

NEWSLETTER

JULY - DEC 24

DEPARTMENT OF INFORMATION TECHNOLOGY

ABOUT

The Information Technology Department was started in the year 2001 with an intake of 60. Since from 2001 the department has grown in terms of infrastructure, teaching learning process and qualified staff. The Department has well qualified and experienced faculty, well equipped laboratories, classrooms and other facilities for imparting the state of the art course contents and educational experience.

Principal's Desk

I would like to congratulate all the faculties and students for publishing their departmental newsletter. Since 2001, the department has grown in terms of infrastructure, teaching learning process and qualified staff. I give my good wishes to the whole Department of Information Technology for their future ventures. Appreciating the achievements inspires the students to participate and develop confidence for their future endeavors. Once again, I wish everyone all the very best.



Prof. Dr. A. M. Mahalle
Principal,
Government College of Engineering,
Amravati

Head's Desk

The Department of Information Technology is publishing its newsletter which would contain all the events, departmental, students' and faculty achievements. The Information Technology Department was started in the year 2001. The Department has well qualified and experienced faculty, well equipped laboratories, classrooms and other facilities for imparting the state of the art course contents and educational experience. Our students work in world class multinational organizations that are private and public sectors units.



Prof. A. W. Bhade
Head,
Department of Information Technology,
GCoE, Amravati

Faculty and Staff of IT



Faculty Co-ordinator

Prof. R. S. Mawale

Editorial Team

Yash Pardhi
Shraddhey Dukare
Astha Kokate
Kanak Rahangdale

Sumer Pathan
Asmita Todase
Neha More
Mihir Jain

Insights on Smart India Hackathon

The Department of Information Technology, GCoE Amravati, organized an online session on "Insights on Smart India Hackathon (SIH)" under IIC on August 30, 2024. The session featured expert faculty Prof. A.W. Bhade (Head, IT) and distinguished alumna Prof. Vaishali Deshmukh, who shared insights on SIH 2024, focusing on effective problem statement selection, use case diagrams, and PPT documentation. Hosted by Miss Gauri Gadgil, the session saw enthusiastic participation from over 80 second and third-year B.Tech IT students.



GOVERNMENT COLLEGE OF ENGINEERING, AMRAVATI
DEPARTMENT OF INFORMATION TECHNOLOGY

PRESENTS SESSION ON
INSIGHTS ON SMART INDIA HACKATHON
under 'Structured Mentoring'

Date: 30/08/2024
Time: 2:00 - 3:00 PM
Mode: Online

Resource Person:
Prof. Vaishali Gaidhane
Assistant Professor at
Datta Meghe College of Engineering,
Navi Mumbai
Prof. A. W. Bhade
Head of IT Department,
GCoE, Amravati

Contents of the session:
• How to choose topic for SIH
• Exploring more about SIH (Smart India Hackathon)

For 2nd and 3rd year B.Tech IT Students
Join the session to get the exact guidance for the Smart India Hackathon!
Don't miss the chance...
GET READY WITH YOUR QUERIES !!
Link will be shared before time ...

Skill Development Program



देशोन्नती

शासकीय अभियांत्रिकी महाविद्यालयात 'स्टुडेंट डेव्हलपमेंट' प्रोग्राम

प्रत्येक वर्षा माध्यमस्तराच्या संकल्पनेने महत्त्व पटवून देण्यासाठी हा स्टुडेंट डेव्हलपमेंट प्रोग्राम आयोजित करण्यात आला होता. यासाठी विद्यार्थ्यांनी प्रामुख्याने आयडिओमॅरील स्मार्ट लाईट सिस्टीम, होमऑटोमेशन, स्मार्ट इरिगेशन सिस्टीम या तंत्रज्ञानाचा अभ्यास व प्रायोगिक केले.

प्रशिक्षण कार्यक्रमाचा ८९ उपाधी प्रशिक्षणाधीनी सक्रिय सहभाग घेतला. महाविद्यालयाचे प्राचार्य डॉ. अश्विष महले, यांनी सन्मान कॅपिटेशन, विभागाध्यक्ष प्रा. अर्चना भडे, डॉ. प्रेमचंद अंबहोरे, डॉ. के. एन. तायदे व प्रा. अर्चना अंबहोरे यांनी सन्मानक म्हणून काम पावले. लक्ष विद्यार्थ्यांमधून कु. गौरी माहनीक व आर्युष अमाते यांनी विद्यार्थी प्रतिनिधी म्हणून काम केले.

