



SCHOOL OF ENGINEERING

SOE-BULLETIN

The Official Newsletter of **School of Engineering**



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

1. Design and deliver contemporary engineering curricula to address regional and global needs while emphasizing ethics, values, integrity and regional relevance.
2. Carry out 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.
3. Develop regional and national leaders to advance the society and economy.

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SCHOOL OF ENGINEERING



WORKSHOPS / SKILL DEVELOPMENT PROGRAMS

One-Day Workshop on “Python-Django”

The Department Of Computer Science and Engineering department hosted an online hands-on workshop on Django, the Python web framework on July 27, 2024. The event aimed to equip faculty members with the necessary skills to teach the Python-Django course in the Skill Enhancement-3 module of the 5th-semester curriculum.

The workshop saw enthusiastic participation from around 80 faculty members and students. By the end of the session, participants had successfully developed web applications using Django, gaining practical experience in various aspects of the framework.

Mr. Chandrashekar Rao Kuthyar, Lead Consultant at Sangam One Connected Services Private Limited, conducted the workshop. His expertise and clear instruction ensured that attendees could grasp the concepts and apply them effectively.



SCHOOL OF ENGINEERING
DAYANANDA SAGAR UNIVERSITY
SCHOOL OF ENGINEERING
Devarakaggalahalli, Harohalli, Kanakapura Road, Ramanagara Dist-562 112
Department of Computer Science and Engineering

ONE DAY WORKSHOP ON PYTHON-DJANGO
COMPLETELY HANDS-ON
MODE : ONLINE

RESOURCE PERSON

Chandrashekar Rao Kuthyar
Lead Consultant at SangamOne
Connected Services Private Limited

CONVENERS
> Dr. Udaya Kumar Reddy K R
Dean of SOE-DSU
> Dr. Girisha G S
Chairman CSE-DSU

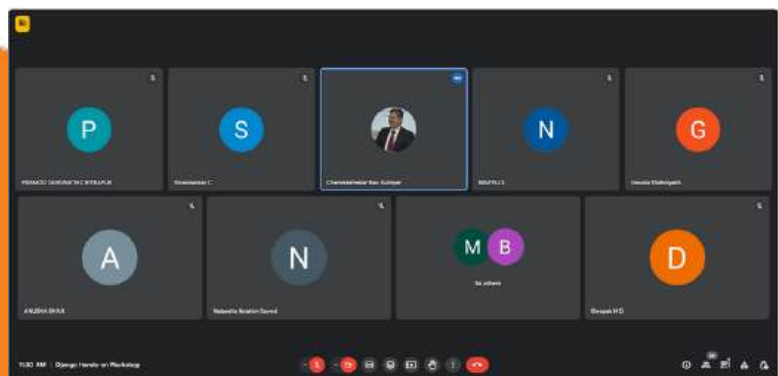
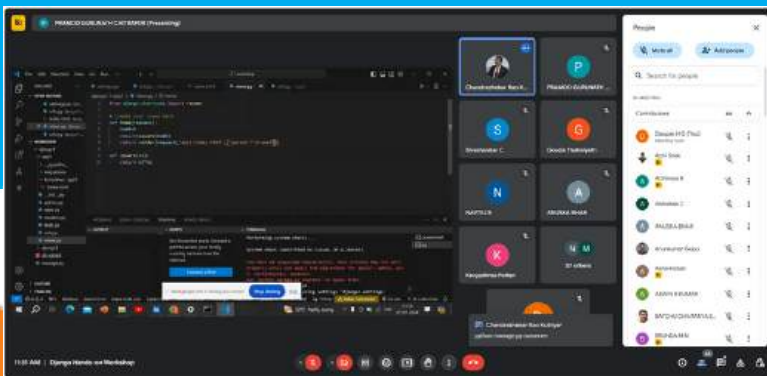
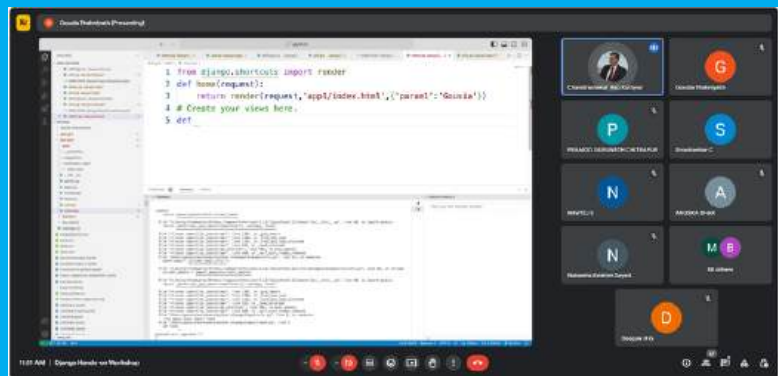
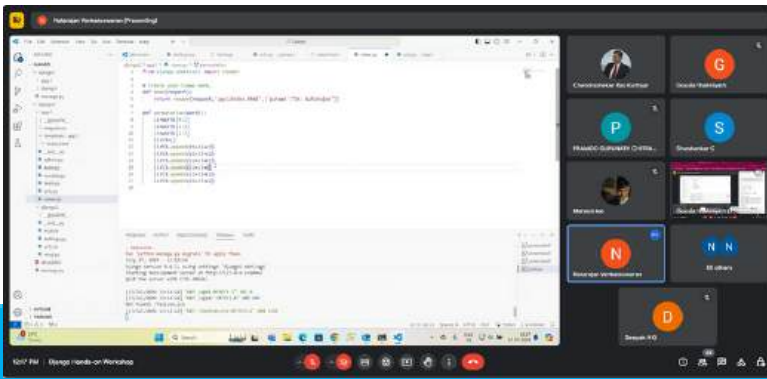
REGISTRATION LINK
Register through the Link
or Scan the QR Code
<https://forms.gle/V65BZNdms21qPR0H6>

Join the workshop through
this below Link
Or Scan the QR Code
<https://whereby.com/sangamone>

DATE & TIMINGS
27th July 2024
9:30 am to 12:30 pm
1:30 pm to 4:30 pm

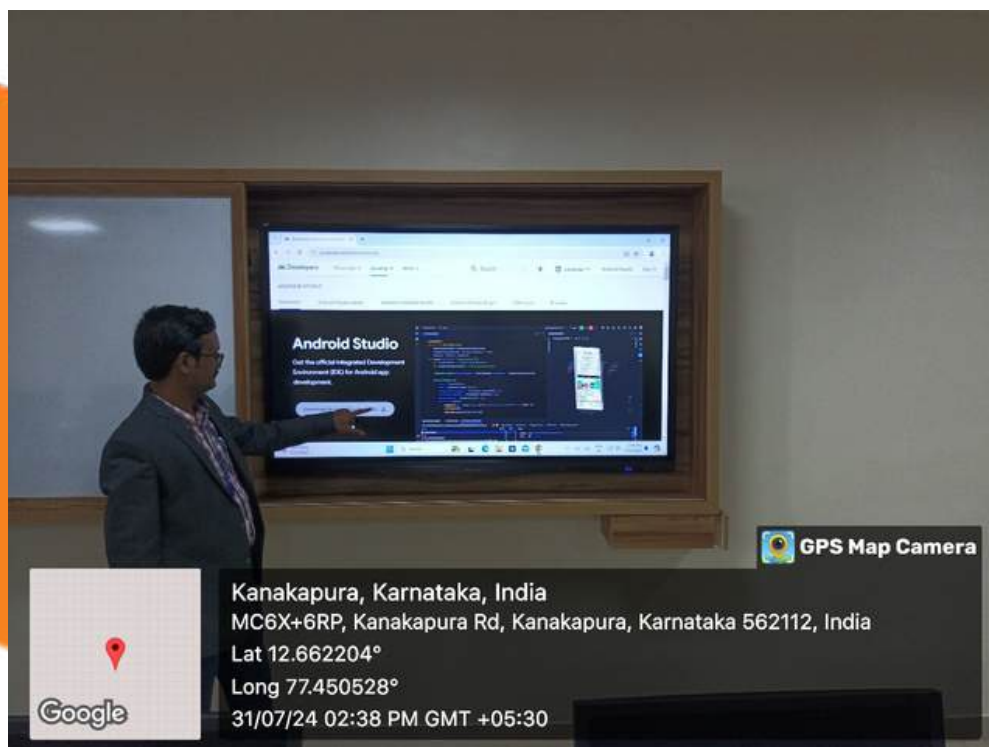
FACULTY COORDINATORS
Prof. Deepak H G,
Assistant Professor, CSE
Deepak.hg-cse@dsu.edu.in
+91 99165 63748

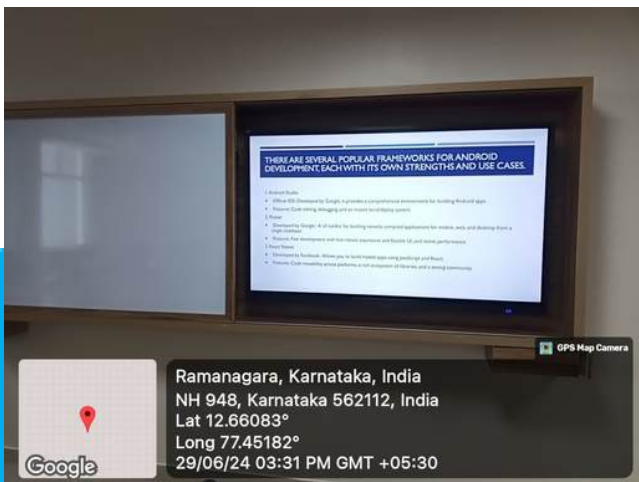




Value Added Course On “ANDROID APPLICATION DEVELOPMENT”

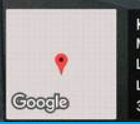
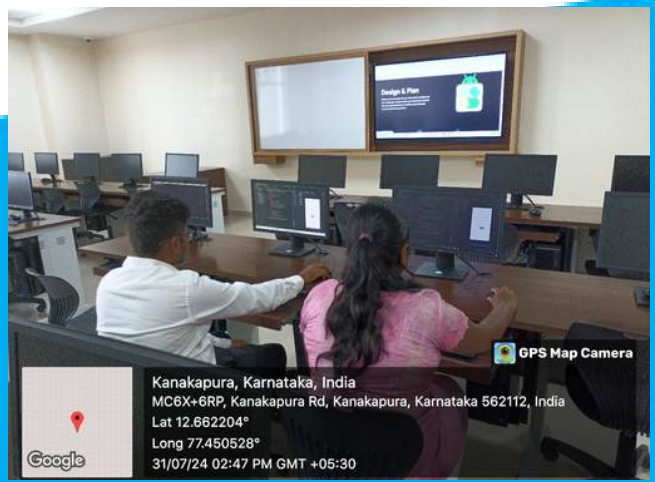
With the intention of instilling knowledge of Android's Development Environment, introducing Android SDK to the students, imbibing knowledge of User Interfaces, inculcating techniques to use Intents and Services, and throwing light on Storing and Retrieving Data in Android, a 30-hour Value Added Course on Android Application Development was organized for the final year students of Computer Science and Technology, during the summer vacation in the Hybrid mode. The Zoom and Google Meet links were shared with the students to make use of the sessions online. 42 Students registered for the course and completed the course. The course covered Theory and Hands-on sessions to cater to the needs of final year project needs of the students. Starting from the basics of JAVA and object-oriented concepts, the course covered the Android Studio Environment, and developing the Android applications using Kotlin. The Chairperson identified the area of interest for the students and assigned the task of taking up the Value-Added Course on Android Application Development to Prof. Vinayaka V.M., Dept. of Computer Science and Technology, School of Engineering, Dayananda Sagar University.





