

The Compendium



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SPARKING INNOVATION: A LOOK INSIDE THE IIC REGIONAL MEET AT IARE

The crisp December air crackled with a different kind of energy on the 11th at the Institute of Aeronautical Engineering (IARE) in Hyderabad. It was the energy of ideas, of possibility, and of a shared vision for a more innovative India. IARE played host to a regional meet of the Institutions' Innovation Council (IIC), a collaborative effort between the institute and the Ministry of Education's Innovation Cell (MHRD's IIC). The event wasn't just a collection of talks; it was a vibrant exchange of thoughts and experiences, fueled by a passionate group of educators, government officials, and changemakers. Dr. L.V. Narasimha Prasad, the Principal of IARE, set the welcoming tone. His warm introduction resonated in the hall, putting everyone at ease and creating a space for open dialogue. This spirit of inclusivity continued as Mr. Dipan Sahu, Assistant Innovation Director at MHRD's IIC, took the stage. His address wasn't a dry recitation of statistics; it was a pep talk for the future. He spoke with genuine enthusiasm about the strides India's entrepreneurial ecosystem has made, highlighting its readiness to tackle the challenges that lie ahead. It was a call to action, urging everyone present to be a part of this exciting journey.



The day wasn't just about broad strokes; it delved into the specifics of social impact. Mr. Shantharamam, the Chief Innovation Officer for the Government of Telangana, didn't mince words. He stressed the importance of social entrepreneurship and social innovation, reminding everyone that progress shouldn't leave anyone behind. His words resonated with the audience, particularly the younger faces who seemed especially energized by the prospect of using their skills to make a positive difference in their communities. Mr. K.P. Chowdary, representing MSME from the Government of Telangana, brought a touch of humor to the event. He spoke about the importance of curiosity, urging everyone to cultivate a childlike wonder about the world. His analogy resonated deeply – to be innovative, you have to be willing to ask questions, to challenge assumptions, and to see the world with fresh eyes. It was a simple yet powerful message, reminding everyone that innovation isn't just about complex technology; it's about a fundamental shift in mindset .But the IIC Regional Meet wasn't just about lofty pronouncements. It was about building connections and fostering collaboration. The speakers emphasized the importance of partnerships between institutions. This wasn't just lip service; it was a call to action for universities, colleges, and research institutions to join forces. Imagine a network of bright minds, sharing resources, expertise, and ideas – that's the power of collaboration, and the IIC Regional Meet aimed to be the spark that ignites this collaborative fire. The event wasn't all speeches and presentations. There were quiet conversations in the hallways, impromptu brainstorming sessions in corners, and a palpable sense of excitement in the air. It was clear that the ideas discussed weren't going to stay confined within the walls of the IARE auditorium. They were spilling out, taking root in the minds of those present, and transforming into the seeds of future innovations.

MINISTRY OF EDUCATION'S INNOVATION CELL
ALL INDIA COUNCIL FOR TECHNICAL EDUCATION
Presents
Institution's Innovation Council
REGIONAL MEET 2023
HYDERABAD - TELANGANA 11 December 2023
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T-WORKS

The event also boasted a distinguished list of attendees. Dr. G Janardhana Raju (Dean, School of Engineering and Convener IIC at NNRG) and Prof. Krishna Mohan Chinnala (Dean, School of Pharmacy and Vice-President of IIC) were there, lending their expertise and experience. Even faculty members like Mr. Srinivas (Associate Professor, Mechanical Department) and Mr. Naveen (Assistant Professor, CSE Department) were actively involved, showcasing the commitment of IARE's educators to fostering a culture of innovation. The presence of dignitaries like Dr. L.V. Narasimha Prasad (Principal, IARE), Mr. N. Srinivasa Rao (Secretary, TSCHE), Mrs. Manusri (Director of Finance Department, Ministry of Innovation Council), and Ms. Seema Chillar (South Central SCRO) added weight to the event. Their participation underscored the importance that government bodies are placing on nurturing innovation within India's educational landscape. The IIC Regional Meet at IARE wasn't just a one-day event; it was a springboard for future endeavors. It served as a powerful reminder that innovation thrives in an environment of collaboration, curiosity, and a shared vision for a better tomorrow. As the participants dispersed, carrying with them the spark of inspiration, one thing was certain – the ideas exchanged on that crisp December day in Hyderabad have the potential to shape a more innovative and impactful future for India.

-Nishkarsh Sharma

CONSORTIUM

IARE held its annual Consortium event during the 24th and 25th of January, 2024 at the IARE Campus as a platform for bringing together various activities, workshops, and engagements to one place for fostering technological exploration and advancement. It was an event that brought students together to explore technology and even other kinds of challenges!

The Fest held a diverse range of Student-Run Stalls and Game Zones, as well as Food Stalls. Students from Various Departments across the College organized and conducted Events for the Students to enjoy. Some promoting Innovation, some promoting Technology, and some promoting fun! Most of the events spanned two days, with enthusiastic student participation.

Some of the Tech-Events conducted were the TLE Hack 2.0 (by the CSE Department in collaboration with GDSC), Robothon and Tech Havoc. These events were held as a way of encouraging students' passion for Technology.

To foster innovation, events such as Paper Presentation, Project Expo and Poster Presentation were conducted. This provided students with a principal platform to showcase their innovative ideas that could be solutions for many modern-world problems.

As for Core Branches such as Civil Engineering, Mechanical Engineering, and Aeronautical Engineering, events like Bridge Mock-Up, RC Plane Modelling, and Flight Simulation were conducted and the students displayed their unique ideas and perspectives that could contribute to the enhancement of these fields.

