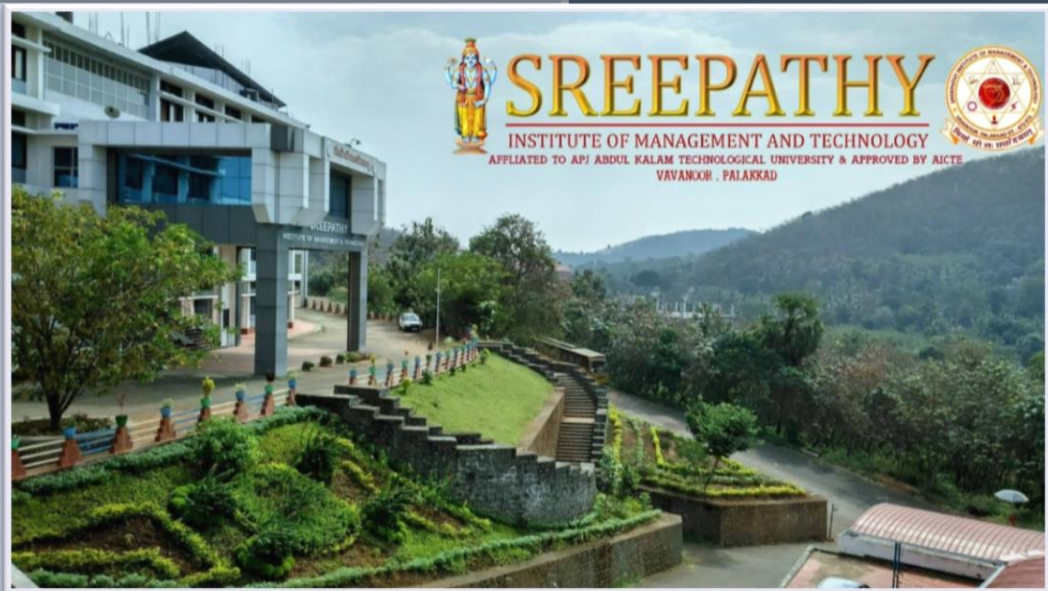


SREEPATHY

MONTHLY NEWS LETTER



ISSUE NO: 05

MAY 2022

“SCISCO” – ONE-DAY WORKSHOP FOR RESEARCH ASPIRANTS

A One-day workshop for research aspirants has been conducted on 9th May 2022, at Sreepathy Institute of Management and Technology. The event was started with a prayer song by Mr. Sreedath M. K, AP/ME. Dr Sagar M. Narayanan, HOD/AS&H welcomed all to this program. Dr S. P. Subramanian, Principal inaugurated the function. In his speech he emphasized the role of technology and research in real life. Dr Ramkumar P. N., HOD/ME gave vote of thanks to the



participants. The event was conducted in hybrid mode with 38 participants, where 28 participants were in offline mode and 10 participants in online mode.

First session was on “Research fundamentals-formulation of research problems” by Dr K.B. Maheswaran Namboodiripad, Former professor of NIT Calicut. In this session, he discussed about how we can formulate a technical problem and also discussed some physical problems and their technical formulation. The second session was on the topic “Tips for doing literature



survey and selecting suitable journal” by Dr Mubarak M, Associate Professor of MEA Engineering College Perinthalmanna. He talked about some tips for selecting suitable journal based on their impact factor scope and policies etc. and in the second half he discussed on some tips for writing a review paper.

Afternoon session was on “Research proposals and funding opportunities” by Dr. K. T. Madhavan, Retired Scientist, National Aerospace Laboratories Bangalore. In his talk he started with the importance of research and development. He also discussed about the benefits of

research projects and funding through grants. The next session was on “How to write a good quality research/review article, indexing of journals, tips for writing editor/reviewer response” taken by Dr. Mubarak M, Associate Professor of MEA Engineering College Perinthalmanna. He talked about general tips for publishing a research paper and the important points to be considered before publishing a paper.

After this session the certificates were distributed and feedback was collected. The event was came to end with the vote of thanks by Mr. Syam Prasad G, AP-ME.



SUSTAINABLE MANUFACTURING IN INDUSTRY 4.0

Dr Ramkumar P N had delivered an invited talk on the topic “Sustainable manufacturing in Industry 4.0” in the Second Virtual International Conference on Advanced Technologies and Research in Mechanical Engineering during 24th to 26th May 2022 organized by the Department of Mechanical Engineering, MEA Engineering College, Malappuram, Kerala, India.



