Government College Of Engineering, Amravati
(An Autonomous Institute Of Government Of Maharashtra)
"Towards Global Technological Excellence"

NEWSLETTER

JAN -JUNE 24

शासकीयअभियांत्रिकी महाविद्यालय
अमरावती
●महाराष्ट्र शासनाची स्वायत्त संस्था●

INFORMATION

TECHNOLOGY

I.T.S.A

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 .

https://www.gcoea.ac.in/   https://www.instagram.com/itsa

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

Dr. S. A. Lohi

Editorial Team

Durgesh Firake
Vaishnavi Lande
Piyush Nandardhane

Sampda Patmase
Shreya Pandharikar
Chinmay Nawghare
Shravani Bhoyar

SESSION ON DOCKER

2 March 2024

The Hands-on Docker session, organized by 3rd-year students Shivendoo Deshmukh and Durgesh Firake under the IT Student Association (ITSA), provided a concise overview of Docker basics. Starting with Docker installation, the session delved into Dockerfile creation for custom image building. Participants were introduced to Docker Compose for managing multi-container apps efficiently. Practical exercises covered image customization and pushing modified versions to Docker Hub. Emphasizing Docker's role in modern software development, the session equipped participants with essential Docker skills for real-world applications.

Session taken by Shivendoo Deshmukh and Durgesh Firake(3rd yr IT)

EXPERT LECTURE ON PATENT DESIGN AND INTELLECTUAL PROPERTY RIGHTS
BY DR. BHARAT SURYAWANSHI

19 March 2024

Organized under the guidance of Faculty Incharge Prof. A. W. Bhade and Prof. H. P. Rewatkat, the session attracted a diverse audience of students and faculty members. Dr. Suryawanshi, an experienced expert, highlighted the importance of protecting innovative ideas and outlined the patenting process. His engaging presentation inspired attendees to explore their inventive potential while gaining a deeper understanding of patent laws. Overall, the event provided valuable insights into intellectual property rights and left a lasting impression on participants.

OVERVIEW OF NLP AND GENERATIVE AI

On 8th February 2024, the Department of Information Technology organized a workshop on NLP and Generative AI, led by Dr. Amol Bhopale from IIIT Nagpur. Dr. Bhopale introduced NLP concepts, explaining how computers understand human language and discussing applications such as sentiment analysis and language translation. He also covered Generative AI, demonstrating AI-generated text. The workshop featured practical exercises with NLP tools, and attendees appreciated Dr. Bhopale's ability to simplify complex ideas.
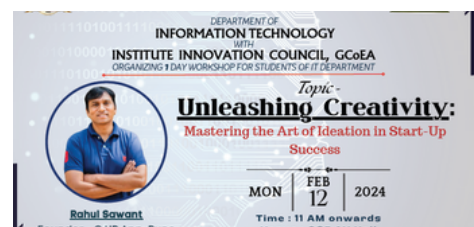

UNVEILING THE LAYERS OF DEEP LEARNING

On 9th February 2024, the Department of Information Technology at Government College of Engineering, Amravati, hosted a deep learning workshop led by Mr. Raghav Bajaj, an Analyst at LuckyCX. Mr. Bajaj explained deep learning and neural networks in simple terms, covering their structure and functionality. The workshop included hands-on activities demonstrating neural networks in action. Attendees appreciated Mr. Bajaj's clear and accessible explanations of complex topics.
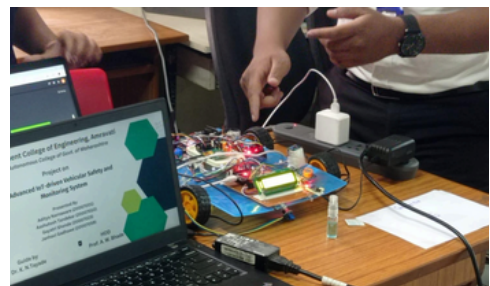
MASTERING THE ART OF IDEATION IN STARTUP SUCCESS

On 12th February 2024, Mr. Sahul Sawant, founder of Q UP App, Pune, conducted a workshop for IT students at Government College of Engineering, Amravati. He explained the Indian startup ecosystem, emphasized idea development, and provided feedback on students' startup concepts. The session offered valuable insights and boosted students' confidence in navigating entrepreneurial challenges.