To promote other interests, events such as Squid Game, Mind Quest, LAN Warzone, Editopia, Treasure Hunt, Flicker Fusion and other events were held! This event, within its 2 days, helped attendees gain practical insights and skills through Workshops. The Participants received certificates for participation, and had networking opportunities. The event accomplished its goal of staying in touch with Industry Trends, contributing to Academic and Professional Growth, as well as giving students a chance to experience the spirit of IARE in its fullness.



-Keerthi Nori

METE PROJECT EXPO 2023

The Institute of Aeronautical Engineering (IARE) hosted the METE Project Expo 2023, a grand platform that celebrated the spirit of innovation and creativity among its students. This event, organised by the Technology Innovation and Incubation Center (TIIC) and the Start-up Enclave, was a testament to IARE's commitment to fostering a culture of innovation and technical prowess. Scheduled on the 18th and 19th of December 2023, the expo was an exclusive opportunity for the first, second, and third-year students of IARE to showcase their innovative projects, simulations, posters, models, and apps. This event was a unique blend of competition and learning, providing students with a platform to exhibit their technical skills and innovative thinking. The projects on display encompassed a wide range of areas, including innovative simulations, creative posters, intricate physical models, and engaging apps. One of the highlights of the expo was the competition aspect. The best project from each department was awarded a cash prize of 5000. This was not just a reward for the hard work and dedication of the students, but also an incentive for others to strive for excellence.

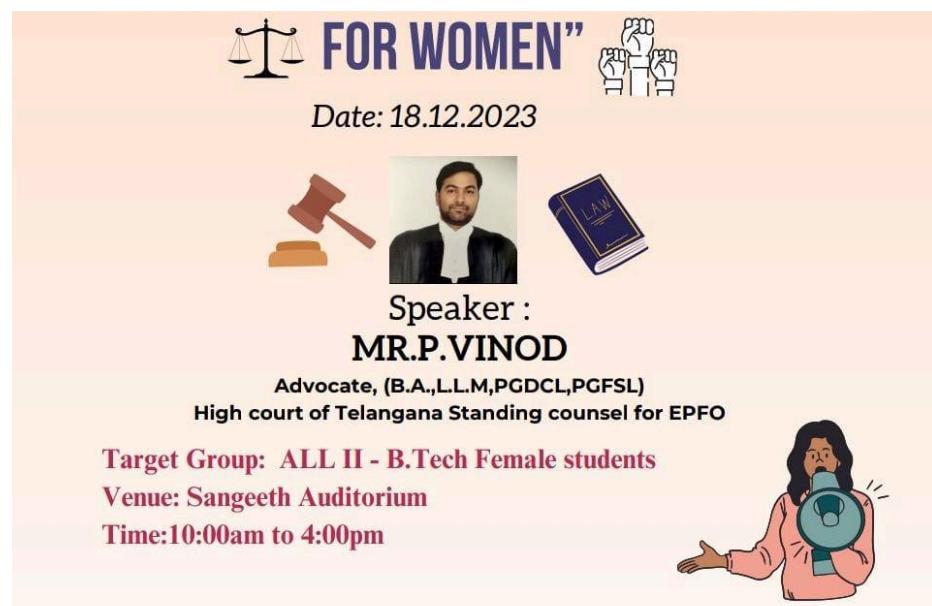


-Charan Yelimela

EMPOWER HER POSH ACT AWARENESS FOR WOMEN

The "Empower Her: Posh Act Awareness for Women" event, held on December 18th, 2023, at the Sangeeth Auditorium, IARE College, was organized by the Women Empowerment Cell. Its aim was to educate and uplift women in various aspects of empowerment, including social, economic, and political spheres. Mr. P. Vinod, an advocate, and the event speaker, shared personal stories of resilience and empowerment, offering insights and strategies for overcoming obstacles. The event covered crucial topics such as gender equality, leadership development, entrepreneurship, health and wellness, and advocacy. Attendees learnt practical skills like negotiation, financial literacy, self-care, mental health, and career advancement. Networking sessions allowed participants to connect and collaborate, fostering valuable connections and support networks. The event encouraged women to take charge of their own lives and communities, promoting women's rights and gender equality. The event was impactful, empowering women with knowledge, inspiration, and a sense of community. Participants gained valuable insights, skills, and connections for personal and professional growth. In conclusion, the event was a resounding success, empowering women to overcome barriers and create positive change. Special thanks to Mr. P. Vinod for sharing his valuable insights. The impact of the event will continue to empower women far beyond its conclusion, contributing to a more equitable and inclusive society. The event empowered women with knowledge, inspiration, and connections for personal and professional growth.

Thanks to Mr. P. Vinod for his valuable insights.



-K.Soujanya

GDSC IDEATHON

The Google developers student club at IARE successfully conducted Google's "ideathon challenge" on December 15th and 16th inviting students to showcase their innovative ideas and brilliant presentations demonstrating student's creativity and out of box thinking.

The "Ideathon", part of Google's "solution challenge", a blend of "idea" and "hackathon," was an event for students to collaborate, ideate, and innovate solutions regarding global challenges outlined by the United Nations with a focus on environment and the 17 sustainable development goals advised by it. Students were encouraged to develop projects and solutions that contribute to building a more sustainable future.

The first day ended with the teams laying the ground for their idea development, preparing their presentations, discussing ideas and being excited for the presentations and final judgement scheduled for the next day. The second day of the ideathon was even more exciting. The teams with enthusiastic students and first time innovative ideas who were trying something new were now prepared to present their presentations in front of the judge panel one by one who analysed their ideas and ranked them based on several categories such as alignment with the UN goals, innovation and overall value. The presentations and evaluations, all were no short of actual pitches.



