

Report BCA – Departmental Activities

Activities for the Academic year 2023 - 24

August 03, 2023

Report for the Programme “A talk on Cyber Security”

Guest Lecture: Topic: A talk on Cyber Security; Resource Person: Mohammed sheik Nihal

Description of the Programme: The resource person spoke on the importance of Cybersecurity.

He said, “Cybersecurity is crucial in today’s digital age as it protects sensitive information, prevents cyber-attacks, and maintains the integrity of systems. It is essential for individuals, businesses, and governments to prioritize cybersecurity to safeguard data and ensure the smooth functioning of digital operations¹. He emphasized on the Do’s and Don’ts of Cyber Security. He stressed on using Strong Passwords. He asked the students to create complex passwords using a mix of letters, numbers, and special characters. He also mentioned to enable Two-Factor Authentication (2FA) to add an extra layer of security to your accounts, Keep Software Updated and, Be Cautious with Emails. He said, “Verify the sender before clicking on links or downloading attachments”.

On Don’ts he said, “Avoid Public Wi-Fi for Sensitive Transactions. Don’t Share Personal Information: Be cautious about sharing personal details online. Avoid Using the Same Password: Use different passwords for different accounts.

He emphasized on the fact, why girls and women should be having the awareness on the Cybersecurity. He said, “Girls and women are underrepresented in the cybersecurity field, yet their perspectives are crucial for addressing diverse security challenges. Knowledge of cybersecurity empowers girls to protect themselves online, understand the value of their data, and contribute to a more inclusive and secure digital environment”.

He made clear some of the terminologies used in Cybersecurity. Some of the terminologies, the resource person mentioned are listed below:

Phishing: A method used by cybercriminals to trick individuals into providing sensitive information by pretending to be a trustworthy entity.

Malware: Malicious software designed to harm, exploit, or otherwise compromise a computer system.

Firewall: A network security device that monitors and controls incoming and outgoing network traffic based on predetermined security rules.

Encryption: The process of converting data into a code to prevent unauthorized access.

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The resource person showed the method of identifying the fake and real URLs. He concluded his talk by asking the audience to be safe while browsing the internet for information. He asked the students to follow the guidelines provided and understand the importance of cybersecurity; by doing this, the individuals can better protect themselves and contribute to a safer **Digital World**.

The programme was attended by the staff of BCA comprising of Mr. Gopalkrishna A. Raikar, Ms. Naseera S, Ms. Siby M.A, Ms Keerthilaxmi and Ms. Lithika. The technical arrangements were taken care of by Mr. Ravinder Murthy and all the students of BCA.

Programme Outcome: The students learnt about the different cybercrimes and the different ways to protect themselves on the internet. The programme was much appreciated for the points covered in the talk on Cybersecurity.

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Report on “A talk on System Security”

Guest Lecture: Topic: A talk on System Security; Resource Person: Dr. Rajagopal, MIT, Manipal

Description of the Programme:

The resource Person began the programme by highlighting the Importance of System security by saying that, it is crucial in today’s digital age to protect sensitive data from unauthorized access and cyber threats. It ensures the confidentiality, integrity, and availability of information, which are essential for maintaining trust and operational efficiency.

He spoke about the Advantages of having a System Security in place to:

Provide Protection Against Threat such as malware, phishing attacks, and other cyber threats.

Data Integrity maintenance to ensure that data remains accurate and unaltered during storage and transmission.

Compliance, Helps organizations comply with legal and regulatory requirements, avoiding potential fines and legal issues.

Business Continuity helps to minimize downtime and ensures that business operations can continue smoothly even in the event of a security breach.

He pointed out that with the increasing number of cyber-attacks and data breaches, robust system security measures are more critical than ever. Organizations must adopt proactive security strategies to protect their assets and maintain customer trust.

He included some common terminologies in his talk on system security. Some terminologies are listed below:

Cryptography: The practice of securing information by transforming it into an unreadable format, only accessible to those with the decryption key.

Firewall: A network security device that monitors and controls incoming and outgoing network traffic based on predetermined security rules.

Malware: Malicious software designed to harm, exploit, or otherwise compromise a computer system.

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Encryption: The process of converting information or data into a code to prevent unauthorized access¹.

