



An Empowered Autonomous Institute, Affiliated to SPPU, Pune
Accredited by NAAC "A+" Grade & NBA

Electronics & Telecommunication Engineering Department



ELITE Magazine 2023-24

Term II (Jan – June 2024)

Volume I, Issue 2

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Department Vision & Mission

VISION

To create globally competent and acceptable technical manpower in the ever-changing domain of Electronics & Telecommunication with attributes of self and lifelong learning to address societal and industrial needs by adopting rapidly changing technologies.

MISSION

- **M1:** To impart quality and value based education to the learners by strengthening teaching learning process from innovative curriculum to its rigorous implementation.
- **M2:** To develop competent professionals by keeping pace with rapidly changing technology.
- **M3:** To address the needs of society and industry by engaging faculty and students in research and development.

Program Outcomes (POs)

The Program Outcomes suggested by National Board of Accreditation are as follows:

Engineering Graduates will be able to:

- **PO 1: Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization for the solution of complex engineering problems.
- **PO 2: Problem analysis:** Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- **PO 3: Design/ development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for public health and safety, and cultural, societal, and environmental considerations.
- **PO 4: Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- **PO 5: Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modelling to complex engineering activities, with an understanding of the limitations.
- **PO 6: The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- **PO 7: Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- **PO 8: Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- **PO 9: Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- **PO 10: Communication:** Communicate effectively on complex engineering activities with the engineering community and with the society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- **PO 11: Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- **PO 12: Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Specific Outcomes (PSOs)

The Department of Electronics and Telecommunication Engineering has following Program Specific Outcomes (PSOs):

- **PSO1:** Apply and demonstrate the hardware and software platforms for electronic systems.
- **PSO2 :** Acquire Skills in Signals & Embedded Systems.

Program Educational Objectives (PEOs)

- **PEO1:** Ability to grasp, comprehend and apply the knowledge acquired from basic sciences, mathematics, program specific core and elective courses to solve real life problems.
- **PEO2:** As a self and lifelong learner, ability to deliver and contribute multi disciplinary research, innovations, incubation by usage of modern tools.
- **PEO3:** Ability to work as cohesive team members to exhibit professional ethics, human values and social awareness.
- **PEO4:** Competencies and excellence in higher education and employability in diversified areas of Electronics and Telecommunication Engineering.



ELITE Magazine 2023-24 Publication Team:

Expressive League of Inspiring Telecomm Engineers (ELITE) student forum		
Sr. No.	Name of Committee Member	Role
1.	Dr. S. K. Waghmare	HOD E&TC
2.	Dr. Sarika Khope	Student Activity In charge
3.	Pratik Ankush Dhumal (B.Tech)	President,
4.	Vaibhavi Uttamrao Chawade (T.Y.)	Vice-President
5.	Mallinath Sharanappa Mudgule (S.Y.)	Secretary
6.	Shruti Ravindra Amrutkar (S.Y.)	Treasurer
7.	Mansi Vijay Gade (T.Y.)	Event Coordinator
8.	Pravin Babasheb Khakale (T.Y.)	Publicity In charge
9.	Snehal Nandkumar Ghumare (B.Tech.)	Web Master

Campus Director Message



Dr. R. D. Kharadkar
Campus Director
GHRCEM, Pune.

I feel extremely amusement to observe that of Electronics & Telecommunication Engineering Department is bringing out Term II magazine "ELITE Magazine 2023-24" with the dedicate and committed efforts of faculty and students of the department. This magazine is the reflection of the students, involved in various activities. I congratulate the Head of Department, the faculty members and the students of Electronics & Telecommunication Engineering Department for their ingenuity and enthusiasm for this magazine and wish them all success.

Head of Department Message



Dr. S. K. Waghmare
Head of Department (E&TC)
GHRCEM, Pune

I am exhilarated in presenting you with the Term I ,Issue II of the magazine "ELITE Magazine 2023-24" which is a blend of the most recent trends and activities in the Electronics and Telecommunication Engineering field and also the creative work of young engineers plus some brainstorming sessions. I am glad to pen for this wonderful magazine as an appreciation of the commendable efforts put forth by the team of the Electronics department for its grand beginning. The release of this spectacular issue of the magazine is a result of their constant efforts. I hope you all enjoy going through the contents of this magazine.

Student Activity In Charge Message



Dr. Sarika Khope
Student Activity In charge
GHRCEM, Pune

"The heart of our endeavours lies not only in the pursuit of knowledge but also in the cultivation of holistic growth and community engagement "As the Student Activity In-charge of ELITE magazine 2023-24, it brings me great pleasure to share with you the essence and significance of the various activities we conduct within our department. Each activity we undertake embodies our commitment to nurturing well-rounded individuals equipped with the knowledge, skills, and values to thrive in an ever-evolving world

Our department's activities aim to:

Expand Knowledge: Through workshops and seminars, we explore new ideas and practical skills.

Promote Skills: Competitions and debates foster confidence, communication, and teamwork.

Serve Society: Community outreach programs in still empathy and social responsibility.

Celebrate Diversity: Cultural events and recreational activities promote connection and creativity.

Enhance Career Readiness: Professional development initiatives prepare students for success in their chosen fields.

Department Activities

Event No 1:

Pitch Deck Competition on Electric Vehicles

The Department of Electronics & Telecommunication Engineering at G H Raisoni College of Engineering and Management, Pune, under the e-Vehicle Club, organized a Pitch Deck Competition on January 15, 2024. Open to all engineering aspirants, the event focused on EVs for Healthcare, Industries, Smart AI-Based EVs, and Educational Institutes.

Objectives:

- Foster entrepreneurial skills and encourage innovation.
- Provide a platform for business idea presentations.
- Promote networking with industry professionals and investors.

This initiative enhanced students' presentation and communication skills while offering valuable feedback and mentorship, supporting a sustainable EV ecosystem. Special thanks to Dr. Pramila Jogdand (Dean R&D, GHRCEM) and Dr. Nilesh Deshmukh (Asst. Professor, Mech Dept., GHRCEM) for serving as judges.

The event was coordinated by Dr. S.K. Waghmare (HOD), Dr. Asha Shendge (e-Vehicle Club Coordinator), and Dr. Swapnil Manahan (Head of Innovation & Incubation). Participants found it a valuable learning experience, boosting their confidence and skills in entrepreneurship and communication. Total 138 students participated in this event.

Event Photographs :



Event Flyer :



**G. H. RAISONI COLLEGE OF
ENGINEERING & MANAGEMENT, PUNE**
An Empowerd Autonomous Institute, Affiliated to S. P. Pune University
NAAC A+ Accredited

Dept. of Electronics and Telecommunication Engineering
Electric Vehicle Club
In association with
Eureka Innovation and Incubation Centre
Organizes
A pitch deck competition for all engineering aspirants

EVolutionary Drive
Pioneering Sustainable Solutions for a Greener Tomorrow

• EV for Healthcare:
• Challenge: Develop innovative ideas for implementing electric vehicles in the healthcare sector.
• Examples: Ambulances, medical supply transportation, mobile clinics, etc.

• Smart AI-based EV:
• Challenge: Explore the intersection of electric vehicles and artificial intelligence to create intelligent, connected EVs.
• Examples: Autonomous driving capabilities, predictive maintenance, smart charging stations, etc.