The ideas and even digital products out of this ideathon were impressive. Some of the ideas were a digital waste management tracker that monitored waste generated ,another was a sustainable event management app that helped making more eco friendly events. These were just the tip of the iceberg of all the innovative solutions and sustainable ideas the students came up with.

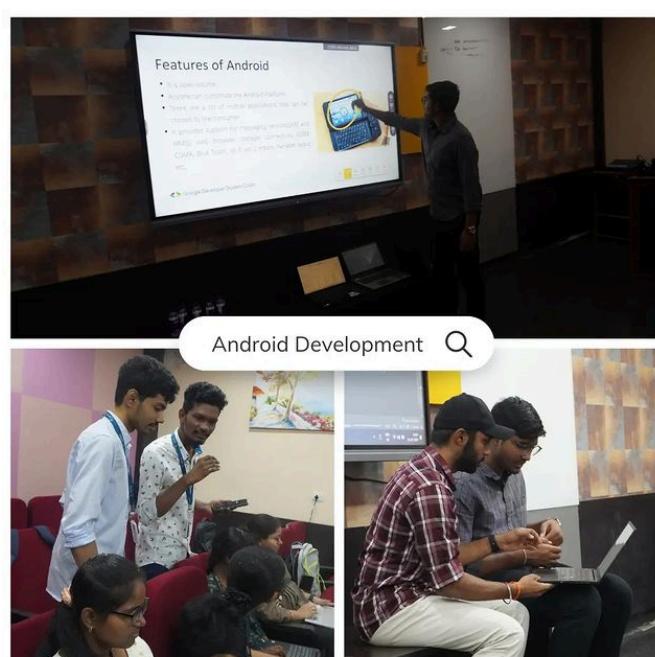
The event proved to be a massive success with around 80 students and multiple teams coming together to create and innovate ideas for sustainable causes. It further helped the students to step beyond their comfort zones and use their knowledge and interests to have ideas that benefit the planet and using technology for the greater good.

-K.Soujanya

INTRODUCTION TO ANDROID DEVELOPMENT' WORKSHOP

IARE's branch of GDSC(Google Developer's Student Clubs) conducted a workshop on the 23rd of January, 2024 with the aim of providing students with the Foundational Knowledge to Android App Development. The workshop commenced at 10:00am at the AV Centre of IARE, where they were greeted by the GDSC team. The event attracted Students, Enthusiasts, and Budding Developers eager to explore the world of Android and App development. In order to ensure perfect understanding, the event started with a simple overview of Android, the ecosystem in which it operates, and the significance it holds in today's Mobile App Landscape.

The workshop succeeded at its goal of being Interactive and Hands-On. After the Attendees learnt how to install and configure Android Studio(the official IDE for Android development), and set up their Development Environment, with the guidance of the mentors, they started with creating a new Android Project. After understanding the Project Structure, they designed layouts using XML, wrote the Java/Kotlin code, and then ran the App on an Emulator/Device. This way the participants achieved a full-pledged understanding of how a Basic Android App is created, and gained practical knowledge.



After networking with the GDSC Team and fellow developers, the event concluded at 4:00pm. Android App Development holds a principal spot in the landscape of Technology and Innovation. It is one of the fastest-developing Industries and a perfect one for graduates to step into. This workshop helped in exposing students and budding-developers to this industry-bending skill! Fostering enthusiasm for Android App Development among the participants, GDSC IARE looks forward to organizing more events to promote Technological Learning, and bridge the gap between Theoretical and Practical Knowledge.



-Keerthi Nori

HARNESSING THE POWER OF AI, ML, AND DATA SCIENCE IN BANKING, FINANCIAL SERVICES, AND INSURANCE INDUSTRY

On January 11th, 2024, the Institute of Aeronautical Engineering hosted an enlightening session on the transformative role of Artificial Intelligence (AI), Machine Learning (ML), and Data Science in the banking, financial services, and insurance (BFSI) sector, the event catered to the target group of B.Tech V Sem students specializing in Computer Science and Engineering (CSE), including those focusing on AI & ML and Data Science. The guest lecturer Prof. Nagaraju Gundala, an esteemed IT & Business Technology Leader, during the session, elucidated on the myriad applications of AI, ML, and Data Science in enhancing various aspects of banking, financial services, and insurance operations. From fraud detection and risk management to customer relationship management and personalized financial services. These cutting-edge technologies have revolutionized traditional practices, enabling organizations to optimize efficiency, mitigate risks, and deliver superior customer experiences.

Furthermore, Prof. Gundala highlighted the growing importance of data-driven decision-making in the BFSI sector, emphasizing the role of AI and ML algorithms in analyzing vast volumes of structured and unstructured data to extract actionable insights and drive strategic initiatives.