He concluded by saying the System Security was the need of the hour. The earlier it is implemented, the better.

The programme was attended by the staff of BCA comprising of Mr. Gopalkrishna A. Raikar, Ms. Naseera S, Ms. Siby M.A, Ms Keerthilaxmi and Ms. Lithika. The technical arrangements were taken care of by Mr. Ravinder Murthy and all the students of BCA.

Programme Outcome:

The students were able to grasp the essentials of System Security. There were some queries on System Security such as the application used for Cryptography, How a Digital Signature works, encryption and decryption. The resource person promised to have another session on specifically on Cryptography. The talk evinced keen interest on the topic and the students wanted to delve deeper into the aspects of System Security and would take the help of internet to know more about it.

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September 13, 2023

Activity:

e-Voting to elect the President, Secretary, and Joint Secretary to the Union Council.

Description:

All the students of the College comprising of BA, B.Com, BBA, B.Sc. – General, B.Sc. – FND, B.Sc – Home Science, and BCA took part in this programme. This democratic process has been in place since 2015 when the 1st election through digital ballots was held.

The results were declared on the same day within 2 hours of the election process. They were tabulated and filed for future reference.

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December 18, 2023

Report of the workshop on “Taking Online Aptitude Tests for Competitive Exams”

Workshop Topic: Taking Online Aptitude Tests for Competitive Exams

**Local Resource Persons: Mr. Gopalkrishna A. Raikar, BE, M.Sc. – IT &
Mr. Ravinder Murthy, M.Sc – IT**

The Resource Person Mr. Raikar started the session by giving a brief introduction on the topic. He said, “Preparing for competitive exams like UPSC, NEET, IIT, and CET requires a strong foundation in various subjects and excellent problem-solving skills. Online aptitude tests are a valuable tool for self-assessment and improvement.

He spoke on the benefits of Online Aptitude Tests: Some benefits highlighted by him are:

Convenience and Flexibility, Variety of Questions through access to a wide range of questions covering different topics and difficulty levels,

Instant Feedback by getting Immediate results and detailed explanations for each question, which helps identify strengths and weaknesses promptly.

Performance Tracking by which progress can be tracked over time, allowing for targeted improvements.

Mr. Ravinder Murthy, the other resource Person spoke on the strategies to be adopted to answer aptitude questions. He stressed on:

Regular Practice through proper scheduling to build consistency, Focus on different subjects and topics in each session.

Analyze Performance by Reviewing incorrect answers and understand the mistakes. Make use of use performance analytics to focus on weak areas.

Time Management by Practicing with timed tests to improve speed and accuracy. This helps to develop strategies to allocate time efficiently during the actual exam.

Using Quality Resources helps to Choose reputable platforms that offer well-structured and up-to-date question banks.

Mock Tests: Take full-length mock tests periodically to simulate the actual exam experience.

The talk concluded by emphasizing that Online aptitude tests are an effective tool for preparing for competitive exams like UPSC, NEET, IIT, and CET etc;. They offer numerous benefits, including convenience, variety, instant feedback, and performance tracking. By

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incorporating regular practice, performance analysis, and time management strategies, aspirants can significantly enhance their readiness for these challenging exams.

The programme was attended by the staff of BCA comprising of Mr. Gopalkrishna A. Raikar, Ms. Naseera S, Ms. Siby M.A, Ms Keerthilaxmi and Ms. Lithika. The technical arrangements were taken care of by Mr. Ravinder Murthy and all the students of BCA.

Programme Outcome:

The students were able to comprehend the importance of training regularly oneself to take up any competitive exam. They understood that by taking up training online using the mock competitive tests they will improve their efficiency in answering the questions promptly and manage their time usefully.

The programme was an resounding success among the students.

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February 02, 2024

Report on Video Editing Using Kinemaster

Topic: Video Editing: Resource Person: Mr. Ramanath Shetty, Professor, NITK, Suratkal, Mangaluru

Description:

The resource person introduced Kinemaster as a powerful and user-friendly video editing application available on both Android and iOS platforms. He said, "It offers a wide range of features that make it suitable for both beginners and experienced video editors.

The summary of the talk is given under: He spoke on:

Multi-Layer Editing which allows adding multiple layers of video, images, text, and effects.

