# ACTIVITIES FOR THE SESSION

2023-2024

INTERDEPARTMENTAL ACTIVITY ON "EMERGING TRENDS IN COMPUTATIONAL MATHEMATICS"

Department of Computer Science and Mathematics organized an interdepartmental activity on "**Emerging Trends in Computational Mathematics**" for the students of B.Sc. and BCA on August 31, 2023 in the computer lab at 10:50 am. The concept of Statistics was presented by B.Sc. students while its implementation on MS Excel was presented by BCA students**.**

Objective: The objective of the interdepartmental activity is to empower students with the ability to interpret a given dataset and derive a representative value that effectively summarizes the set of data points. Additionally, guide them in acquiring the skills to implement the provided dataset in Microsoft Excel for comprehensive analysis.

Outcome: Students understood the concept of basic concepts pf statistics for data analysis and its practical implementation on MS Excel for interpretation.
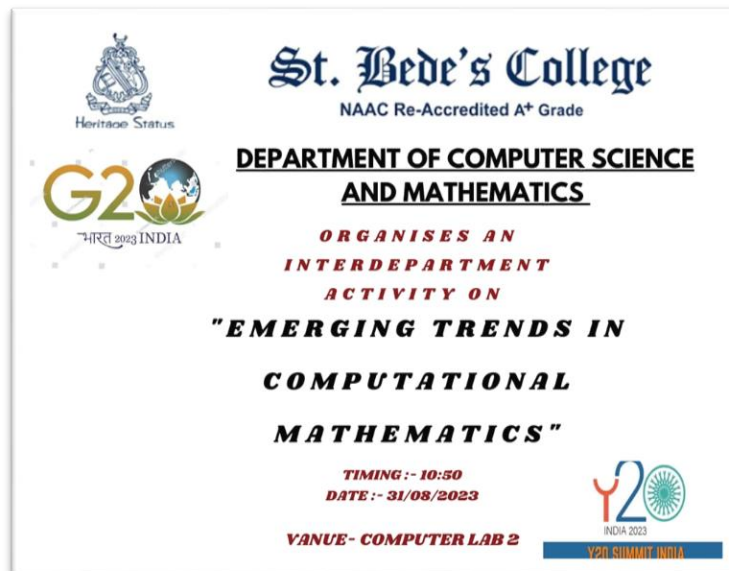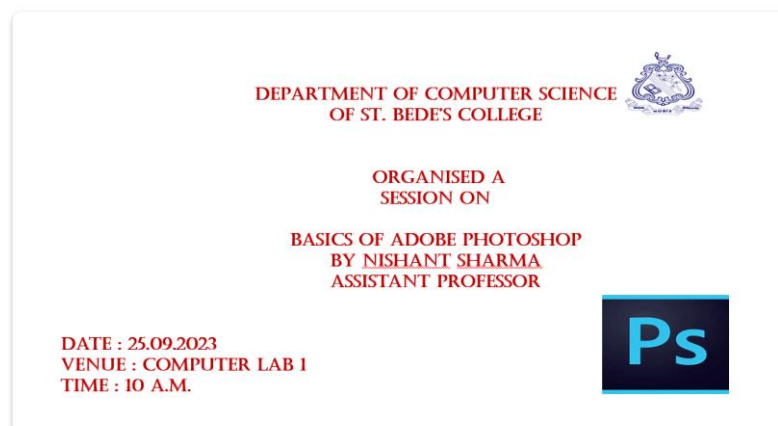

POSTER

EMERGING TRENDS IN COMPUTATIONAL MATHEMATICS"

SESSION ON BASICS OF ADOBE PHOTOSHOP

An interactive session on the "**BASICS OF ADOBE PHOTOSHOP**" was conducted by Mr. Nishant Sharma, Assistant Professor, Department of Chemistry on September 25, 2023 in the Computer Lab for the students of BCA -IIIrd semester.

Objective: The objective of the session was to make students aware of the basics of graphic design. This will help the students to create content using digital media.

