

# SAKSHIN

MONTHLY NEWSLETTER OF DEPARTMENT OF CSE/IT

#### **VISION**

 Nurturing globally competent Computer Science and Engineering graduates capable of taking challenges in the Industry and Research Development activities

#### **MISSION**

- Imparting quality education to meet the needs of industry, and to achieve excellence in teaching and learning
- Inculcating valuebased, socially committed professionalism for development of society
- Providing support to promote quality research

# RECENT PLACEMENTS



Adithya Shenoi (S8 CSE) ACCENTURE



Deepak Surendran Pillai (S8 CSE) UST GLOBAL



Sruthy S Nair (S8 CSE) WIPRO



Fathimath Sunitha (S8 CSE) UST GLOBAL



Rizni Abullies (S8 CSE) ACCENTURE



# **EDITORIAL BOARD**

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CHIEF EDITOR & CREATIVE DESIGN: ASST.PROF.REMYA VINAYAKUMAR

CONTENT TEAM: DHIYA THOMAS (S3 CSE A), SUDARSAN (S3 CSE B), A.R. NANDAGOPAL (S5 CSE A), VINDHUJA(S5 CSE B), ARATHY S KUMAR & NAVEEN S (S7 CSE) & ANU MARY & ANJANA BENNY (S7 IT)



Sreelakshmi T S
(S8 CSE)
GES-Kimball electronics



Arun Varghese (S8 CSE) SPERIDIAN



Megha S (S8 CSE) UST GLOBAL logicPlum



Aisha Mehrin CT (S8 IT) FLYCATCH



Aiswarya PL (S8 IT) INFOSYS



Jyotsna MS (S8 IT) INFOSYS

# **CONGRATULATIONS !!!**



## "Working together is success"

Department of Computer Science and Engineering along with the other branches of ASIET have received the NBA Accreditation extended till 2022 June. Congratulations to the ASIET Management, Principal, faculties, staff members, students and parents for the teamwork.

# **S5 UNIVERSITY TOPPERS**





# **DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

S5 UNIVERSITY RESULTS TOPPERS 2021



**POOJA NAIR - 10** 



ELIAS THAMBI - 9.87



MEENAKSHI P D - 9.87



VINDHUJA K - 9.76



MILNA ELDHO - 9.74



**ABHIMANEU KJ - 9.7** 



SRIVATHSAN - 9.7



APARNA T J - 9.48



GAUTHAM G PANICKER



**ANANDHU P M - 9.26** 



ARDRA N P - 9.26



DONA MARIYA JOHN - 9.17





ANUSREE G - 9.15



ABHIRAM K G - 9.13

# **12P CONTEST**

We are happy to announce the AdiShankara I2P Contest winners (Dept.Category CSE) **First Position**: Athul Blesson and team mentored by Dr. Sujith Kumar P S for the project "Draw Bot".

**Second Position**: Aalap P Joshy and team mentored by Asst. Prof. Sumesh M S for the project "Automatic Power failure Alert System for KSEB".

Congratulations to the winners!!!!



## Projects selected from the CSE department for the next round Phase II are:

Sl. No:	Participants	Title of the project	Mentor name
1	Athul Blesson	Draw Bot	Dr. Sujith Kumar P.S
	Ashique K Snehajan		
	Nikhil Chacko		
2	Aalap P Joshy	Automatic Power failure Alert System for KSEB	Prof. Sumesh M S
	Arun Varghese		
	Jose Johny		
	Joyal Varghese		
3	Abhijith Jaideep	Automated Animal Feeder	Prof. Ramesh R
	Alfiya M J		
	Anusha P S		
4	Jyotsna M S	Covid-19: Health Monitoring System Using LoRa	Prof. Divya K S
	Anagha K S		
	Aisha Mehrin C T		
5	Elias Thambi	Smart Entrance System	Prof. Sreeresmi T S
	David PT		
	Abhijth PU		
6	Meenakshi P D	Smart Door Bell	Prof. Ramesh R
	Jemi Mariya Jose		
	Maris Baby		
7	Midhun KS	Landslide detection and alarm system using LoraWAN	Prof. Raghi R Menon
	Kamal VS		
	Jeswin Davis		
8	ATHIRA BHADRAN	IMP ( INNATE MOBILE PRINTER )	Ms. Divya K S/Dr. Sujith Kumar
	ASWATHI H		
	GAYATHRI DEVANAND		
	HARIPRIYA R NAIR		

# STUDENTS CORNER ONLINE COURSES/WEBINARS/WORKSHOPS

#### **IIRS ISRO ONLINE COURSE**

 Vindhuja K, Milna Eldho, Prashanth P Nair and Gopalkrishnan of S7 CSE B completed the online course of (IIRS ISRO) on 'Overview of web Gis Technology'.

