



DAYANANDA SAGAR
UNIVERSITY



SCHOOL OF
ENGINEERING

SOE - "The Weekly Buzz"

The Official Weekly Newsletter of **School of Engineering**



Week#29 (July 15 to 20, 2024)

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SCHOOL OF ENGINEERING

VISION

- Transform lives through excellence in engineering education, research and innovation with an emphasis on sustainability, inclusive technologies and global needs.

MISSION

- Design and deliver contemporary engineering curricula to address regional and global needs while emphasizing ethics, values, integrity and regional relevance.
- Carryout high impact academic research, industry projects and innovation activities with active student engagement to advance science and engineering knowledge and state-of-the art industry practices.
- Develop regional and national leaders to advance the society and economy.

Faculty Contributions

Department of ECE

- Dr. Arun Balodi to serve as Track Chair, Publicity Chair and Session Chair at IEEE CONECCT 2024. IEEE CONECCT is a premier international conference dedicated to advances in Electronics, Computing, and Communication Technologies. The 10th edition of this multidisciplinary conference will be held at the Indian Institute of Science, Bangalore, India, from July 12-14, 2024.
- Dr. Arun Balodi reviewed the, entitled "WSRC-PCGS: A Novel Weighted Ensemble Algorithm for Efficient Tomato Leaf Disease Detection and Classification" for the IETE Journal of Research.



“Machine Learning Applications in Manufacturing”

Participation in ONE WEEK Workshop on “Machine Learning Applications in Manufacturing” (15th July – 20th July, 2024).

Sponsored by Scheme for Promotion of Academic and Research Collaboration (SPARC), MoE, GOI. Organized by Department of Mechanical Engineering, NIT Warangal. Collaboration with Clemson University, South Carolina & University at Buffalo, United States.

This workshop aims to equip participants with the skills needed to design and implement machine learning algorithms tailored for manufacturing challenges. Through hands-on training, participants will explore conceptual designing, decisive manufacturing, and modeling concepts relevant to metal forming and additive manufacturing. Additionally, they will learn to develop material and process models using experimental data, gaining valuable insights into emerging areas of research. With a strong foundation in these domains, participants can apply their knowledge to develop material models and utilize machine learning for predictive analysis in manufacturing processes.

Faculty Participated are:

- Dr. SaravanaBavan. D, Associate Professor, Department of ME
- Dr. Vinay M S, Assistant Professor, Department of ME
- Dr. Vinutha. N, Associate Professor, Department of CSE (AIML)
- Prof. Pradeep Kumar K, Assistant Professor, Department of CSE (AIML)
- Prof. Udaya Bhaskara, Assistant Professor, Department of CSE (AIML)



Department of CSE

The Department of CSE has successfully conducted a five-day Faculty Development Program (FDP) on “Augmented Reality and Virtual Reality (AR & VR)”, from 12th July to 18th July 2024 at School of Engineering, Dayananda Sagar University, Harohalli, Bangalore.

The objective of the FDP is to train faculty with practical skills on AR & VR technologies so that faculty members will train students on the same.

A total of 60 participants have registered for the course and have attended with 100% attendance. According to the schedule all the sessions were delivered effectively by respective speakers.

The sessions were engaged by Trainers from Learnfella Technologies, Chennai & Key Note sessions by Industry Expert Mr. Mugunthan, XR Unity Developer, HCL technologies and Vijendra Venkatesh, SoC Design Verification Engineer from Intel Technologies.

The Five-Day Faculty Development Program on "Augmented Reality and Virtual Reality" successfully empowered participants with essential knowledge and skills in scene creation, implementing textures, gravity and lighting. The program not only enriched the participants' professional growth but also contributed to the integration of AR & VR technology in education and research.

I would like to thank the organizing team, trainers, and participants for their dedication and enthusiasm.

SCHOOL OF ENGINEERING


DAYANANDA SAGAR UNIVERSITY
 Devarakaggalhalli, Harohalli, Kanakapura Road, Ramenagara Dt - 562 132
 Department of Computer Science & Engineering

INVITATION
 We cordially invite you to be a part of the inauguration of
 A five day faculty development program on
AUGMENTED REALITY & VIRTUAL REALITY (AR & VR)

Date & venue :
 12th to 16th July 2024
 Lecture Theater 2,
 Block-A, Self.