• EV for Industries/Factories:
• Challenge: Propose solutions for integrating electric vehicles into industrial and factory settings.
• Examples: Material transport within factories, employee transportation, logistics, etc.

• EV for Educational Institutes:
• Challenge: Envision electric vehicle applications within educational institutions.
• Examples: Campus transportation, student shuttles, smart parking solutions, etc.

Date:
15th Jan 2024



Time:
2-4 PM

Dr. Asha Shendge
e-Vehicle Club Coordinator

Dr. Swapnil Mahajan
Head, Innovation & Incubation

Dr. S. K. Waghmare
Head, E & TC Engg.

Dr. R. D. Kharadkar
Director GHRCEM, Pune

Engineering Management Law Schools Other Courses
NAGPUR PUNE JALGAON AMRAVATI AHMEDNAGAR CHINDWARA



Event No 2:

“Two days' hands-on workshop on Latex Software”:
A Scientific Documentation

Hands-On LaTeX Workshop at GHRCEM Pune

The Department of Electronics and Telecommunication Engineering at G.H. Raisoni College of Engineering & Management, Pune, organized a two-day hands-on workshop on LaTeX Software from January 17th to 18th, 2024. The event aimed to equip students with essential technical writing skills using LaTeX, a powerful typesetting system widely used for scientific and academic documentation.

A total of 88 students participated, gaining practical experience in creating structured documents, handling equations, tables, figures, and citations. The workshop emphasized hands-on learning through interactive exercises and real-time applications, enabling students to produce professional and visually appealing reports.

The workshop was successfully coordinated by Dr. Sarika Khope, under the guidance of Dr. S.K. Waghmare, HOD (ENTC), and Dr. R.D. Kharadkar, Campus Director, GHRCEM. Their support ensured a valuable learning experience, enhancing students' academic and professional skills.

Event Flyer :



**G H RAISONI COLLEGE OF ENGINEERING
AND MANAGEMENT, WAGHOLI, PUNE**
(An Empowered Autonomous Institute Affiliated To SPPU, PUNE,
NBA & NAAC A+ Accredited Grade)

Department of E&TC Engineering
In association CSI Chapter
Organizes

Two Days Hands-on Workshop on
LATEX SOFTWARE:
A SCIENTIFIC DOCUMENTATION

Date: 17th-18th January 2024
Time: 9:30 AM Onwards
Venue: E-107



Resource Person
Mr. Pramod Aswale
Assistant Professor, GHRCEM

Dr. Sarika Khope
Activity Coordinator

Dr. S. K. Waghmare
HoD, E&TC

Dr. R. D. Kharadkar
Director

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Event Photographs :



Event No 3:

Expert Session: Gateway to Semiconductor Industry – An Indian Perspective

A webinar on "Gateway to Semiconductor Industry: An Indian Perspective" was held on January 19, 2024, for third and final-year students, offering insights into the semiconductor sector, its significance in India, and career opportunities.

Expert Speakers:

- Mr. Anadi Shukla (VLSI Frontend Engineer, Intel) – 13 years of experience
- Mr. Divy Patel (VLSI AMS Engineer, Qualcomm) – 11 years of experience
- Mr. Gaurav Thakur (VLSI Backend Engineer, Qualcomm) – 11 years of experience

Key Takeaways:

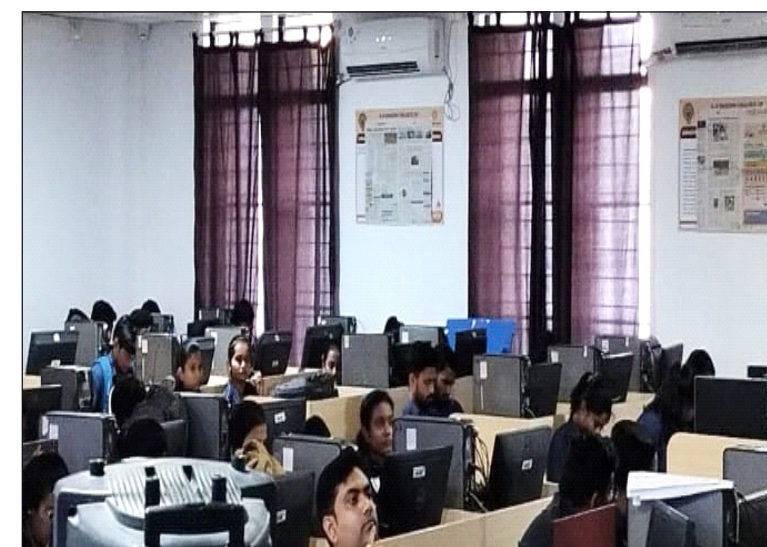
- Understanding the global and Indian semiconductor landscape.
- The role of semiconductors in various industries.
- Career opportunities and required skillsets.
- Practical insights from industry experts.

The webinar saw active participation, with engaging Q&A sessions. Attendees appreciated the informative content and suggested future sessions focusing on in-depth technical topics and case studies. The event successfully bridged academia and industry, providing students with a clearer view of the semiconductor sector's opportunities. Total of 131 students from E&TC participated in this session.

Event Flyer :



Event Photographs :



Event No 4:

Seminar on GATE-Awareness and Career Guidance

GHRCEM Pune Seminar on GATE Awareness & Career Guidance

The Department of E&TC Engineering at GHRCEM, in collaboration with IETE and ISTE Chapters, organized a seminar on January 19, 2024, featuring Mr. Paresh Gugale (Founder & Director, I2E-Imperial Institute).

Event Flyer :

Key Highlights:

- **Welcome Address:** Mrs. Sarika Khope introduced Mr. Gugale's achievements in competitive exams.
- **Expert Lecture:** Mr. Gugale emphasized the importance of GATE for E&TC engineers, discussing higher education, research, and career opportunities in IES, PSU, and MPSC.
- **Encouragement:** Dr. S.K. Waghmare highlighted the value of such sessions in motivating students.

The seminar received an enthusiastic response, with students finding it educational and inspiring. Dr. Sarika Khope concluded by thanking all participants. The event successfully underscored the role of competitive exams in career advancement, equipping students with essential insights and motivation.



Event Photographs :



Event No 5:

Expert session :Cultivating Knowledge in a Virtual Realm: AR/VR in Academic inquiry

GHRCEM Hosts Engaging AR/VR Introductory Session

G H Raison College of Engineering and Management (GHRCEM) hosted an insightful AR/VR Introductory Session, organized by the Electronics & Telecommunication Engineering Department and the AR/VR Club.

Key Highlights:

- **Opening:** Anchors Shweta Babar and Aakriti Singh set an engaging tone, welcoming guest speaker Faizan Akhtar (Software Engineer, Criteo India) and faculty members.
- **Expert Insights:** Dr. S.K. Waghmare emphasized the growing significance of AR/VR, followed by Faizan Akhtar, who explained AR/VR concepts, differences, and real-world applications. Dr. Sarika Khope Co ordinated the session
- **Interactive Engagement:** A quiz on AR/VR technology added excitement, with winners receiving prizes. Attendees also experienced VR headset games.
- **Conclusion:** Dr. Sonali (AR/VR Coordinator) delivered a vote of thanks, marking a successful session that combined knowledge, innovation, and hands-on learning.