#### WORKSHOP

• Malu Mohan of S2 CSE(AI) attended a workshop conducted by CSI on 'App development using Flutter'.

#### **MOOC COURSE**

- Aaron P Laiju of S2 CSE(AI) completed the MOOC courses on 'Google Cloud Platform Fundamentals: Core Infrastructure' and 'Essential Google Cloud Infrastructure: Foundation' in the month of July.
- Mareena Kunjachan of S8 CSE has completed the course 'Artificial Intelligence Foundations(V 2 SKOAI101)', Applied course on 'Machine Learning: Linear Regression' and Applied course on 'Fundamentals of Data Analytics' by LEAPS Analytica from 04/06/2021 to 09/06/2021.
- Sruthy S Nair of S8 CSE has completed an online non-credit course on 'Migrating to Google Cloud' authorized by Google Cloud and offered through Coursera on 05/06/2021.
- Subith O Babu of S8 CSE has completed an online course on 'Introduction to AWS identity and Access management' offered through Coursera on 27/05/2021

#### **BOOTCAMP**

- Alvin Regin and Edwin Martin of S2 CSE(AI) completed a bootcamp on 'ShapeAI- Python and Cyber Security', 'ShapeAI- Python and Data Analytics' and 'ShapeAI- Javascript & React JS'.
- Aswathy Jayakrishnan of S2 CSE(AI) completed 'ShapeAI- Python and Cyber Security Bootcamp'.
- Jayanth Rama Varma of S7 CSE B completed 'The complete 2021 web development bootcamp'.

#### **WEBINAR**

• Vishak SS and Sudeep PS of S2 CSE B participated in a webinar on "Importance And Demand Of Cyber Security In Digitalization" on 20/07/2021.

- Aswathy S attended a webinar on 'Build from home project by Tinkerhub foundation'.
- Bazil Alias and Malu Mohan of S2 CSE(AI) attended a webinar on 'Cybersecurity'.
- Malu Mohan and Geeba Babu of S2 CSE(AI) participated in 'Hack-N-Slash' a webinar by Hackersvilla
- Ashik K J of S2 CSE(AI) participated in a webinar on 'Art of Writing Research Paper'.

### **QUIZ / ONLINE EVENT**

- Gayathri Devi C G, Dona Babu, Viji Varghese Manjaly, Vijaithakrishna S Ghosh, Rose Mary Jose, Rincy Pereira, Revathy A S, Parvathy Radhakrishnan, Parvathy B, Malu Mohan, Ashik K J, Geeba Babu, Bazil Alias, Gauri A, Darshana P and Aleena Maria of S2 CSE(AI) participated in 'NSS Busta Di Carta', paper bag making competition conducted by NSS unit of GEC, Wayanad on 03/07/2021.
- Darshana P, Aleena Maria, Megha Baiju and Gauri A, Amrutha Das, Adwaith Nishin of S2 CSE(AI), Jonathan Jobby Pynadath and Sanjay Gireesan of S2 CSE B were the coordinators of the event "EUPHORIA" conducted by the semester 2 students for the plus two students.
- Meera Roy of S2 CSE B participated in an Online Quiz on Environmental Science conducted by the Physics department and Science Forum of Sree Sankara Vidyapeetom College on 05/06/2021.
- Amrutha Das of S2 CSE(AI) participated in an 'Article writing' competition hosted by IEEE SB GECT Thrissur on 06/06/2021.
- Aaron P Laiju of S2 CSE(AI) hosted the event 'SAPHIRE' conducted by CSI, ASIET from 12/06/021-14/06/2021.
- Aswathy Jayakrishnan of S2 CSE(AI) participated in an online poster making competition, Fig Foss Talk series and Calypso quiz competition .
- Geeba Babu and Malu Mohan participated in AGREYA 2021:Virtual Treasure Hunt conducted by SNGIST College.
- Bazil Alias of S2 CSE(AI) participated in NSS TrashGold- Trush to treasure competition .

 Malu Mohan participated in AGREYA 2021:Photography competition conducted by SNGIST College, NSS Plastroon- Cartoon drawing competition, NSS TrashGold- Trush to treasure competition, Sinfonia musical competition and Codezilla 1.0: programming competition.