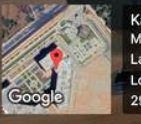
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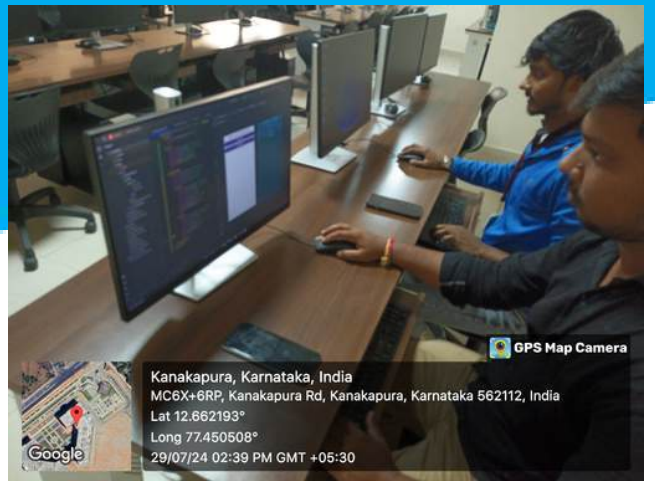
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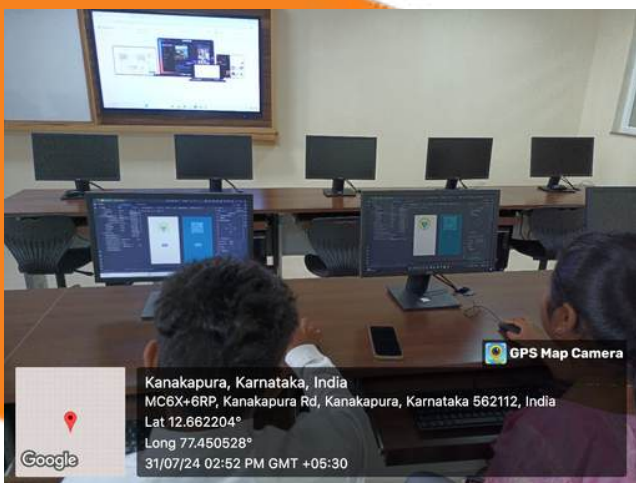
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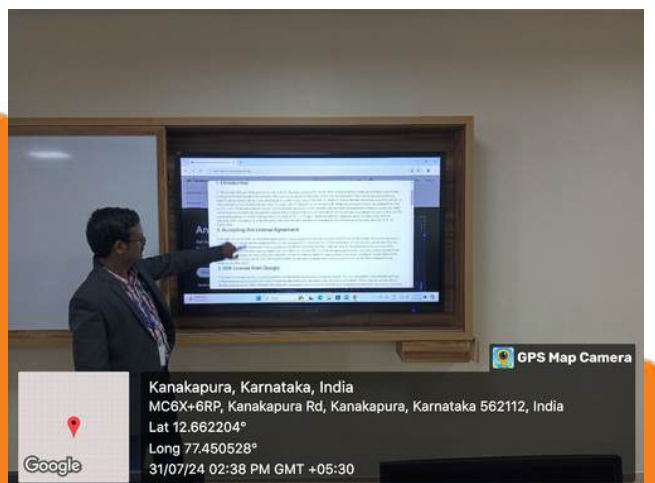
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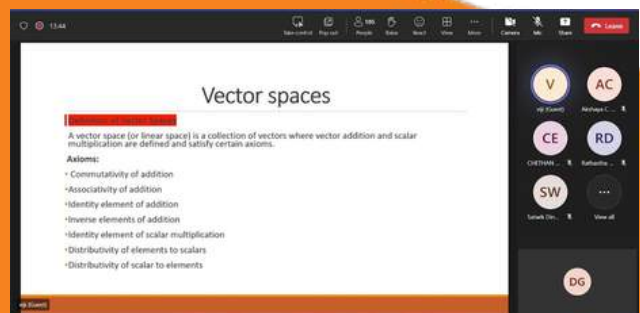
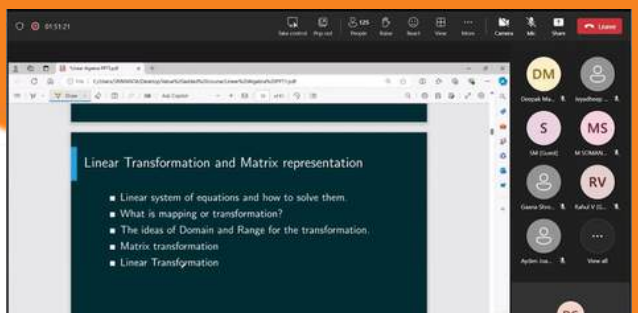
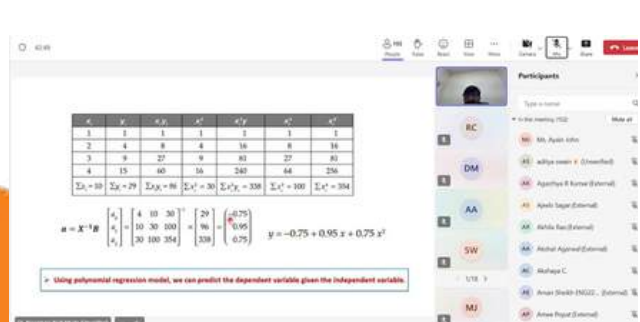
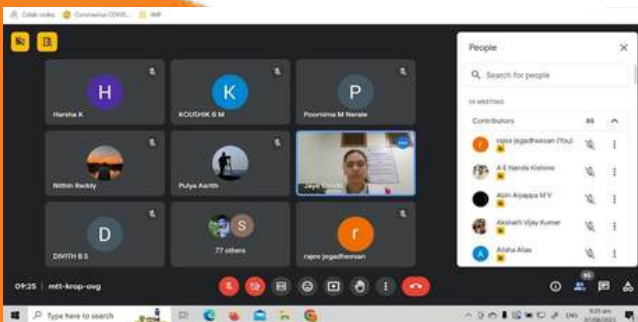
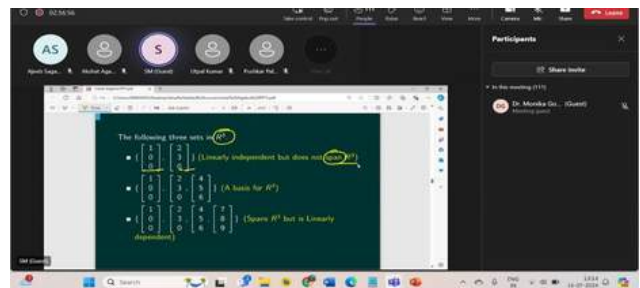
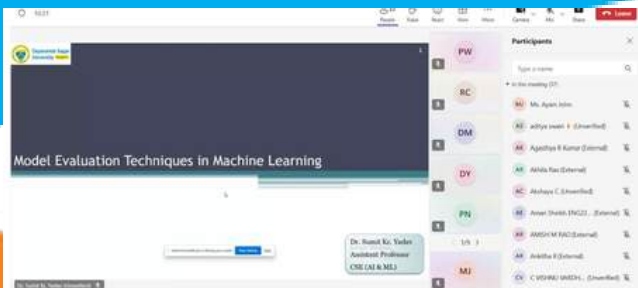


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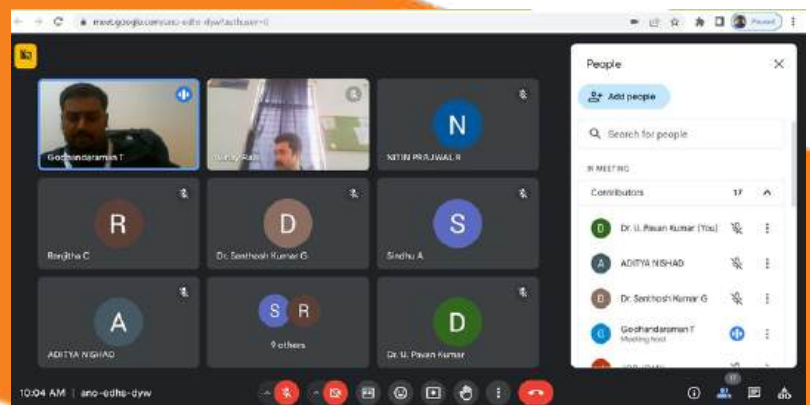
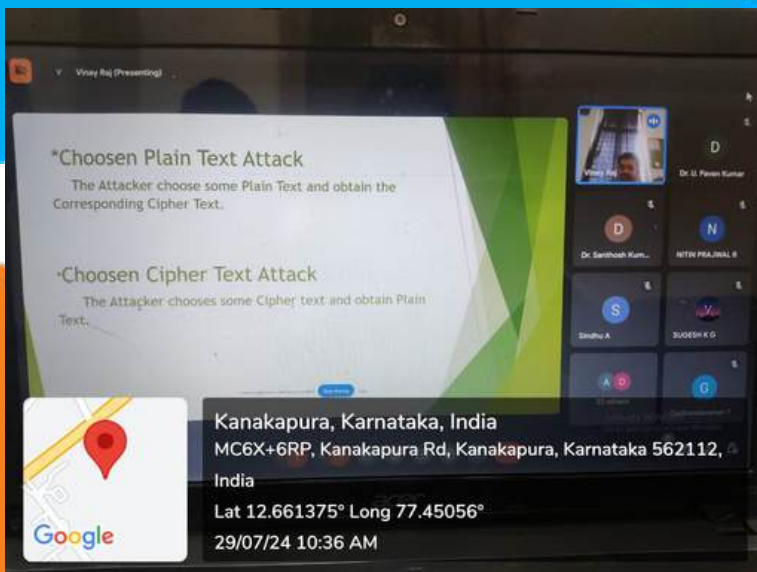
Five-Day Value-Added Course On “Machine Learning Models and its Mathematical Framework”

The five-day value-added course "Machine Learning Models and its Mathematical Framework" for 5th-semester CSE (AI&ML) students began on July 16–23, 2024, via online mode (Microsoft Teams). Dr. Jayavrinda Vrindavanam discussed machine learning ideas and trends on the first day. The following seminars were led by specialists on fundamental and advanced topics. Prof. Srimanta Maji taught basic math, while Dr. Rangaraj explained the Markov Model and its applications. Dr. Durbadal Chattaraj, Dr. Vegi Fernando A, and Prof. Subhash Mondal taught probability theory, matrix decomposition, and data preparation ML libraries. Dr. Mude Nagarjuna Naik and Dr. Shreyas Rajendra Hole demonstrated regression analysis and model development. Dr. Vinutha N, Dr. Sumit Kumar Yadav, and Prof. Pavithra A led SVM, model assessment, and clustering sessions. Prof. Pradeep Kumar, Prof. Uday Bhaskar, and Prof. Sharanabasappa Tadkal concluded the course by discussing machine learning in IoT, NLP, and cybersecurity on the final day. The course taught students leading machine learning techniques and their applications in IoT, cybersecurity, and NLP.



