



Atria Institute of Technology

Department of Computer Science & Engineering



April-July 2023

ABOUT US

The Department of Computer Science & Engineering was established in the year 2000. Department offers a wide array of research opportunities and programs of study at Undergraduate and Postgraduate level. The Department encourages students to gain practical skills and a strong understanding of core Computer Science areas. It has also received funding by VGST & KSCST, Government of Karnataka and Department of Science and Technology, Government of India. Faculty and students often collaborate on projects, working side-by-side with researchers from other colleges and departments across the campus. The students get to build specialist knowledge in the field of applied computer sciences with the flexibility to follow their interest through the choice of varied optional modules, courses and electives. The vibrant academic environment and a tradition of active participation in technical events by the Computer Science & Engineering Department have resulted in publications in premier conference proceedings and leading journals

VISION

To be a model center for education and higher learning to meet the computing challenges of the industrial demands, research, encourage interdisciplinary learning to meet societal needs.

MISSION

M1 - Empower the graduates with the fundamentals in design and implementation of computational systems through curriculum and research in collaboration with industries and institutes of repute.

M2 - To develop a state-of-the-art infrastructure and create ambience for education capable of interdisciplinary research and skill enhancement.

M3 - To nurture faculty who have academic and industry exposure, to impart domain knowledge and to position our students in the global IT ecosystem. **M4** - To carry out Professional Brilliance with Ethical and Moral Standards.

Activity Conducted in April 2023

3 Days SDP on “Environment and Sustainability using IoT”

A workshop on “Environment & Sustainability using IoT” was conducted from 19-04-2023 to 21-04-2023 by Professor Mamatha T & coordinators are **Prof. Krishnamurthy H** and **Prof. Sathisha G.**