PROJECT AND POSTER PRESENTATION COMPETITION

On May 6, 2024, the IT Department hosted a Project and Poster Presentation Competition under the aegis of the Institution of Engineers (India) and the Indian Society for Technical Education (ISTE). The event aimed to cultivate a competitive spirit among students while enhancing their project development skills. A total of 71 attendees participated, including 18 student groups who presented their innovative mini projects. The projects were evaluated by a panel of judges based on creativity, technical depth, and practical applicability. Team ForestNet, mentored by Prof. A. P. Ambhore, secured the first place, followed by Team Cloud Bytes and The Solutioneers in second and third places, respectively. The competition was well-received, with judges praising the participants' technical expertise and creativity. Students appreciated the opportunity to receive feedback from experienced faculty, which contributed to their professional growth. The event successfully provided a platform for students to showcase their skills and reinforced the importance of practical experience in technical education.

PROJECT EXHIBITION

On May 7, 2024, the Department of Information Technology, under the IE & ISTE Students Chapter at the Government College of Engineering, Amravati (GCOEA), successfully organized a Project Exhibition showcasing the innovative projects of final-year IT students. The event provided a platform for 60 students to demonstrate their technical skills, creativity, and problem-solving abilities. With over 200 attendees, including faculty and visitors, the exhibition fostered an interactive environment where students received valuable feedback on their projects. Faculty members praised the quality and diversity of the work, noting its practical applications and potential real-world impact. The event was a resounding success, encouraging students to pursue further excellence in their academic and professional endeavours.

Zenith Cultural Fest

Departmental Dance in Zenith 2k24 - Runner Up

Participants:
Ishwari Kusumbe(cordinator), Gauri Bharambe(co-cordinator), Janvi Bhoyar, Kashmira Ingole, Sakshi Daberao, Kshitija Jaminkar, Sakshi Kamble, Mrunali Kurzekar, Gauri Ambuskar, Aditi Kawade, Shrenika Mhala, Yash Gupta, Piyush Nimbokar, Pratik Dhobale, Yash Ingle , Pratiksha Dethe

Departmental Drama in Zenith 2k24

Drama: MELGHAT

Participants:
Samruddhi Sahatpure, Aalhad Tawlare, Kabir Pakhale, Rajshree Gudekar, Anuja Bhele, Shruti Tagde, Yashshree Sanghani, Vaishnavi Baiskar, Soham Aswar, Niraj Ingole, Swanand Hatwar, Shradheya Dukare, Aman Dongre, Uday Fating, Hardik Nimbarte

Sugam Sangeet - Winner

Gauri Gadgil
2nd Year, IT

Non Departmental Dance 1st Runner Up

Kashmira Ingole
1st Year, IT

Mr. Persona

Yash Gupta
3rd Year, IT

Kalpana Chawla Trophy

Runner Up in Carrom (Boys) in KCT 2k24

Players:
Mithilesh Porate (Captain),
Shubham Mahajan,
Yash Sontakke ,Yash Gupta,
Yogesh Nagbhidkar,Tejas Tighare,
Kshitij Telang, Amit Jangale, Om
Sawarkar

Winner in Chess in KCT 2k24

Suhrud Acharya (2nd year IT)

Man of the Match:
Kshitij Telang

Girls Criket Team
Qualified for semi finals

Winner in Volleyball in KCT 2k24

Players:
Yogesh Nagbhidkar, Sanket Bodhe,
Sujal Gulhane,Anurag Matode,
Vedant Dhobale, Nakul Kore, Pranav
Alspure, Arun Ghughlot, Yash Pardhi,
Dipak Amzare, Siddhant Ingole,
Chinmay Nawghare

Best smasher award in 2023 and 2024.
Yogesh Nagbhidkar, 2nd Year IT

Two events namely **Capture The Flag(CTF)** and **Vortex Strike** were organized under the Department of Information Technology under the guidance of Prajwalan co-ordinators Prof. B.V. Wakode and Prof. S.R. Wankhade .

Capture The Flag (CTF)

12 March 2024

The ultimate test of cybersecurity skills for individual participants! In this exhilarating competition, participants will navigate through a series of challenges designed to simulate real-world cybersecurity scenarios.

Objective: Find and capture hidden "flags" within each challenge using a variety of techniques including cryptography, reverse engineering, web exploitation, forensics, and more.
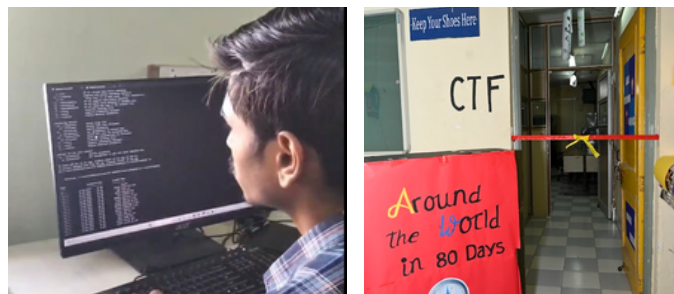
Winner :
Rishabh R.Gadpal(GCOEA)
Prize-Rs.5000
Runner-up:
Aavez A. Shaikh(PRMIT&R)
Prize-Rs.2000

Vortex Strike

12-13 March 2024

Teams of students will compete in fast-paced Nerf battles, aiming to capture the enemy's flag while protecting their own. They must devise strategies to infiltrate the opponent's territory, retrieve the flag, and return it safely, all while fending off attacks, navigating obstacles, and outsmarting opponents. This test of teamwork, communication, and quick thinking will determine the victor in the thrilling Nerf War.

