



DAYANANDA SAGAR
UNIVERSITY



SCHOOL OF
ENGINEERING

SOE - "The Weekly Buzz"

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



Week#33 (Aug 12 to 17, 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 CSE

Ms. Lavanya B Koppal, Research Scholar and Dr Rajesh TM, Associate Professor, Dept of CSE, published a Scopus indexed Conference paper with the title “Mango Leaf Images Quality Improvement Techniques Using Subjective Approach of Image Enhancement” in the International Conference on Recent Trends in Computing which is published in the Springer Lecture Notes in Networks and Systems (LNNS, volume 954), DOI : <https://doi.org/10.1007/978-981-97-1724-8>



K Tejashree, PG Student and Dr Rajesh TM, Associate Professor, Dept of CSE, published a Scopus indexed Conference paper with the title “Analysis of Arrhythmia from Electrocardiogram (ECG) Data Using ML Framework” in the International Conference on Recent Trends in Computing which is published in the springer Lecture Notes in Networks and Systems (LNNS, volume 954), DOI: <https://doi.org/10.1007/978-981-97-1724-8>



Ms. Anitha N.S, Research Scholar, Dr. Rajesh T.M, Associate Professor, Dept of CSE and Dr. Anitha Kini, Associate Professor, Department of Radiology CD-SIMER have published an Indian patent with the title “Integrated System for Noise Reduction, Enhancement, Feature Extraction, And Classification of Pulmonary Respiratory Diseases in CT Scan Images” on 9th August 2024 and the name of Applicant is DAYANANDA SAGAR UNIVERSITY, Application No.202441058545

Office of the Controller General of Patents, Designs & Trade Marks
Department for Promotion of Industry and Special Trade
Ministry of Commerce & Industry
Government of India
(<http://ipindia.nic.in/index.htm>)

INTEGRATED SYSTEM FOR NOISE REDUCTION, ENHANCEMENT, FEATURE EXTRACTION, AND CLASSIFICATION OF PULMONARY RESPIRATORY DISEASES IN CT SCAN IMAGES (IP/2024/41058545)

Application Details	
APPLICATION NUMBER	2024/105845
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	08/08/2024
APPLICANT NAME	DAYANANDA SAGAR UNIVERSITY
TITLE OF INVENTION	INTEGRATED SYSTEM FOR NOISE REDUCTION, ENHANCEMENT, FEATURE EXTRACTION, AND CLASSIFICATION OF PULMONARY RESPIRATORY DISEASES IN CT SCAN IMAGES
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	pryuthumarpaneni@gmail.com
ADDITIONAL E-MAIL (As Per Record)	
E-MAIL (UPDATED ONLINE)	
REQUEST DATE	-
REQUEST FOR EXAMINATION DATE	-
PUBLICATION DATE (SUS 11A)	08/08/2024

Application Status

APPLICATION STATUS: **Awaiting Request for Examination**

[View Documents](#)

Dr. Renuka Devi M.N, Assistant Professor, Dept. of CSE has successfully published the text book entitled “Characterization and Detection of Behavioural Patterns: Techniques and Applications in Video Analysis, ” published in first edition, of Scientific International Publishing House (SIPH) of i-Managers publications. ISBN:



- Dr. Praveen Kulkarni, Associate Professor, Dept. of CSE and Dr. Rajesh T.M, Associate Professor, Dept. of CSE has successfully published the text book entitled “Emotion Analytics: A Data Driven Approach to Human Emotion Grading” in first edition of Scientific International Publishing House (SIPH) of i-Managers publications. ISBN: 978-81-973302-7-8.
- Dr. Sharath M N, research scholar, Dept. of CSE and Dr. Rajesh T.M, Associate Professor, Dept. of CSE has successfully published the text book entitled “A Robust Model for securing the Data in Video Communication” in first edition of Scientific International Publishing House (SIPH) of i-Managers publications. ISBN: 978-81-973302-8-5



Department of CSE (AIML)

The editorial board of Scientific International Publishing House (SIPH) is hereby awarding this certificate to Dr. SHREYAS RAJENDRA HOLE, Assistant Professor, Dept. of CSE (AI&ML) in recognition of the publication of the text book entitled "ARTIFICIAL INTELLIGENCE" published in first edition.



Department of CSE (Data Science)

- Dr. U. Pavan Kumar Participated in a two day online Faculty Development Program on "Deep Learning and IOT Technologies in Precision Healthcare" Organized by Kongu Engineering College during 16/08/2024 and 17/08/2024.