The event showcased GHRCEM's commitment to emerging technologies, leaving participants inspired and well-informed about AR/VR's future potential.

Event Flyer :



Event Photographs :



Event No 6:

"Interactive Session on Design Thinking"

Guest Lecture on Design Thinking: Engineering Tomorrow's Solutions

The Department of E&TC Engineering, in association with the Eureka Innovation and Incubation Centre at GHRCEM Pune, organized a guest lecture on "Design Thinking: Engineering Tomorrow's Solutions" on February 23, 2024.

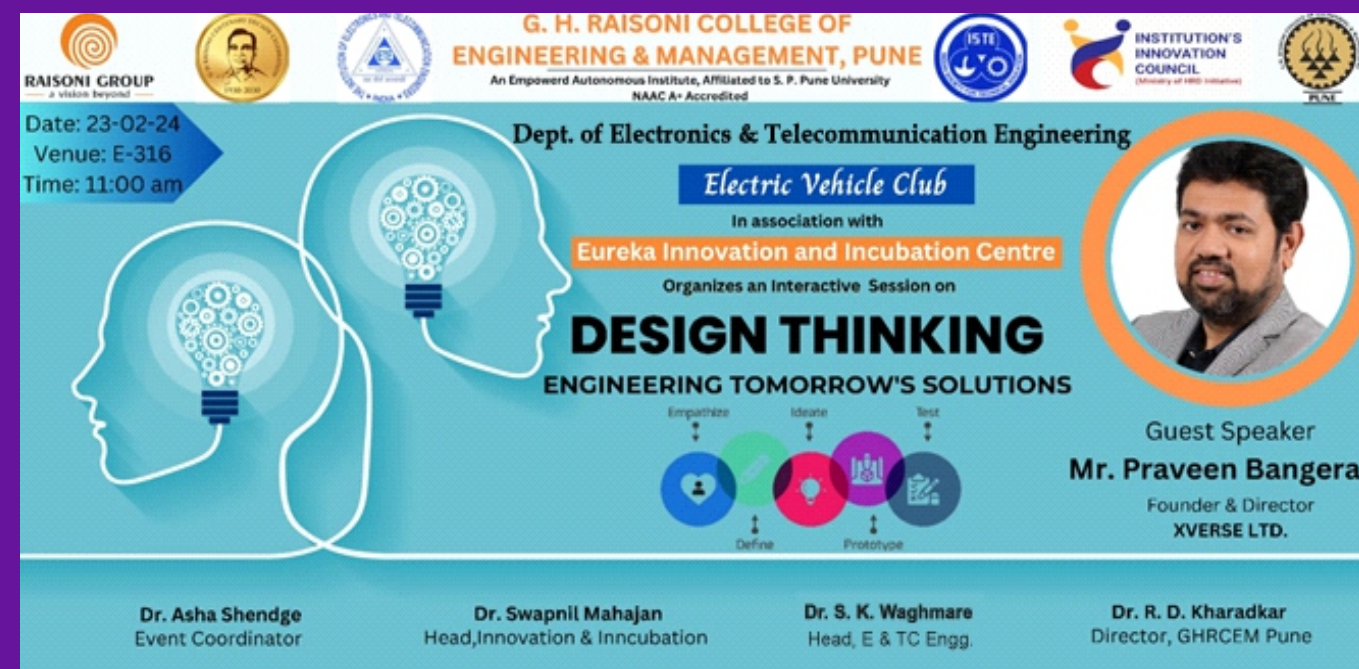
Key Highlights:

- **Guest Speaker:** Mr. Praveen Bangera, Founder & Director, XVERS Ltd.
- **Objectives:** Addressing design thinking challenges, exposing students to innovative concepts, and emphasizing consumer-centric design approaches.
- **Lecture Insights:**
 - Introduction to design thinking and its goal of creating desirable, viable, and feasible solutions.

- Importance of empathy in asking better questions and enhancing service experiences.
- Rapid prototyping with practical examples.
- **Engagement:** Interactive Q&A session with active student participation.

The session concluded with a vote of thanks by Dr. S. K. Waghmare, HOD, E&TC Engineering. Participants found the session highly insightful, enhancing their understanding of design thinking and inspiring them to innovate for the future.

Event Flyer :



Event Photographs :



Event No 7:

Talkathon: An Extempore and Debate Competition

The Electronics and Telecommunication (E&TC) Department of G H Raisoni College of Engineering and Management recently organized Talkathon, a dynamic event featuring extempore speaking and debate competitions. Designed to enhance critical thinking, communication skills, and teamwork, the event brought together students from diverse backgrounds to showcase their oratory abilities.

The competition began with a warm welcome by Vaibhavi Chalwade, followed by inspiring addresses from Dr. Vaibhav Hendre (Deputy Director), Dr. S.K. Waghmare (HoD, E&TC), and Dr. Vandana Dureja (Dean, FY). Faculty coordinators Dr. Salman Khan and Dr. Sarika Khope played a key role in organizing the event.

With over 42 teams participating, the extempore competition, judged by Dr. Vandana Dureja and Ms. Surabhi Pranav (Counselor Psychologist), challenged students to think on their feet. The debate round, adjudicated by Dr. Salman Khan, featured passionate discussions on contemporary issues, testing students' analytical and persuasive skills.

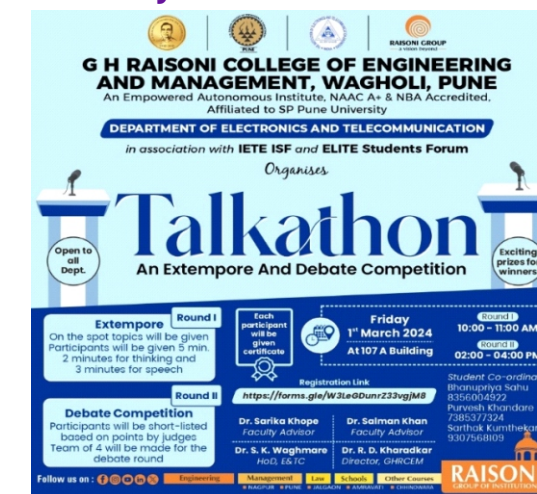
Winners of the Debate Competition:

- **First Place:** Aamir Shamim Pathan & Group (₹1500)
- **Second Place:** Shreya Bhojar & Group (₹1000)
- **Third Place:** Sampada Payas & Group (₹500)

Congratulations to all the winners for their stellar performances!

The Talkathon was a resounding success, thanks to the dedicated efforts of faculty mentors, judges, and the enthusiastic student community. The E&TC Department looks forward to hosting more such intellectually enriching events, fostering a culture of communication and critical thinking excellence.

Event Flyer :





Event No 8:

Workshop on Understanding Virtual & Augmented Reality

The Department of Computer Science & Engineering (CS & DS) and Electronics & Telecommunication Engineering of G H Rasoni College of Engineering & Management, Pune, in association with SCADE, organized a Hands-on Workshop on Understanding Virtual & Augmented Reality on 06/03/2024. The expert speakers were Mr. Akshay Rathod (CEO, Firebird VR) and Mr. Yogesh Surwase (Director, Firebird VR), who provided valuable insights into these cutting-edge technologies.