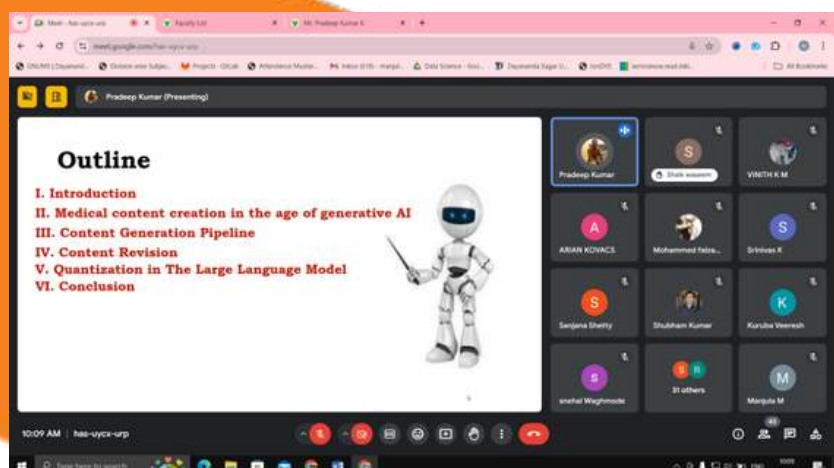
Workshop on “Cryptography in Action: Innovations in Encryption and Data Security”

Under the DataScience@DSU club, the Department of CSE (Data Science) organized the workshop "Cryptography in Action: Innovations in Encryption and Data Security" on 29th July 2024 at 10:00 am to 1:00 pm aimed to provide participants with an in-depth understanding of the latest advancements in cryptographic techniques and their practical applications in securing data. The event brought together industry experts, researchers, and enthusiasts to discuss the evolving landscape of encryption and data security. The workshop "Cryptography in Action: Innovations in Encryption and Data Security" successfully delivered valuable knowledge and practical skills related to modern encryption techniques. The diverse range of topics covered, from current innovations to future trends, equipped participants with a comprehensive understanding of the field. The hands-on sessions further ensured that attendees could apply what they learned in practical settings.



Workshop on “Emerging Trends in AI and Data Science in Healthcare”

The DataScience@DSU Club, the Department of CSE (Data Science) organized a Workshop on "Emerging Trends in AI and Data Science in Healthcare" held on 30th July 2024 to 31st July 2024 from 10:00 AM-11:00 AM organized by Dr. Shaila S G, Professor and Chairperson (DS), Prof. Shivamma D, Assistant Professor, Dept. of CSE (Data Science), and Prof. Monish L, Assistant Professor, Dept. of CSE (Data Science). More than 50+ students have been registered for the event. The event began with an overview of AI-powered tools in medical imaging, such as convolutional neural networks (CNNs), which improve the accuracy and speed of diagnosing conditions like tumors and fractures. In personalized medicine, AI algorithms analyze genetic and clinical data to tailor treatments to individual patients, increasing effectiveness. Data science facilitates predictive analytics for disease outbreaks and patient readmissions, optimizing healthcare resource allocation.





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WEBINARS / SEMINARS / TECHNICAL TALKS

Discussion on “Navigating the Future: Industry-Academia Roundtable 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. Vaijyanthi B Desai, Director, Communications, Corporate & Government Relations, DSU, introduced all the distinguished speakers of the event. 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. 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





Discussion on “Data Science Innovation Lab”

During the discussion, Dr. Viktor K. Prasanna from the University of Southern California emphasized the critical role of a Data Science Innovation Lab in fostering interdisciplinary research and practical applications of data science techniques. He highlighted the necessity of providing students and researchers with hands-on experience in areas such as data analytics, machine learning, and big data technologies. Dr. Prasanna advocated for the lab to bridge the gap between theoretical knowledge and practical implementation, preparing students for real-world challenges in the rapidly evolving field of data science. Dr. Prasanna detailed the essential infrastructure and technological requirements for the lab. He recommended establishing high-performance computing clusters and cloud-based resources to handle large datasets and complex computations. Dr. Prasanna also stressed the importance of equipping the lab with advanced software tools and platforms, such as Apache Hadoop, Spark, and TensorFlow, to ensure students have access to the latest industry technologies. For curriculum development and research focus, he proposed a comprehensive approach that covers both fundamental and advanced topics in data science, including statistical methods, machine learning, data mining, and data visualization, supplemented by project-based learning and industry collaboration.



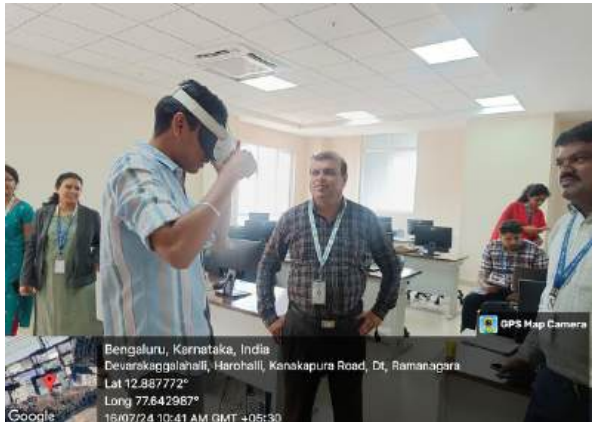




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EVENTS: PROFESSIONAL SOCIETIES / CLUB ACTIVITIES



“Pre-Placement Training for 7th semester students”

The Department of Computer Science & Technology has organized a Placement Talk for 7th-semester students. This talk was delivered by CST Alumni Mr. Rahul Prabhakaran who is working as a Java Developer at Societe Generale company. The talk was organized by Prof. Ramandeep Kaur, Assistant Professor, CST. A total of 31 students joined the talk and benefited from it.

The talk started at 10:30 AM. Prof. Ramandeep Kaur introduced the resource person and handed over the session to him. Mr. Rahul Prabhakaran started his session with a small introduction and he briefed about the placement process to all the students. He included the importance of following telegram groups, resume building, do's and don'ts, and placement rounds in detail.

At the end of the session, he answered the Q&A very nicely. CST alumni Mr. Rahul Prabhakaran and Mr. Amitash S are working on their venture and offering internship opportunities to students. They explained the internship process to students and the talk ended with a vote of thanks.

Dayananda Sagar University
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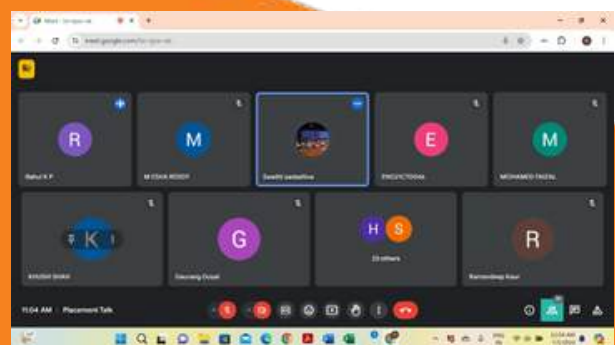
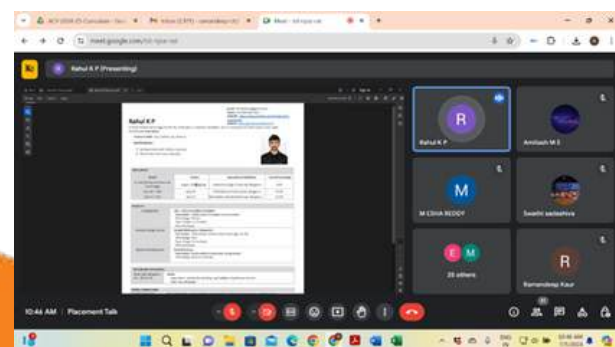
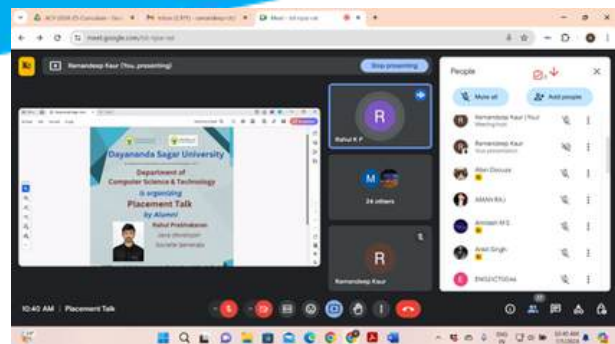
Department of
Computer Science & Technology
is organizing
Placement Talk
by Alumni

Rahul Prabhakaran
Java developer
Societe Generale

All 7th sem students are requested to join through Google Meet
Friday, July 5, 10:30am – 11:30am

Organizer Prof. Ramandeep Kaur Assistant Professor, CST	Chairperson Dr. M Shahina Parveen Professor, CST	Convener Dr. Udaya Kumar Reddy K S Dean-School of Engineering
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[Google Meet link](#)



“BoS Meeting” – Mechanical Engineering

Discussion on curriculum and new programs on higher education for BOSCH employees.

A meeting with Bosch was held on 15th July 2024 to discuss the curriculum and new programs on higher education for Bosch employees at Bosch, Bidadi Plant.

Attendees:

1. Dr. Vinayak Hemadri, Chairperson, DSU
2. Mr. Vijay Kumar, Director T&P, DSU
3. Dr. Viswanathan R, Program Coordinator M.Tech by Research, DSU
4. Prof. Karthik S B, Program Coordinator B.Voc by Research, DSU
5. Mr. Joshi M Gopalakrishna, Bidadi HRL, BOSCH
6. Mr. Harish Kamat, HRL-2, BOSCH
7. Mr. Sujeeth Kalmadi J C, Head of Maintenance, Dept. of Mechanical and Electrical, BOSCH
8. Mr. Shums Tabrez, Head of Common Rail Department, BOSCH
9. Mr. Lakshminarayana S, Head of m Line Pump, BOSCH
10. Ms. Hemalatha P.M, HR Head, HRL2, BOSCH
11. Ms. Deepa Selvaraj, Head of Quality Development, BOSCH
12. Mr. Ravi Kumar R, Head of the Go Plug Department, BOSCH



SCHOOL OF ENGINEERING



FACULTY ACHIEVEMENTS



Dr. Bhavana Rikhari
Assistant Professor
Department of Chemistry

- Dr. Bhavana Rikhari has published a book chapter titled “Surfactant (CTAB)- Modified Composite Electrodes for Electrochemical Determination of Drugs” in the book *Advances in Surfactant Biosensor and Sensor Technologies*, published by Springer.