Winner:
Chinmay Nawghare ,Yash Pardhi
Shrawan Jagtap,Vansh Biloriyant
Runner-up:
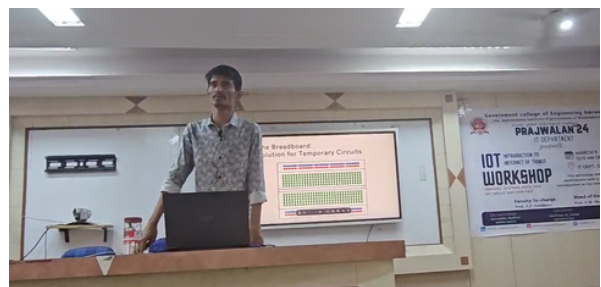Rushikesh Shende , Sarang Kale
Neel Mahalle , Amar Khobragade

IoT Workshop

6 March 2024

At the annual technical festival Prajwalan'24 at Government College of Engineering, Amravati, senior students organized an IoT workshop for first-year IT students under the guidance of Prof. A. P. Ambhore. The workshop combined theoretical lectures and hands-on sessions to cover IoT fundamentals, including components, sensors, actuators, communication protocols (MQTT, HTTP), and IoT platforms. Senior students Prem Satpaise, Heramb Jawanjal, and Laxmi Thawkar led the sessions, sharing their expertise and experiences.

AI museum

12 March 2024

The AI Museum event showcased the history and evolution of artificial intelligence, highlighting contributions from pioneers like Geoffrey Hinton, Yann LeCun, Andrej Karpathy, and Ilya Sutskever. The exhibition covered key milestones, current trends, and featured displays of major advancements and innovations in AI technology. Attendees enjoyed a comprehensive and engaging overview of the field, making the event a resounding success.

Project Members

Bhavesh Chaudhari
Jaydeep Gedam
Sakshi Khadilkar

Deepali Chandele
Shivendoo Deshmukh
Pranay Chandrikapure

Prajwalan 2024 (March 2024): Secured 1st place in the E-Sammelan project competition, earning Rs. 5000 from Principal Dr. A. M. Mahalle.

TiE Nagpur Grand Finale: Achieved 2nd runner-up, winning Rs. 15,000 from Mr. Dheeraj Bhagat, and qualified for the TiE University Global pitching competition.

Startup Mahakumbh (March 2024): Exchanged ideas with Shark Tank India founders, including Quirky Naari and Gladful.

SPPU RPF: Pre-incubated at Savitribai Phule Pune University's Research Park Foundation, gaining crucial resources and mentorship.

BharatCon24 (January 2024): Secured first runner-up position, receiving Rs. 21,000 from Dr. Dinesh Keskar, former Senior Vice President of Sales at Boeing Commercial Airplanes.

Maharashtra Student Innovation Challenge: Selected for the state level at Shivaji Science College, Amravati, showcasing innovation before a panel of judges from diverse fields.

CIIA-3 Event: Recognized as one of the top 100 innovative projects at the Nehru Science Center in Mumbai, organized by the Marshalls Group.

Research Paper: Accepted for presentation and publication in Scopus Indexed Springer LNNS Conference Proceedings at the International Conference on Information and Communication Technologies for Sustainable Development 2024.

Patent Publication: Patent for Nayaan officially published on May 17, 2024. Grateful to mentors Dr. R. M. Metkar, Dr. S. A. Lohi, and Prof. A. W. Bhade.

STUDENTS' ACHIEVEMENTS (2023-24)

Sr. no	Name	Year	Month	Achievement
1.	Shreyash Yelore	4th	January 2024	Tcs Codevita Season 11 - Global rank 107 and 1st Rank in Nagpur Region
2.	Vasihnavi Lande Yash Gupta Gayatri Shende	3rd	February 2024	2nd prize of Rs. 10,000 in Graphic Harmony, a poster-making competition by the Department of Mechanical Engineering at GCOEA.
3.	Yash Gupta Shivendoo Deshmukh Vasihnavi Lande Gayatri Shende	3rd	April 2024	1st Rank in the Technophilia Poster Competition at the 7th National Technical Event, hosted by Spark Club, in collaboration with ISA Pune and IEEE at MIT Academy of Engineering, Alandi, Pune.
4.	Shivendoo Deshmukh Vaishnavi Lande Atharva Dankhede Anushka Radke	3rd	8 March	selected in Top 5 Teams in Cognizant Hackathon Conducted at National Level