Outcomes: The students got an idea of how to work with layers and learn how to crop, transform and edit existing images.

POSTER

SESSION ON BASICS OF ADOBE PHOTOSHOP

PRESENTATION FOR SCHOOL STUDENTS ON "WORD PROCESSING PACKAGES"

The students of Department of Computer Science presented a PowerPoint presentation session at Government Girls Senior Secondary School, Lakkar Bazar, Shimla on September 30, 2023 from 10:00 AM onwards. The seminar was for the students of IXth and Xth standard on the topic " WORD PROCESSING PACKAGES ". The seminar was led by students from the B.A and B.SC. students, who aimed to educate the children on the fundamentals of Ms Word package and its significance in day-to-day life. The event was well attended, with over 30 students participating.

Objective: The presentation was given to create awareness among school students about computer science and technology. The school students were provided with detailed information about the word processing packages available now a days.

Outcome: The school students got a platform to know about the new application that were available for work processing in addition to MS-Word application. The interactive session was an eye-opener for the young students.
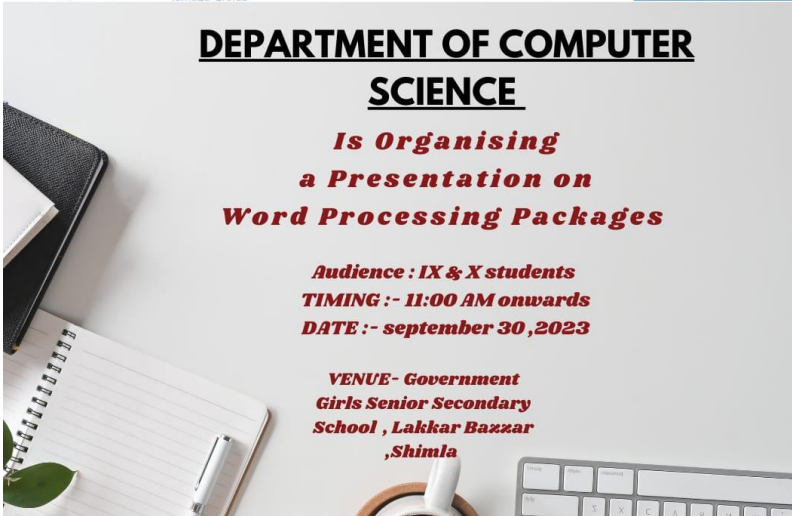
POSTER

PRESENTATION ON WORK PROCESSING PACKAGES

WORKSHOP ON "HTML & CSS WITH VS CODE" FOR SCHOOL STUDENTS

The students of Department of Computer Science organized a workshop on **"HTML & CSS WITH VS CODE"** at Government Girls Senior Secondary School, Lakkar Bazar, Shimla on September 30, 2023 from 10:00 AM to 3:00 PM. The seminar was for the students of XIth and XIIth standard .The workshop was led by students from the BCA VIth semester students, who aimed to educate the students on the fundamentals of hypertext markup language, usage of CSS in HTML and development of interactive websites using VS code. The event was well attended, with over 28 students participating.

Objective: The workshop was organized for school students to create awareness among school students about the static and dynamic websites creation using HTML language.