Chapter 11 Surfactant (CTAB)-Modified Composite Electrodes for Electrochemical Determination of Drugs



Gururaj Kudur Jayaprakash, Roberto Flores-Moreno, Sathish Reddy,
and Bhavana Rikhari

Abstract Surfactants are a class of substances that are known to reduce surface tension at the carbon paste electrode (CPE) interface. We see an increase in surface area and the presence of electroactive sites by making use of their adsorption properties. They can therefore be used to change the electrode surface and its properties to promote quicker electron transfer kinetics. Because of these characteristics, electrodes that have been altered to include surfactants have been used to detect several significant medications, including diclofenac, acetaminophen, and ciprofloxacin. Among all the electrode kinds, connecting surfactants to CPE has several benefits, such as minimal toxicity, affordability, simplicity in upkeep, and fabrication. Furthermore, the hydrophobic surface of the carbon paste, when combined with silicon oil, makes it easier to apply surfactants to the electrode surface conveniently. Consequently, this encourages the development of an electrode surface with an improved surface area. Thus, in the context of electrochemical drug sensing, the current article describes the adsorption mechanism and the function of surfactants at the CPE.

G. K. Jayaprakash (✉)
Department of Chemistry, Nitte Meenakshi Institute of Technology, Bangalore,
Karnataka 560064, India
e-mail: rajguru97@gmail.com

R. Flores-Moreno
Departamento de Química, Centro Universitario de Ciencias Exactas e Ingenierías, Universidad
Guadalajara, Blvd. Marcelino García Barragán 1421, 44430 Guadalajara, Jalisco, Mexico



Dr M Shahina Parveen
Professor & Chairperson
Department of CST

- Dr. M. Shahina Parveen has published a research article titled “Software Testing Using Cuckoo Search Algorithm with Machine Learning Techniques” in the Journal of Intelligent Systems and Internet of Things, published by Springer, in volume 13, issue 2, July 2024.
- Dr. M. Shahina Parveen has reviewed a paper at the 2024 International Conference on Distributed Computing, VLSI, Electrical Circuits, and Robotics (IEEE Conference) on July 28, 2024.



Prof. Ramandeep Kaur
Assistant Professor
Department of CST

- Prof. Ramandeep Kaur has published a research article titled “Hybrid YSGOA and neural networks-based software failure prediction in cloud systems” in Scientific Reports, published by Springer, in July 2024."



Dr. Shashikiran V
Associate Professor
Department of CSE

- Dr. Shashikiran, Associate Professor in the Department of CSE, has published a paper in ACM Computing Surveys titled 'Survey on Redundancy-Based Fault Tolerance Methods for Processors and Hardware Accelerators: Trends in Quantum Computing, Heterogeneous Systems, and Reliability' on June 28th, 2024, in the Q1 journal with an impact factor of 16.6.

The screenshot shows the ACM Digital Library interface. At the top, there are navigation links for 'Browse', 'About', 'Sign in', and 'Register'. Below this is a search bar with the text 'Search ACM Digital Library' and a magnifying glass icon. The main navigation menu includes 'Journals', 'Magazines', 'Proceedings', 'Books', 'SIGs', 'Conferences', and 'People'. The article page itself has a breadcrumb trail: 'Home > ACM Journals > ACM Computing Surveys > Vol. 56, No. 11 > Survey on Redundancy Based-Fault tolerance methods for Processors and Hardware accelerators - Trends in Quantum Computing, Heterogeneous Systems and Reliability'. The article title is prominently displayed, followed by the authors 'Shashikiran Venkatesha and Ranjani Parthasarathi' and a link to 'Authors Info & Claims'. The publication details are 'ACM Computing Surveys, Volume 56, Issue 11 • Article No.: 275, Pages 1 - 76 • https://doi.org/10.1145/3663672'. It was published on '28 June 2024' and includes a 'Check for updates' button. At the bottom, there are social media icons, a 'PDF' button, and a 'Get Access' button.



Dr. Bipin Kumar Rai
Professor
Department of CSE

- Dr. Bipin Kumar Rai, Professor in the Department of CSE, has successfully completed the One Week Short Term Training Program (STTP) on 'Quantum Computing and its Applications: Modern Approaches and Practices' organized by the Department of Information Technology, National Institute of Technology Raipur, from 24th June to 28th June 2024.





Dr. George Fernandez I
Associate Professor
Department of CSE



Dr. Bipin Kumar Rai
Professor
Department of CSE

- Dr. George Fernandez I, Associate Professor, and Dr. Bipin Kumar Rai, Professor in the Department of CSE, have extended their services as reviewers for the 10th International Conference on Electronics, Computing, and Communication Technologies, IEEE CONECT, organized by the IEEE Bangalore Section at IISc, Bangalore, from 12th July to 14th July 2024.





Dr. Arunkumar Gopu
Associate Professor
Department of CSE

- Dr. Arunkumar Gopu, Associate Professor in the Department of CSE, delivered a webinar (guest lecture) at the Department of Computer Science and Engineering, SRM Madurai College of Engineering and Technology, on 23rd July 2024, on the topic 'Bio-inspired Algorithms for Solving Real-World Problems'.

SRM MADURAI
COLLEGE FOR ENGINEERING AND TECHNOLOGY
Approved by AICTE, New Delhi | Affiliated to Anna University, Chennai

Department of Computer Science and Engineering
&
Computer Society of India

Organizes a

Webinar on
"Bio Inspired Algorithms for Solving
Real World Problems"


Dr. Arunkumar Gopu
Associate Professor / CSE
Dayananda Sagar University, Bangalore
23.07.2024, at 2.00 PM-3.00 PM

Registration link:
<https://forms.gle/BRmiv4X3M1o1w1Ht5>

HOSTING PLATFORM:GOOGLE MEET

We cordially invite all faculty members to join the webinar..!

Co-ordinator Dr.S.J.Subhashini Associate Professor/CSE SRMMCET	Co-Convener Dr.C.Callins Christiyana HoD-CSE SRMMCET	Convener Dr. S. DURAIRAJ PRINCIPAL SRMMCET
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- This event, organized by SRM Madurai College of Engineering and Technology on July 23, 2024, highlighted cutting-edge computational strategies inspired by nature. Dr. Gopu's insights into bio-inspired algorithms offered innovative solutions to complex challenges faced in various industries. The webinar attracted participants eager to learn how these algorithms can be applied effectively in real-world scenarios.

Solving TSP using ACO Algorithm without Evaporation

- $\rho = 1$
- Consider A_1 tour = A->B->C->D->A then $L_1 = 14$.
- Consider A_2 tour = A->C->B->D->A then $L_2 = 31$.
- $\Delta\tau_{ij}^1 = \frac{1}{14}$
- $\Delta\tau_{ij}^2 = \frac{1}{31}$



SRM MADURAI

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Certificate of Appreciation

This is to certify that **Dr. Arunkumar Gopu, Associate Professor, CSE** from **Dayanandasagar University, Bangalore** has acted as a resource person in the webinar on **“Bio Inspired Algorithms for Solving Real World Problems”** organised by the Department of Computer Science and Engineering on **(23.07.2024) Tuesday** .


Dr.S.J.Subhashini
 Associate Professor/CSE
 Coordinator


Dr. C. Callins Christiyana
 Professor and Head-CSE
 Co-Convener


Dr. Durairaj
 Principal
 Convener



Prof. Mala B A
Assistant Professor
Department of CSE

- Prof. Mala B. A., Assistant Professor, has successfully completed the online courses on the Infosys Springboard platform titled 'Solidity Smart Contract Programming for Ethereum Blockchain' and 'Connecting with the Internet of Things' on 23rd July 2024.






Dr. Savitha Hiremath
Associate Professor
Department of CSE

- Ms. Kulkarni Manjusha Manikrao, Research Scholar, and Dr. Savitha Hiremath, Associate Professor in the Department of CSE, are the inventors who filed a patent on 8th July 2024 with the application number 202441052190, titled 'System for Providing Product Recommendation Using Graph Convolution Network and Method Thereof,' under the applicant's name Dayananda Sagar University.
- Ms. Kulkarni Manjusha Manikrao, Research Scholar, and Dr. Savitha Hiremath, Associate Professor in the Department of CSE, have jointly submitted a research article to the International Journal of Computing and Digital Systems (IJCDS), an open-access, peer-reviewed, Scopus-indexed, Q3 journal. The paper has been accepted for publication with the title 'Survey on Recommender Systems for Market Analysis Using Deep Learning,' and the publication date is provided as 1st October 2024.

7/25/24, 11:12 AM Dayananda Sagar University Mail - No Reply: Manuscript Decision: Accepted for Your paper #1571012591 ('Survey on Reco...

 DAYANANDA SAGAR UNIVERSITY

Kulkarni Manjusha Manikrao <manjushakulkarni-rs-cse@dsu.edu.in>

No Reply: Manuscript Decision: Accepted for Your paper #1571012591 ('Survey on Recommender Systems for Market Analysis using Deep Learning')

1 message

ijcde-chairs@edas.info <ijcde-chairs@edas.info> Fri, Jul 12, 2024 at 10:56 AM
To: Manjusha Manikrao Kulkarni <manjushakulkarni-rs-cse@dsu.edu.in>, Savitha Hiremath <savitha.h-cse@dsu.edu.in>
Cc: Editor in Chief <IJCDS_EditorInChief@uob.edu.bh>, Wael M El-Medany <waelmedany@uob.edu.bh>, Ijcde Secretary <IJCDS@uob.edu.bh>

Dear Mrs. Manjusha Kulkarni,

We are pleased to inform you that your paper #1571012591 ('Survey on Recommender Systems for Market Analysis using Deep Learning') for IJCDS has been accepted for publication in the International Journal of Computing and Digital Systems (IJCDS). Congratulations on this achievement!

Your paper will soon be published in an upcoming volume of IJCDS, and we will notify you of the specific volume and publication date in due course. In the meantime, your paper is accessible as a Preprint via the following link:
<https://journal.uob.edu.bh/handle/123456789/497>

Furthermore, you can locate your paper title on our journal website here:
<https://journal.uob.edu.bh/handle/123456789/12>

Please note that we will be contacting you shortly for the proofreading process of your accepted paper. Your cooperation in this matter is greatly appreciated.

Once again, congratulations on your paper's acceptance, and we look forward to the successful publication of your work.

Best regards,
Dr. Wael El-Medany
Managing Editor



Prof. Suvika K V
Assistant Professor
Department of CSE



Prof. Mala B A
Assistant Professor
Department of CSE



Prof. Sasikala N
Assistant Professor
Department of CSE



Prof. Shilpa Sudheendran
Assistant Professor
Department of CSE



Prof. Bharathy Vijayan
Assistant Professor
Department of CSE



Prof. Navya Damodar
Assistant Professor
Department of CSE

- Prof. Suvika K. V., Prof. Mala B. A., Prof. Sasikala N., Prof. Shilpa Sudheendran, Prof. Bharathy Vijayan, and Prof. Navya Damodar, Assistant Professors in the Department of CSE, actively participated in a webinar titled 'Bio-Inspired Algorithms for Solving Real-World Problems,' organized by the Department of Computer Science and Engineering, SRM Madurai College of Engineering and Technology, on 23rd July 2024.