The workshop commenced with the felicitation of the esteemed guests by the SCADE Club, followed by an engaging session by Mr. Yogesh Surwase, who introduced Augmented, Virtual, and Mixed Reality concepts interactively. Mr. Akshay Rathod then offered an in-depth exploration of AR & VR technologies, sharing insights into industry projects and innovations.

A highlight of the event was the live demonstration of various VR headsets, where students experienced AR & VR firsthand. The session concluded with an interactive Q&A, allowing direct engagement with the experts.

A total of 117 students benefited from this immersive workshop. The event was coordinated by Dr. Sarika Khope (Event Coordinator) and Ms. Swati Gajarlewar (Activity Coordinator, CS-DS Dept) under the guidance of Dr. S.K. Waghmare (HOD, ENTC), Dr. Deepika Ajalkar (HOD, CS & DS), and Dr. R.D. Kharadkar (Campus Director, GHRCEM).

Event Flyer :



Event Photographs :



Event No 9:

Art Alive: ART & Craft Exhibition

The Fine Art and Craft Club of G.H. Rasoni College of Engineering and Management, Pune, successfully organized ART ALIVE: Art & Craft Exhibition on March 5, 2024. This vibrant event provided students with a platform to showcase their artistic talents and explore creative expression.

Featuring 57 diverse entries, the exhibition displayed paintings, sketches, fabric art, best-out-of-waste creations, and paper crafts. Students expressed emotions, themes, and cultural elements through their works, inspiring creativity and appreciation for the arts. The event was categorized into five sections: Painting, Sketching, Fabric Art, Best Out of Waste, Paper Craft

The exhibition fostered engagement through interactive showcases where students shared insights into their artistic processes. Attendees explored their artistic interests, sparking creativity and discussions on various techniques and styles.

Key highlights of the event included:

- **Enhanced Creativity:** A platform for students to experiment with ideas and receive feedback.
- **Talent Recognition:** Budding artists gained appreciation and motivation to pursue their passion.
- **Inspiration for Future Projects:** The showcase encouraged artistic exploration and new endeavors.
- **Art Appreciation:** The event promoted art as a powerful means of storytelling and expression.

Coordinated by the Fine Art and Craft Club under faculty guidance, ART ALIVE was a resounding success, fostering a culture of creativity and artistic appreciation within the college community.

Event Flyer :



Event Photographs :



Event No 10 :

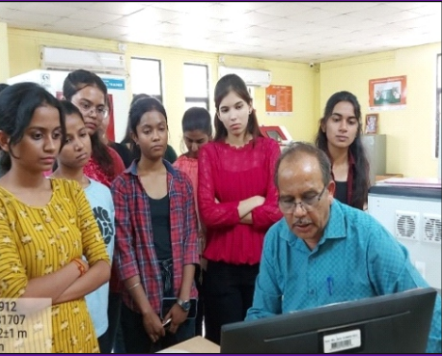
One Day Workshop on Digital Modelling and Fabrication

The Department of Electronics and Telecommunication, in association with Idea Lab and IIC Cell at G H Raisoni College of Engineering and Management, Pune, organized a one-day workshop on Digital Modeling and Fabrication on April 3, 2024, for third-year B. Tech students. Led by Dr. Anil R. Sahu, Professor and Dean PhD, the session covered CAD, 3D modeling, additive and subtractive manufacturing, CAM, materials science, digital sculpting, parametric design, embedded systems, simulation, sustainability, robotics, and customization. A total of 68 students participated in hands-on learning and interactive discussions.

Event Flyer :



Event Photographs :



Event No 11:

Expert Session on Recent Trends of Smart Grid in India

The Electronics and Telecommunication Engineering Department at G.H. Raisoni College of Engineering and Management (GHRCEM) in association with ISTE and IETE chapters organized guest lecture on April 02nd, 2024. The event featured Dr. Parimal Acharjee, Professor, Department of Electrical Engineering, National Institute of Technology, Durgapur, West Bengal as the esteemed speaker.

The lecture event began with a warm welcome from the second year student Mr. Vignesh Pidugu, who recognized Dr. Parimal Acharjee for his exceptional contributions to the academic research. Dr. S.K. Waghmare, the head of the Electronics and Telecommunication Engineering Department, elaborated on the department's activities and underscored the significance of the lecture in terms of fostering motivation and awareness among the attendees.

Dr. Parimal Acharjee, an eminent speaker and Professor, brought his extensive knowledge to the forefront, providing valuable insights into the Power System and Smart Grid and also

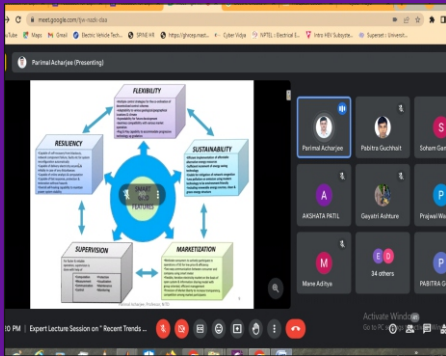
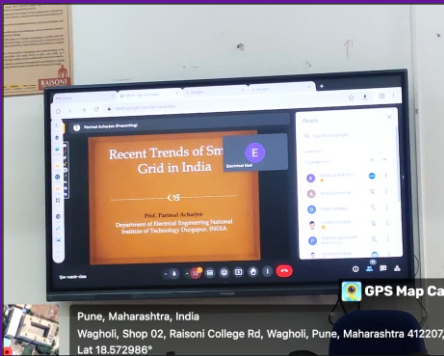
forecast the topic why it is so important in the domain of Electrical Power System. His engaging and informative speech shed light on overview for beginners on Two Port Network.

Dr. Sarika Khope, Faculty Coordinator of the event, extended gratitude on behalf of the department during the vote of thanks. Attendees provided overwhelmingly positive feedback, praising the event for its educational value and commending the invaluable insights shared by the guest speaker. The lecture served as an eye-opening exploration of various facets of Network structures and their solve procedures.

This event exemplified GHRCEM's commitment to fostering collaboration between our Institute and prestigious Institution providing students with access to expert insights and experiences that contribute to their growth and understanding of cutting-edge technologies.

Event Flyer :

Event Photographs :



Event No 12 :

“PRATIMA: SCLUPTURES OF TECHNOLOGY Model Exhibition”

Electronics & Telecommunication Engineering Department in association with the COMET FORUM had organized an event “PRATIMA: Sculptures of technology” on 05/04/2024 at G H Raisoni College of Engineering and Management, Pune. In the presence of our respected Director Dr. R. D Kharadkar the Head of the Computer Department Dr. Simran Khiani, Head of the E & TC Department Dr. S. K. Waghmare and the sponsors XELERATE Design Enterprise LLP the event started.

A brief introduction about the sponsors Mr. Shudhodhan Imade and Mr. Astitva Mistry from XELERATE Design Enterprise LLP was given, who were the sponsors as well as the judges for the event along with Dr. Swapnil Mahajan Head Incubation Center GHRCEM. The judges Dr. Swapnil Mahajan, Mr. Shudhodhan Imade and Mr. Astitva Mistry were felicitated by the Director Dr. R. D Kharadkar.

After the felicitation ceremony, the participants were told to be ready with their models for evaluation. The judges then evaluated every participants model with the evaluation criteria specified to them, and with their mutual decision they choose the winners. The felicitation ceremony for the event started after the break of an hour, three winners were chosen and the winners were given cash prizes, trophies and certificates.