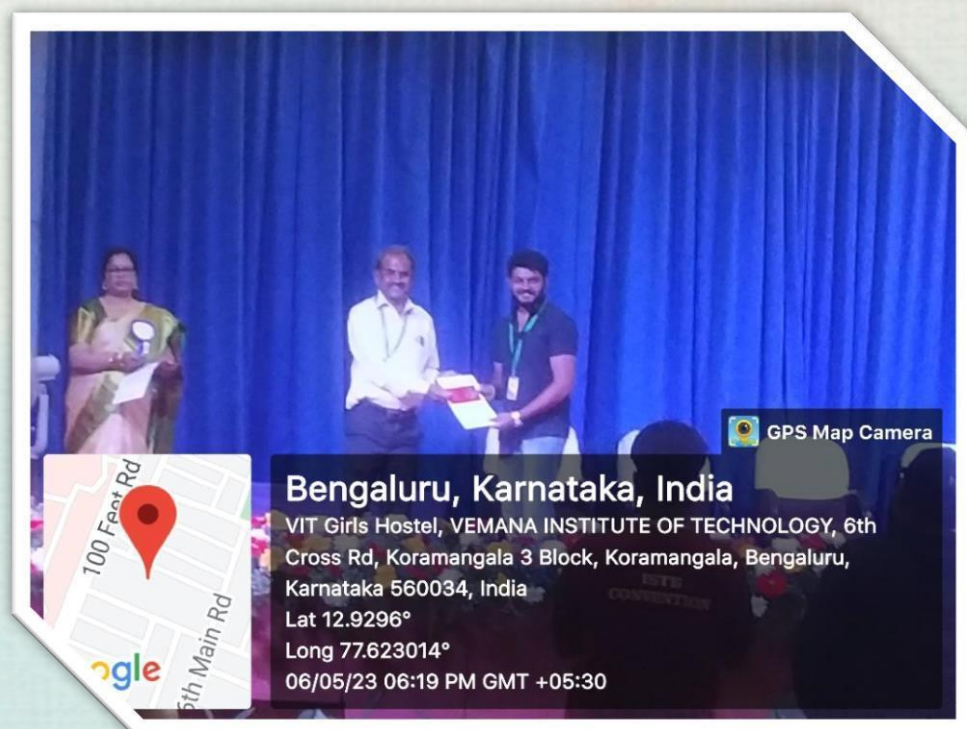
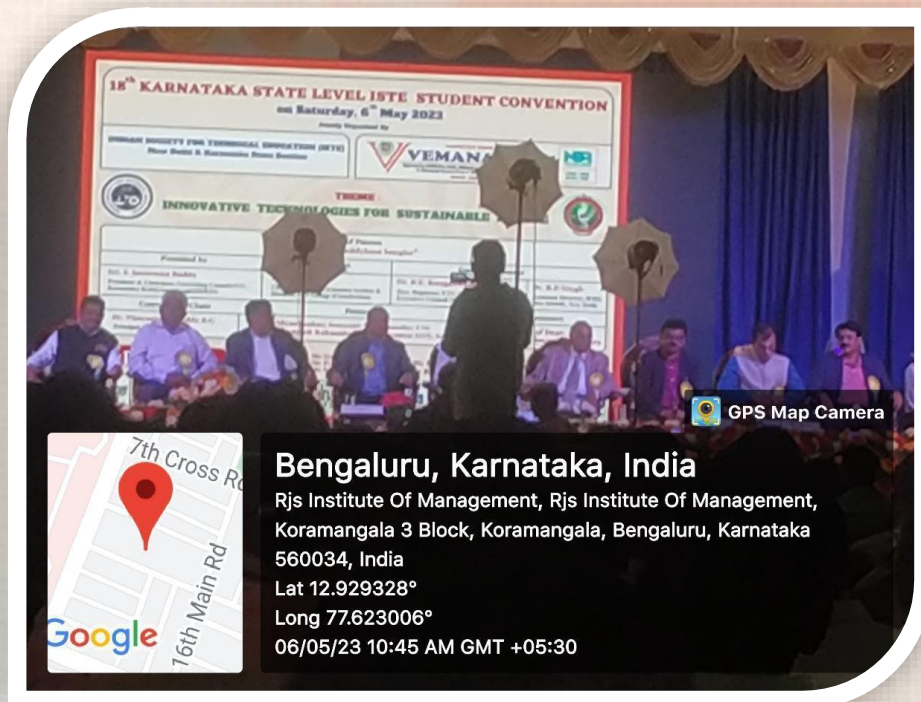


The poster features logos for ATRIA Institute of Technology, Institution's Innovation Council, Society of Technical Education (ISTE), and Department of CSSE. The text reads: "ATRIA INSTITUTE OF TECHNOLOGY Department of Computer Science & Engineering in association with ISTE Student Chapter presents 3 days SDP on 'Environment and sustainability using IoT' By Dr. Mamatha T Professor Dept. of CS & E ATRIA IT, Bangalore. Date : April 19th - 21st 2023 Venue : Seminar Hall". A circular portrait of Dr. Mamatha T is included on the left side.



18th Karnataka State Level ISTE Student Convention program at Vemana Institute of Technology, Bangalore.

The 18 state-level ISTE student convention is jointly organized and conducted by the ISTE Karnataka Section and the Vemana Institute of Technology, Bangalore, with the theme “Innovative Technologies for Sustainable Future”. The convention is to provide an opportunity for the students to showcase and share their innovative skills in addressing the pressing challenges of our times such as Healthcare, Renewable energy, Environment etc., using cutting-edge technologies.



Three Days SDP on “Artificial Intelligence with Real Time Application Projects”

Three Days SDP on “ARTIFICIAL INTELLIGENCE WITH REAL TIME APPLICATION PROJECTS” is conducted by Asst. Prof Shwetha R & Asst. Prof Keerthi K S in which speaker Mr. Mohammed Azhar Hussain, Mentor & AI Engineer, INDOSKILL has given introduction to Artificial Intelligence & Deep dive into Python Libraries.