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 COLLEGE FOR ENGINEERING AND TECHNOLOGY
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Certificate of Participation

This is to certify that **Prof. Suvika K V** from **Dayananda Sagar University** has actively participated in the webinar on **“Bio Inspired Algorithms for Solving Real World Problems”** organised by the Department of Computer Science and Engineering on **(23.07.2024) Tuesday** .

Dr.S.J.Subhashini
 Associate Professor/CSE
 Coordinator

Dr. C. Callins Christiyana
 Professor and Head-CSE
 Co-Convenor

Dr. Durairaj
 Principal
 Convener



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Certificate of Participation

This is to certify that **Mala B A** from **Dayananda Sagar University** has actively participated in the webinar on **“Bio Inspired Algorithms for Solving Real World Problems”** organised by the Department of Computer Science and Engineering on **(23.07.2024) Tuesday** .

Dr.S.J.Subhashini
 Associate Professor/CSE
 Coordinator

Dr. C. Callins Christiyana
 Professor and Head-CSE
 Co-Convenor

Dr. Durairaj
 Principal
 Convener



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Certificate of Participation

This is to certify that **SASIKALA N** from **Dayananda Sagar University** has actively participated in the webinar on **“Bio Inspired Algorithms for Solving Real World Problems”** organised by the Department of Computer Science and Engineering on **(23.07.2024) Tuesday** .

Dr.S.J.Subhashini
 Associate Professor/CSE
 Coordinator

Dr. C. Callins Christiyana
 Professor and Head-CSE
 Co-Convenor

Dr. Durairaj
 Principal
 Convener



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Certificate of Participation

This is to certify that **Shilpa Sudheendran** from **Dayananda Sagar University** has actively participated in the webinar on **“Bio Inspired Algorithms for Solving Real World Problems”** organised by the Department of Computer Science and Engineering on **(23.07.2024) Tuesday** .

Dr.S.J.Subhashini
Associate Professor/CSE
Coordinator

Dr. C. Callins Christiyana
Professor and Head-CSE
Co-Convenor

Dr. Durairaj
Principal
Convener



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Certificate of Participation

This is to certify that **Bharathy Vijayan** from **Dayananda Sagar University** has actively participated in the webinar on **“Bio Inspired Algorithms for Solving Real World Problems”** organised by the Department of Computer Science and Engineering on **(23.07.2024) Tuesday** .

Dr.S.J.Subhashini
Associate Professor/CSE
Coordinator

Dr. C. Callins Christiyana
Professor and Head-CSE
Co-Convenor

Dr. Durairaj
Principal
Convener



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Certificate of Participation

This is to certify that **Navya Damodar** from **DSU** has actively participated in the webinar on **“Bio Inspired Algorithms for Solving Real World Problems”** organised by the Department of Computer Science and Engineering on **(23.07.2024) Tuesday** .

Dr.S.J.Subhashini
Associate Professor/CSE
Coordinator

Dr. C. Callins Christiyana
Professor and Head-CSE
Co-Convenor

Dr. Durairaj
Principal
Convener



Prof. Manjushree T L
Assistant Professor
Department of CSE

- Prof. Manjushree T. L., Assistant Professor, has successfully completed the online courses on the Infosys Springboard platform titled 'Data Visualization with Python' on 18th July 2024 and 'Advanced Python for Data Analysis' on 26th July 2024.





Prof. Kartik S. Tandel
Assistant Professor
Department of Aerospace Engineering



Dr. Rammohan Bhanumurthy
Professor
Department of Mechanical Engineering

- Prof. Kartik and Dr. Rammohan Bhanumurthy from the Department of ASE presented a research article at the ISSS International Conference on Micro, Nano, and Smart Systems, titled 'Mitigating Aeroelastic Instability through the Integration of Nitinol in Composite Structures,' in July 2024 at IISc, Bangalore.





Prof .Kartik S. Tandel
Assistant Professor
Department of Aerospace Engineering

- Prof. Kartik from the Department of ASE presented a research article at the ISSS International Conference on Micro, Nano, and Smart Systems, titled 'Fluid-Structure Interaction Analysis of High Aspect Ratio Composite Wing Structures,' in July 2024 at IISc, Bangalore.





Dr. Prashantha Kumar
Assistant Professor
Department of Aerospace Engineering

- Dr. Prasanthakumar H. G. from the Department of ASE presented a research article at IEEE Space 2024, titled 'Level-1 Digitally Twinned 1U CubeSat (DT1UC): Concept to Reality,' in July 2024 at IISc, Bangalore.





Dr. Prajwalasimha S N
Assistant Professor
Department of CSE(CY)



Prof. Deepthika Karuppusamy
Assistant Professor
Department of CSE(CY)



Prof. Naveen Kulkarni
Assistant Professor
Department of CSE(CY)

- Dr. Prajwalasimha S. N., Prof. Deepthika Karuppusamy, and Prof. Naveen Kulkarni presented their technical paper titled 'An Optimized Cosine and Hamming Distances-Based Method for Heavily Pigmented Iris Recognition.' The conference took place at Chhattisgarh Swami Vivekanand Technical University (CSVTU), Bhilai, Chhattisgarh, India, from 26th to 28th June 2024.





CHHATTISGARH SWAMI VIVEKANAND
TECHNICAL UNIVERSITY (CSVTU)
Bhilai, Chhattisgarh, India.



26 - 28, June 2024
Bhilai | Chhattisgarh | India

**2024 Sixth IEEE International Conference on
Electrical, Computer and Communication
Technologies**

26 - 28, June 2024 | Bhilai, Chhattisgarh, India | www.icecct.com

This certificate is presented to

Prajwalasimha S N
Department of Computer Science and Engineering (Cyber Security), School of Engineering,
Dayananda Sagar University, Bangalore 562112, India



Advancing Technology
for Humanity

for presenting the research paper entitled "An Optimized Cosine and Hamming Distances based Method for Heavily Pigmented Iris Recognition" in the 2024 Sixth IEEE Sponsored International Conference on Electrical, Computer and Communication Technologies (IEEE ICECCT 2024) held at Chhattisgarh Swami Vivekanand Technical University (CSVTU), Bhilai, Chhattisgarh, India during 26 - 28, June 2024. The conference has been organized by the IEEE Student Branch of CSVTU and Technically Co-Sponsored by IEEE Madhya Pradesh section.

[Signature]
Dr. Thangaprakash Sengodan
Publication Chair

[Signature]
Dr. Patel R N
Conference Chair

[Signature]
Dr. Verma M K
Chief Patron

Technical Co-Sponsor
IEEE Madhya Pradesh Section

CERTIFICATE



CHHATTISGARH SWAMI VIVEKANAND
TECHNICAL UNIVERSITY (CSVTU)
Bhilai, Chhattisgarh, India.



26 - 28, June 2024
Bhilai | Chhattisgarh | India

**2024 Sixth IEEE International Conference on
Electrical, Computer and Communication
Technologies**

26 - 28, June 2024 | Bhilai, Chhattisgarh, India | www.icecct.com

This certificate is presented to

Naveen Kulkarni
Department of Computer Science and Engineering (Cyber Security), School of Engineering,
Dayananda Sagar University, Bangalore 562112, India



Advancing Technology
for Humanity

for presenting the research paper entitled "An Optimized Cosine and Hamming Distances based Method for Heavily Pigmented Iris Recognition" in the 2024 Sixth IEEE Sponsored International Conference on Electrical, Computer and Communication Technologies (IEEE ICECCT 2024) held at Chhattisgarh Swami Vivekanand Technical University (CSVTU), Bhilai, Chhattisgarh, India during 26 - 28, June 2024. The conference has been organized by the IEEE Student Branch of CSVTU and Technically Co-Sponsored by IEEE Madhya Pradesh section.

[Signature]
Dr. Thangaprakash Sengodan
Publication Chair

[Signature]
Dr. Patel R N
Conference Chair

[Signature]
Dr. Verma M K
Chief Patron

Technical Co-Sponsor
IEEE Madhya Pradesh Section

CERTIFICATE



Dr. Durbadal Chattaraj
Associate Professor & Chairperson
Department of CSE(CY)



Prof. Naveen Kulkarni
Assistant Professor
Department of CSE(CY)



Prof. Sharanabasappa Tadkal
Assistant Professor
Department of CSE(CY)



Prof. Ranjima P
Assistant Professor
Department of CSE(CY)

- Dr. Durbadal Chattaraj, Prof. Naveen Kulkarni, Prof. Sharanabasappa Tadkal, and Prof. Ranjima P. attended a seven-day online faculty development program on 'Innovative Pathways: Research Methodologies for Computer Science' from 8th July to 15th July 2024, organized by the Department of Computer Applications, SoE, DSU.
- Dr. Durbadal Chattaraj and Prof. Sharanabasappa Tadkal gave a technical talk titled 'Machine Learning in Cyber Security: The Rise and Benefits' for the Department of CSE (AIML), DSU, as part of their value-added course on 23rd July 2024.



Dr. Arun Balodi
Professor & Chairperson
Department of ECE

- Dr. Arun Balodi, Professor of ECE will serve as a Technical Program Committee member and Session Co-Chair at the IEEE SPACE Conference, to be held on July 22-24, 2024, at the Sheraton Grand Bengaluru Whitefield Hotel & Convention Center.



- Dr. Arun Balodi, Professor of ECE presented a research paper at the IEEE SPACE Conference, held on July 22-24, 2024, at the Sheraton Grand Bengaluru Whitefield Hotel & Convention Center. Our paper, 'Simulation Analysis of Ge₂Sb₂Te₅ Vertical Photodetectors on Silicon Photonic for Varying Thickness Levels,' explored the impact of thickness on device performance.



- Dr. Arun Balodi, Professor of ECE had the opportunity to attend the IEEE Leaders Meeting. The event brought together distinguished IEEE leaders, including Dr. Thomas Coughlin (Past President), Prof. Saifur Rahman (Current President), and Prof. Kathleen Kramer (President-Elect). He also interacted with esteemed members of the IEEE Bangalore Executive Committee. The meeting was further enriched by the presence of Dr. Deepak Mathur, Vice President of IEEE Membership and Geographic Activities, Prof. Prerna Gaur, Chair-Elect of the IEEE India Council, and Dr. Sameer S M, candidate for IEEE Region 10 Director-Elect.



- Dr. Arun Balodi, Professor of ECE will serve as Track Chair, Publicity Chair, and Session Chair at IEEE CONECCCT 2024. IEEE CONECCCT 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, Professor of ECE reviewed the paper entitled 'WSRC-PCGS: A Novel Weighted Ensemble Algorithm for Efficient Tomato Leaf Disease Detection and Classification' for the IETE Journal of Research.



Dr. Saara Khamar
Professor
Department of ECE

- Dr. Saara K., Professor of ECE, has published a study on a biosensor in the Journal of Optics, Springer. The SiO₂-Au-GO based 2D photonic crystal biosensor offers enhanced sensitivity for protein analysis and immunological evaluations. Featuring a gold-coated SiO₂ layer and graphene oxide rods, this design ensures precise detection, which is crucial for clinical decisions. The research highlights a significant spectral shift with a high-quality factor, marking a significant advancement in healthcare diagnostics.