## **FACULTY CORNER**

## **Research Talk**



Asst.Prof.Teena George Dept.of.CSE



Asst.Prof.Jain Stoble B
Dept.of.CSE

The Thirteenth research seminar of the computer science and engineering was presented by prof. Teena George. Assistant Professor CSE on the topic "Zero trust strategy in Cloud Computing" on 07.06.2021 via Google meet. The session focused on providing an introduction to Zero Trust approach in Cloud Computing. The session began by explaining the security aspects of traditional network model, the drawbacks of the existing model and the need for a new model with improved security. A zero trust model and an example was shown. Advantages and challenges faced by the model was also discussed in the session.

The eighteenth research seminar of the computer science and engineering was presented by Prof.Jain Stoble B, Associate professor CSE on the "Texture based Multi-View Face Recognition in Noisy images using BRINE Feature" on 8/7/2021 via Google meet. The session focused on a novel feature Brint. It began with introduction to the fundamental concepts like image processing, human face recognition, its applications. Later several features for face detection and training methods were touched upon. The session was concluded with discussion on implemented results.

# FDP attended/workshop attended

• Asst.Prof.Divya K S attended online ATAL FDP on "Deep Learning" from 05/07/2021 to 09/07/21 at Atal Bihari Vajpayee Indian Institute of Information Technology and Management Gwalior.

- Asst.Prof.Remya Vinayakumar, Asst.Prof.Rosemary Varghese and Asst.Prof.Jain Stoble B and Dr.Sujithkumar attended 5 days ATAL FDP Faculty on "Infrastructure and security challenges in cloud computing", organized by Department of Computer Engineering, SCMS School of Engineering & Technology.
- Asst.Prof.Jain Stoble B, Asst.Prof.Asha Rose Thomas, Asst.Prof.Gripsy Paul Mannickathan, Asst.Prof.Rosemary Varghese and Asst.Prof.Remya Vinayakumar attended a webinar on "An Introduction to AI" on 14/07/2021 by TCS
- Asst.Prof.Divya G and Asst.Prof.Ramesh R participated in an Open Source Summit India-2021 conducted by Saintgits College of Engineering and FOSS Asia from 28/06/2021 to 02/07/2021.
- Asst.Prof.Teena George, Asst.Prof.Rosemary Varghese, Asst.Prof.Remya Vinayakumar, Asst.Prof.Jain Stoble B, Asst.Prof.Raghi R. Menon and Asst.Prof.Neetha K. Nataraj attended an online STTP on "Machine Learning & Deep Learning with Deployment" from July 22nd to July 24th 2021 organized by the Department of Electronics and Communication Engineering, Adi Shankara Institute of Engineering and Technology, Kalady.
- Asst.Prof.Simi MS participated in a 5 day online FDP on "DATA SCIENCE FOR THE NEXT DECADE", sponsored by KTU, organized by the department of CSE Toc H, from 5/7/2021-09/7/2021.
- Asst.Prof.Raghi R. Menon, Asst.Prof.Neetha K. Nataraj, Asst.Prof.Teena George and Asst.Prof.Anaswara Jayan attended webinar on "Securing Intellectual Copyrights" on 29/07/2021.
- Asst.Prof.Gripsy Paul Mannickathan attended a webinar on "Reimaging Youth Skill Post Pandemic", on 15/07/2021 by ICSI.
- Asst.Prof.Asha Rose Thomas attended a webinar on "Intellectual Property Rights ",on 15/07/2021 organized by St.Thomas College of Engineering.
- Asst.Prof.Ramesh R attended webinar on Reconfigurable Digital Systems: A case for FPGA Driven Design conducted by EEE department, ASIET. He also attended a tech talk on Immersive Virtual Reality By Mr.Sreenath Moorchilot, CEO Holomet, 09/07/2021.

## **Paper Publication/Presentation**

 Asst.Prof.Rosemary Varghese, Asst.Prof.Remya Vinayakumar and Asst.Prof.Jain Stoble B has published a paper on "Driver Drowsiness Detection System Based on Eye Closure" in International Journal of Advances in Engineering and Management (IJAEM) Volume 3, Issue 7 July 2021, pp: 2371-2375 www.ijaem.net ISSN: 2395-5252.