देशोन्नती पुरस्काराने
अमरावती : संस्थेच्या शिक्षक माहुरीकरी निर्मित संस्थेच्या आयोजित करण्यात आलेल्या विविध कार्यक्रमांच्या माहिती व तंत्रज्ञान विभागात विद्यार्थी कौशल्य विकाससंदर्भात २३ ऑक्टोबर ते २५ ऑक्टोबर २०२४ या कालावधीत 'अभियोजन ऑन आयडिओमॅरील स्मार्ट लाईट सिस्टीम' या कार्यक्रमाचे आयोजन करण्यात आले. या कार्यक्रमात शासकीय अभियांत्रिकी महाविद्यालय, अमरावती, विरम अभियांत्रिकी महाविद्यालय, राम मेठे अभियांत्रिकी महाविद्यालय व शासकीय अभियांत्रिकी महाविद्यालय अमरावती येथील विद्यार्थ्यांनी सहभाग घेतला.

प्रशिक्षणासाठी इजिप्शियर असकृमर मोदरा, एमएस येथील लक्ष बोलायला आले होते. माहिती तंत्रज्ञान अभियांत्रिकी

A Skill Development Program was conducted at GCoE Amravati, offering students hands-on experience with emerging IoT technologies like smart lighting, home automation, and smart irrigation systems. Guided by Engg. Ajaykumar Godra, the session was highly interactive and practical. Students from GCoE Amravati, Sipna COET, PRMITR, and Government Polytechnic, Amravati actively participated. The event was successfully held under the guidance of Prof. Archana Bhade, Dr. Premchand Ambhore, Dr. K.N. Tayde, and Prof. Archana Ambhore.

Preparation Aspects for Smart India Hackathon & Innovation Competitions



Government College of Engineering, Amravati
(An Autonomous Institute of Government of Maharashtra)

Department of Information Technology
Presents Session on
PREPARATION ASPECTS FOR SMART INDIA HACKATHON & INNOVATION COMPETITIONS

Resource Person:
Dr. Madhuri A. Tayal
Associate Professor & HoD,
Data Science Department, GHRCEM, Nagpur

Moderator of Session:
Dr. Shantanu A. Lohi
Co-convenor IIC, GCoEA
Incharge Research & Innovations, Dept. of IT

Agenda for the Session:
• How to effectively prepare and participate in the Smart India Hackathon competition
• Exploring more about Innovation Competitions and expectations from the students

• Date : 03/09/2024
• Time : 04:00 PM Onwards
• Mode : Online

An expert session on Smart India Hackathon (SIH) 2024 was conducted at GCoE Amravati, featuring Dr. Madhuri Tayal, Associate Professor and HoD, Data Science Department, GHRCEM, Nagpur. The session was moderated by Dr. S.A. Lohi.

Dr. Tayal provided an overview of SIH 2024, covering problem statement selection, internal hackathon process, guidelines, and team formation. She discussed various problem statements with participants. Around 110 students from all branches actively participated, making the session informative and engaging.



ITSA ORIENTATION SESSION

An Orientation session especially for First Year IT Students was successfully conducted on 17th October 2024 at IT-120 for guiding Freshers in regards to various Technical and Non Technical Events and Activities under our college. This interactive session ended with a Q&A session wherein seniors attended to the doubts of their juniors.



ACCENTURE INNOVATION CHALLENGE 2024 BOOTCAMP

The Information Technology Students' Association (ITSA) and Institute Innovation Council (IIC) of GCoE Amravati, in collaboration with Accenture Technologies, organized the Accenture Innovation Challenge 2024 Bootcamp on September 27, 2024, at 3:00 PM in online mode. The bootcamp offered expert guidance, strategies, and insights to help students prepare for the competition, improve problem-solving skills, and boost their chances of securing PPOs. All participants received certificates from Accenture, enhancing their academic and professional profiles.