Department of Computer Science & Technology

- Dr. Santosh Kumar J filed a patent on "Analysis of Metro Cities data to address urban problems and solutions for the economic development" Application Number: 202441059550.
- Dr. Santosh Kumar J filed a patent on "Electric meter reading applications that generates bills based on updated photo of the meter" Application Number: 202441059480.
- Dr. Santosh Kumar J, Dr. D. Sudha, Dr. M. Shahina Parveen filed a patent on "Development of web geo tagged information retrieval system for tracking politicians" performance and activities" Application Number: 202441061684.

Department of ECE

Dr. Rashmita Sahoo is delighted to share the news that our paper titled "Ambient Noise Effect of the Underwater Channel on the Optical Wireless Communication System" has been honoured with the Best Paper Award at the 2nd IEEE International Conference on Networks, Multimedia and Information Technology-2024 (NMITCON-2024).

The conference, organized by the Nitte Meenakshi Institute of Technology in association with the IEEE Bengaluru Section, was held on the 9th and 10th of August. Our paper's findings were supported by Monte Carlo (MC) simulation results, which were generated using the parallel processing toolbox in MATLAB. The simulations were conducted with various optical sensors, including the AC-S, VSF meter, and Trios-Ramses.

This recognition is a testament to the significant contributions our research is making in the field of optical wireless communication systems.



Departmental Activities

Department of CSE

The Department of CSE conducted one-day hands-on workshop A 5-day online skill development program on Power BI & Rapidminer was conducted for 5th and 7th semester CSE students on 12th to 16th August 2024 with an objective to develop data analysis and visualization skills among the students using Power BI and RapidMiner. The program was organized by the Data Analysis and Visualization club of the Computer Science and Engineering department.

DAYANANDA SAGAR UNIVERSITY
Devanagallahalli, Hanasalli, Ramnagar, district 562 112

Department of Computer Science and Engineering

5 Days Skill Development Program on Power BI and RapidMiner Data Analysis and Visualization Club
Date: 12th August 2024 to 16th August 2024
Time: 10:30am

Course Outcomes

- Develop Skills in Data Preparation From Multiple Sources for analysis.
- Develop the ability to create interactive Dashboards for insights.
- Acquire skills on data analysis.

Course Outline

- Module 1 :** Introduction to Business Intelligence, Concepts of Data Warehousing, Data Integration tools & Data Transformation.
- Module 2 :** Evaluation of various BI tools : Power BI, Rapidminer
- Module 3 :** Understanding tools : Power BI, Rapidminer
- Module 4 :** Case study 1 and Case study 2
- Module 5 :** Data analytics with significant data visualization

Reference Persons

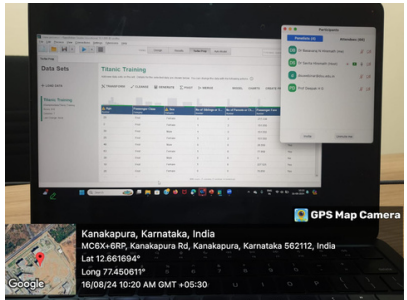
- Dr. Ravanahalli Hiramath, Prof., CSE
- Dr. Sarika Hiramath, Assoc. Prof., CSE
- Prof. Deepak H.S., Asst. Prof., CSE

Coverments

- Dr. Vidya Kumar Reddy K.R., Dean, SOE
- Dr. Girisha G.B. Chairperson CSE, SOE

Registration Form Link:
<https://forms.gle/3N1G0R9v28m0T2AA>

Benefits: Chance to obtain Internship Opportunity and Professional Certification in Applications & Use Cases from ALTAR and also E-Certificates will be provided from the CSE Dept for the Participants.



Student Activities

Department of Aerospace

Mr Mehul Malhotra (ENG21AS002) & Mr Vivek S Gowda (ENG21AS0049) from Department of Aerospace Engineering completed internship at Bangalore Aircraft Industries PVT LTD .

under the guidance of Prof. Sripad Kulkarni, Assistant Professor Department of Aerospace Engineering



Bangalore Aircraft Industries Pvt. Ltd.

CERTIFICATE

This is to certify that **MEHUL MALHOTRA** from Dayanand Sagar University, Bangalore, Karnataka has completed the "Industrial Internship Program" for 2 weeks conducted by Bangalore Aircraft Industries Pvt. Ltd., Bengaluru. He was exposed to Design and Development of Aircraft Structural Components during this training.

August 17, 2024

Date



Director, BAIL



Bangalore Aircraft Industries Pvt. Ltd.

CERTIFICATE

This is to certify that **VIVEK S GOWDA** from Dayanand Sagar University, Bangalore, Karnataka has completed the "Industrial Internship Program" for 2 weeks conducted by Bangalore Aircraft Industries Pvt. Ltd., Bengaluru. He was exposed to Design and Development of Aircraft Structural Components during this training.

August 17, 2024

Date



Director, BAIL



**SCHOOL OF
ENGINEERING**

**Edited by :
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