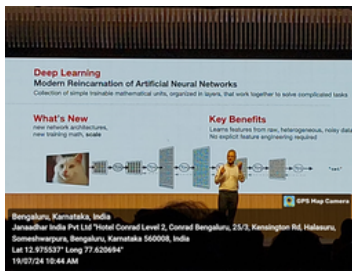
CHIEF GUEST
 Mr. Rajendran R
 XR unity developer, ICL, Strids, HCL TECH,
 HCL CAMPUS, Bande Nalla Sombra, Agart, Bengaluru.

ORGANIZED BY
 Department of Computer Science and Engineering




Department of CSE (Data Science)

Prof. Shivamma D, Assistant Professor, Dept. of CSE (DS) attended “Power of Alat Target Multiplai 2024” In the association with Data Science @ DSU Club. Technology evolution in enterprises: Balakrishnan Sreenivasan, IBM Distinguished Engineer, IBM; Past present future of big data: Jyothish Cherian, Vice President, Wells Fargo; Edge AI for Digital Transformation, Dr. Pethuru Raj, V, Vice President, Reliance Jio Platforms Ltd.



Department of CSE (AIML)

IEEE CONECCT 2024 is a premier international conference dedicated to advances in Electronics, Computing and Communication Technologies. The 10th edition of this multidisciplinary conference held in the Indian Institute of Science, Bangalore, India, from July 12-14, 2024. Two paper was accepted and presented in in person at IISc Bangalore during July 12-14, 2024.



Student Activities

Department of ECE

7th semester ECE students, Vinod Ajath G A (ENG22EC1018), Vani D Lachyan (ENG21EC0136), Vishwanath Shivanand Malabasari, (ENG21EC0145) and Jayanth A Tasgaonkar (ENG22EC1008) participated in the Open Automation Challenge 2024 of converting Ideas to Reality conducted by BR Automation India in Pune, where they won FIRST Prize.

They were trained in an automation studio which was lined up with the Bosch Rexroth lab.

Mentor: Ms. K Sudha Deepthi, Manager- Bosch Lab



Department of Aerospace

Mr Sunil G Alumini Department of Aerospace Engineering joined IIT Kanpur for M. Tech program in the Department of Aerospace Engineering, specialization: Aerothermodynamics and thermal sciences. The admission was on the basis of Gate Score 2024 with All India Rank (AIR): 342.

Mr K Raghav and Mr Yashas from the department of Aerospace Engineering participated in a “National Level Drone build competition Hackathon” organised by Department of Electronics & Communication Engineering at Vidya Vikas Institute of Engineering and Technology Mysore on 19 July 2024.

Mentored by Prof. Sripad Kulkarni, Assistant Professor, Aerospace.



“Industry-Academia Round table on Technology Trends”

Dayananda Sagar University hosted an insightful roundtable discussion on "Navigating the Future: Industry-Academia Roundtable on Technology Trends" on 19th July from 10:30 to 12:30 pm at its main campus, Harohalli, Kanakapura Road. The event brought together distinguished industry leaders to share their expertise on the evolving technology landscape. Dr. Udaya Kumar Reddy, Dean SoE, welcomed the guests and participants. Ms. Vijayanthi B Desai, Director, Communications, Corporate & Government Relations, DSU, introduced all the distinguished speakers of the event.

Key highlights:

Mr. Balakrishnan Sreenivasan, IBM Distinguished Engineer, discussed about 'Technology evolution in enterprises' and shared the journey of enterprise evolution to industrialised IT and now moving to product centric IT delivery models, and how technology trends are helping business like Generative AI, Small Fit-for purpose models, Future of Quantum and Quantum safe, enterprises rethinking cloud strategy, exploiting data, transforming security to zero-trust models etc.

Mr. Jyothish Cherian, Vice President at Wells Fargo, provided insights on 'The past, present, and future of big data', gave a holistic picture about the types of big data, its use-cases and its applications in enterprises and how it helps Data Science Cloud, and GEN AI dependency on it etc.

Dr. Pethuru Raj PhD, SMIEEE, Vice President at Reliance Jio Platforms Ltd., explored the role of 'Edge AI in digital transformation' and gave an insight on what is Edge AI? AI model engineering, evaluation, optimisation, deployment and observability and the potential industrial use cases of Edge AI. The engaging discussions fostered valuable knowledge-sharing between industry and academia, paving the way for collaborative innovation. Indeed, it was a very insightful and rewarding experience for the faculty of DSU SoE!





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