Outcome: The school students got a platform to know about the importance of coding at the backend to make the websites attractive. The interactive session was an eye-opener for the school students.
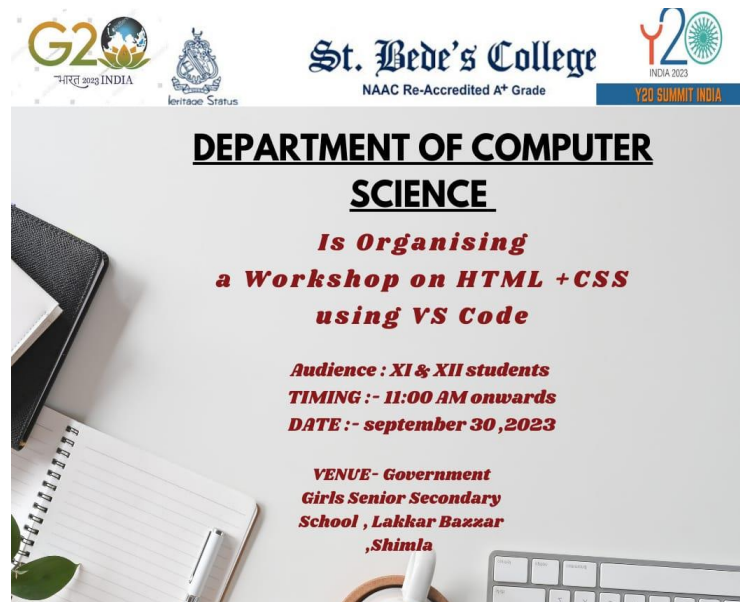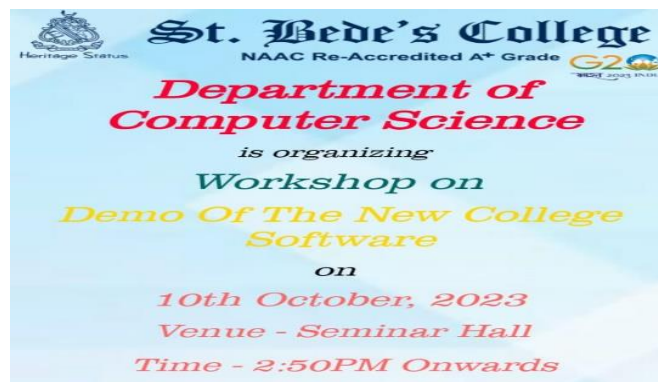

POSTER

WORKSHOP ON "HTML & CSS WITH VS CODE"

WORKSHOP ON "DEMO OF THE NEW COLLEGE SOFTWARE" FOR FACULTY

The students of Department of Computer Science organised a workshop on **"DEMO OF THE NEW COLLEGE SOFTWARE"** for the college faculty on October 10, 2023 from 2.50 pm onwards in the seminar hall. Mr. Deepak Sundriyal, Ms. Pranthana and Mr. Ankit Tiwari from Sun Infosystem, Dehradun explained the working of the new computer management information system. Faculty members were also made aware about various modules included in the software. Workshop was well attended, with over 39 faculty participating.

Objective: The main aim of the workshop is to create awareness about the working of the new software. Also to provide faculty the hand on experience about the various modules included in the software

Outcome: The faculty members got a hands-on experience on the working of the new computer management information system of the college.

WORKSHOP ON "DEMO OF THE NEW COLLEGE SOFTWARE"

TECHNOLOGY WEEK (NOVEMBER 4-NOVEMBER 9, 2023)

Department of Computer Science organised technology week from November 4- 9, 2023. It provides an opportunity to the students to explore various technological advancements, foster innovation, and engage participants in learning about the latest trends in technology. Various activities such as presentations, guest lecture, visit to udaan school, computer exhibition, competitions were organised for the students of the college.

Day 1: November 4, 2023 – Movie

Day 2: November 6, 2023 – Power-point Presentations

Day 3: November 7, 2023 – Competitions

Day 4: November 8, 2023- Exhibition & Guest Lecture

Day 5: November 9, 2023- Visit to UDAAN School & Treasure Hunt

Objectives:

The objective of technology week is to increase awareness among participants about current and emerging technologies, including their applications and impact on society. Also, to improve participants' digital literacy by teaching them how to effectively use and understand technology in both personal and professional contexts and recognize and celebrate significant technological achievements. It will also provide students an insight to the unique educational environment of school and interact with the students and teachers.