Chroma Key is essential to enable green screen effects to composite videos. This is useful for creating professional-looking videos with background changes.

Audio Editing to edit audio clips. This Includes tools for adjusting audio levels, adding background music, and sound effects, features like voice modulation and reverb enhance audio quality can also be used effectively.

Transitions and Effects in Kinemaster offers a variety of transitions and visual effects to enhance video quality. It includes options for adding animations and motion graphics.

Export Options: After the video editing is finalized it can be imported in various resolutions, including 4K.

A demonstration on using Kinemaster was provided by the resource person. He showed in detail:

Bringing the a clip into the video Editor, using the trimming tool to cut unwanted parts of the video, Split clips to rearrange or remove specific sections, Adding Transitions and Effect, apply visual effects and filters to enhance the video, Inserting Text and Stickers, Tap on the text icon to add titles, captions, and subtitles, Use stickers and animations to make the video more engaging, Adjusting Audio, Import background music and sound effects, Adjust audio levels and synchronize with the video, Exporting the Video, to mp4 format and share the same edited video on social media.

The resource person concluded this workshop, by highlighting the essential features of Kinemaster, the best simple video editor. He said that Filmora and WonderShare were other simple video editors.

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The programme was attended by the staff of BCA comprising of Mr. Gopalkrishna A. Raikar, Ms. Naseera S, Ms. Siby M.A, Ms Keerthilaxmi and Ms. Lithika. The technical arrangements were taken care of by Mr. Ravinder Murthy and all the students of BCA.

Programme Outcome:

After the programme, to test the understanding of the students, about video editing, were given an assignment to create a video on our college, and edit it to include transitions, titles and other features of video editing. Later, this assignment was converted to an competition to award the best video edited clip. The videos have been uploaded on our Google channel <https://www.youtube.com/hashtag/welcometobesant>

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March 06, 2024

Topic: Workshop on Wikipedia – 1 day – “She Edits – Women shaping Wikipedia”

Resource Persons: members of “Karavali Wikimedia’s User Group”, Mangaluru in association with “Centre for Internet & Society (CIS/A2K)”, Bengaluru

Description:

Wikipedia is a free online encyclopedia created and edited by volunteers around the world. It's hosted by the Wikimedia Foundation. You can explore over 100,000 articles on various topics in English and millions more in other languages. IT is a massive storehouse of Information.

Caveat Emptor: Not all information available on Wikipedia is Authentic. Hence, the information can be edited or new authentic information can be added. This is what the workshop programme was aimed with.

The resource persons gave an insight into Wikipedia, Wikimedia and Wikihow. They demonstrated practically, the methods that can be used to create new information, or modify the existing information as per the requirements, on the Wikipedia.

The participants created their email ID and logged in through this ID. After this the editing of information on Wikimedia was a child's play.

The programme was a success as found from their feedbacks.

All the students of BCA accompanied by their staff members attended the Workshop and benefitted from it. The staff members included, Mr. Gopalkrishna A. Raikar, College Academic Advisor (CAA), HoD - BCA Ms. Naseera S, Ms. Siby M A, Ms. Keerthilakshmi T S, Ms. Likhitha, and Mr. Ravinder Murthy, who held the reins of Technical Support.

Programme Outcome:

The students became aware of the **Information Storehouse – Wikipedia**. They, after the workshop, deftly handled the modification of information on Wikipedia.

The students assured the resource persons of the workshop and the Staff of BCA, that they would continue to monitor information available on Wikipedia, that suits their interests, and absorb the information available and modify as and if required.

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May 12, 2024

Activity: Educational Trip to Manipal

Description: As per the requirement of the syllabus, a study tour was organised for the students of BCA. The places covered in this tour included Kaikamba, Moodbidri and Manipal, the 1st two places in Dakshina Kannada and the 3rd on in Udupi district.

Kaikamba, nestled in the scenic Western Ghats, has a revered Hindu temple that is dedicated to Lord Subramanya (also known as Kartikeya), the son of Lord Shiva and Goddess Parvati.

The temple is situated by the tranquil Kumaradhara River, offering spiritual solace and cultural immersion.

After a quick darshan , the students were taken to the backoffice, to observe how daily activities are controlled using IT.