UnTechEd

The Department of CSE has organized a “UnTechEd- Creating the value that matters” for students of 6th semester on 26-05-2023 as a part of curriculum. A brief review about the UnTechEd by Dr. Aishwarya P was given. Orientation of UnTechEd was given by Simon Anandh



Digital Marathon aspire for her in collaboration with IBM

The aim of Digital Marathon is to build professional, technical and workplace skills for jobseekers. "Aspire for Her" will enable the completion of the courses provided by IBM through its Skills Platform.

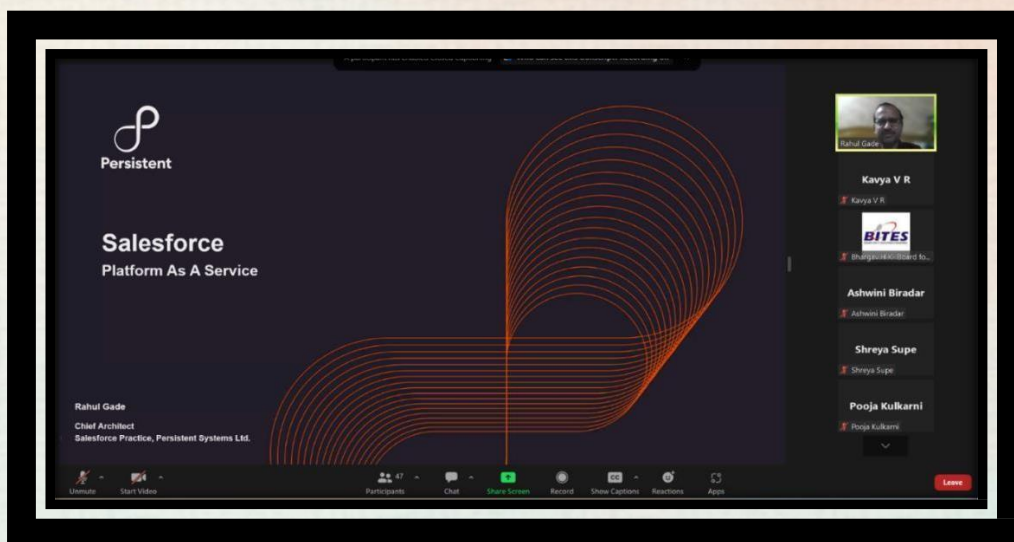


Activities Conducted in JUNE 2023

Salesforce as PaaS

Mr. Rahul Gade, Chief Architect (Salesforce Practices), Persistent Systems, Bengaluru has given an expert lecture on Salesforce as PaaS in detail.

- Cloud Services
- Salesforce Product Landscape
- Salesforce Multi Tenancy (Physical View)
- Salesforce Platform Stack (Logical View)
- Understanding CRM Concept
- Starting Business
- Sales cloud -CRM
- Communication Channel
- Conclusion



BITES Robothon 2023

BITES Robothon 2023, a Robotics & IoT Hackathon is an initiative to promote innovation, creativity and problem-solving skills among students. This hackathon will provide a platform for the engineering college students to showcase their technical skills and abilities in the field of Robotics and IoT.