Journal of Optics
<https://doi.org/10.1007/s12596-024-01993-w>

RESEARCH ARTICLE



SiO₂-Au-GO Based 2D Photonic Crystal Biosensor For Protein Analysis And Immunological Evaluation

P B Prathap¹ · H L Prakruthi¹ · K Saara²

Received: 14 May 2024 / Accepted: 20 June 2024
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Abstract

As a result of the significant increase in healthcare needs and the need for precise clinical judgments Photonic Crystal (PC) based biosensors have demonstrated improved performance compared to classic analog sensors in a wide range of therapeutic applications. Photonic crystal-based biosensors are a suitable technology for clinical decision systems, as they offer increased sensitivity and resolution for precise sensing. This makes them useful for many biosensing applications. A novel and extremely responsive biosensor, utilizing Photonic crystals composed of Silicon Dioxide (SiO₂), Gold (Au), and Graphene Oxide (GO), is suggested for protein analysis and immunological evaluation. A 0.1 μm thick layer of Gold is applied over the surface of Silicon Dioxide (SiO₂) of 1.5 μm thickness. Following that, Graphene oxide-coated rods are inserted into a structure. Initially, gold plating was utilized to boost reflectivity, whereas Graphene oxide-coated rods were incorporated to augment plasmonic attraction for biosensing purposes. Graphene Oxide has a dual effect in this context. It enhances the absorption of both antibodies and antigens, leading to increased sensitivity. Additionally, it induces significant changes in the spectrum, enabling accurate detection judgments to be made. Graphene Oxide-coated rods specifically facilitate the capture of target molecules, resulting in an elevation of the material's refractive index and a subsequent change in the wavelength spectrum and transmission amplitude. This change is utilized for biosensing purposes. The Finite-Difference Time-Domain (FDTD) method is employed for analysis. The simulation results validated both the shift in the spectrum and transmission amplitude with 100 nm/RIU and a maximum Quality factor of 597, indicating the ability to perform biosensing activities for protein analysis and immunological evaluations for clinical decision-making.

Keywords Biosensor · Gold · Graphene oxide · Silicon dioxide · Photonic crystal · FDTD · Refractive index

Introduction

Biosensors offer significant benefits, especially in the field of biomedical and diagnostic applications. Photonic crystal-based sensing technology has made notable progress in the field of biosensing, primarily because of its ability to make measurements to be accurate. Photonic crystal-based biosensors demonstrate exceptional sensitivity to variations in refractive index and mechanical deformations.

Polycarbonate biosensors are expected to offer enhanced sensitivity compared to conventional biosensors. Photonic Crystal-based sensors have been utilized in several applications including bio-sensing, chemical sensing, temperature sensing, force or accelerometer sensing, and biosensor applications [1]. Photonic crystals are regular arrangements of dielectric materials that possess a Bandgap, which prevents the transmission of specific frequencies of light. This characteristic allows for the creation of effects that are unattainable with traditional optics. The photonic crystal structure can exist in 1-dimensional, 2-dimensional, and 3-dimensional dimensions. Designing and fabricating 3D crystals is challenging, while 2D crystals offer superior light confinement and a comparatively simpler production technique. To introduce a defect in a photonic crystal, one can choose to remove one or two layers of rods or holes in the periodic structure. Modifying the dimensions of the rods or hole radius might potentially cause defects [2]. Light

✉ K Saara
saara-eee@dsu.edu.in, saarakhamar@gmail.com

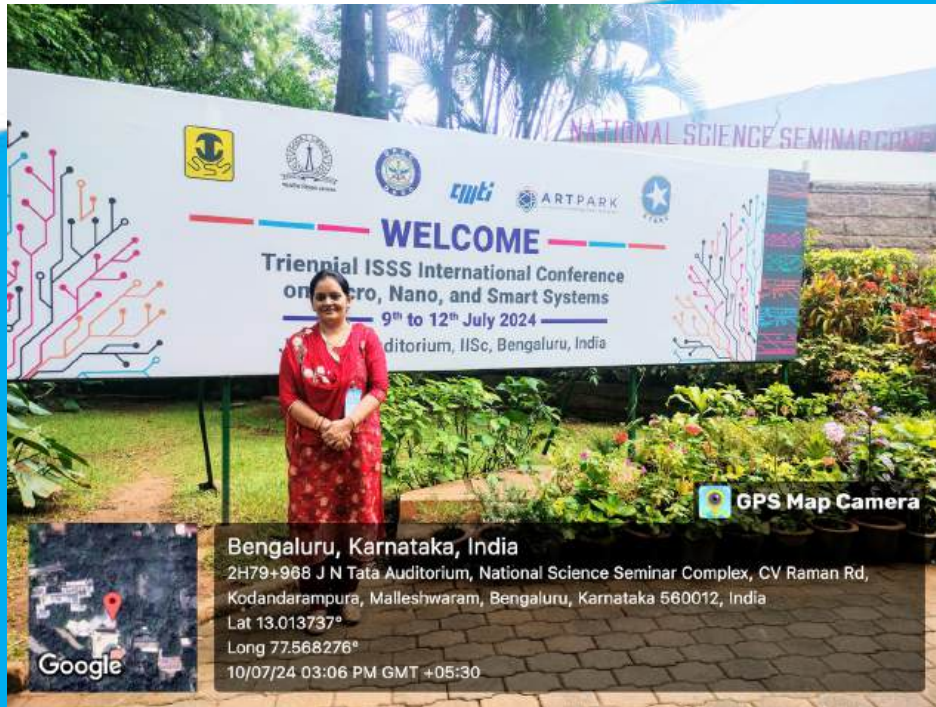
¹ Department of Electronics and Communication Engineering, Mahad College of Engineering, Hassan 573202, India

² Department of Electronics and Communication Engineering, School of Engineering, Dayananda Sagar University, Bangalore 560114, India

Published online: 06 July 2024

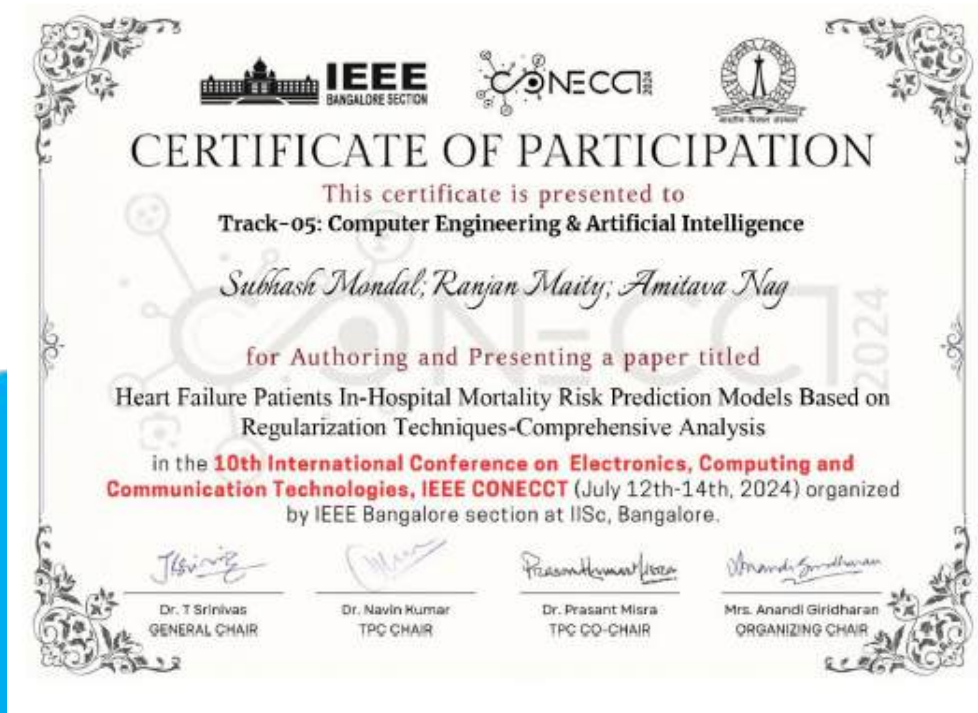


- Dr. Saara K, Professor of ECE, served as a member of the organizing committee for the IC-MNSS-2024 conference at IISc Bangalore. Her involvement highlights our university's commitment to advancing research in MEMS and photonics.

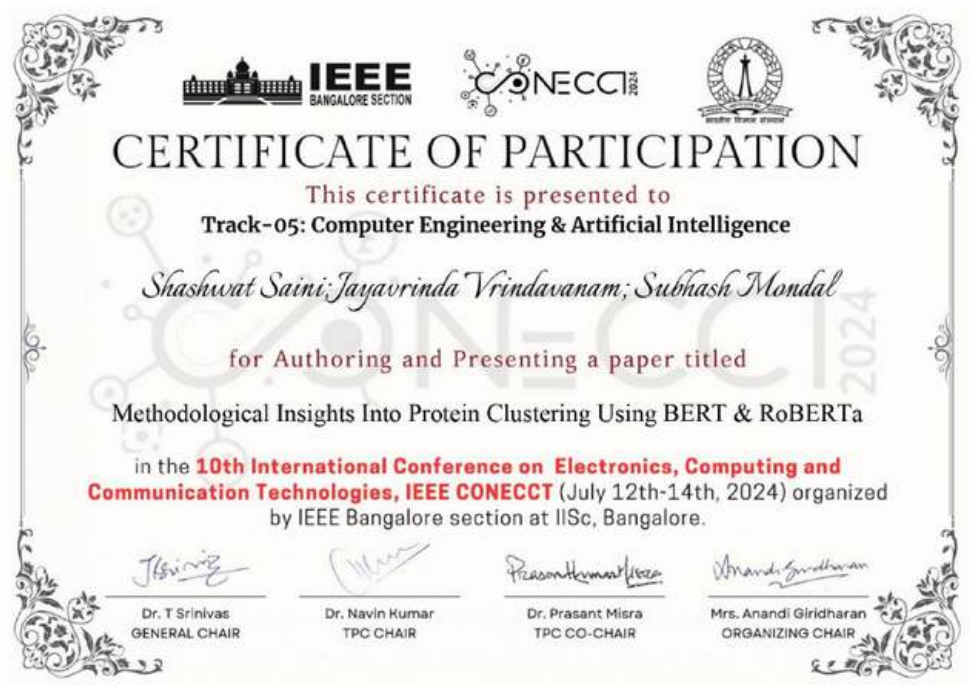


Prof. Subhash Mondal
Assistant Professor
Department of CSE(AIML)

- Prof. Subhash Mondal, Assistant Professor, Dept. of CSE (AI&ML), presented a paper titled "Heart Failure Patients In-Hospital Mortality Risk Prediction Models Based on Regularization Techniques - Comprehensive Analysis" at the 10th International Conference on Electronics, Computing and Communication Technologies, IEEE CONECCT (July 12th - 14th, 2024), organized by IEEE Bangalore section at IISc, Bangalore.