-Charan Yelimala

INDUSTRY-FOCUSED SHORT TERM COURSE

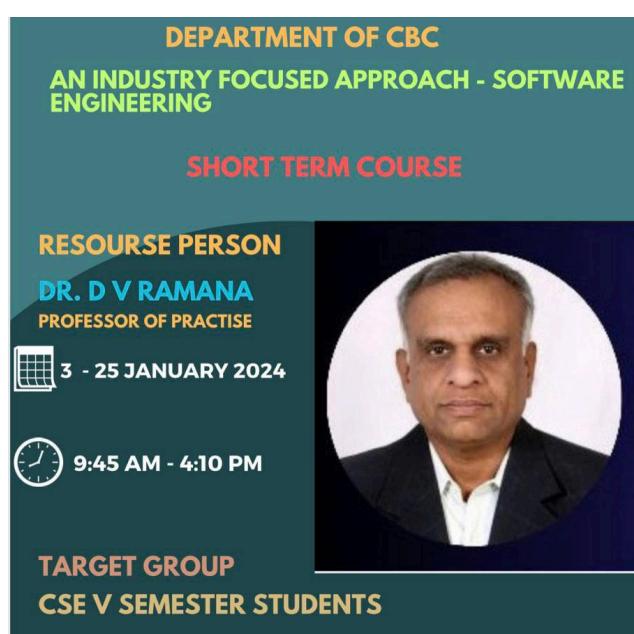
From January 3rd to 25th, 2024, the Institute of Aeronautical Engineering (IARE) hosted an industry-focused short term course aimed at enhancing the skill-set of fifth semester Computer Science and Engineering students. It was led by Dr. D. V. Ramana, professor of practice whose session unfolded from 9:45 a.m to 4:10 p.m daily, offering an industry-focused review on the current dynamics.

The purpose of the course was to bridge the gap between academic learning and practical application. The curriculum of the course was meticulously crafted to address the practical needs of the tech industry. Each day's itinerary was carefully done to encompass a diverse array of topics, ranging from core technical skills to communication and problem solving skills.

This was made possible through the diligent efforts of the Competency Building Division (CBC) at IARE. At the helm of this transformative initiative, the CBC, under the leadership of the esteemed faculty members including Dr. V V S Haranadh Prasad, Dr. G Hima Bindu, and Dr. Madhusudhan Rao, orchestrated this event recognising the dire need for students to develop skills that would enhance their working experience in their respective jobs.

As the course wrapped up, participants felt a quiet sense of assurance, equipped with newfound skills and guidance. They were prepared to navigate through the complexities of the tech industry, eager to make a difference and create their own success stories.

It stands as a testament to the institute's commitment to forge its students to meet the demands of the industry. As they embark on their journey, this step towards their professional training would help them pave the way to their future.



-Ramya Nukala

INTRA-INSTITUTIONAL INNOVATION COMPETITION: SHOWCASING INGENUITY AT IARE COLLEGE

Innovation knows no bounds, especially when it comes to the dynamic environment of IARE College. From February 26th to 29th, 2024, the campus buzzed with excitement as the Technology Innovation and Incubation Centre (TIIC) hosted the eagerly anticipated Intra-Institutional Innovation Competition. With a diverse array of themes ranging from Smart Automation and Robotics to Blockchain and Cybersecurity, the event promised to be a celebration of creativity and forward-thinking solutions. The competition kicked off each day at 9:30 AM till 4:30 PM, offering participants ample time to present their innovative ideas and projects. Held at the state-of-the-art TIIC Centre, the venue provided the perfect backdrop for participants to showcase their ingenuity in various fields. The theme of this year's competition, "Smart Automation, Robotics & Drones, Waste Management, Clean & Portable Water, Blockchain & Cybersecurity, AI & ML, Heritage & Culture, Smart Vehicles, Renewable/Sustainable Energy, Smart Education, Miscellaneous" encompassed a wide spectrum of contemporary issues and technological advancements. It challenged participants to think critically and creatively about addressing pressing global challenges while harnessing the power of innovation. Throughout the event, attendees were treated to limitless innovative projects and presentations, each offering unique insights and solutions to real-world problems. From cutting-edge robotic prototypes to blockchain-based cybersecurity solutions, the competition showcased the talent of the students and faculty at IARE College.

One of the highlights of the competition was the emphasis on sustainability and environmental conservation. Projects focusing on waste management, renewable energy, and clean water solutions underscored the college's commitment to address pressing environmental issues through technological innovation. Moreover, the competition provided a platform for interdisciplinary collaboration, with participants from various departments coming together to tackle complex challenges. This collaborative spirit fostered a vibrant exchange of ideas and perspectives, enriching the overall experience for participants and attendees alike. As the competition drew to a close on February 29th, it was evident that the spirit of innovation and creativity was alive and thriving at IARE College. The Intra-Institutional Innovation Competition not only showcased the remarkable talent of the college's community but also demonstrated its dedication towards making a positive impact through technology and innovation.

-Hisham Khan

MLH FROSTHACKS

The Major League Hacking community's Hackathon- FrostHacks was held at IARE! The event was ceremoniously organized and conducted by the students of IARE and it ignited many student's passion for Technology and Coding. It was a 36-hour Hackathon conducted from 9:00am on the 20th of January, up until 6:30pm the next day at the IARE Campus. The hackathon commenced with an opening ceremony featuring phenomenal insights from the speakers. Along with the Hackathon, even Workshops and Mentorship sessions were conducted on the side by industry experts. This helped in enriching many student's interest and knowledge in the field of Technology.

To come up with Industry-Bending Ideas to provide solutions for the questions introduced, the teams worked tirelessly for 36 hours to develop their projects, leveraging a wide array of Programming Languages, Frameworks, and Technologies. And then as the Hackathon drew to a close, the teams presented their projects to the Panel of Judges, a crew of three well-experienced Tech-experts.

To add a hint of zest to the event between the fatigue of continuous problem-solving and intense hacking sessions, some fun Mini-Events such as a Campfire, DJ Performances, and FlashMobs were conducted. These Events allowed the Participants to relax, socialize, and recharge their energy levels. The Organising Committee provided Breakfast, Lunch, Tea, and Biscuits throughout the hackathon to ensure that the participants were fully active and refreshed.

This event also provided an enjoyable platform for the participants to network with the Mentors, Judges, and even other fellow participants from other States and Colleges. Constructive Feedback from the Mentors and Judges aided in refining ideas and improving projects. It also opened up new doors to creative and critical-thinking for the participants!