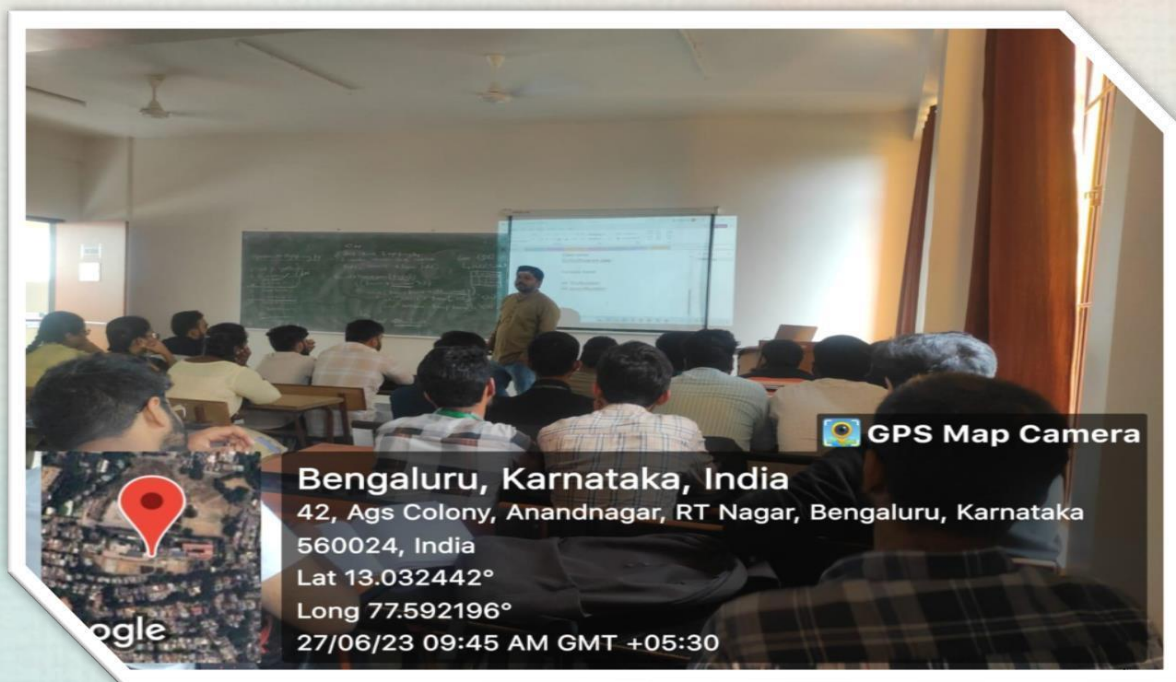
Seventh Sense placement Training

The Department of CSE has organized a placement training for the students of Computer science and Engineering from 07-06-23 to 13-06-23 as a part of curriculum from “Seventh sense”. Following are the experts for the 7 days placement training. Vinod Prabhu leads the Seventh Sense Group and manages it on a day-to-day basis. Ananth Kamath manages the Corporate Learning and Training Solutions of Seventh Sense are the experts for the placement training. Ganesh Shankar manages the Governmental Services of Seventh Sense.



3- day Training on technical skills

The Department of CSE has organized a “Three-day training on technical skills by TNS” from 23-06-23 to 27-06-2023 on Java. Training was given by Mr. Srikanth, TNS INDIA Foundation - Bengaluru September 2022 – Present <https://tnsindiafoundation>.



Hands-on Session String Pattern Matching

Hands-on Session String Pattern Matching was conducted from 25th -30th June 2023 co-ordinated by Farhana Kausar. Mr. Satya Sai- Lead at Scaler was the speaker for the session.



Index	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Input Text	A	B	A	A	B	C	A	B	A	A	B	A	B	A	E

Pattern String: A B A A B A B A

Failure Table: 0 0 1 1 2 3 2 3

(a) Mismatch at Pattern String[5]

Index	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Input Text	A	B	A	A	B	C	A	B	A	A	B	A	B	A	E