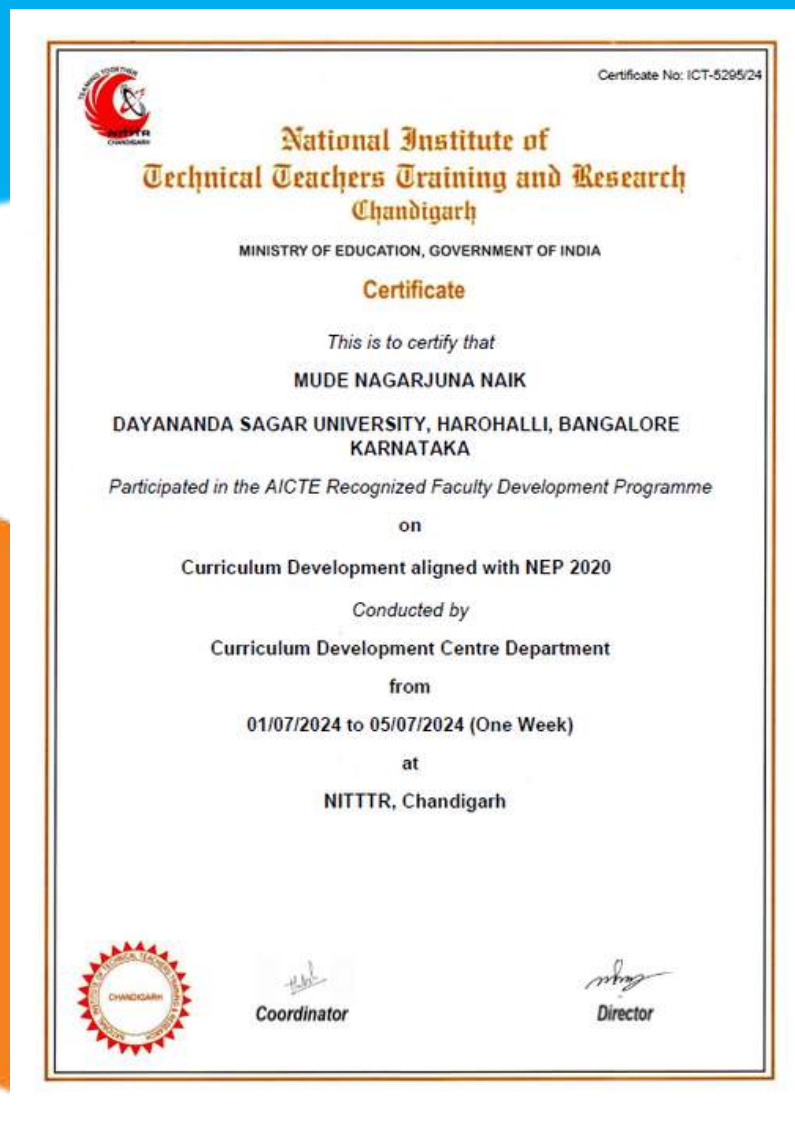
- Prof. Subhash Mondal, Assistant Professor, Dept. of CSE (AI&ML), presented a paper titled “Methodological Insights into Protein Clustering Using BERT & RoBERTa” at the 10th International Conference on Electronics, Computing and Communication Technologies, IEEE CONECCT (July 12th - 14th, 2024), organized by the IEEE Bangalore section at IISc, Bangalore.





Dr. Mude Nagarjuna Naik
Assistant Professor
Department of CSE(AIML)

- Dr. Mude Nagarjuna Naik, Assistant Professor, Dept. of CSE (AI&ML), participated in the AICTE-recognized Faculty Development Programme on Curriculum Development aligned with NEP 2020, conducted by the Curriculum Development Centre Department from 01/07/2024 to 05/07/2024 (one week) at NITTTR, Chandigarh.





Dr. Vinutha N
Associate Professor
Department of CSE(AIML)



Prof. Pradeep Kumar
Assistant Professor
Department of CSE(AIML)



Prof. Udaya Bhaskara
Assistant Professor
Department of CSE(AIML)

- Dr. Vinutha N, Associate Professor, Prof. Pradeep Kumar, Assistant Professor, and Prof. Udaya Bhaskara, Assistant Professor from Dept. of CSE (AI&ML), participated in a one-week workshop on “Machine Learning Applications in Manufacturing” (15th July – 20th July 2024), sponsored by the Scheme for Promotion of Academic and Research Collaboration (SPARC), MoE, GOI, and organized by the Department of Mechanical Engineering, NIT Warangal, in collaboration with Clemson University, South Carolina, and University at Buffalo, United States.







Prof. Ayan John
Assistant Professor
Department of CSE(AIML)

- Prof. Ayan John, Assistant Professor, Dept. of CSE (AI&ML), participated in a one-week FDP and workshop on advanced computer vision for image and video analysis and applications, organized by the Department of CSE from 17th - 21st June 2024, at the Indian Institute of Information Technology Kottayam.





Dr. Shreyas Rajendra Hole
Assistant Professor
Department of CSE(AIML)

- Dr. Shreyas Rajendra Hole, Assistant Professor, Dept. of CSE (AI&ML), participated in the workshop “AR & VR Training using Unity,” organized by Learnfella, from 12th – 18th July.
- Dr. Shreyas Rajendra Hole, Assistant Professor, Dept. of CSE (AI&ML), participated in a one-week international online FDP on “Emerging Trends in Electronic Circuit Design, Signal Processing, and Communication” from 1st July to 6th July 2024, organized by the Department of ECE, KL University, Hyderabad, Telangana.





Prof. R. Sriram Kumar
Assistant Professor
Department of CSE(AIML)

- Prof. R. Sriram Kumar, Assistant Professor, Dept. of CSE (AI&ML), participated in a one-week international online FDP on “Emerging Trends in Electronic Circuit Design, Signal Processing, and Communication” from 1st July to 6th July 2024, organized by the Department of ECE, KL University, Hyderabad, Telangana.





Dr. Vinutha N
Associate Professor
Department of CSE(AIML)

- Dr. Vinutha N, Associate Professor in CSE (AI&ML), delivered an expert talk on foundational models of deep learning for MCA students on 25th July 2024 at Surana College, Kengeri Satellite Town, Bangalore.





Dr. Vinayak B Hemadri
Professor
Department of Mechanical



Dr. Saravana Bavan
Associate Professor
Department of Mechanical



Dr. Shashidhara L C
Assistant Professor
Department of Mechanical



Prof. Raviej Y P
Assistant Professor
Department of Mechanical



Prof. Karthik S B
Assistant Professor
Department of Mechanical



Prof. Abhijith N
Assistant Professor
Department of Mechanical



Prof. Abhilash O
Assistant Professor
Department of Mechanical

- Dr. Vinayak B. Hemadri, Dr. Saravana B., Dr. Shashidhara L. C., Dr. Ravitej Y. P., Prof. Karthik S. B., Prof. Abhijith N., and Prof. Abhilash O. participated in a workshop on “Next Generation Automation: Bridging Electronics & Mechanical Systems in Industry 4.0,” sponsored by DST and SERB.



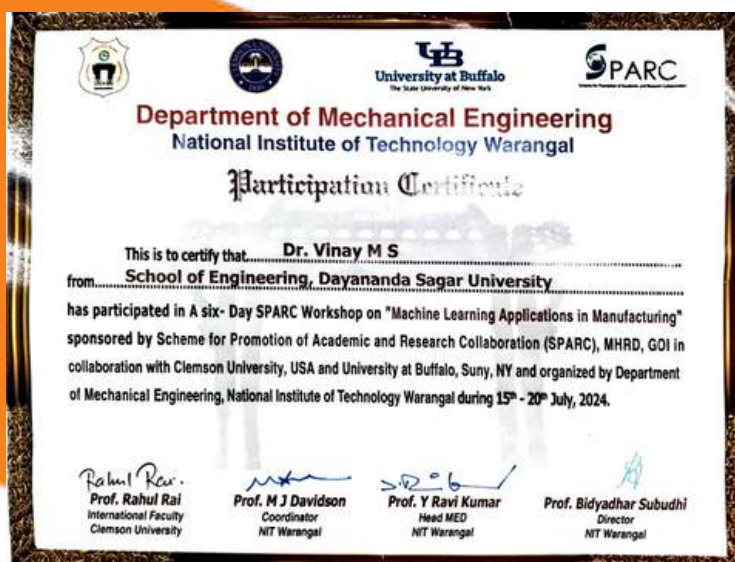


Dr. Saravana Bavan D
Associate Professor
Department of Mechanical



Dr. Vinay M S
Assistant Professor
Department of Mechanical

- Dr. Saravana Bavan. D, Associate Professor, Dr. Vinay M S, Assistant Professor, participated in a one-week workshop on “Machine Learning Applications in Manufacturing” (15th July – 20th July, 2024), sponsored by the Scheme for Promotion of Academic and Research Collaboration (SPARC), MoE, GOI, and organized by the Department of Mechanical Engineering, NIT Warangal, in collaboration with Clemson University, South Carolina, and University at Buffalo, United States.





Dr. Rahul Kumar
Assistant Professor
Department of Mechanical

- Dr. Rahul Kumar, Assistant Professor in the Department of Mechanical Engineering, has published a book chapter on “Recent Trends in Coconut ‘Coir’ Fibres Reinforced Composite Material” in the book titled Composites: Modelling and Manufacturing, CRC Press, which is Scopus indexed.

1st Edition

Composites Modeling, and Manufacturing

Edited By Vijay Kumar Singh, Nishant Kumar Singh, Yashvir Singh
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Ms. K SUDHA DEEPTHI
Manager - Bosch Rexroth lab
Department of Mechanical

- Ms. K. Sudha Deepthi, Manager of the Bosch Rexroth Innovation Lab, published one of her research works under the guidance of Dr. Rammohan B., Professor in the Department of Mechanical Engineering, in the Proceedings of ASME 2024. She presented this work at the International Conference held from April 29 to May 1, 2024, at the Aerospace Structures, Structural Dynamics, and Materials Conference (SSDM2024) in Renton, Washington.

The screenshot displays the ASME Digital Collection website interface. At the top, the ASME logo and 'DIGITAL COLLECTION' are visible, along with a 'Sign In' button. The main heading is 'ASME Aerospace Structures, Structural Dynamics, and Materials Conference'. Below this, there is a navigation bar with options like 'Latest Proceedings', 'All Years', and 'Browse by Subject Category'. A search bar is present with the text 'Search...' and 'SSDM'. The main content area features a paper titled 'Aeroservoelasticity's Digital Simulation Using PLC' by K. Sudha Deepthi and Rammohan B. The paper details include the paper number 'SSDM2024-121552', the DOI 'https://doi.org/10.1115/SSDM2024-121552', and the publication date 'June 13, 2024'. There are options to 'Check for updates', 'Author Information', 'Share', 'Cite', and 'Permissions'. On the right side, there are sections for 'View Metrics', 'Email Alerts' (with 'Proceedings Paper Activity Alert' and 'Latest Conference Proceedings Alert'), and 'Related Proceedings Papers'. A footer note states 'This site uses cookies. By continuing to use our website, you are agreeing to our privacy policy. Accept'.