The industrialization has been a major contributor to pollution and environmental challenges throughout history, culminating in an unsustainable production paradigm. Today's society recognises that a new economic model of production and consumption must consider its environmental and social impacts.

Stakeholders pressurize industries to be more transparent in reporting their environmental and social implications. Industry 4.0, or the Fourth Industrial Revolution, intends to create a

manufacturing system that is both viable and sustainable. The objective of the session is to summarize the connections between Industry 4.0 and Sustainable Manufacturing.

BARRIERS TO IMPLEMENTATION OF INDUSTRY 4.0 IN THE DEVELOPING COUNTRIES

Dr Ramkumar P N, Dr Sagar M Narayanan, Mr. Sarath Sankar K S, Mr. Sarath S, Mr. Syam Prasad G had presented and published the paper titled "Barriers to Implementation of Industry 4.0 in the Developing Countries" in the Second Virtual International Conference on Advanced Technologies and Research in Mechanical Engineering from 24th to 26th May 2022 organized by the Department of Mechanical Engineering, MEA Engineering College, Malappuram, Kerala, India.

Technological advancements in the industrial processes sped up the industrial revolutions and the fourth industrial revolution i.e., Industry 4.0 (I4) had been originated in the year 2011. The first industrial revolution was focused on the mechanisation of equipment, while the second industrial revolution was focused on achieving mass production with the help of electrical-based systems. The third industrial revolution brought partial automation through the improvements in electronics and communication whereas the fourth industrial revolution helped the industries to become autonomous (i.e., working with least manual interferences) with the support of data science, artificial intelligence and internet technologies. I4 helps in gaining sustainable development and competitive advantage for all the industrial enterprises globally. This study identifies that the industries are adopting I4 concepts at a slower rate in developing countries like India when compared with the developed countries. Especially, implementation of I4 in micro small and medium (MSME) sector industries takes place at a much slower rate. The reasons identified were the lack of awareness of I4 and its' benefits, fear of capital investment requirements, non-availability of technology/ advanced systems, non-availability of skilled employees/ consultants, and lack of support from the stakeholders. The study emphasizes that the government and/ or the industrial consortiums should make aware the industrialists regarding I4 concepts, especially in a region with ascending demographic development, which will bring the successful and sustainable future development towards the 4th industrial revolution.

DESIGN MODIFICATION OF HANDMADE PAPER MAKING MACHINE FOR IMPROVING PRODUCTIVITY

Dr Ramkumar P N, Mr. Crecentine J K, Mr. Sreedath M K, Mr. Vinay Krishnan U, Mr. Krishnan K N had presented and published the paper titled "Design Modification of Handmade paper Making Machine for Improving Productivity" in the Second Virtual International Conference on Advanced Technologies and Research in Mechanical Engineering from 24th to 26th May 2022 organized by the Department of Mechanical Engineering, MEA Engineering College, Malappuram, Kerala, India.

Growth in population, better literacy, the need for communication and documentation, evergreen acceptability of print media and requirements for artistic works increase global paper usage continuously. Handmade paper (HMP) is a high-quality paper which is produced through the manual processes with least use of mechanical aids typically by an individual. As a result of industrial revolutions, the manual processes had been converted into mechanised processes with the help of handmade paper making (VAT) machines. The use of VAT machine reduced the effort of workmen compared to the conventional manual processes. HMP is made generally with recycled materials like cotton waste and plant fibres such as lemongrass, corn husk, mulberry, banana etc. Hence the HMP is entirely wood-free which ensures its' environment friendliness. Each and every papermaker finds their own way to produce the handmade paper and every papermaker believes that their method is the best. This study investigates the productivity of papermaking by the VAT machine in an Indian HMP industry. The data were collected through direct observations, interviews with the employees and sampling. The study identified that the productivity was low than the standard values. Further investigations were carried out to find out the reasons for lower productivity. The major reason identified was the difficulty in operating the VAT machine. The effort to be taken by the VAT section employees are much more and the HMP making is a tedious job for the employees as they have to work with water for a long duration which reduces the employees' motivation and hence the productivity. Subsequently, a modified design of the VAT machine had been developed and the corresponding fabrication works had been carried out for commissioning the new VAT machine. The new VAT machine was tested and performance analysis was conducted. The new VAT machine reduces the employees' operating effort and hence reduces the labour turnover. The operating time was also reduced for the production with the new machine's design. Due to these improvements, an increase in productivity was also recorded. This study suggests the industry to change the remaining old VAT machines with the new VAT machines to improve productivity.