The next place of visit was Moodbidri, where the students visited the “savira Basadi” or the “1000 pillars temple” dedicated to Lord Mahavira. This visit was essential, for an assignment to be given to the students. They had to do a comparative study of the ancient structure of 1000 pillars jain temple, planned and constructed by physical manforce and the construction using modern technology of today using ACAD for design planning.

The next halt was at Manipal, known for its educational institutions, offers a vibrant environment for BCA students. The following places were visited:

Visit to Manipal University, Jaipur situated in Dehmi Kalan. Permission was sought to attend a special class on Cyber Security and Data Science.

The students interacted with the Professors and Lecturers, who were kind enough to give their precious time to the students of our College.

The students were taken around the university campus and were shown the state-of-the-art computer labs. A separate lab with 70 computer, was available for the guests.

They were given an first-hand information on Hackathons.

The students were accompanied by their staff members accompanied by Mr. Gopalkrishna A. Raikar, College Academic Advisor (CAA), HoD - BCA Ms. Naseera S, Ms. Siby M A, Ms. Keerthilakshmi T S, and Ms. Likhitha.

Programme Outcome:

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After the visit to the Saavira Kamba Temple in Moodbidri, Dakshina Kannada, Karnataka, the students made an attempt to compare the ancient architecture with the modern architecture. Below is produced the summarized report:

Brief Report on visit of Saavira Kamba Temple in context to the study tour, submitted by the students of BCA, Besant Women’s College, Mangaluru

The **Saavira Kambada Temple** (also known as the Thousand Pillars Temple) in Moodabidri, Karnataka, India, is a remarkable Jain temple with a rich history. We, the students of BCA, Besant Women’s College, Mangaluru, explored its architecture and compared it to modern practices:

1. Historical Architecture:

- Date of Construction: Devaraya Wodeyar, a local lord, designed the temple originally around 1430 AD.
- The planning and design of the temple were probably completed by hand in the past, depending on the expertise of experienced artisans, customary knowledge, and locally available resources.
- The temple is home to one thousand pillars, each with an excellent carving featuring intricate detailing. Every pillar is unique. The temple construction is supported by these elaborately decorated pillars.
- Materials used the construction of the temple, are Stone and wood, in. The veranda's sloping copper-tiled roof was composed of wood, evoking images of Nepalese temple architecture.
- o Monolith Manasthambha: Adjacent to the temple is a 50-foot-tall monolith manasthambha that was constructed.

2. Modern Architecture:

- **Design technologies:** These days, sophisticated technologies like AutoCAD (ACAD) are useful for architectural planning. Using computer-aided design tools, architects may produce intricate blueprints, three-dimensional models, and structural simulations.
- **Materials and Techniques:** Stone and other more contemporary materials are frequently combined to create modern temples. (such as reinforced concrete). The design is guided by structural engineering concepts.
- **Efficiency and Precision:** Accurate visualization, efficient planning, and precise measurements are made possible with ACAD. Architects are able to maximize energy efficiency, guarantee safety, and mimic the interaction of light with the structure.
- **Aesthetics:** Modern temples experiment with contemporary aesthetics in addition to incorporating traditional components. Architects strike a balance between aesthetics, symbolism, and utility.

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Programme Outcome:

The students of BCA enjoyed the conducted trip as it was coupled with study and enjoyment. They could experience a great excitement and change to concentrate on their studies outside the 4 walls of a class room.

The study tour proved to be a catalyst to enhance their knowledge in IT.

They voiced their demand unitedly to have many more such study tours, to be conducted more frequently.

At the three places scheduled for the study tour, the students gained a lot of information and knowledge related to IT. The student could actually differentiate between the theoretical knowledge acquired and the actual usage practiced in the places scheduled for the study tour.

All the staff members of BCA comprising of Mr. Gopalkrishna A. Raikar, College Academic Advisor (CAA), HoD - BCA Ms. Naseera S, Ms. Siby M A, Ms. Keerthilakshmi T S, and Ms. Likhitha, accompanied the students of BCA. They provided timely help to the curious, inquisitive students by clarifying their doubts related to IT. They also monitored the safety and security issues for the students.