Pattern String: A B A A B A B A

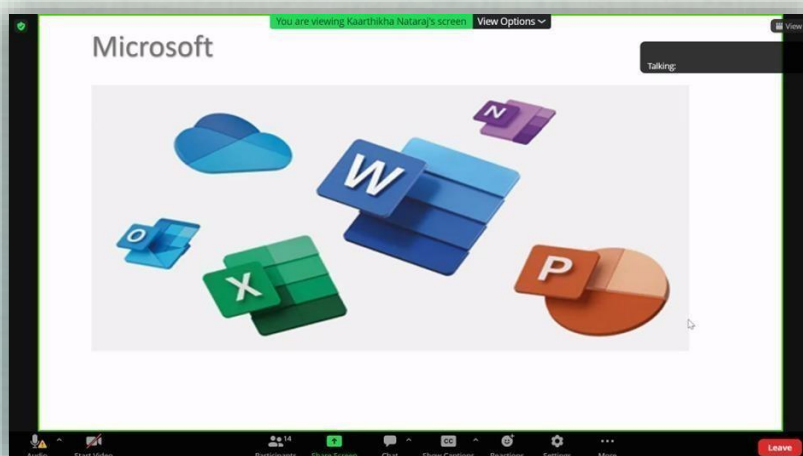
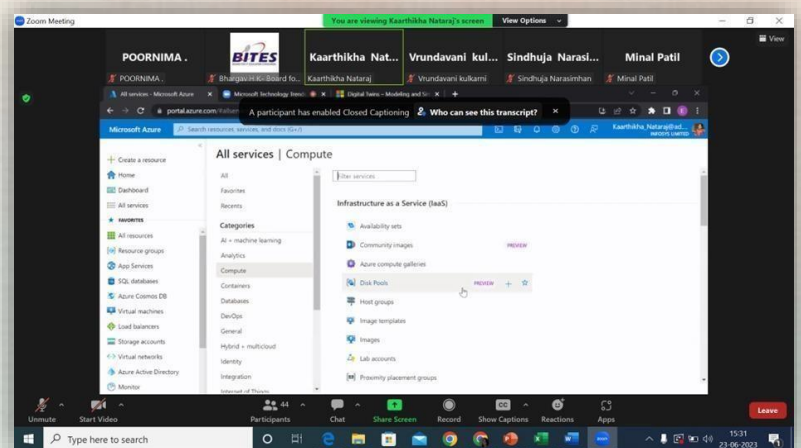
Failure Table: 0 0 1 1 2 3 2 3

(b) After mismatch at Pattern String[5]

Microsoft Technology Trends

Karthikha Natraj, Senior Principal Consultant, Learning, Infosys has given session on “Microsoft Technology Trends”. Some of the Microsoft Technology trends and platforms she discussed:

1. Net 5.
2. Machine Learning (ML) and Artificial Intelligence (AI).
3. The Internet of Things (IoT)
4. Focusing on Security.



Expert Session on “Small Satellites” by Dr R Ranganath, FIE, Ex Project Director, SPADEX, URSC

Bites Industry Visit program to the U R Rao Satellite Centre, Bangalore an Expert Session on "Small Satellites" by Dr R Ranganath, FIE, Ex Project Director, SPADEX, UPSC, is arranged.

List of activities conducted

- Inauguration.
- Expert Session on “Small Satellites” by Dr R Ranganath, FIE, Ex Project Director, SPADEX, URSC.
- Vote of Thanks followed by Lunch.
- Depart to URSC.
- Report to Reception Centre, URSC.
- URSC Visit.
- End of the Program.



OSCARS-Annual District Awards & Recognition

The Rotaract Club of Atria I.T. was honored with an outstanding club service project award for "ATRO KE KHILADI," a year-long initiative aimed at fostering team building and fellowship.