The event came to an end with speeches from our Director Dr. R. D Kharadkar and the Head of the Computer Department Dr. Simran Khiani and Head of the E & TC Department Dr. S. K. Waghmare and the Vote of Thanks from the Activity Co-ordinator Mrs. Padmawati Sarode

Event Flyer :

Event Photographs :





Event No 13 :

Peer Counselling Batch III Felicitation Ceremony

The Peer Counselling Batch III Felicitation Ceremony was held at G.H. Raisoni College of Engineering & Management, Pune, to honor the top 30 students who successfully completed an intensive 100-day training program, earning their certification as peer counsellors. The event was meticulously organized under the guidance of Campus Director Dr. R. D. Kharadkar and Mrs. Surabhi Pranav, the counselling psychologist and faculty coordinator.

The ceremony was graced by distinguished guests, including:

- Mrs. Sanjivani Puranik – Professional Counsellor
- Dr. Saukhya Chingare (MBBS) – Parent of one of the students
- Dr. Sanjay Badjate – Principal, S.B. Jain College of Engineering and Management, Nagpur
- Dr. Vandana Dureja – First Year Dean, GHRCEM
- Dr. S.K. Waghmare – HoD, E&TC

Event Highlights

The program commenced with the escorting of guests by peer counsellor members, showcasing their hospitality and leadership skills. The event was seamlessly hosted by Mr. Vigneya Bhatt and Ms. Neha Bhaiya, who led the proceedings with grace and confidence. The ceremony commenced with the traditional lighting of the lamp by esteemed guests, symbolizing the dispelling of ignorance and the pursuit of knowledge. This was followed by an insightful review of the peer counseling program, presented by Peer Counsellors Ayan Shaikh and Tehseen Shaikh. In his address, Campus Director Dr. R. D. Kharadkar emphasized the crucial role of peer counselling in fostering a supportive academic environment. The chief guests were introduced and felicitated, recognizing their invaluable support.

Certification & Oath Ceremony

A key moment of the event was the felicitation of students from Third Year E&TC who successfully completed the Peer Counselling Course (Batch III). The following students were honored for their dedication and achievement:

- Shrushti Kale
- Sakshi Gaikwad
- Sakshi Thorat
- Mayuri More
- Manmath Minke

The ceremony continued with the distribution of certificates and badges, officially marking the transition of all certified peer counsellors into their roles. Under the leadership of Mrs. Surabhi Pranav, the counsellors took an oath, pledging their commitment to their responsibilities and the well-being of their peers.

Reflections & Closing Remarks

Five newly certified Peer Counsellors shared their experiences and insights from the training, reflecting on their journey of growth and learning. This was followed by inspiring speeches from Mrs. Sanjivani Puranik, Dr. Saukhya Chingare, and Dr. Sanjay Badjate, who emphasized the importance of mental health, empowerment, and peer support.

The ceremony concluded with a heartfelt vote of thanks by Peer Counsellor Swarnim Chingare, expressing gratitude to all guests, faculty members, organizers, and participants.

A Milestone for GHRCEM

The Peer Counselling Batch III Felicitation Ceremony was a significant milestone for G.H. Raisoni College of Engineering & Management, reinforcing the college's dedication to fostering a compassionate and empathetic campus culture.

The success of this event was made possible through the unwavering support and motivation of Dr. R. D. Kharadkar, Faculty Coordinator Mrs. Surabhi Pranav, and the dedicated efforts of Student Coordinators Peer Counsellor Ayan Shaikh and Peer Counsellor Tehseen Shaikh, along with the entire Batch III of Peer Counselling. Their collective commitment ensured the smooth execution of this prestigious event.



Event No 14 :

Five-day workshop on Python: A Beginner's Workshop

The Department of Electronics & Telecommunication Engineering (E&TC) organized a five-day workshop on Python: A Beginner's Workshop from June 18 to June 22, 2024. This workshop was exclusively designed for second-year E&TC engineering students, aiming to provide them with a strong foundation in Python programming—a crucial skill in the fields of Artificial Intelligence and Machine Learning.

The workshop attracted over 62 enthusiastic second-year engineering students eager to explore the fundamentals of Python programming. The sessions were tailored for beginners, ensuring that even students with no prior programming experience could easily grasp the concepts.

Workshop Schedule & Topics Covered:

Inhouse experts, Dr. Sarika Khope, Dr. Manisha Waje

- Day 1 (18/06/2024): Installation of Anaconda and Introduction to Python
- Day 2 (19/06/2024): Basic Constructs of Python
- Day 3 (20/06/2024): Functions and Methods in Python
- Day 4 (21/06/2024): Flow Control Statements and Python Libraries
- Day 5 (22/06/2024): File Handling

The workshop featured interactive sessions where students engaged in hands-on coding exercises and real-time programming challenges. The instructors provided coding tasks and exercises to reinforce learning, ensuring students gained practical experience and confidence in their programming skills.

The "Python: A Beginner's Workshop" was a resounding success, equipping students with essential Python skills and strengthening their foundation in programming.

Event Flyer :



GHRaisoni COLLEGE
Engineering and Management
Pune
An Empowered Autonomous Institute, Affiliated to SPPU, Pune
NAAC Accredited 'A+' Grade



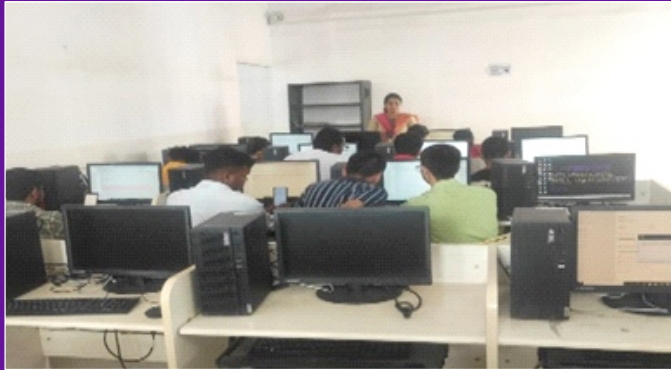
Department of Electronics and Telecommunication
Organizes
Python - A Beginner's Workshop

Sr. No.	Date	Topic	Expert Name
01	18/06/24	Installation and Introduction	Dr. Sarika Khope
02	19/06/24	Basic Concepts of Python	Dr. Manisha Waje
03	20/06/24	Functions and Methods in Python	Dr. Rupali Patil
04	21/06/24	Flow Control statements and python libraries	Ms. Meeta Bakuli
05	22/06/24	File Handling	Dr. S. K. Waghmare

Dr. Sarika Khope
Event Coordinator

Dr. S. K. Waghmare
HoD, E&TC

Dr R D Kharadkar
Campus Director



Event No 15 :

One Week Skill Development Program on Full Stack Development

The Department of Electronics and Telecommunication Engineering, G.H. Raisoni College of Engineering and Management, successfully organized a One Week Skill Development Program on Full Stack Development for third-year E&TC students. The program, held from June 18 to June 22, 2024, aimed to provide practical knowledge, hands-on training, and personal growth opportunities for participants.