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Photo Gallery

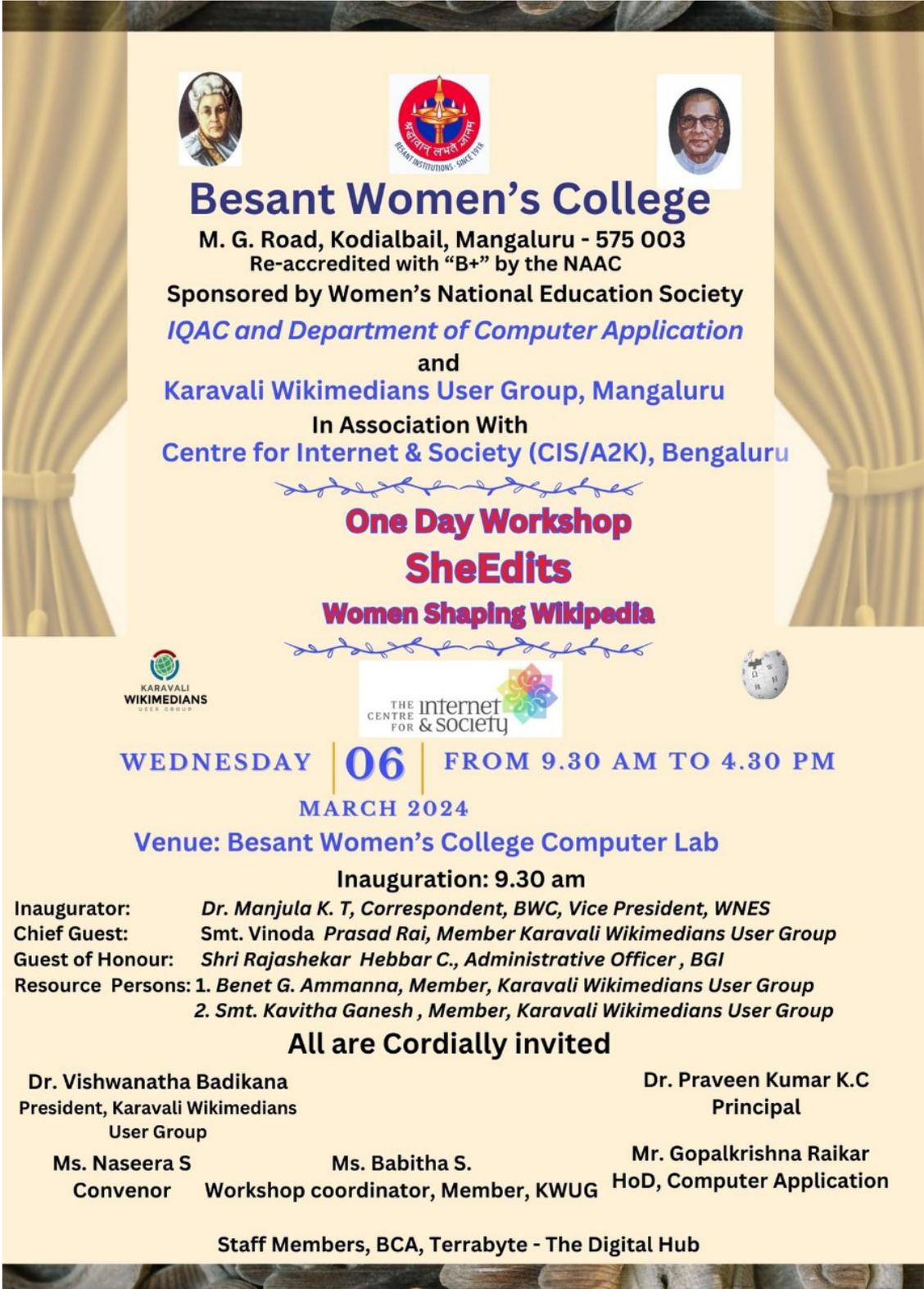


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Green Day Celebration → BCA

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Besant Women's College
M. G. Road, Kodialbail, Mangaluru - 575 003
Re-accredited with "B+" by the NAAC

Sponsored by Women's National Education Society
IQAC and Department of Computer Application
and
Karavali Wikimedians User Group, Mangaluru