The FrostHacks event put IARE on the map as an Institute at Hyderabad that encourages and reinforces advancements in Problem-Solving and Technology. The Organising-Committee pulled off the event with grace and helped so many students reach into corners of Coding that they had never ventured into before!



-Keerthi Nori

STRESSFIT SEMINAR: MINDFULNESS & ART THERAPY

The seminar on "StressFit - Winning Over the Mind through Mindfulness, Relaxation, and Art Therapy" was held at the Sangeeth Auditorium in IARE on December 19th, 2023. The seminar was targeted towards first-year B.Tech students and aimed to address the prevalent issue of stress and provide effective coping mechanisms. Dr. Geetha Chala, a renowned psychologist and the founder-director of Manojagrithi Sudisha Counselling Centre, served as the speaker for the event.

The seminar commenced at 10:00 AM with an introduction by the conveners, highlighting the importance of mental well-being, especially for students facing such challenges. Dr. Geetha Chala then took the stage, delivering an insightful presentation on stress management techniques, mindfulness practices, relaxation methods, and the therapeutic benefits of art.

Throughout her session, Dr. Geetha Chala engaged the audience with interactive activities, like guided mindfulness exercises. The seminar also provided a platform for open discussions on stress and mental health, promoting mental health awareness. Dr. Geetha Chala offered practical advice and personalised guidance to attendees, empowering them to proactively manage stress and mental distress.

The event concluded at 4:00 PM with a closing remark from the organisers, expressing gratitude to Dr. Geetha Chala for her insightful session. Dealing with mental health issues has always been a taboo, but IARE's progressive actions are causing a breakthrough in existing scenarios. By prioritising the well-being of its students, the institute is not only addressing the current challenges but also shaping a healthier future where mental health is recognized and supported without stigma. With continued efforts and awareness, students were encouraged to implement the exercise into their lifestyle, fostering a culture of mental well-being.

--Ramya Nukala

EXPLORING THE FUTURE: DR. RAJU DANDU'S LECTURE ON SMART MANUFACTURING AND ABET ACCREDITATION

On December 30, 2023, A renowned expert in the field of engineering. Dr. Raju Dandu visited IARE to unravel the complexities of Smart Manufacturing and shed light on the significance of ABET Accreditation in shaping the future of engineering education.

The lecture commenced with an exploration of Smart Manufacturing, a paradigm shift that is redefining traditional manufacturing processes through the integration of digital technologies. Dr. Dandu expressively illuminated the transformative impact of technologies such as IoT, AI, and data analytics in optimizing production processes and driving operational efficiency.

Drawing from real-world examples and case studies, Dr. Dandu illustrated how Smart Manufacturing is revolutionizing industries, from automotive and aerospace to healthcare and consumer goods. His explanations clarified complex concepts, making them accessible to students of all backgrounds.

However, Dr. Dandu didn't stop there. He seamlessly transitioned into a discussion on the importance of ABET Accreditation, emphasizing its role in ensuring the quality and relevance of engineering education. With clarity and conviction, he underscored the rigorous standards set by ABET and the value it brings to both students and employers.

As the lecture drew to a close, the audience was left inspired and energized. The Q&A session that followed was lively, with students posing thought-provoking questions and Dr. Dandu providing insightful answers backed by his vast experience.

Dr. Raju Dandu's visit to our college was not just an event; it was a catalyst for change. His expertise in Smart Manufacturing and ABET Accreditation served as a beacon, guiding us towards a future where innovation and excellence go hand in hand.

-Hisham Khan

RANDII N20 FACTORY

RANDII was a fun artistic event organised by the comedy club of IARE, N20 Factory. The event took place on the lovely afternoon of 16th December 2023, between 2 pm and 4 pm at Sangeeth Auditorium.

It was a funny and relaxed open mic event featuring stand-up comedy, poetry, and storytelling. Amidst the busy college life, full of assignments and exams, this event was a breath of fresh air, offering creative and artistic performances by the students of IARE.

The students and members of N20 Factory performed stand-up comedy, providing a platform for new and upcoming artists to explore their talent. The event also included beautiful storytelling and poetry sessions, where people shared their deeply hidden pieces of writing and poetry, often tucked away in their notes app. This time, they let their creativity shine and had the courage to share their thoughts and feelings with the audience through poems and stories.

The session was filled with mixed emotions, from laughter during the stand-up comedy to moments of sadness evoked by the poetry, leaving people in deep thought. The poetry covered a wide range of topics, from untold dreams that were never chased to love that never bloomed. It provided a platform for people to express themselves through eloquent poetry and storytelling.

The event gave students a chance to take a break from their hectic schedules and enjoy themselves. It provided a fun and relieving time to relax, while simultaneously offering upcoming artists, storytellers, writers, and poets a stage to perform their art, be in the spotlight, and be bold in their creative expression.

The ambience of the auditorium was lively, with the audience eagerly participating in the performances. There were moments of uproarious laughter, followed by pin-drop silence as the audience was captivated by the emotional depth of the poetry and storytelling.

Overall, RANDII was not just an event; it was an experience, a celebration of creativity, expression, and talent.

-K.Soujanya

DEPARTMENTAL ACTIVITIES

AERONAUTICAL DEPARTMENT

One Day Seminar on Recent Trends in Experimental Aerodynamics in Modern Flight Vehicles

The Department of Aeronautical Engineering conducted a comprehensive seminar to address the critical issues and innovations shaping modern aerodynamics, particularly advanced flight vehicles. The day-long event, held on January 29th, 2024, from 10:00 AM to 4:00 PM at the A/V Centre, IARE, brought together experts and enthusiasts to explore different areas. Classical route aircraft, the workhorses of the aviation industry, were the main focus, with discussions centered on current trends in their design and layout. Attendees gained valuable insights into the distinctive features and pioneering advancements defining the next generation of flight vehicles.