HAIKU COMPETITION

IEEE SB SIMAT in as a part of celebration of PES DAY has conducted a HAIKU COMPETITION on 6th May 2022 through Google form. The motive of the competition was “ENERGY CONSERVATION IN DAILY LIFE”. Out of 8 participants 6 were IEEE members and 2 were non-IEEE members. The instructions were given that entries must not exceed 3 lines and submitted in doc format. The winner of the competition is Sivani LR (LBS Institute of Technology for Women).



CHASSEY TRESOR

As a part of the WIE WEEK celebration WIE AG's of IEEE SIMAT SB conducted a treasure hunt “CHASSE AY TRESOR” on 28th May 2022 at 7.00 pm along with AISAT, JEC and College of Engineering Trivandrum. Registration links were provided and 71 students participated. The winner of the competition was Anu Yeldo (IEEE SB MITS)



PIXEL LENS

WIE AG IEEE SB SIMAT conducted a photographic competition PIXEL LENS. The theme of the competition is Mother-Your Forever Friend. Around 6 participants submitted their entries. A registration link was given. The winner of the competition is Aswathy P.



KALAASH 2022



KALAASH 2022 is an eagerly awaited college fest of Sreepathy Institute of Management and Technology. The college fest was organised on 12th and 13th May 2022 in the college premises. The first day of KALAASH started with the inaugural ceremony. The inaugural function started with the prayer followed by the welcome speech by Mr. Arjun Aravind P (Senate Chairman). An introductory speech was given by Ms. Medha Vasudevan (S4, Civil). The inauguration was done by Dr S. P Subramanian (Principal, SIMAT). Mr Arjun Nair (Program Co-ordinator) gave a detailed idea about the games and events to the students. The inaugural ceremony came to an end with the vote of thanks by Ms. Vishnu Lakshmi P P (Senate Vice-Chairman). Mr. Syam Prasad G (Senate Advisor, SIMAT), Head of departments, Senate members, teaching & non-teaching staffs were also present. The function was successfully hosted by Ms. Suhailath T K (Senate Member).

The College fest diligently started with game sessions arranged at different parts of the campus. All the games were conducted with proper discipline in a joyous manner. The students and staff of SIMAT actively participated in each games and it created excitement, fun and joy among the peers in the campus. The games were conducted in different rounds in order to select the winner. The winners were given attractive prizes by the game co-ordinators.

The different games conducted on the first day were · Red Light Green Light · Bubble Ball Clash · Treasure Hunt · Arm Wrestling · Sumo Fight · Archery · Pillow fight · Football Shoot out · Tug of war





The events of the first day wound up with the most excited tug of war by 5.30 pm. The active participation and support of the students and staff of both SIMAT and SIAS made the day vibrant.

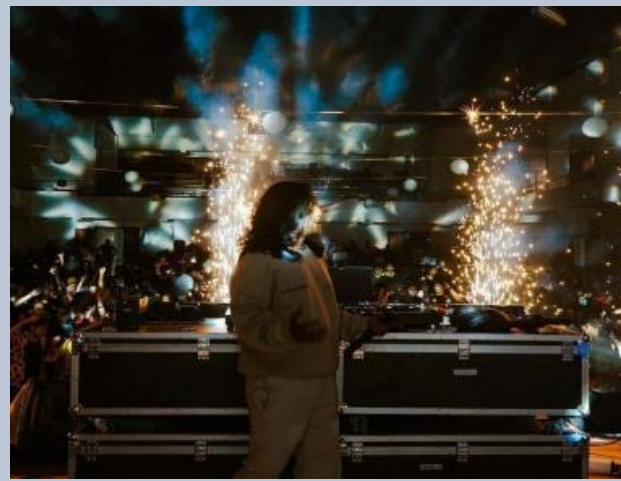


The second day was the most amazing part of the college fest. The day started with a Motor Show coordinated by the senior students. It was a power packed show of various cars and bikes. It was a colourful



treat to the eyes of spectators. The cars and bikes were exhibited in the campus for the whole day.