Outcomes:

Students become more proficient in using digital tools and platforms, enhancing their overall tech-savviness. They also understand the cross-sectoral impact of technology and how it can be leveraged in different fields. Participants become more informed about the latest technological trends, tools, and innovations.
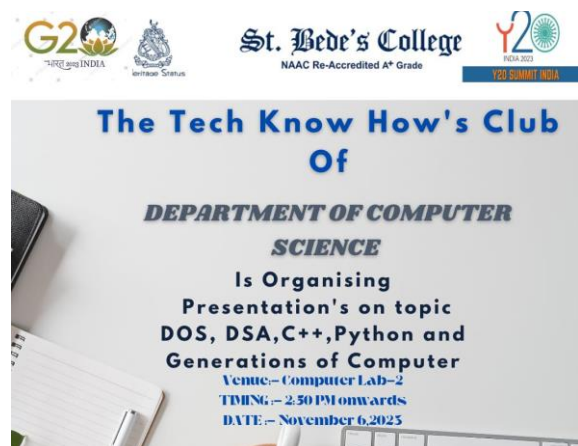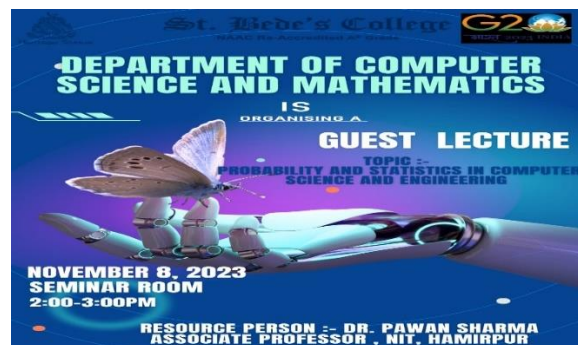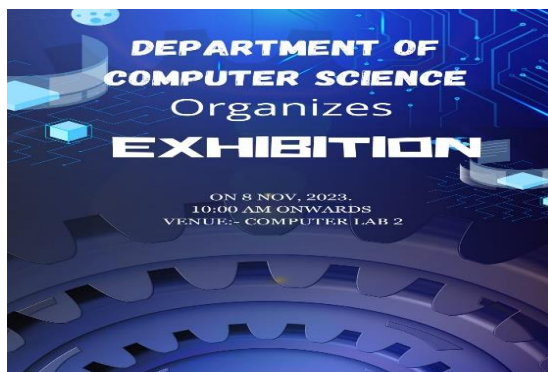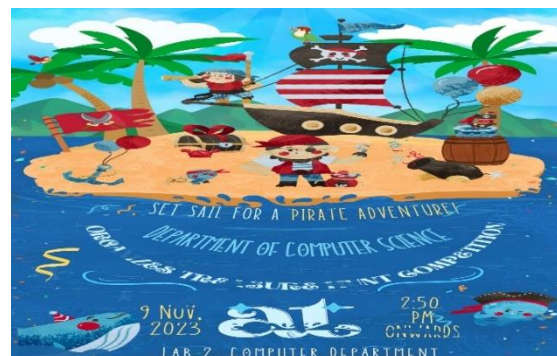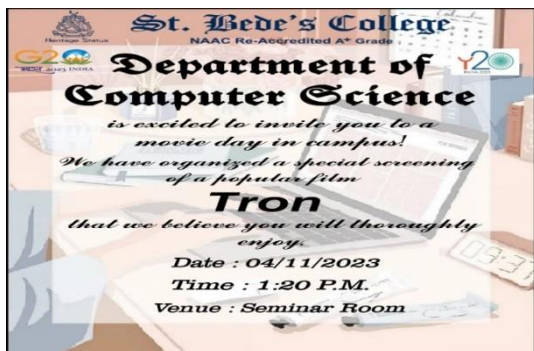
POSTERS

TECHNO HOW'S WEEK ACTIVITIES

GUEST LECTURE ON "PROBABILITY AND STASTISTICS IN COMPUTER SCEINCE AND ENGINEERING

Department of computer science and mathematics organised a guest lecture on the topic **"PROBABILITY AND STASTISTICS IN COMPUTER SCEINCE AND ENGINEERING"** on November 8, 2023 in the seminar room**.**

Objective: The lecture aims to equip students with the knowledge and insights needed to apply probability and statistics effectively in their future endeavours within the field of computer science and engineering.