The seminar also specifically addressed the unique aerodynamic challenges faced by hypersonic vehicles, a rapidly developing field with immense potential. Civil Supersonic Transport (SST) aircraft, long sought after for their ability to drastically reduce travel times, were another central theme.

The event explored the hurdles and opportunities lying on the path to bring supersonic passenger travel back to the skies. Flow control methods for drag reduction garnered significant attention during the seminar. Established techniques and novel approaches were presented and analyzed, providing attendees with a well-rounded understanding of this critical aspect of aerodynamic efficiency.

The seminar boasted a distinguished line-up of speakers, including Prof. Firoz Alam, a renowned aerodynamics expert from the Royal Melbourne Institute of Technology (RMIT) in Australia. Prof. Alam shared valuable insights gleaned from his extensive research. Dr. A. Ranjan Paul, from the Motilal Nehru National Institute of Technology (MNNIT) in Allahabad, India, also presented, offering his expertise on the practical realities of experimental aerodynamics. The seminar on advancements in aerodynamics proved to be a valuable platform for knowledge sharing and professional networking. Attendees gained exposure to cutting-edge research, engaged in stimulating discussions with experts and fellow enthusiasts, and explored potential avenues for collaboration. The event helped the students stay up-to-date on the latest trends and innovations, continuously shaping the exciting world of aerodynamics.

-Tanish

Opportunities in EV Sector

The Department of Aeronautical Engineering at IARE hosted a seminar on December 29th, 2023, titled "Opportunities in EV Sector" at the A/V Centre. The event attracted a keen audience eager to know about the exciting world of electric vehicles (EVs).

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As the world transitions towards sustainable transportation solutions, understanding the potential and career opportunities within the EV industry is becoming increasingly important. The seminar started with a deep dive into the latest trends shaping the global EV market. Students gained valuable insights into the market's growth trajectory, adoption rates, and the dynamic forces driving change. A core focus of the seminar was exploring the diverse career paths available within the EV sector. Mr. B Satyanarayana, a distinguished faculty member from the Department of Mechanical Engineering at IARE, Hyderabad, served as the guest speaker.

He shed light on exciting opportunities across various segments of the EV industry: Participants learned about the crucial role of R&D in innovation, from developing cutting-edge battery technology and power electronics to spearheading advancements in vehicle design. Manufacturing and Production: The seminar explored the intricate processes involved in EV assembly and production, highlighting the importance of quality control measures. Sales and Marketing: Understanding how to effectively promote EVs and educate consumers about their benefits emerged as a key takeaway for those interested in this dynamic field. Infrastructure Development: The session emphasized the critical role of infrastructure development, including charging stations and grid integration, in supporting the widespread adoption of EVs. The seminar also addressed the significant environmental impact of EVs.

Discussions explored how EVs contribute to reducing greenhouse gas emissions, a major factor driving the shift towards sustainable transportation. Participants comprehended the life cycle assessments and the responsible recycling of EV components, ensuring a holistic understanding of the environmental benefits of EVs. This event undoubtedly ignited a passion for sustainable transportation solutions among the attendees, propelling them to become active participants in shaping the future of mobility.

-Tanish

ECE DEPARTMENT

One-Week Workshop on Neural Imaging

The Department of Electronics & Communication Engineering at the Institute of Aeronautical Engineering (IARE) conducted a successful one-week workshop on "Advanced Neural Imaging." Held from January 19th to 25th, 2024, the program immersed V-semester ECE students in the captivating field of neural imaging, where image-processing techniques intertwine with the power of neural networks. The workshop provided a unique opportunity for students to gain both theoretical knowledge and practical skills. Participants learned the fundamentals of neural networks and explored their applications in image analysis through hands-on sessions. Led by industry experts like Zaheer Ahamed.M (Senior Data Scientist, Carealon Global Solutions, Hyderabad), students learned valuable techniques for

DEPARTMENTAL ACTIVITIES

preprocessing real-world image data, training their own neural networks, and interpreting the resulting insights. Additionally, the workshop addressed the challenges encountered in neural imaging and explored innovative solutions with the guidance of experts. The program ventured beyond core concepts, going into the intriguing intersection of neural imaging with virtual reality technologies, sparking ideas for future advancements in this field. K. Shaheena (Zaven Technologies) shared her in-depth knowledge, enriching the workshop with insights into this exciting area. Mr. B. Nagendra Babu (ML Engineer, Edge9 Technologies, Hyderabad) further complemented the learning experience by providing valuable insights into real-world applications of neural imaging and industry best practices. This successful workshop served as a valuable platform for V-semester ECE students. They gained practical skills, networked with industry professionals, and gained a foothold in this rapidly evolving field. The knowledge and connections fostered during the program will undoubtedly equip them to make significant contributions to the exciting world of neural imaging.

-Tanish

Lecture on Thermoelectric Properties of Metal Oxides

The Department of Mechanical Engineering at IARE College recently hosted a thought-provoking expert lecture on "Thermoelectric Properties of Metal Oxide Materials." Delivered by the renowned Prof. Phan Bach Thang on February 26th, 2024, the lecture delved into the exciting world of thermoelectricity and its potential using metal oxide compounds. Under the leadership of Mr. A. Devender Reddy, Convenor, and Mr. P. Ranga Reddy, Secretary, the program unfolded with a series of engaging sessions and discussions. Eminent speakers from academia, industry, and government sectors deliberated on various aspects of sustainability, urging participants to embrace responsible corporate stewardship.