The sessions were conducted from 9:30 AM to 1:00 PM each day, covering essential Full Stack Development topics. The program was coordinated by Dr. Kavita Joshi, faculty, E&TC Department

Event Flyer :



GHRaisoni COLLEGE
Engineering and Management
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Department of E&TC
Organizes
One Week Skill Development Program On Full Stack Developer
18th to 22nd June 2024 at 10.00am To 5.00pm

Sr. No.	Date	Topic	Expert Name
01	18/06/24	Introduction to Web Development	Mr. Suraj Saykar
02	19/06/24	Basics of HTML & CSS	Ms. Neeta Raskar
03	20/06/24	Introduction to JavaScript	Mr. Vrushasen Ware
04	21/06/24	Basics of Frontend Framework- React JS	Dr. Anita Pisole
05	22/06/24	Backend Basics (Node.js & Express.js)	Ms. Deepali Gavhane

Dr. Kavita Joshi
Activity Coordinator

Dr. S. K. Waghmare
HoD E&TC

Dr. R. D Kharadkar
Campus Director

Event Photographs :



Program Schedule & Experts

Sr. No.	Date	Topic	Expert Name
1	18/06/2024	Introduction to Web Development	Mr. Suraj Saykar
2	19/06/2024	Basics of HTML & CSS	Ms. Neeta Raskar
3	20/06/2024	Introduction to JavaScript	Mr. Vrushasen Ware
4	21/06/2024	Basics of Frontend Framework - React JS	Dr. Anita Pisole
5	22/06/2024	Backend Basics (Node.js & Express.js)	Ms. Deepali Gavhane

The Skill Development Program provided students with valuable insights into Full Stack Development, bridging the gap between theoretical knowledge and practical application. Each session was conducted by industry experts and experienced faculty, ensuring a comprehensive learning experience.

The event concluded successfully, equipping students with essential skills to kickstart their journey in web development.

Event No 16 :

International Yoga Day

The Department of Electronics & Telecommunication Engineering (E&TC), in association with the Yoga and Fitness Club of G. H. Rasoni College of Engineering and Management, Pune, organized an International Yoga Day event on June 21, 2024. The session was open to all students, faculty, and non-teaching staff members.

The program commenced at 3:30 PM with a welcome speech by Dr. Akhya Kumar Behera. The yoga session was conducted by Mr. Dinesh Bajad from Parth Yoga and Wellness, Pune. This year marked the 10th International Day of Yoga, celebrated under the theme “Yoga for Self and Society.”

Yoga is a transformative practice that fosters harmony between mind and body, balances thought and action, and unites restraint with fulfilment. It integrates physical, mental, and spiritual well-being, offering a holistic approach to a peaceful and healthy life. The session began with the chanting of the Gayatri Mantra, setting a serene and focused atmosphere. Participants were guided through various yoga postures and breathing techniques, highlighting the numerous benefits of regular practice. Yoga is well-documented for improving flexibility, balance, and overall health. It is particularly effective in easing lower back pain and enhancing mobility.

Mr. Sharad Deshpande, Assistant Professor and Yoga Coordinator from the Mechanical Engineering Department, shared his insights on the significance of yoga and its successful execution in the session. The event was coordinated by Dr. Akhya Kumar Behera and Mr. A. M. Bongale. The program concluded with a vote of thanks delivered by Mr. A. M. Bongale.

A total of 57 participants, including teaching and non-teaching staff, benefitted from this enriching yoga session.

Event Flyer :



Event Photographs :



Event No 17 :

Visit to Inter-University Centre for Astronomy and Astrophysics (IUCAA)

Description:

On June 27, 2024, the Electronics and Telecommunication Engineering department of G H Rasoni College of Engineering and Management, Pune, organized an educational tour to the Inter-University Centre for Astronomy and Astrophysics (IUCAA) at Savitribai Phule Pune University. A group of 46 students, accompanied by two faculty members, had the unique opportunity to explore the vibrant and intellectually stimulating environment of IUCAA.

The primary goal of the visit was to instill confidence and inspire the students to delve deeper into the fields of astronomy and astrophysics, as well as to enlighten them about the various career opportunities available in these domains.

During the tour, the students were privileged to attend a session led by Mr. Prasad Adekar, an esteemed Associate at IUCAA. Mr. Adekar provided an insightful and comprehensive overview of the fundamental concepts and cutting-edge developments in astronomy and astrophysics. He covered a wide range of topics, from the basic principles governing celestial bodies to the latest research and technological advancements in the field.

Moreover, Mr. Adekar shared his professional experiences and insights into the diverse career paths one can pursue within astronomy and astrophysics. He emphasized the importance of interdisciplinary knowledge, continuous learning, and staying updated with the latest scientific discoveries.

Objective:

To inspire and educate students about astronomy and astrophysics, and to explore related career opportunities.

Outcome:

Students gained enhanced interest, knowledge, and motivation to pursue further studies and careers in astronomy and astrophysics.

Event Flyer :



Event Photographs :



Technical Articles

ADAS (Advanced Driver Assistant Systems): Challenges- India Perspective



Dr. S.K. Waghmare

India's automotive industry is adopting advanced technologies to improve road safety. Advanced Driver Assistance Systems (ADAS) help drivers by reducing errors that cause accidents. Automotive Vendors are adding ADAS to vehicles because it improves safety and prevents collisions.

Despite its benefits, ADAS adoption in India remains low. High costs make these systems unaffordable for many buyers. Poor infrastructure limits their effectiveness on Indian roads. Many consumers are also unaware of how ADAS works or why it is important. Since most buyers prioritize price over safety, ADAS remains uncommon in affordable vehicles. Removing these barriers will make this technology more accessible and improve road safety.

What is ADAS:

Advanced Driver Assistance Systems (ADAS) improves vehicle safety by helping drivers react to different road conditions. These systems prevent accidents by detecting risks and responding when needed. Sensors, cameras, and radar track the surroundings. Artificial intelligence processes this data and sends alerts or takes action.

Key ADAS features include:

Adaptive Cruise Control (ACC): Adjusts speed to keep a safe space from other vehicles.

Lane Departure Warning (LDW): Alerts drivers when the vehicle moves out of its lane.

Automatic Emergency Braking (AEB): Detects obstacles and applies brakes to reduce impact.

Blind-Spot Detection (BSD): Warns drivers about unseen vehicles to prevent collisions.

ADAS helps in traffic, poor visibility, and difficult road conditions. These systems reduce accidents and make driving safer.

What is the Role of ADAS in Road Safety?



Digital Twins: Bridging the Physical and Virtual Worlds

Introduction : Digital Twin technology is transforming industries by creating virtual replicas of physical systems. These dynamic models mirror real-world objects in real-time, allowing for advanced simulation, monitoring, and optimization. From smart cities to advanced manufacturing, Digital Twins are shaping the future by enhancing decision-making and predictive capabilities.

What is a Digital Twin? A Digital Twin is a virtual model of a physical entity or process. This model continuously receives data from sensors on the physical object, updating the virtual twin in real-time. The concept is based on the integration of Internet of Things (IoT), Artificial Intelligence (AI), and advanced analytics.

Key Components of Digital Twins :

1. **Physical Asset :** The real-world object (e.g., a turbine, a factory, or a vehicle).
2. **Virtual Model :** A digital replica that simulates the behavior and performance of the physical asset.
3. **Data Flow:** Continuous data exchange between the physical asset and the virtual model through IoT devices.
4. **Analytics Engine:** AI-driven analysis to monitor, predict, and optimize performance.