Dr. Pawan Sharma, Associate Professor, Department of Mathematics and Scientific Computing, NIT, Hamirpur was the resource person. Sir discussed about significance of probability and statistics in the fields of computer science. He also talked about the importance of machine learning and AI in today's era.
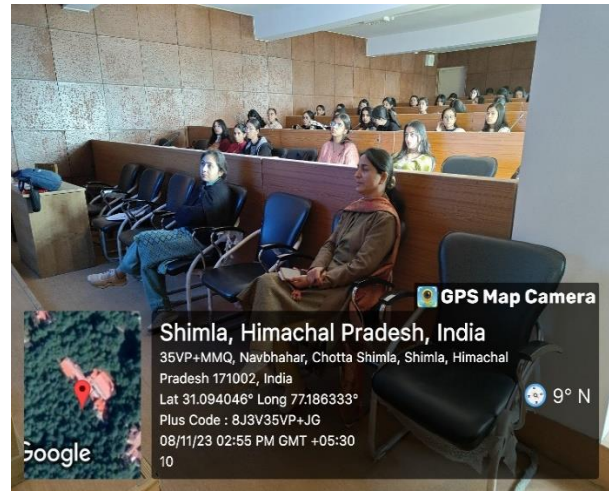
Learning Outcomes:

aim to equip students with a well-rounded understanding of probability and statistics, emphasizing their practical applications in the field of computer science and engineering. The outcomes also encourage critical thinking, problem-solving skills, and the ability to apply theoretical knowledge to real-world scenarios.

POSTER

GUEST LECTURE

DIWALI CELEBRATIONS WITH DIFFERENTLY-ABLED STUDENTS

Students of Department of computer science visit Udaan school for differently abled students on November 9, 2023 for Diwali celebrations. Students had an interactive session with school students on day-to-day activities. Students interacted with the students through games and charts that helped school children to understand daily activities more efficiently. Students distributed sweets and gifts to school children.

Objective: The objective of the tour was to provide our students an insight to the unique educational environment of school and interact with the students and teachers.

Outcomes: It was an attempt to inculcate the sense of responsibility among the college students. The enthusiasm and determination of the specially abled students was a source of inspiration for the college students

POSTER

DIWALI CELEBRATIONS WITH DIFFERENTLY-ABLED STUDENTS

SOCIAL RESPONSIBILITY

The students of the Department of Computer Science went to Indira Gandhi Medical College Langar Hall on December 24, 2023 to serve langar to cancer patients and their attendants. Students from BCA IIIrd year went to IGMC. Over 1000 people were served in the entire day.

Objective:

• To make students aware of their social responsibility towards people.

• To serve meals to the patients and their families.

Learning Outcome:

Visit to Indira Gandhi Medical College Langar Hall provided a platform for working towards social responsibility. Students got a chance to interact with people from diverse cultures and learnt to work with people from diverse backgrounds. The students also experienced the importance of community welfare and the development of feelings like compassion and empathy.

SOCIAL RESPONSIBILITY AT LANGAR HALL, IGMC

3 DAYS WORKSHOP ON MAXIMA SOFTWARE

The students of the Department of Computer Science attended three days workshop on "Maxima Software" organized by Department of Mathematics, Centre of Excellence, Government College, Sanjauli from December 26-28, 2023.

Objective:

The main objective of the workshop is to create a bridge between the theoretical knowledge of mathematics and its application by the use of technology.

The students of BCA 6th semester attended the workshop. The resource persons for this workshop were Dr. Arun Pal Singh, Professor and Dr. Monika Singh Associate Professor from the University of Delhi, Delhi. Students learnt basic and advanced functions available in maxima software to do algebraic manipulations. They also got the practical knowledge about the implementation of calculus operations, matrix operations, linear algebra and other mathematical calculations.

Learning Outcomes:

The students had a solid understanding of Maxima's capabilities and was able to implement various mathematical and engineering problems using this software. The learning outcomes had empowered students to integrate Maxima into their work or academic pursuits effectively.