The event kicked off with a compelling keynote address by Mr. Jaywant Naidu, setting the stage for discussions on sustainability challenges and opportunities. Panel discussions on topics such as green supply chain management and renewable energy integration sparked lively debates, while interactive workshops equipped participants with practical skills to implement sustainability-driven strategies. Beyond its educational components, the program facilitated networking and collaboration among attendees, fostering partnerships aimed at advancing sustainability agendas. These interactions underscored the importance of collective action in addressing environmental issues and promoting sustainable business practices.

-Charan Yelimala

DEPARTMENTAL ACTIVITIES

CIVIL DEPARTMENT

Ultra High-Performance Concrete (UHPC) and Its Applications for Infrastructure Resilience

The Department of Civil Engineering at the Institute of Aeronautical Engineering (IARE) successfully hosted a seminar titled "Ultra High-Performance Concrete (UHPC) and its Applications for Infrastructure Resilience" on January 8th, 2024.

The seminar, held at the A/V center, attracted students and faculty members interested in exploring the potential of this advanced material in building stronger and more durable infrastructure.

Dr. Sriram Aaleti, a renowned expert in concrete technology from Iowa State University, led the session. He talked about the core aspects of UHPC, explaining its unique composition, superior properties, and manufacturing process.

Students gained an understanding of what differentiates UHPC from conventional concrete, making it a valuable material for various infrastructure projects. The seminar progressed to showcase real-world applications of UHPC, highlighting its potential to revolutionize infrastructure development.

Dr. Aaleti presented case studies where UHPC has demonstrably enhanced the lifespan and load-bearing capacity of bridges and highways. Students learned how UHPC contributes to the construction of high-rise buildings and towers, ensuring better stability and resilience.

The discussion also explored how UHPC can be effectively utilized for repairing and strengthening existing infrastructure, extending its useful life. A significant focus of the seminar was UHPC's contribution to building infrastructure resilience and how UHPC can withstand natural disasters, extreme weather events, and seismic activity, safeguarding structures and ensuring public safety.

Dr. Aaleti also discussed the eco-friendly properties of UHPC and its reduced environmental impact compared to traditional concrete, making it a sustainable choice for future infrastructure projects. The seminar on UHPC provided a valuable platform for knowledge sharing and professional networking.

Participants gained insights into this cutting-edge concrete technology, explored its potential to enhance infrastructure durability, and broadened their understanding of its role in building resilient infrastructure for the future. The event encouraged discussions between students, faculty members, and Dr. Aaleti, creating an enriching environment for learning and collaboration.

-Tanish

STUDENT ARTS



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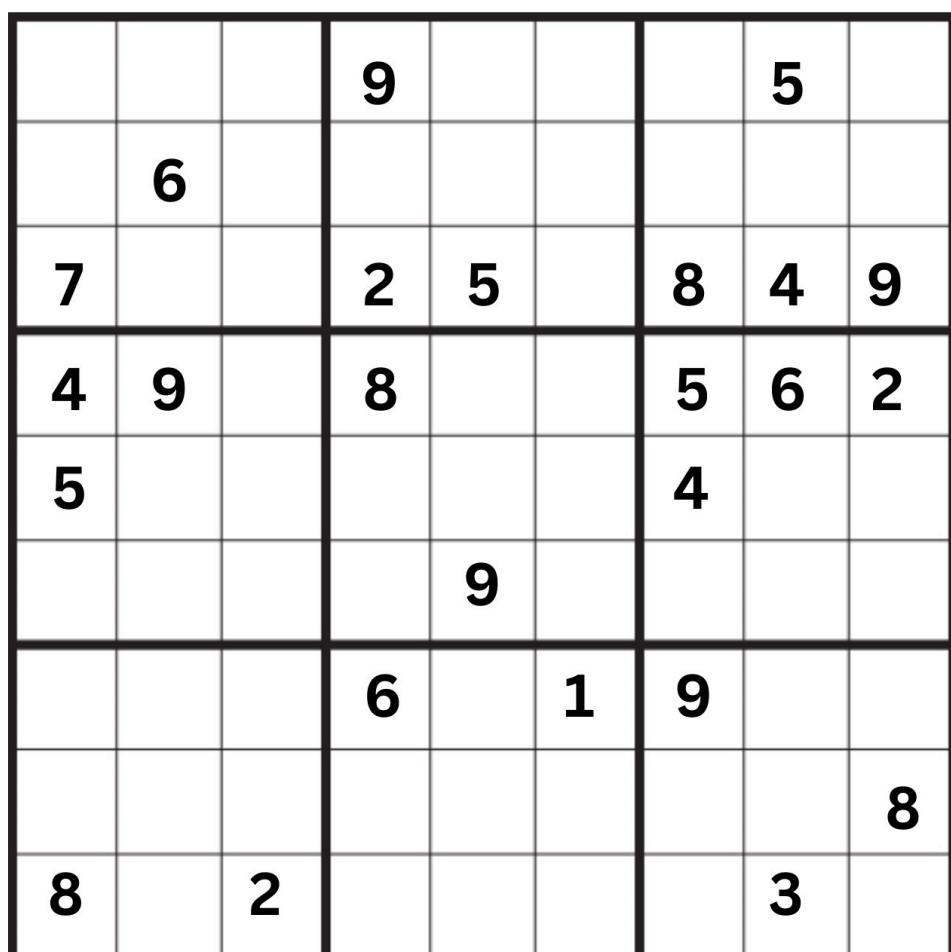
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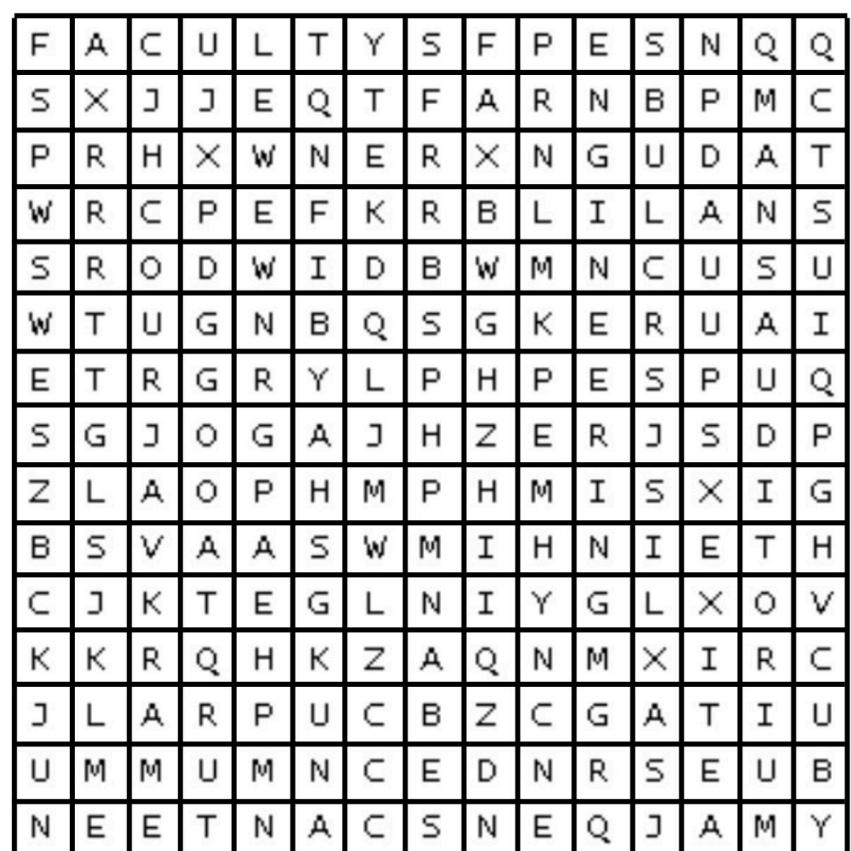
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ARCADE