WORKSHOP ON ADVANCEMENTS IN WEB DEVELOPMENT

On September 26, 2024, the Information Technology Students' Association (ITSA) organized a workshop on "Advancements in Web Development" in Room IT-120 at 3:00 PM. Conducted by final-year IT student Durgesh Firake, the session introduced students to modern web technologies, tools, and frameworks. It emphasized the shift from traditional to advanced web development, focusing on efficiency, scalability, and user experience. The workshop helped students stay aligned with current industry trends in the rapidly evolving digital world.



ZENITH : CULTURAL FEST

Runners up in Departmental Dance in Zenith 2k24-25

Departmental Dance is one of the most celebrated events of Zenith, where departments compete with vibrant performances showcasing teamwork and coordination. It offers dance enthusiasts a platform to display their talent and gain valuable experience. Thanks to the dedication of our coordinator Kashmira Ingole, co-coordinator Shrenika Mhala, and participants—Sakshi Kamble, Mayuri Chobitkar, Ashlesha Mohod, Gunjan Tehare, Gauri Bharambe, Sakshi Jirapure, Manvi Gupta, Janhvi Bhoyar, Mrunali Kurzekar, Ishwari Kusumbe, Tanvi Ande, Anushka Nagrale, Pratik Dhobale, Rohit Gaikwad, Ishan Jaiswal, and Harshal Bobade—our department secured the 1st runner-up position.



Runners up in Departmental Drama in Zenith 2k24

Departmental Drama is an auspicious and renowned event held in Zenith where all the departments compete against each other and portray their acting skills and performing arts. In this event, the teams from all the departments opt an interesting and noteworthy topic and perform drama about the same. The participants try to reach the audience and voice their subjects throughout by maintaining a balance between solemn and humor. Because of the constant efforts and perseverance of our Coordinator Miss. Ishwari Burghate and Co-coordinator Miss. Vaishnavi Bayaskar along with the participants.. we were able to give an excellent performance and excel the event and hence secured 1st runner up position in it



KALPANA CHAWLA TROPHY

Winner in Chess (Boys) in KCT 2k24

Shurud Acharya from 3rd year IT was Winner in chess in KCT 2023-24.



Winners in Tug of war (girls) in KCT 2k24

"The girls' tug of war team, led by Sampda Patmase, includes talented players like guari bharambe, sakshi jirapure, manvi Gupta, Sampda Patmase, Vaishnavi khaire, Tanvi ande, Payoshni vinchurkar, Vaishnavi Bayskar, Ashlesha Mohod. With teamwork and passion, they dominated the field and secured first rank for the IT department"

Winners in Tug of War (boys) in KCT 2k24

The Tug of War boys' team secured the first place with their remarkable performance. The team comprised dedicated members: Aayush Agashe, Abhishek Chauhan, Vivek Sawai, Aniket Kumare, Piyush Belwe, Vedant Dhobale, Parneel, Asim Sayyad, and Shashank. Their unwavering determination and teamwork made them an unstoppable force.

Winner in Football in KCT 2k24

"Led by Heramb Jawanjal (Captain), the football team showcased exceptional skill, teamwork, and determination on the field. The squad, featuring Om Kawale, Aniket Kumare, Anirudha Hadekar, Yash Pardhi, Vedant Dhobale, Soham Chawlewar, Krishna Verma, Nishikant Sonone, Sumit Katwate, Sarthak Ghugal, Harshal, and Abdul Abdullah, played with passion and strategy, securing a remarkable performance .



Player of the Tournament:
Om Kawale, IV year

Best Goalkeeper:
Aniket Kumare, IV year



Winner in Carrom(boys) in KCT 2k24

"The boys' team exhibited outstanding skill and coordination in Carrom, claiming a strong rank through determination and teamwork. Under the leadership of Mithilesh Porate (Captain), the squad featured Yogesh Nagbhidkar, Shubham Mahajan, Yash Sontakke, Anil Gedam, Aman Dongare, and Om Sawarkar. Their strategic play and confidence ensured a proud victory for the department!"



Winner in Carrom(girls) in KCT 2k24

"In the indoor game of Carrom, the girls' team played with precision and confidence, securing a remarkable rank. Led by Syeda Umaina Fatema (Captain), the team included Ruchika Sonone, Sakshi Kamble, Shreya Wankhade, Prachi Kichambare, and Vaishnavi Khaire. Their sharp focus, strategic moves, and teamwork brought them well-deserved success!"