Dr. U. Pavan Kumar
Assistant Professor
Department of CSE(DS)

- Dr. U. Pavan Kumar participated in the Online Faculty Development Programme on "AI for Signal Processing" by NPTEL+ Workshop on 06th July 2024.
- Dr. U. Pavan Kumar participated in the Five Days National Level Faculty Development Programme On "EXPLORING COMPUTATIONAL INTELLIGENCE (ONLINE)" organised by School of Computer Science and Engineering, VIT-AP University, Amaravati from 16th July 2024 to 20th July 2024 .





- Dr. U. Pavan Kumar participated in IP Awareness/Training program under National IP Awareness Mission (NIPAM) Organized Intellectual Property Office, India on 19th July 2024.





Dr. Santhosh Kumar G
Associate Professor
Department of CSE(DS)

- Dr. Santhosh Kumar G participated in the Five Days National Level Faculty Development Programme On "EXPLORING COMPUTATIONAL INTELLIGENCE (ONLINE)" organised by School of Computer Science and Engineering, VIT-AP University, Amaravati from 16th July 2024 to 20th July 2024 .
- Dr. Santhosh Kumar G participated in IP Awareness/Training program under National IP Awareness Mission (NIPAM) Organized Intellectual Property Office, India on 19th July 2024.





Prof. Mahendra M K
Assistant Professor
Department of CSE(DS)

- Prof. Mahendra M K participated in the Five Days National Level Faculty Development Programme On "EXPLORING COMPUTATIONAL INTELLIGENCE (ONLINE)" organised by School of Computer Science and Engineering, VIT-AP University, Amaravati from 16th July 2024 to 20th July 2024 .
- Prof. Mahendra M K participated in IP Awareness/Training program under National IP Awareness Mission (NIPAM) Organized Intellectual Property Office, India on 19th July 2024.





Prof. Godhandaraman T
Assistant Professor
Department of CSE(DS)

- Prof. Godhandaraman T participated in the Five Days National Level Faculty Development Programme On "EXPLORING COMPUTATIONAL INTELLIGENCE (ONLINE)" organised by School of Computer Science and Engineering, VIT-AP University, Amaravati from 16th July 2024 to 20th July 2024 .
- Prof. Godhandaraman T participated in IP Awareness/Training program under National IP Awareness Mission (NIPAM) Organized Intellectual Property Office, India on 19th July 2024.



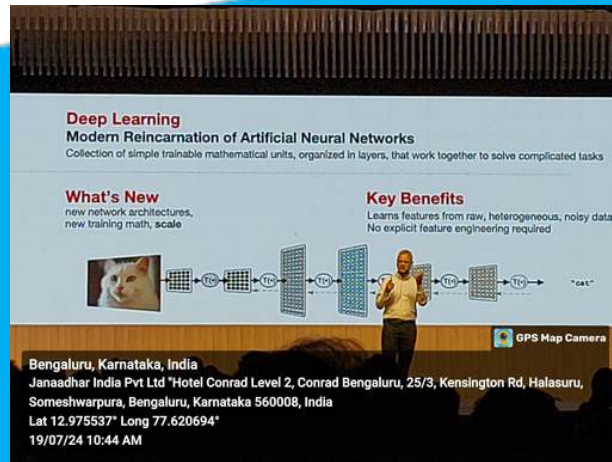


Prof. Shivamma D
Assistant Professor
Department of CSE(DS)

- Prof. Shivamma D participated the MATLAB EXPO 2024 Workshop held on 11th July 2024 organized by MATHWORKS.



- Prof. Shivamma D participated in the workshop Power of AI at Target Multiplai 2024 held on 19th July 2024 | Bengaluru organised by Target Multiplai.



- Prof. Shivamma completed the certification on Machine Learning Fundamentals on 30th July 2024 organized by Infosys's Springboard.





Prof. Vinayaka V M
Assistant Professor
Department of CST

- Prof. Vinayaka V M, Department of Computer Science and Technology, has successfully completed the IUCEE International Educator Certification Program, Spring 2024, conducted by the Indo Universal Collaboration for Engineering Education (IUCEE) Foundation.





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STUDENT ACHIEVEMENTS

- Ms. Pooja (ENG21CT0029) of 6th semester CST got selected in SNEX Technology Services Pvt. Ltd., Campus Placement Drive organized by Department of Training and Placement on 22nd July 2024.



- Mr. Nishant Kumar Dubey (ENG22CT0030) has successfully completed the Infosys Springboard course “Introduction to Deep Learning” in July 2024.



- Mr. Nishant Kumar Dubey (ENG22CT0030) has successfully completed the Infosys Springboard course “Introduction to Machine Learning” in July 2024.



- Mr. Nishant Kumar Dubey (ENG22CT0030) has successfully completed the Infosys Springboard course “Introduction to AWS Services” in July 2024.



- Mr. Nishant Kumar Dubey (ENG22CT0030) participated in the regional round of the National Level Hackathon, “Hackfest 24,” and successfully presented an innovative solution to the given problem on May 30, 2024, organized by New Horizon College of Engineering, Bengaluru.



- Mr. Siddharth Kumar (ENG22CT0049) participated in the regional round of the National Level Hackathon, “Hackfest 24,” and successfully presented an innovative solution to the given problem on May 30, 2024, organized by New Horizon College of Engineering, Bengaluru.



- Mr. Krishna Rathore (ENG22CT0010) participated in the regional round of the National Level Hackathon, “Hackfest 24,” and successfully presented an innovative solution to the given problem on May 30, 2024, organized by New Horizon College of Engineering, Bengaluru.



- Mr. Eeshaan U. Bhat (ENG22CS0539), a student of the 4th Semester in the CSE Department, and his team won 2nd prize worth \$1,500 in the Decipher event held at DSCE on 13th July 2024.



- Mr. Yogesh V. from the Department of ASE presented a research article at IEEE Space 2024, titled 'Transforming Wildlife Conservation with AI-Integrated Daring Drones,' in July 2024 at IISc, Bangalore.
- Mr. Sunil G. (Alumnus) from the Department of Aerospace Engineering joined IIT Kanpur for the M.Tech program in the Department of Aerospace Engineering, with a specialization in Aerothermodynamics and Thermal Sciences. The admission was based on the GATE Score 2024, with an All-India Rank (AIR) of 342.
- Mr. K. Raghav and Mr. Yashas from the Department of Aerospace Engineering participated in a 'National Level Drone Build Competition Hackathon' organized by the Department of Electronics & Communication Engineering at Vidya Vikas Institute of Engineering and Technology, Mysore, on 19th July 2024.



- Mr. Aditya G. Kulkarni (ENG22CY026), Ms. Raveena Dharmappa (ENG22CY019), and Mr. Yash Bagga (ENG22CY050), students of the 4th semester, presented their technical paper titled 'Bl-IEA: A Bit-Level Image Encryption Algorithm Using Transformation and Chaotic Skew Tent Map-Based Substitution for Fingerprint Images' under the guidance of Dr. Prajwalasimha S. N., Prof. Naveen Kulkarni, and Prof. Deepthika Karuppusamy. The conference took place at K. Ramakrishnan College of Engineering in Trichy, Tamil Nadu, as part of the 2024 Third IEEE International Conference on Electrical, Electronics, Information and Communication Technologies (ICEEICT 2024).



- Mr. Prajwal N. Halvi (ENG22CY037), a student of the 4th semester, presented his technical paper titled 'IDEA-PTLMS: Designing Secure Image Encoding and Decoding Algorithms Using Pixel Transposition and Logistic Map-Based Substitutions' under the guidance of Dr. Prajwalasimha S. N., Dr. Durbadal Chattaraj, Prof. Naveen Kulkarni, and Prof. Deepthika Karuppusamy. The conference took place at K. Ramakrishnan College of Engineering in Trichy, Tamil Nadu, as part of the 2024 Third IEEE International Conference on Electrical, Electronics, Information and Communication Technologies (ICEEICT 2024).





- Seventeen erudite students (both third and fourth year, CSE-Cyber Security) volunteered and actively participated in the 'NASSCOM AI Confluence' event at Radisson Blu, Marathahalli, Bangalore, Karnataka, on 24th July 2024, from 9:00 AM to 7:00 PM, under the guidance and supervision of Dr. Durbadal Chattaraj, Associate Professor & Chairman, Department of CSE (Cyber Security), Dayananda Sagar University, and Mr. Sudeep Kumar Das, Program Manager (NASSCOM AI).



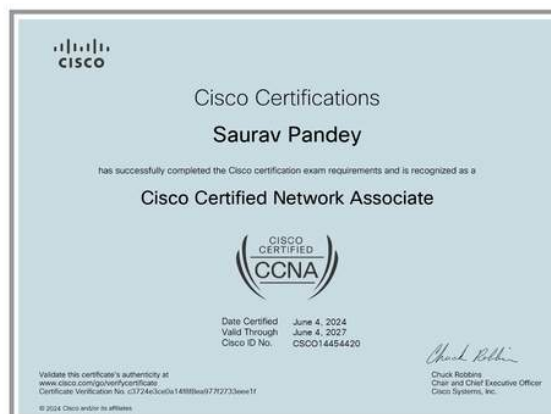
- Mr. A. Vaishnav (ENG20CY0043) has cleared the global certification exam eJPT (Junior Penetration Tester) on 24th July 2024, with certification ID 110070299.



- Mr. P. Kushal (ENG20CY0024) has cleared the global certification exam eJPT (Junior Penetration Tester) on 24th July 2024, with certification ID 110068565.



- Mr. Saurav Pandey (ENG22CY0039) has successfully completed the Cisco certification exam requirements and is recognized as a 'Cisco Certified Network Associate' with Cisco ID No. CSC014454420. Date Certified: 4th June 2024; Valid Through: 4th June 2027.



- Ms. Neeraja Patil (ENG21EC0071), a 7th-semester ECE student, presented a paper at the IC-MNSS-2024 conference at IISc Bangalore titled "Gold-Coated 2D Photonic Crystal Biosensor for Effective Tuberculosis Detection," under the guidance of Dr. Saara K., Professor of ECE.



- Final-year students Adithya J. [ENG20EC0004], B. Reshma [ENG20EC0017], Bhoomika M. [ENG20EC0020], and Naveen S. R. [ENG21EC1004] presented a paper entitled "Stress Monitoring and Management System" at the 2024 IEEE International Conference on Information Technology, Electronics, and Intelligent Communication Systems (ICITEICS) in Karnataka, India, on June 28-29, 2024 under the guidance of Prof. Jisy N. K., Assistant Professor of ECE.



- 7th semester ECE students Vinod Ajath G A, Vani D Lachyan, Vishwanath Shivanand Malabasari, and Jayanth A Tasgaonkar participated in the Open Automation Challenge 2024, 'Converting Ideas to Reality,' conducted by BR Automation India in Pune, where they won FIRST prize. This event was held in Pune. They were trained in an automation studio equipped with the Bosch Rexroth lab.



- Vandhana (ENG21CT0046) and her team won 2nd place in the InnovationThinkTank Capacity Building Program, which focused on sustainable healthcare systems of tomorrow and event was hosted by Siemens Healthineers in Bengaluru from July 22 to 31.



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