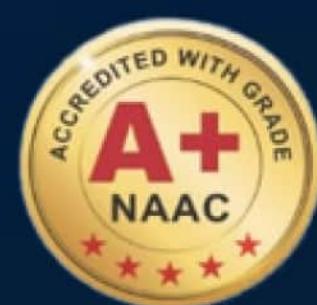


# Dr. M.G.R. EDUCATIONAL AND RESEARCH INSTITUTE DEEMED TO BE UNIVERSITY

University with Graded Autonomy Status

(An ISO 21001 : 2018 Certified Institution)  
Periyar E.V.R. High Road, Maduravoyal, Chennai-95. Tamilnadu, India.



## FACULTY OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF INFORMATION TECHNOLOGY  
TECH VOICE



## VISION

To create technology proficient and ethically enriched IT professionals through holistic and state of art curriculum

## MISSION

- To update the IT skills of students and faculty adapting recent technology developments in the curriculum as recommended by academicians, industry experts and alumni.
- To establish equipped laboratories to present excellent education in the conventional and modern vicinity of Information Technology.
- To create responsible IT professionals with ethical values and social responsibilities. To stimulate entrepreneurial mind-set among the students and enhance competency through regular industrial exposure.
- To utilize the family of alma mater through strong interaction and networking making them instrumental for development of academic and industrial linkage.

## PROGRAM EDUCATIONAL OBJECTIVES[PEO'S]

Graduates will be able to:

**PEO 1:** Excel by taking up key roles in IT and related industries, Government organizations and academia through strong leadership skills.

**PEO 2:** Undertake higher studies and/or research in the field of Information Technology, management or other related domains.

**PEO 3:** Develop innovative products and implement novel solutions to real world problems in IT and related interdisciplinary areas.

**PEO 4:** Understand the societal impact of IT services and use their skills in an ethical, responsible and professional manner.

**PEO 5:** Be updated with continuous learning and have a global perspective, so as to remain current in their profession while meeting the needs of the industry and nation at large.

## PROGRAM SPECIFIC OUTCOMES[PSO'S]

Ability to augment the understanding of broad themes of STEM using Information Technology.

- Ability to analyse, design, develop and implement sustained IT solutions as a team to improve the productivity of the organization with social and economic constraints.
- Ability to apply ethical decision making, use IT industry recognized best practices and standards in the development, implementation and management of IT system integrating multiple domains.
- Ability to understand and update current trends in web technology, distributed infrastructure, data management, software engineering, system engineering and secured applications

# HOD'S DESK



It gives me great pleasure to give my best wishes to "TECH VOICE", a newsletter from Department of Information Technology of Dr.M.G.R Educational and Research Institute. It is a technical platform to bring out the hidden talents of students and faculty.

The students and faculties of department are always proactive in taking initiatives in technical, cultural and social events. I hope that this newsletter will serve the purpose of reflecting all activities of department and it will inspire others to do their best. Wishing you all the best. I take this opportunity to congratulate the students editorial team and our staff editors Dr.Dahlia Sam and Mr.A.Kameshwaran for their great effort to make this news letter as a reality. Also I invite the readers of "TECH VOICE" for their contribution and suggestions for the forthcoming issues. I wish good luck to the entire team of editors and look forward for your kind patronage to our newsletter.