Sr. no	Name	Year	Month	Achievement
5.	Pranay Chandrikapure Komal Kale Ishwari Burghate	3rd 2nd	January 2024	We are participating in Innovation 'R' us startup compitition which is one of central India's biggest innovation and startup conclaves held in YCC nagpur
6.	Shivendoo Deshmukh Atharva Kulkarni	3rd	March 2024	Joint Organizing Secretary in Prajwalan 2024
7.	Shivendoo Deshmukh Prem Satpaise Heramb Jawanjal Laxmi Thawkar	3rd	April 2024	Team "The Misfits" advanced to Prototype Phase in i2i Hackathon by BHAU Institute, securing Rs. 9000 in funding
8.	Suhrud Acharya	2nd	February 2024	First Rank in State Level Chess Competition at Shri Sant Gajanan Maharaj College of Engineering, Shegaon

Sr. no	Name	Year	Month	Achievement
9.	Piyush Divakar Nandardhane	3rd	February 2024	Winner (Rank 1) at CodeWave by Prof. Ram Meghe Institute & Runner-up (Rank 2) at Codorithm by SIPNA College
10.	Durgesh Firake Pranay Chandrikapure	3rd	March 2024	Convenor of Web Developement Committe, Prajwalan 2024 Co-Convenor of Web Developement Committe, Prajwalan 2024
12.	Rutuja Bhoyar	3rd	March 2024	Winner in brushless painting (Zenith 2024)
18.	Team InnovateXcel Durgesh Firake Gayatri Shende Nirbhay Sakakrkar Sanika Ganorkar	3rd	April 2024	FInalists at LogiTHON, conducted by Softlink GLobal and Datta Meghe College of Engineering, Airoli, Navi Mumbai

Sr. no	Name	Year	Month	Achievement
19.	Shivendoo Deshmukh Durgesh FIrake Pranay Chandrikapure Prem Satpaise	3rd	February 2024	Selected for final round at Techathon, coducted by AISSMS IoIT, Pune
20.	Piyush Hood Aditi Kawade Aachal Karpate Bhagyashri Undre	4th	March 2024	Published Paper on "A Mobile-Based System for Detecting Plant Leaf Diseases Using Deep Convolutional Neural Network"
21.	Sanket Dudhmande Shivam Golliwar Ameya Bhagwat Ram Ghiya	4th	April 2024	Published paper on Textual Compression Using Lamini-LM
22.	Ram Ghiya	4th	April 2024	Best Presentation under UG Category in International Conference On Advancements in Science, Technology & Management (ICASTM) 2024

Sr. no	Name	Achievement
1	Dr. K. P. Wagh	• Dr. Kishor Wagh, Spatial Co-location Pattern Mining—A Survey of Recent Trends, Lecture Notes in Networks and Systems , 2024, 869 LNNS, pp. 265–280 • Dr. Kishor Wagh,A Novel and Efficient Spatio-Temporal Co-location Pattern Mining Algorithm,Journal of Electrical Systems, Vol. 20 No. 2 (2024)
2	Dr. K N Tayade	• Controller of Examinations • Implementation of NAD and ABC
3	Dr. Premchand Bhagwan Ambhore	• Dr. P. B. Ambhore Hybrid Bat Harris Optimized Approach for Data Retrieval using Deep Convolution Neural Networks. International Conference on Multi-Strategy Learning Environment (ICMSLE-2024), held on 12th and 13th January 2024 at Graphic Era Hill University, Dehradun, India. https://icmsle.com/ • Dr. P. B. Ambhore: A Novel Security Aware Approach in Content Based Image Retrieval System using Trapdoor Verification for Cloud Environment. International Journal of Intelligent Systems and Applications in Engineering, 2023, 11(10s), pp.84–93. https://www.scopus.com/authid/detail.uri?authorId=23479183700 https://ijisae.org/index.php/IJISAE/issue/view/101

Sr. no	Name	Achievement
4	Dr. Premchand Bhagwan Ambhore Prof. Archana D. Wankhade	• National Design Patent Name of the Topic:-Fiber Optic Intrusion Detection Device Design Number:-404630-001 Grant Date:-08 March 2024 Authors Name:-Premchand B. Ambhore Archana D. Wankhade

INFORMATION TECHNOLOGY

Your one-stop IT resource: News, Events and Department Highlights.

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Amravati, Maharashtra, India

Department of Computer Science and Information Technology, Kathora Rd, Siddhivinayak