POSTER

WORKSHOP ON MAXIMA SOFTWARE

FIVE DAYS FACULTY DEVELOPMENT PROGRAMME ON "ACADEMIC WRITING AND RESEARCH METHODOLOGY: MULTIDISCIPLINARY"

Department of computer science organized Five Day Faculty Development Programme on "Academic Writing and Research Methodology: Multidisciplinary" from December 26-30, 2023 in the seminar room from 10:00 AM – 4:00 PM.

Objectives:

The primary objective of the Faculty Development Programme is to provide a platform for the faculty to have deeper understanding of research and data analysis using various online open-source tools and its visualization which will help them in their research work. It typically aims to enhance the skills and knowledge of faculty members across various disciplines.

Learning outcomes:

Faculty members had equipped with the skills and knowledge needed to engage in high-quality multidisciplinary academic research and effective academic writing. They also understood the use of various open source softwares such as google colab, jupyter notebook, anaconda to name a few for data analysis and data visualization The outcomes aimed to enhance the overall research productivity and impact of the participating faculty members.

FACULTY DEVELOPMENT PROGRAMME

AWARENESS TALK ON "CYBER SECURITY AND AWARENESS"

Department of Computer Science organised an awareness talk on "**Cyber Security and Awareness**" on February 23, 2024, in the college auditorium. Mr. Mohit Chawla, DIG, Cyber Crime (CID), HP, Shimla, was the esteemed speaker. He was accompanied by his team Mr. Yashwant Thakur, Inspector, Ms. Manu Sharma, Ms. Diksha Sharma and Mr. Kamlesh. The talk emphasised on the new risks and vulnerabilities, particularly in the realm of cybersecurity. 369 students of the college attended the awareness talk.

Objectives:

To make students aware abouts the fundamental concepts of cybersecurity, including what it is and why it's important, different types of cyber threats, such as phishing, malware, ransomware, and social engineering, best practices for staying safe online, such as creating strong passwords, using two-factor authentication, and avoiding suspicious links and the importance of data privacy, including how personal and sensitive information can be protected online. These objectives aim to provide a comprehensive understanding of cybersecurity, equipping participants with the knowledge and skills they need to protect themselves and others in an increasingly digital world**.**

Outcomes:

Students understood the cybersecurity basics, how to safeguard their personal information and understand the significance of privacy settings on social media and other platforms. Students also become aware of common cyber threats and how to identify them in their daily online activities and needs to adopt safer online behaviors that reduce their risk of falling victim to cyberattacks.

POSTER

CYBER SECURITY AND AWARENESS TALK

ONE DAY IT VISIT TO CS SOFT SOLUTIONS

Department of computer science organised one day IT visit to CS Soft Solutions (I) Pvt. Ltd., Mohali (SAS Nagar), Punjab on March 6, 2024. 33 students of BCA and BA along with two faculty members Ms. Neha Walia and Ms. Nivedita Bhardwaj visited the company. Students had interactive sessions on latest full stack, android, mobile ASP.net and PHP applications. They also visited various departments of the company to get exposure of the IT company trends.

Objectives:

- To familiarize students with the tools, technologies, and programming languages used in the software company.
- To help students understand the work culture, team dynamics, and project management practices in a software company.

Outcome:

Students learned about popular software development tools full stack, android, mobile ASP.net and PHP applications that are in demand. Students also observed professional collaborations, managing projects, and handle challenges in a corporate setting.
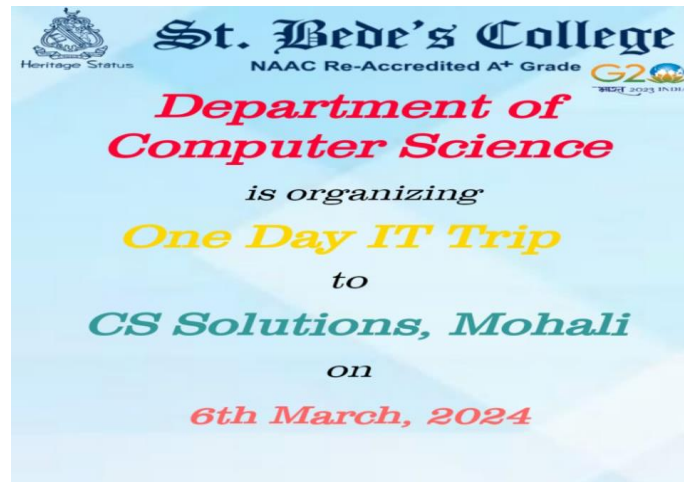
POSTER

IT VISIT

ONE DAY WORKSHOP ON GRAPHICS DESIGN

Department of computer science in association with Women Cell on the occasion of International Women's Day organised one day workshop of on the topic "Graphic Design" on March 4, 2024 in the computer lab**.** Ms. Priyanka Vashisht, Team Lead UI/UX Design, Grazitti Interactive, Panchkula was the resource person. Guest speaker talked about the importance of Graphic Design in the field of information technology. She also gave hands on training on photoshop and illustrator softwares used for animations to the students. 30 students from BCA and BA Computer Applications participated in this workshop.

Objectives

- To provide participants with a basic understanding of what graphic design is and its importance in various industries.

- To teach participants the fundamental principles of design, such as color theory, typography, balance, contrast, and alignment and popular graphic design software, such as Adobe Photoshop, Illustrator, or free alternatives like Canva or GIMP.

- To provide participants with the opportunity to work on a real design project, such as creating a logo, poster, or social media graphic.

Outcome:

Students gained the foundational knowledge of graphic design, including its role in branding, marketing, and communication. Students learnt how to apply design principles to create visually appealing and effective graphics. Students become comfortable with basic tools and features of graphic design software, enabling them to start creating designs. Students gain practical experience by applying what they've learned to create their own designs. Students added insight into the graphic design industry and the steps they can take to pursue a career in this field.

WORKSHOP ON GRAPHIC DESIGN

WORKSHOP ON GRAPHIC DESIGN

WORKSHOP ON "NEW COLLEGE WEBSITE AND LMS" FOR FACULTY

The students of Department of Computer Science organised a workshop on **"DEMO OF THE NEW COLLEGE SOFTWARE"** for the college faculty on May 6, 2024 from 2.00 pm – 4:00 pm in the seminar hall. Mr. Deepak Sundriyal, Ms. Prathana and Mr. Ankit Tiwari from Sun Infosystem, Dehradun explained the working of the new modules added in computer management information system. Faculty members were also made aware about various modules included in the software. Workshop was well attended, with over 36 faculty participating.

Objective: The main aim of the workshop is to create awareness about the working of the new software. Also to provide faculty the hand on experience about the various modules included in the software.
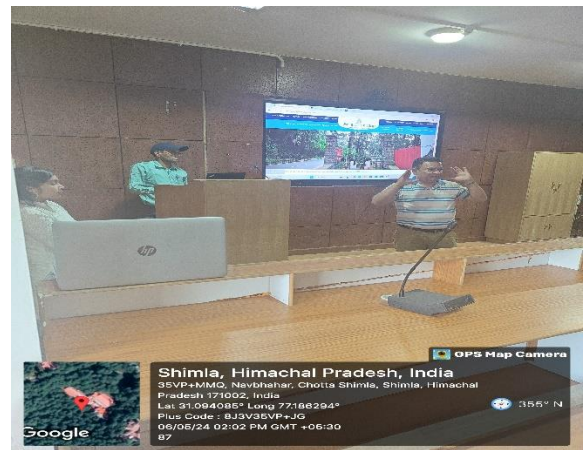
Outcome: The faculty members got in depth knowledge and layout of the new college website and new updations done in the new computer management information system of the college.

POSTER

WORKSHOP ON "NEW COLLEGE WEBSITE AND LMS" FOR FACULTY