The cultural events started by 12pm in the college auditorium. Staff and students from all departments participated in various events like singing, dancing etc. It was a mix of diverse range of arts in which the participants showcased their talents and creativity. The cultural events were so interesting and came to an end with the most exciting Fashion Ramp Walk by 6pm.



The highlight of the college fest was the DJ event organized at the college auditorium at 6.30 pm. DJ RIDDIX team did a fantastic job playing great music that got everyone into the dance floor. The DJ event winded up by 8.30pm. The two-day college fest KALAASH 2022 came to end with fireworks. The proper planning, hard work and enthusiasm of the program co-ordinators along with support from students, staff and college management made the event a grand success and memorable.

AWARD FOR VOLUNTEER SECRETARY COORDINATOR



Mr. Syam Prasad, NSS Programme Officer Unit :233, Sreepathy Institute of management and technology received Special recognition from APJAKTU NSS Cell. The award was handed over to Mr. Syam Prasad by Dr. Jai M Paul, Ernakulam Regional Coordinator APJAKTU NSS Cell in the auspicious presence of Dr R N Anzer (State NSS Officer) and Dr Joy Varghese V M - (State Programme Coordinator APJAKTU NSS Cell).

INDUSTRIAL VISIT TO COMMON WEALTH TILE FACTORY

During industrial visit of S4 CE, 32 students and 2 staffs of CE, Mrs. Harsha C S (AP/CE) and Mr. Rejeesh (Lab Instructor CE) visited Common Wealth Tile Factory in Feroke, Kozhikode. This factory is known to satisfactorily cater to the demands of its customer base. The business came into existence in 1864 and has, since then, been a known name in its field. It stands located at Karuvanthuruthi Road, Feroke-673631. The business strives to make for a positive experience through its offerings. This business has a wide range of product offerings and the product/catalogue list includes Ceiling Tile, Ceramic Glazed Tile, Ceramic Tile, Plywood, Timber Plywood etc. Backed by more than a century of experience and expertise, Comtrust pledges its reputation to offer high quality products time after time. Comtrust tiles are available in a range of dimensions and designs each suited to your very own needs. Their salient features include wind and water tightness, resistance to heat, high breaking strength, convenience in laying perfect fit, elegant appearance, light weight and resistance to climatic influences in a competitive world of roofing tiles, the Indian Standards institution has laid down certain specifications for tiles of all kinds. Tests show that Comtrust tiles are in fact far superior to what the ISI requires as a basic minimum for grading.



The students had a wonderful experience by gathering a lot of knowledge on the step-by-step procedure for the manufacturing of different type tiles explained by the foreman of the company. The initial step includes the collection of soil material. Different types soils are collected and transported from various

areas to the manufacturing unit. After the studying the various processes involved in the manufacturing of tile we left the industry at 12.30 pm and reached at college by 3pm.

INDUSTRIAL VISIT TO MINAR ISPAT KOZHIKODE

Students along with staff visited Minar Ispat Kozhikode on 21st May 2022. Minar group is established in 1998 and is a national enterprise headquartered in India, comprising over 5 operating companies in four business sectors: engineering, materials, services, and energy. The Minar Ispat Kozhikode produces Tempcore TMT Bars of 500 D Grade and the product has a great market value, especially in the construction sector. Backed by more than 20 years of experience and expertise, Minar pledges its reputation to offer high-quality products time after time. In the Industry, students were strictly guided to



follow safety precautions, and each and every stage of steel bar production was explained by company officials.

The Visit gave great experience and knowledge to the students by understanding various stages of steel bar production. After the studying the various processes involved in the manufacturing of steel rods, we left from the industry at 1:30 PM and started our journey towards next destination.