Applications of Digital Twins:

- **Manufacturing :** Optimizing production lines and predicting equipment failures.
- **Healthcare :** Creating patient-specific models for personalized treatments.
- **Smart Cities :** Managing urban infrastructure like traffic systems and energy grids.
- **Aerospace :** Monitoring aircraft components for maintenance and safety.

Visual Ideas :

1. A labelled diagram showing the flow between the physical asset, IoT sensors, and the virtual twin.
2. A visual comparison between traditional monitoring systems and Digital Twins.
3. Infographic depicting applications of Digital Twins across industries.

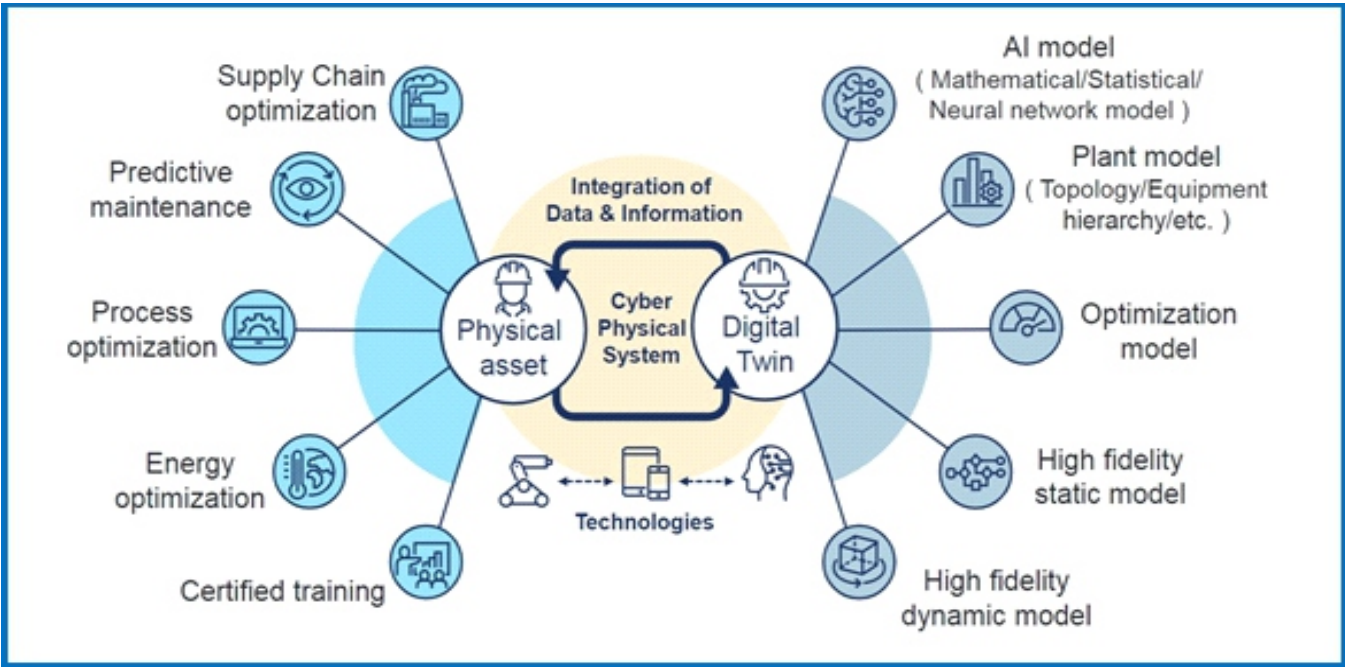
Case Study: Digital Twin in Smart Manufacturing A leading automotive manufacturer implemented Digital Twin technology to optimize its production line. Sensors were installed on machinery to capture real-time data on temperature, vibration, and output quality. This data fed into a virtual model, enabling engineers to monitor equipment health and simulate process improvements.

Outcome :

- 20% reduction in unplanned downtime.
- Improved product quality through early defect detection.
- Enhanced operational efficiency via real-time performance adjustments.



Dr. Sarika Khope
Assistant Professor, E&TC



Benefits of Digital Twins :

- **Predictive Maintenance:** Anticipate failures before they occur, reducing downtime.
- **Enhanced Efficiency:** Optimize processes in real-time for better performance.
- **Improved Decision-Making:** Data-driven insights for smarter decisions.
- **Cost Reduction:** Reduce operational costs through precise monitoring.

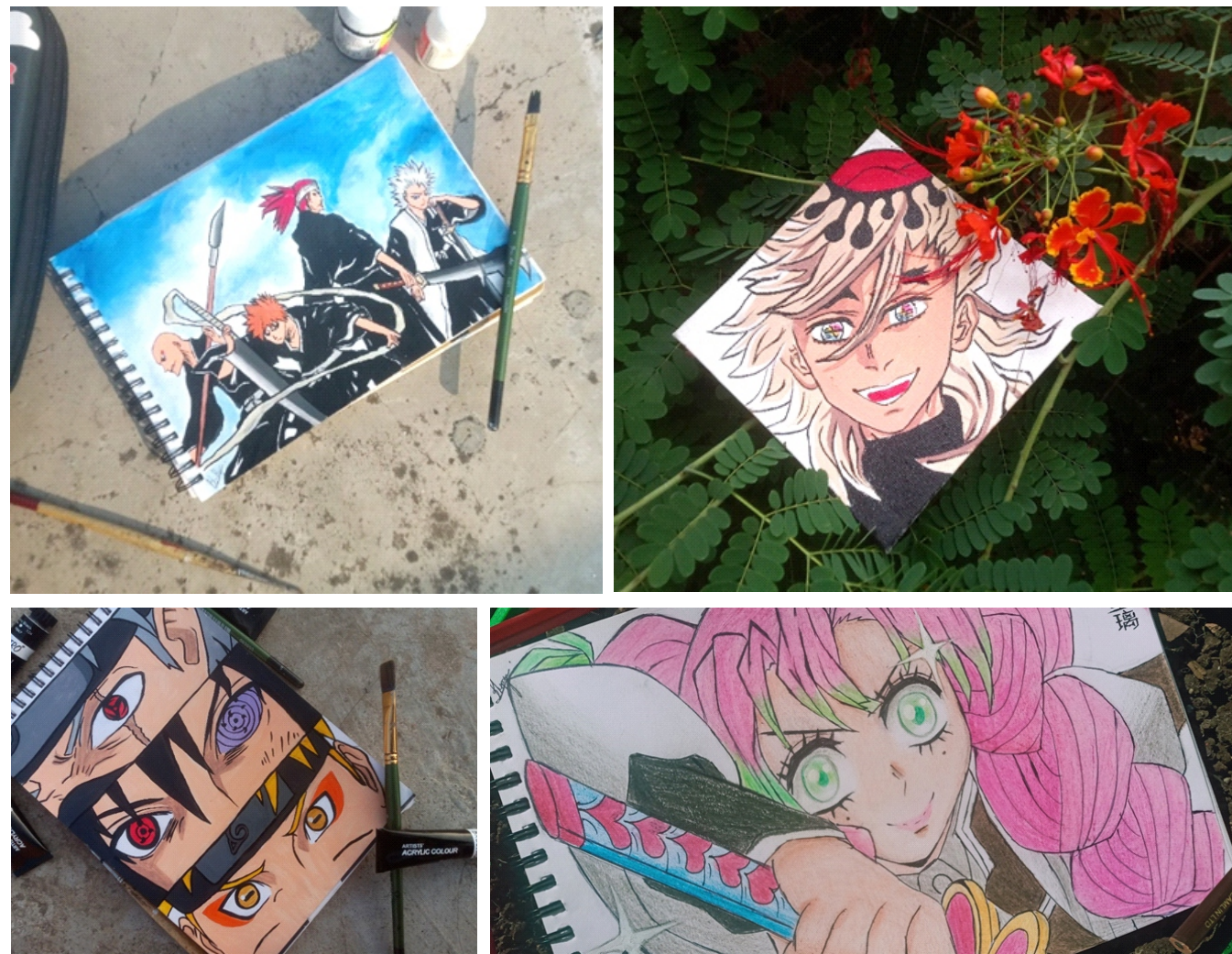
Future of Digital Twins: The evolution of Digital Twins is tied to advancements in AI, 5G, and edge computing. Future innovations will allow for even more detailed simulations and better integration across complex systems.