- Asst.Prof.Simi MS presented a paper titled "LATENT EVENT FACETS AND NEWS SPECIFICITY FOR THE READER COMMENT DIGESTION" in the ICRTAI on 30/07/2021.
- Asst.Prof.Gripsy Paul Mannickathan presented a paper "Covid Risk Prediction using Machine Learning",in the ICRTAI on 30/07/2021.
- Asst.Prof.Teena George presented a paper "Literature survey on various smart greenhouse automation systems" in the ICRTAI on 30/07/2021.
- Asst.Prof.Anaswara Jayan presented a paper "A web application for farmers" in the ICRTAI on 30/07/2021.
- Asst.Prof.Jain Stoble B presented a paper "A web-based application for monitoring crowd status in stores" in the ICRTAI on 30/07/2021.

## RESEARCH LAB ACTIVITIES

## **Bio-Informatics Lab**

The BioInformatics Research Lab facility in the CSE department supports the research activities and project development of the students. Information gathering and knowledge discovery is the latest challenge in modern biology. Genomic information retrieval, better understanding of disease mechanisms and novel drug discovery solutions has made possible through bioinformatics approaches. With the intention of providing high end services and quality education in Bioinformatics, BioInformatics Research Labs have formed.

#### **Faculties in-charge**

- 1. Asst. Prof. Divya KS
- 2. Asst.Prof.Jain Stoble B
- 3. Asst. Prof. Rosemary Varghese

#### **Projects Completed**

- Disease Prediction System using Sequence Alignment
- An Automated System for IOL Power prediction
- Dermatological Disease Detection Using Image Processing & Machine Learning.

## **Ongoing Projects**

- Identification of biomarkers using deep learning techniques.
- Automated brain tumor identification.

### **Recent Paper Publications**

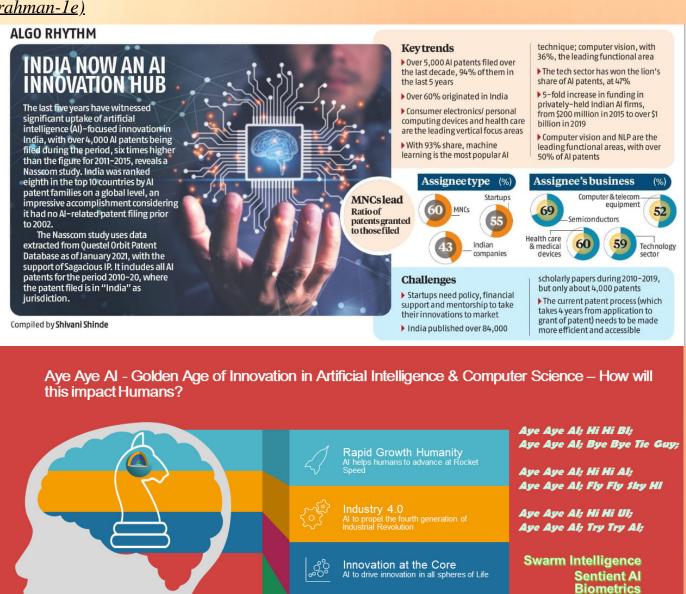
- "Survey on Usage of Machine Learning Techniques in Different Biological Domains".
- "Pill Reminder and Prescription Digitalization Application Using PHP and Android"
- "Disease Prediction System using Sequence Alignment."
- "An Automated System for IOL Power prediction"

#### **Activities conducted**

- Expert talk on "Recent trends in Bio-Informatics" by Dr.Biji CL, University of Kerala
- Workshop on "Bio-Informatics using Machine Learning" by Ms.Sunitha P, Ms.Suma Anil, Ms. Rashmi S and Dr.Biji CL, University of Kerala.
- Expert talk on "Advances and Future direction of Bio-Informatics" by Dr.Madhu PC, METS School of Engineering.
- Online Interaction on various projects in Bio-Informatics by Dr.TRG Nair.

## The Tech-Content

"Artificial intelligence will reach human levels by around 2029. Follow that out further to, say, 2045, we will have multiplied the intelligence, the human biological machine intelligence of our civilization a billion-fold." - Ray Kurzweil (<a href="https://www.linkedin.com/pulse/aye-ai-golden-age-innovation-artificial-computer-science-rahman-1e">https://www.linkedin.com/pulse/aye-ai-golden-age-innovation-artificial-computer-science-rahman-1e</a>)



Ethical Insights

Speech Recognition Virtual Agents

Image and Video Analysis Robotic Process Automation

Natural Language Processing & Generation

Decision Management Al optimized Hardware

Deep Learning Systems (Adaptive, Genetic, Mutational)
Machine Learning Platforms (Supervised & Unsupervised)