts to organize this lecture under the guidance of HOD Mrs. Smita Kuldiwar. Speaker of lecture Mr. Salmon Joy has share his knowledge to student. Lecture begun at 10.00 am in Room no 211. The Technical coordinator welcomed the Guest, HOD, and students who attended the lecture. Mr. Salmon Joy explained briefly about importance of the Robotics to the students and it's applications. Then in depth he covered the scope related to career. He interacted with students after the lecture to clear there queries related to the topic.
Even gave the detailed idea on future scope. The Lecture was very effectively conducted by Mr. Salmon Joy.

INDUSTRIAL VISIT "IIG"

On 27 th Septemmber2023, Computer department organized a Industrial visit for 2 nd year Computer department students. The location of industrial visit is in new panvel. Collage has provided bus facility to students and staff member to reach at new panvel. At 1.00pm all students have reached to location. Initially there was a presentation of overall introduction of IIG for the students. Mrs. Bharti Kakad has given explanation on Geomagnetism. They show their lab to all students. The main motivation behind this Industrial visit to guide the students about future scope of the subject. Computer Department's technical coordinator Mrs. Kirti Tamboli took efforts to organize this Industrial visit under the guidance of HOD Mrs. Smita Kuldiwar. Mrs. Bharti Kakad interacted with students after the lecture to clear there queries related to the topic. Even gave the detailed idea on future scope.

TOPPER'S LIST 2022-2023

FIRST YEAR TOPPERS

KIMAYA KAMBLE
(CO)
(90.59%)

SHRUTI MANE
(CE)
(72.82%)

SANSKAR
NAIKARE
(ME)
(72.47%)

SECOND YEAR TOPPERS

SHREYA AWARI
(CO)
(89.73%)

VIVEK YADAV
(CO)
(87.73%)

SANKALPA DATE
(IT)
(86.63%)

VAIBHAVI GUND
(IT)
(84%)

MITHILA MHATRE
(CE)
(77.33%)

THIRD YEAR TOPPERS

PRAJUAL PAWAR
(IT)
(91.77%)

MONISH PATIL
(CE)
(90.90%)

CHIRAG
CHAUDHARY
(CO)
(90.11%)

SHOBHIT SAHU
(CE)
(88.90%)

KHAN OBEDUR
(AE)
(83.16%)

PLACEMENTS

Tushar Gaikwad
From TYAE placed in Digit
Insurance
Package 3.5lakh

Amey Shirke
From TYAE placed in Digit
Insurance
Package 3.5lakh

Adesh Jadhav
From TYAE placed in Digit
Insurance
Package 3.5lakh