In Association With
Centre for Internet & Society (CIS/A2K), Bengaluru

One Day Workshop
SheEdits
Women Shaping Wikipedia



WEDNESDAY | 06 | FROM 9.30 AM TO 4.30 PM
MARCH 2024

Venue: Besant Women's College Computer Lab

Inauguration: 9.30 am

Inaugurator: *Dr. Manjula K. T, Correspondent, BWC, Vice President, WNES*
Chief Guest: *Smt. Vinoda Prasad Rai, Member Karavali Wikimedians User Group*
Guest of Honour: *Shri Rajashekar Hebbar C., Administrative Officer, BGI*
Resource Persons: *1. Benet G. Ammanna, Member, Karavali Wikimedians User Group*
2. Smt. Kavitha Ganesh, Member, Karavali Wikimedians User Group

All are Cordially invited

Dr. Vishwanatha Badikana
President, Karavali Wikimedians
User Group

Dr. Praveen Kumar K.C
Principal

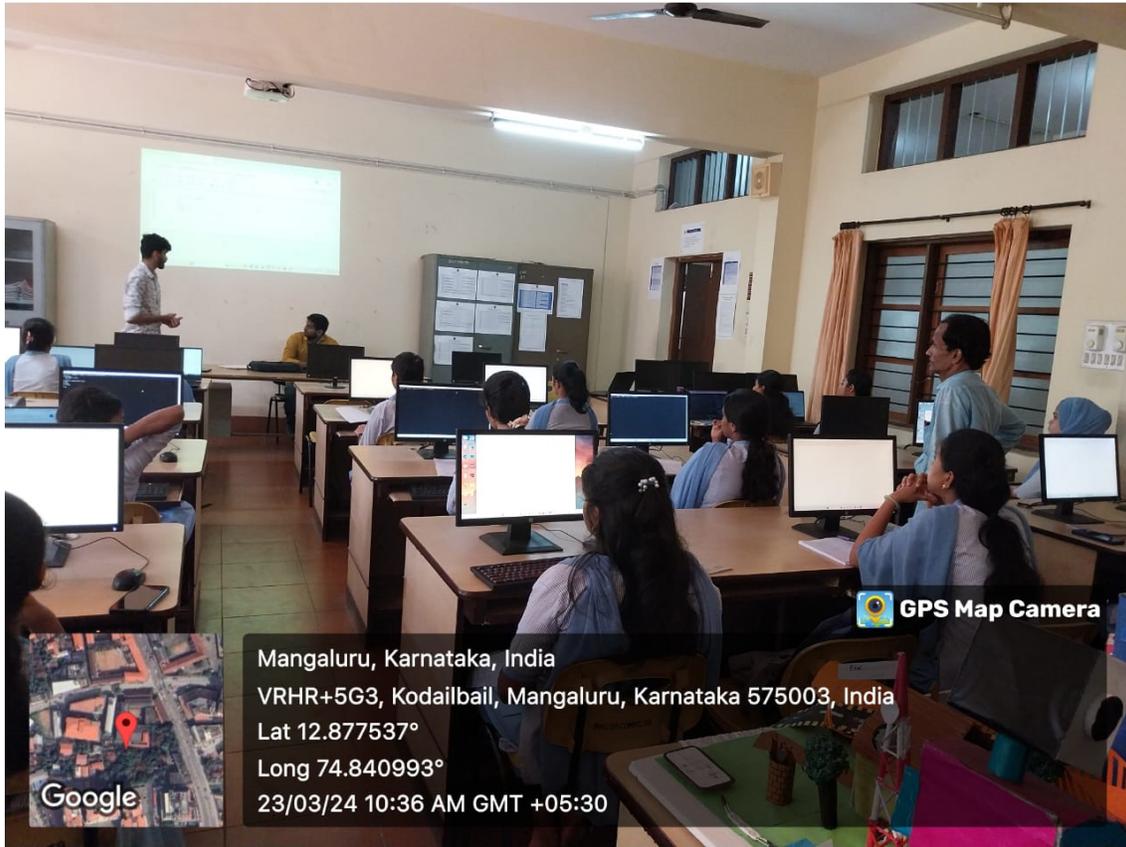
Ms. Naseera S
Convenor

Ms. Babitha S.
Workshop coordinator, Member, KWUG

Mr. Gopalkrishna Raikar
HoD, Computer Application

Staff Members, BCA, Terrabyte - The Digital Hub

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