Winners in Cricket (girls) in KCT 2k24

"The girls' cricket team, led by Sampda Patmase, includes talented players like Komal Kale, Manvi Gupta, Sejal Waghmare, Vaishnavi Khaire, Ruchika Sonone, Sakshi Kamble, Mayuri Chobitkar, Tanvi Ande, Shreya Take, Apurva Awate, and Vaishnavi Bayskar. With teamwork and passion, they dominated the field!"



Best Batsman:
Ruchika Sonone, II year

ICAESD 2024-25

International Conference on Applications of Engineering for Sustainable Development (ICAESD 2024)

The International Conference on Applications of Engineering for Sustainable Development (ICAESD 2024) was successfully organized at Government College of Engineering, Amravati on December 20-21, 2024, under the theme "Transforming Engineering for a Sustainable Future." The event aimed to promote sustainable innovation and responsible engineering among students, researchers, and professionals. Distinguished speakers included Dr. Chandra Sekhar Yerramalli (IIT Bombay), Mr. Arvind Kumar (TCS Nagpur), and Dr. Sachin Mandavgane, Chairman, Board of Governance, GCoEA.



The IT Department played an active and commendable role in the conference. Prof. A. P. Ambhore served as the Coordinator for the IT Department, leading the planning and execution of departmental sessions and ensuring impactful participation. Prof. P. B. Ambhore significantly contributed as the Session Chair Coordinator and Reviewer for IT tracks, ensuring high-quality paper reviews and smooth session management.

Their dedicated efforts greatly enhanced the visibility and academic strength of the IT Department in the conference, making ICAESD 2024 a valuable experience for all involved.



ICAESD 2024 inauguration at Information technology Department at IT - 120.



RESEARCH PAPERS BY DEPARTMENT'S FACULTIES AND STUDENTS IN ICAESD

Sr. No	Research Title	Authors
1	Enhancing Alzheimer's Patient Care with an Automated Wearable Assistance Device based on AI and IoT	Krishna S. Borakhade, Sachin Jain, Archana W. Bhade, Shantanu A. Lohi, Dilip R. Uike
2	Implementation of Secure Framework for Cloud-Based IoT Network Using Machine Learning Approach and Lightweight Cryptography	Archana D. Wankhade, Kishor P. Wagh
3	Analysis of Deep Learning Methodologies for Disease Prediction	Dilip R. Uike, Kishor P. Wagh
4	Optimizing Privacy and Quality of Service in Fog Computing for IoMT using Blockchain and Advanced Optimization Techniques	Rohan G. Belsare, P.B. Ambhore, P.N. Chahu, A.V. Deorankar
5	A Survey on Recent Advances in Spatio-Temporal Co-Location Pattern Mining	Swati Meshram, Kishor P. Wagh
6	Realtime Post Estimation using AI	J.A. Lohi, Sumit S. Rathwate, Om M. Ladole, Ishwari D. Kusumbe, Krishija S. Taminkar
7	Machine Learning-Based Spam Filter for GitHub Repository Issues	Dugesh Firake, Bhushan Wakode
8	Sharding Enabled Blockchain with Bio-Inspired Secret Sharing & Selective Encryption Model for Ownership Transfer Optimization to Provide Enhanced Security	Himanshu V. Taiwade, Premchand B. Ambhore
9	Analyzing NCC Cadet Experiences and Aspirations: A Data-Driven Study for Proposed Effective Management through Machine Learning	Omesh Shukla, Vaishnavi Tikar, Shantanu A. Lohi

FACULTY ACHIEVEMENTS

PROF. ARCHANA BHADRE

- Published the research paper "Examining ADNI Image Dataset Preprocessing Techniques to Identify Alzheimer's Disease" at CIS 2024 – 5th Congress on Intelligent Systems, held in September 2024. The study focuses on evaluating preprocessing methods to improve Alzheimer's disease identification using the ADNI dataset.
- Published the research paper "Enhancing Alzheimer's Patient Care with an Automated Wearable Assistance Device based on AI and IoT" at ICAESD 2024 – International Conference on Applications of Engineering for Sustainable Development, held in December 2024. The research presents an AI and IoT-enabled wearable device aimed at enhancing care for Alzheimer's patients.