INTERNATIONAL MOTHER'S DAY

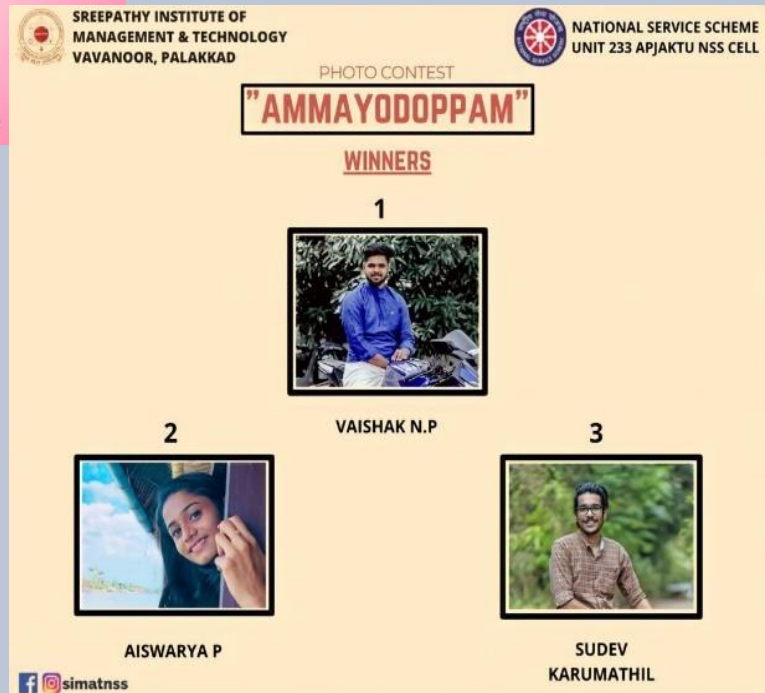
International Mother's Day is celebrated on the second Sunday in the month of May. The NSS UNIT 233, SIMAT observed Mother's Day to commemorate the efforts of mothers and honour their value in our lives and in our society. As part of this, a photo contest were conducted.

AMMAYODOPPAM-MOTHER'S DAY PHOTO CONTEST



As part of International Mother's Day celebrations, the NSS UNIT 233, SIMAT conducted a photo contest named 'Ammayodoppam'. The students were instructed to send their childhood photographs with their mother. The competition was through the online platform, instagram. Many

students have participated in the program and their entries were posted on the instagram page of SIMAT NSS. The criteria for selecting the winner was based on the number of likes they get for their photo till 9th May, 8:00 pm. The competition was very tight and exciting. Finally, winners were selected based on the number of likes. The active participation of students made the program a great success.



CAMPUS CLEANING

As part of the college day celebrations, the volunteers of NSS UNIT 233 SIMAT decided to clean and beautify the college auditorium. More than 20 volunteers were gathered at the auditorium and they worked together for making it neat and clean. The senior volunteers monitored the work and helped them.

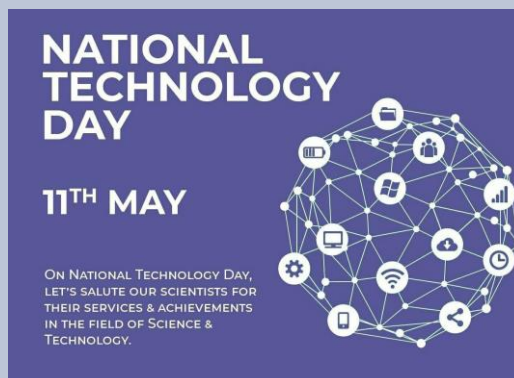
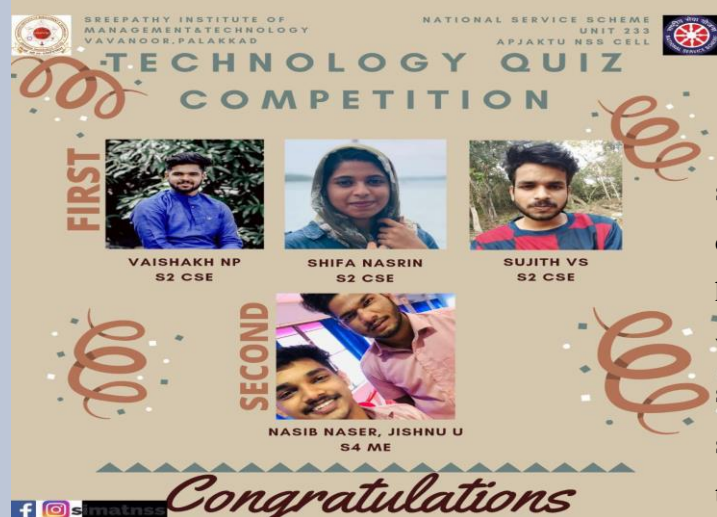


NATIONAL TECHNOLOGY DAY

National Technology Day is celebrated on May 11 every year to honour the contributions of India's scientific community including scientists, researchers and engineers. The NSS UNIT 233, SIMAT observed the day and conducted a Technology Quiz.