**Best Project with an External Organization-
SAFE YELLI**





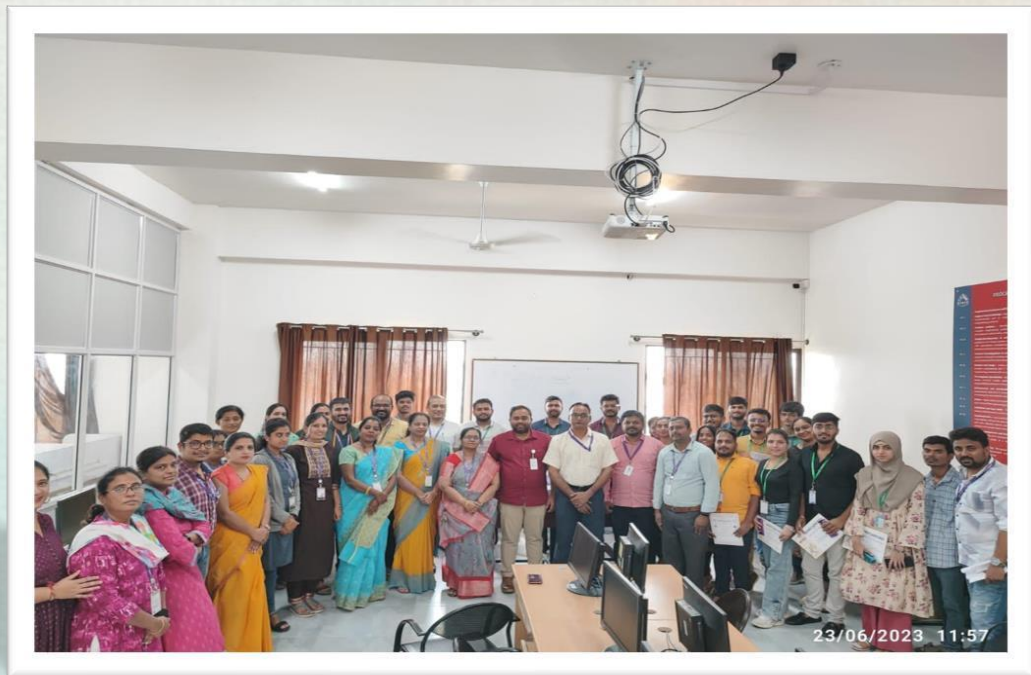
BNMIT 36 Hours Hackathon

- BNMIT has organized a 36-hour hackathon in association with IBM India. A team of three from atria CSE participated in BNMIT Hackathon and cleared first round of hackathon by submitting their idea on AI food Engine App.
- OUT of 122 Students teams participated in hackathon for first round only 22 teams got selected.
- In the selected teams our students placed in 10th rank with score of 16.32/25.



Inauguration of Capgemini Digital Academy

On 23rd June 2023 Department of Computer Science inaugurated Capgemini Digital Academy, Where Mr. Vikas, Mr. Sunil, Mr. Srikanth from TNS Company were guests for the day. Dr Aishwarya P, Principal I/C, Dr. Nalinakshi Vice principal, Dr. Shanti Mahesh HOD of Information Science, Dr. Arun Baloudi HOD of Electronics Communication and engineering were also part of the Inauguration. 114 Lenovo systems were donated by Capgemini to department of Computer Science and now which is named as “CAPGEMINI DIGITAL ACADEMY”. This lab will be used by TNS team to train the students for placement, basically for those students whose parent’s annual income is less than 5LK per Annum.



Activity Conducted in JULY 2023

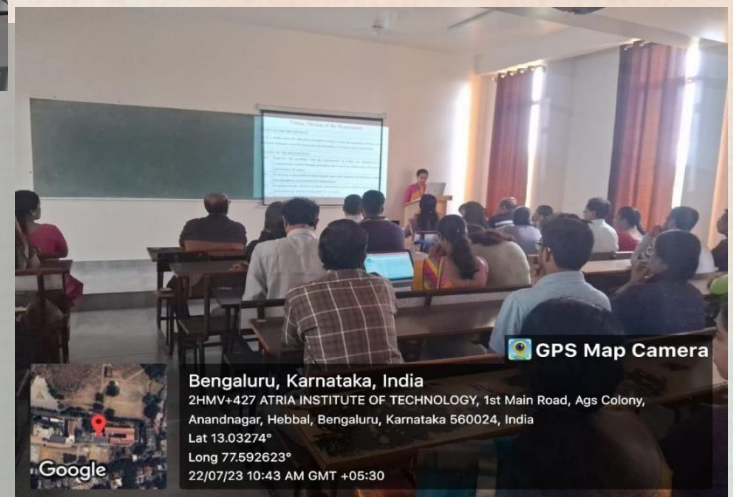
Session on Innovation Validation - “Converting Innovation into a Startup”

The session was conducted on innovation validation and the process of converting innovative ideas into successful startups by Mr. Gururaj P Kulkarni and coordinated by Prof Satisha G.