PROF. PREMCHAND AMBHORE

- Received Best Faculty Award from the Computer Society of India in August 2024.
- Granted a National Design Patent for the work titled "A Security Aware Content Based Image Retrieval System Using Lightweight Trapdoor Verification in Cloud Environment" (Design No. 202421045902) on 19 July 2024.
- Published a research paper titled "A Novel Security Aware Approach in Content Based Image Retrieval System using Trapdoor Verification for Cloud Environment" in the International Journal of Intelligent Systems and Applications in Engineering, Vol. 11(10s), 2024, pp. 84–93. [Scopus Author Profile](#)
- Served as Technical Board Member for the 3rd IEEE World Conference on Applied Intelligence and Computing (AIC 2024) held on July 27–28, 2024.
- Served as Program Committee Member and Reviewer for the 2nd International Conference on Artificial Intelligence: Theory and Application (AITA 2024) held on August 9–10, 2024.
- Served as Program Committee Member and Reviewer for the 3rd International Conference on Advances in Data-driven Computing and Intelligent System (ADCIS 2024) held on September 20–21, 2024.
- Served as Program Committee Member and Reviewer for the 4th International Conference on Computer Vision and Robotics (CVR 2024) at SSPU Pune, held on May 25–26, 2024.
- Served as Session Chair Coordinator and Reviewer for the 1st International Conference on Applications of Engineering for Sustainable Development (ICAESD 2024) at GCoE Amravati, held on December 20–21, 2024.
- Served as Program Committee Member for the 3rd International Conference on Artificial Intelligence and Data Science (ICAIDS 2024) held in Bengaluru on November 29–30, 2024.
- Served as Program Committee Member for the 4th International Conference on Evolutionary Computing and Mobile Sustainable Network held on November 28–29, 2024.

PROF. SEEMA WANKHADE

- Published patent on model for estimation of soil property using Deep Learning

PROF. ARCHANA AMBHORE

- Here is the updated pointwise summary of Prof. Archana P. Ambhore's achievements with one additional point:
- Received the Industry Academia Award at the CSI-TechNext India 2024 conference, held on August 30–31, 2024, at Nerul, Navi Mumbai, organized by the CSI-Mumbai Chapter.
- Guided a student project group that won the "Best Student Project" award at CSI-TechNext India 2024.
- Project Group Members: Shivendoo Deshmukh, Prem Satpaise, Heramb Jawanjai, Laxmi Thawkar.
- Presented and published the research paper "Implementation of Secure Framework for Cloud Based IoT Network Using Machine Learning Approach and Lightweight Cryptography" at ICAESD 2024, held on December 20–21, 2024. The paper is published in the Indian Journal of Technical Education (IJTE), UGC Indexed, Volume 48, Special Issue No. 1, February 2025.
- Worked as Coordinator for organizing a Student Development Program on "Applications of IoT & Predictive Analytics", conducted from October 23 to 25, 2024.
- Contributed to academic excellence by actively mentoring students in research and innovation, promoting industry-oriented learning and practical application.

STUDENT'S ACHIEVEMENTS

Sr.no.	Name	Year	Achievement
1.	Suhrud Acharya	3rd	Gold Medal : West Zone Inter University Chess Championship 2025.
2.	Mithilesh Porate	4th	Campus Ambassador - IIT Bombay (E-CELL) AICTE parakh Third year Coordinator under Diamond Jubilee Series Program
3.	Sharvari Sonukale	3rd	Published two research paper in IJTE-UCG Care on project SMRUTIPANKH
4.	YASH PARDHI	3rd	Joint Secretary of football, Student Council Core Member
5.	Samruddhi Sahatpure	4th	Diamond Jubilee student coordinator GCOEA. Unstop Student Coordinator GCOEA.
7.	Krishna Borakhade	3rd	Presented Research Paper as Author at ICAESD conference
8.	Devesh Patil	3rd	Presented Research Paper as Author at ICAESD conference
9.	Janvi Bhoyar	3rd	Presented Research Paper as Author at ICAESD conference
10.	Om Sawarkar	3rd	Runner up Departmental drama