SUDOKU



WORD MAZE



AUDITORIUM

CANTEEN

CLUBS

ENGINEERING

FACULTY

IARE

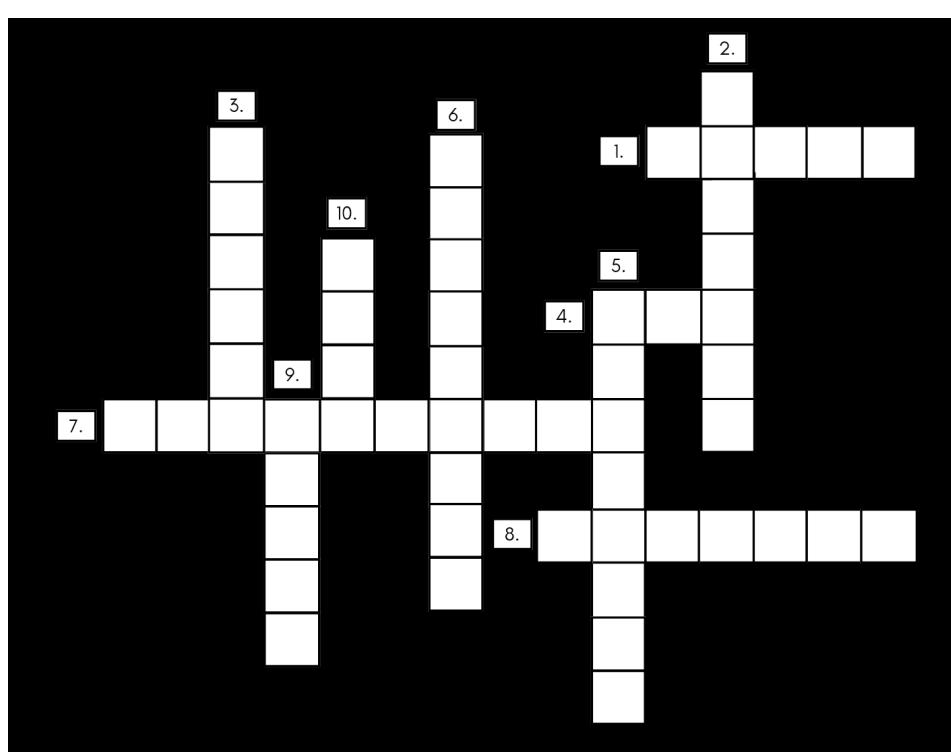
PARKING

PROGRAMMING

SPORTS

STUDENTS

PUZZLE



ACROSS

- 1. BLOCK NUMBER WHICH CONTAINS CANTEEN
- 2. CLUB OF LITERARY
- 3. SNAKE OR PROGRAMMING LANGUAGE
- 4. FLUTTER BOOTCAMP
- 5. WHAT DO YOU TREASURE FROM COLLEGE DAYS?
- 6. IARE X JNTU
- 7. OUR TECHNICAL EVENT
- 8. WHAT MAKES BORING DAYS FUN?
- 9. BEST THING IN THE CLASS
- 10. NO OF PLAYGROUNDS IN COLLEGE

DOWN

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