Students Corner



Bhanupriya Arunkumar Sahu
Third Year (B.Tech) – Div.A





Bhanupriya Arun Kumar Sahu, Akanksha Sanjay Yadav, Mansi Vijay Gade
TY B.Tech, E&TC Div-A



RISE AND REACH

Dreams take flight on wings unseen,
A spark within, a world between.
They call us forth with whispered light,
Beyond the dark, beyond the night.

Ambition stirs like ocean tides,
Through storms and calm, it never hides.
A path unknown, yet hearts still chase,
With fire strong and steady pace.

Mountains tall may test our will,
But step by step, we climb them still.
For every fall, for every scar,
We rise again, we reach the stars.

So dream, believe, and forge your way,
Let courage shine, come what may.
For those who dare, for those who strive,
Dreams will soar and come alive.



Mallinath Mudugule
Second year (B.Tech) , Div- A

KABADDI : LIFE'S LEASSON IN MOTION

Kabaddi, a sport deeply rooted in ancient Indian tradition, is more than just a game of physical prowess and strategy. It is a reflection of life itself, embodying lessons that resonate far beyond the boundaries of the playing arena. From teamwork and resilience to quick decision-making and adaptability, Kabaddi teaches us invaluable principles that can guide us through the challenges of everyday life. Let's explore how this dynamic sport mirrors the journey of life.

1. Teamwork: The Foundation of Success

In Kabaddi, no player can win alone. The game requires seamless coordination between raiders and defenders, where each member of the team plays a crucial role. Similarly, in life, we rely on the support of family, friends, and colleagues to achieve our goals. Success is rarely a solo endeavor; it is built on the foundation of collaboration and mutual trust. Just as a Kabaddi team thrives on unity, life flourishes when we work together and uplift one another.

2. **Resilience: Bouncing Back from Setbacks**

Kabaddi is a game of highs and lows. A raider may face multiple tackles and setbacks, but the key is to rise again and keep pushing forward. Life, too, is filled with challenges and failures. What matters is our ability to bounce back, learn from our mistakes, and keep moving forward with determination. Kabaddi teaches us that resilience is not just about physical strength but also mental fortitude.

3. **Quick Decision-Making: Thinking on Your Feet**

In Kabaddi, raiders have only a few seconds to strategize and execute their moves. The ability to think quickly and adapt to changing situations is crucial. Life often demands the same agility. Whether it's making career choices, handling personal relationships, or navigating unexpected challenges, the ability to make swift, informed decisions can make all the difference. Kabaddi reminds us that hesitation can lead to missed opportunities, while decisive action can pave the way for success.

4. **Balance: The Art of Offense and Defense**

Kabaddi is unique in that it requires players to excel in both offense (raiding) and defense (tackling). A good raider knows when to attack, and a skilled defender knows when to hold back. Life, too, demands a balance between taking risks and playing it safe. Whether it's pursuing dreams or managing responsibilities, finding the right equilibrium is key to thriving. Kabaddi teaches us that life is not about extremes but about harmony and balance.

5. **Focus: Staying Present in the Moment**

In Kabaddi, a moment of distraction can cost the team dearly. Raiders must stay focused on their opponents, while defenders must remain alert to anticipate moves. Similarly, in life, staying present and focused on our goals is essential. Distractions and procrastination can derail our progress. Kabaddi reminds us to stay mindful and committed to the task at hand.

6. **Adaptability: Embracing Change**

Kabaddi is a fast-paced game where strategies can change in an instant. Players must adapt to the opponent's tactics and adjust their approach accordingly. Life, too, is unpredictable. Plans may fail, circumstances may change, and we must be prepared to pivot and adapt. Kabaddi teaches us that flexibility and adaptability are vital skills for navigating life's uncertainties.

7. **Courage: Facing Challenges Head-On**

A Kabaddi raider steps into the opponent's court alone, knowing they will face multiple defenders. It takes immense courage to confront such odds. In life, we often face

situations that require us to step out of our comfort zones and take bold steps. Kabaddi inspires us to embrace courage, face our fears, and tackle challenges head-on.

8. **Discipline: The Key to Consistency**

Kabaddi demands rigorous training, discipline, and adherence to rules. Players must maintain physical fitness, practice regularly, and follow the game's regulations. Life, too, requires discipline to achieve long-term success. Whether it's maintaining a healthy lifestyle, managing time, or pursuing personal growth, discipline is the cornerstone of progress. Kabaddi shows us that consistency and dedication yield results.

9. **Celebrating Small Wins: The Journey Matters**

In Kabaddi, every point scored is celebrated, no matter how small. These incremental victories contribute to the final outcome. Similarly, in life, it's important to celebrate small achievements along the way. Each step forward, no matter how minor, brings us closer to our goals. Kabaddi reminds us to appreciate the journey and find joy in the process.

10. **Respect: Honoring Opponents and Teammates**

Kabaddi is a sport that emphasizes respect—for teammates, opponents, and the rules of the game. Life, too, thrives on mutual respect. Whether it's in personal relationships, professional settings, or social interactions, treating others with dignity and respect fosters harmony and growth. Kabaddi teaches us that true victory lies in playing with integrity and honor.

At last, What is Kabaddi?

Kabaddi as a Metaphor for Life.

Kabaddi is more than just a sport; it is a microcosm of life's challenges and triumphs. It teaches us the importance of teamwork, resilience, adaptability, and courage—qualities that are essential for navigating the complexities of life. As we watch or play Kabaddi, we are reminded that life, like the game, is a dynamic journey filled with ups and downs. By embracing the lessons of Kabaddi, we can approach life with a winning mindset, ready to tackle whatever comes our way. So, the next time you see a Kabaddi match, remember: it's not just a game—it's a reflection of life itself.



Ritesh N. Pande
Second year (B.Tech) , Div- B

STILL TIME

There is still time,
There is still time for all your living.
Time to feel the fire of fury,
And the sweet piece of forgiving.
There is still time for great pleasure.
There is still time for greatest pain.
There is still time to hit rock bottom,
And claw your way back out again.
Just how long?
There is no knowing,
But until that final chime.
There is still every possibility.
There is still time,
There is still time.



Sujit Lanke
Second Year (B.Tech), Div-B