Parent Teacher Meet

The Department of Computer Science and Engineering had organized the ninth Parent-Teacher meet on Saturday, 22th July 2023. It was conducted in BC 512 in the department. The purpose behind arranging this meet was to create awareness amongst the parents of students and to about the Vision, Mission, PEOs, the various department activities of the department along with the performance of their ward at institute. The parents were also briefed regarding the various certification programs conducted in department and mentioned the achievements of students. During the session the parents were made to interact with the Class teachers and subject teacher.



Project Expo-Web Technology & its applications

- Introduction Session by Prof. Keerthi KS
- Introduction of Jury for the event
- Evaluation of Website by Jury Member
- Winners Announced with Vote of Thanks



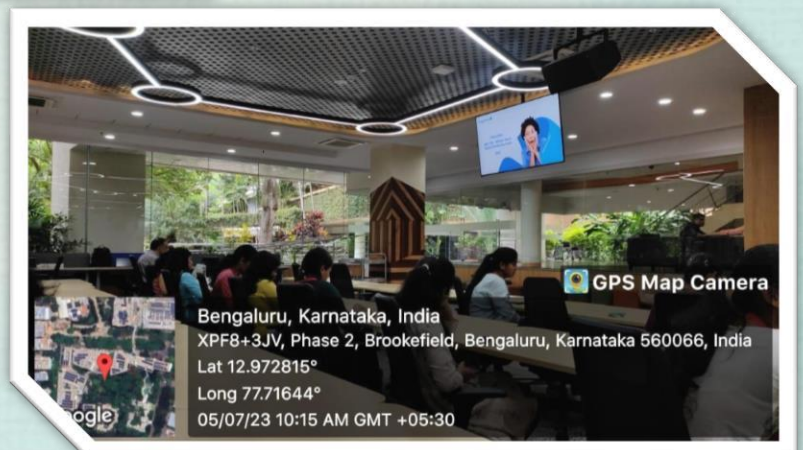
ISTE Faculty chapter presents Expert Lecture on “How to write Research Papers”

Expert lecture was delivered by Dr. Manash Sarkar on 01.07.2023 at 11:00am to 12:00pm. He explained what is research, Step-by-step approach for starting and completing a research paper, Types of Research Papers, Essential components of the research, Essential components of the research, Basic steps for Survey Paper, Selecting the representative papers, Creating an Abstract.



Capgemini Industrial visit on 5th July 2023

The Department of CSE is organized a “Industrial visit to Capgemini” on 05-07-23. All the students got an opportunity to meet Capgemini leaders. The leaders of Capgemini shared their journey, experience in industry and about the work culture in IT industries.





Expert session on Satellites and their Applications and the URSC visit

Session Name Expert session on Satellites and their Applications and the URSC visit-2023 was organized by BITES.

Dr. R Ranganath covers the following topics in his session:

- i) Introduction to earth's atmosphere.
- ii) Space Environment
- iii) Satellite
- iv) Satellites Applications
- v) Ground Segment Support for Spacecraft Operations

After that all the faculty went to U R Rao Satellite Centre for the visit where we witness the launch of Chandrayaan-3 LVM3. Ms. Deepti & Mr. Srinivas of the U R Rao center gives the brief about the institution, its different levels & told about the Chandrayaan-3.



Cipher-Battle 2.0

(A 24-Hour State level Technical/Hackathon competition)

A cipher battle2.0 was organized by Eunoia labs & coral academy of learning management hosted by C.I.T.

- i) Inauguration & Motivation speech by Chief Guest
- ii) AWS Quiz conducted by ISTE
- iii) Students Starts the Hackathon Competition
- iv) Announcement of Results
- v) Vote of Thanks

Three batches comprising 12 students are selected from Atria to participate in this coding competition. Likhita and Anoop from 2nd Sem Computer Science and Design, Won 2nd place in AWS quiz in Cipher Battle 2.0 @ CIT, Tumkur - State level hackathon. Our student team won second place in the hackathon. A total of 60 teams participated in the hackathon comprising 262 students.