NATIONAL TECHNOLOGY DAY- QUIZ COMPETITION

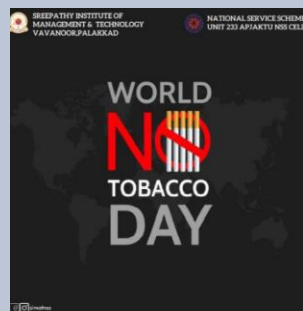
As a part of National Technology Day, the NSS UNIT 233 SIMAT organized a Quiz Competition. The competition



started at 3.00 pm in the seminar hall. The competition was in team manner. Each team had two or three students. The competition was open to all students in the college. Many students have participated and winners were selected. The prizes were also distributed to the winners.

WORLD NO TOBACCO DAY

As a part of No Tobacco Day, the NSS UNIT 233 SIMAT conducted a poster making contest. The participants were instructed to upload their posters. The entries were taken through Whatsapp and the competition was open to all Simatians. Many students have participated and prizes were distributed to the winners



LEADER ANNOUNCEMENT CEREMONY

NSS UNIT 233 organized a program for announcing the new leaders for the year 2022-23. The ceremony was conducted at the seminar hall during the open hour. All the NSS volunteers gathered in the seminar hall. Sri. Jishnu B H (Program officer, NSS Unit 233 SIMAT) introduced the leaders and greeted them. Also, Sri. Syam prasad G (NSS District Coordinator Palakkad, APJAKTU NSS CELL), Smt. Jayasree N Vettath (Associate program officer, Unit 233 SIMAT) and many ex-volunteers conveyed their wishes and bits of advice to the new leaders.

**SREEPATHY INSTITUTE OF
MANAGEMENT & TECHNOLOGY
VAVANOOR, PALAKKAD****NATIONAL SERVICE SCHEME
UNIT 233 APJAKTU NSS CELL**

LEADERS 2022-23

VOLUNTEER SECERTARIES



FAYIZ UMMER
S4 CE



MEDHA VASUDEVAN
S4 CE

JOINT SECERTARIES



PRANAV C N
S4 ME



ARUNDHATI DAS
S4 CSE

PROGRAM HEADS



ASWIN DEV
S4 CSE



ANCHANA JINESH
S4 CSE

DOCUMENTATION HEADS



AISWARYA R
S4 CSE



NAJMA YOOSAF
S4 CSE

SOCIAL MEDIA HEADS



MUHAMMED FAZIL
S4 CSE



SREERAM V K
S4 CSE

STUDENT ACHIEVEMENTS

- Mr. Sravan S8 EEE presented his company details to the MSME officials during the TBI SIMAT inspection conducted by MSME DI.
- Mr. Abeedar of S6 EEE coordinated Roborace organized by the department.

STAFF ACHIEVEMENT

- ❖ Dr Ramkumar P N had chaired a session in the Second Virtual International Conference on Advanced Technologies and Research in Mechanical Engineering during 24th to 26th May 2022 organized by the Department of Mechanical Engineering, MEA Engineering College, Malappuram, Kerala, India.
- ❖ Mr. Sebin Sunny P, AP/EEE selected for LEAP programme by KSUM
- ❖ Mr. Sebin Sunny P, AP/EEE selected for district lead programme by KSUM.

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- ❖ Mr. Sebin Sunny P, AP/EEE got best paper award for the ICDCS conference
- ❖ Mr. Sebin Sunny P, AP/EEE selected for ML course testing by deep learning.ai community and Stanford University.
- ❖ Conference publication, Sebin Sunny "Real Time Data Monitoring Using LoRaWAN in Different Cloud Platforms," 2022 6th International Conference on Devices, Circuits and Systems (ICDCS), 2022, pp. 455-459, doi: 10.1109/ICDCS54290.2022.9780797.
- ❖ SIMAT selected by IIC & MHRD to organize impact lecture series

PROGRAMMES CONDUCTED

- ✓ Industrial Visit for S6 CSE was conducted from 18/5/22 - 21/5/22
- ✓ Project Exhibition by S8 ECE students was conducted on 27/05/2022
- ✓ Open hour programmes were conducted by various departments of the college.

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