**Dr.N..Kanya**

# PUBLICATIONS

- Tamilselvi, C., Ramamoorthy, S. & Rajavarman, V.N. (2023). Ischemic Stroke Predictive Analytics Using Fusion Gradient Boosting Decision Tree Algorithm Combining Lightgbm and XGBoost in Bigdata. *The Seybold Report*. 18(5) p. 1899-1908. (ISSN 1533 9211 DOI 10.17605/OSF.IO/B7H8R)
- Vidhya, M., Dahlia Sam & Rajavarman, V.N. (2023). An Adaptive Thresholding and Hybrid Deep Learning Model for Rice Blast Fungal Detection using BOA & ROA Algorithm. *The Seybold Report*. 18(4) p. 1130-1147. (ISSN 1533 9211 DOI 10.17605/OSF.IO/TZB8R)
- Sujatha, K., Bhavani, N. P. G., Ethiraj, N., Bhuvaneswari, S., Sivabalan, T., Geetha Soman., Kanya, N. & Prameeladvi Chillakuru (2023). Deep Learning Neural Networks for Forecasting the Abrasive Wear in Machining Tools for Cryogenic Treatment by Process Parameter Optimization. In: Joshi, A., Mahmud, M., Ragel, R.G. (eds) *Information and Communication Technology for Competitive Strategies (ICTCS 2022)*. ICTCS 2022. Lecture Notes in Networks and Systems, vol 623. Springer, Singapore. [https://doi.org/10.1007/978-981-19-9638-2\\_2](https://doi.org/10.1007/978-981-19-9638-2_2)
- Kanya, N., Gitanjali Kumari., Nisha Kumari. & Saifulla MD. (2023). Sign Language Recognizer using Machine Learning, International Conference on Advances in Science, Humanities and Technology (ICASHT-23) at Chennai, 9th & 10th January.
- Monica Gaja., Prasath, K.S., Sashaank S Damodar. & Santhosh Kumar, V. (2023). Government Tender Allocation using Blockchain Technology, International Conference on Advances in Science, Humanities and Technology (ICASHT-23) at Chennai, 9th & 10th January.
- Nithya, K., Adhithian, E., Harish, E. & Keerthana, S. (2023). Smart Agriculture with IoT, International Conference on Advances in Science, Humanities and Technology (ICASHT-23) at Chennai, 9th & 10th January.
- Tamilselvi, C., Sachin Kumar., Rahul Kumar. & Shiv Shankar Kumar. (2023). Fake News Detection in Facebook using Machine Learning, International Conference on Advances in Science, Humanities and Technology (ICASHT-23) at Chennai, 9th & 10th January.
- Tamilselvi, C., Karri Jessica., Pankaj Kumar. & Pavan Kumar. (2023). Smart Mirror Attendance Marketing System, International Conference on Advances in Science, Humanities and Technology (ICASHT-23) at Chennai, 9th & 10th January.
- Kiruthiga Devi, M., Rahul Kumar., Prashant Kumar. & Uttam Kumar. (2023). Safety Wearable Devices for Civil Workers, International Conference on Advances in Science, Humanities and Technology (ICASHT-23) at Chennai, 9th & 10th January.
- Kiruthiga Devi, M., Charumathi, T., Nasreen Banu. & Pavithra, B. (2023). Pervasive Wetter Meter, International Conference on Advances in Science, Humanities and Technology (ICASHT-23) at Chennai, 9th & 10th January.
- Dahlia Sam., Kaviyadarshini, Nasreen Banu., M., Lokesh Raj, M., Abishek Roshan.. (2023). Amigo AI Voice Assistant, International Conference on Advances in Science, Humanities and Technology (ICASHT-23) at Chennai, 9th & 10th January.
- Dahlia Sam., Kaushal Kumar., Gulzar, M.D.. & Kundan Kumar. (2023). Virtual Mouse and Keyboard using Hand Gesture, International Conference on Advances in Science, Humanities and Technology (ICASHT-23) at Chennai, 9th & 10th January.
- Jeyageetha., Kiruthiga Devi, M., V. Tharani, R K., Vignesh, R. & Sathish Kumar, S. (2023). Implementation of Femto Satellite For Air Quality Detection, International Conference on Advances in Science, Humanities and Technology (ICASHT-23) at Chennai, 9th & 10th January.
- Dahlia Sam., Nithya, K., Deepa Kanmani, S., Adlin Sheeba., Shamila Ebenezer, A., Uma Maheswari, B. & Jennifer Daffodils Amesh. (2023). Survey of risks and threats in online learning applications, Secure Data Management for Online Learning Applications, ISBN: 978-1-032-20642-4 (hbk) ISBN: 978-1-032-20643-1 (pbk) ISBN: 978-1-003-26453-8 (ebk),
- Jayanthi, K., Priya, M.S., Saranya, S., Gomathi, R. & Dahlia Sam. (2023). E-Learning as a Desirable Form of Education in the Era of Society 5.0, *Advances in Distance Learning in Times of Pandemic*, Pages 23-51, ISBN: 9781032334417 (hbk) ISBN: 9781032344591 (pbk) ISBN: 9781003322252 (ebk), DOI: 10.1201/9781003322252.

# Events corner

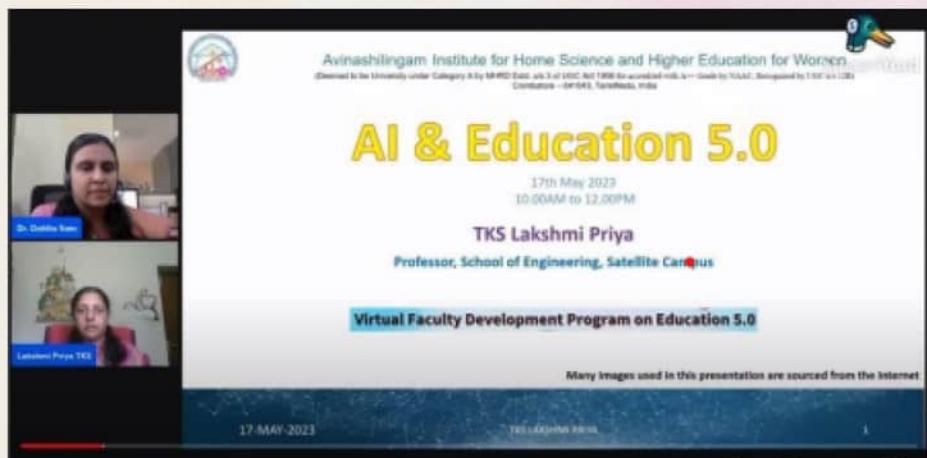
## ISR Event on " Digital Literacy"



**DATE: 19/04/2023 TIME: 02.00 pm to 04.00 pm**

**CHIEF GUEST: Er. A.C.S. Arun Kumar, President, Dr. MGR Educational and Research Institute**

## Five days International Faculty Development on Education 5.0



**DATE: 15/05/2023 to 19/05/2023 TIME: 10:00 AM to 12:00 PM**

**CHIEF GUEST: Prof. Samuel Johnson, Assistant Director - center for teaching and learning, VIT AP University.**

## Certificate training Program on "JAVA"



**DATE: 17/04/2023 to 21/04/2023 TIME: 10:00 AM to 4:00 PM**

**CHIEF GUEST: Dr. ILAMCHEZHIAN.J, Assistant Professor, Faculty of Computer Applications, Dr. M.G.R Educational and Research Institute**

# Events corner

## Seminar on Collaboration on Training in ICT

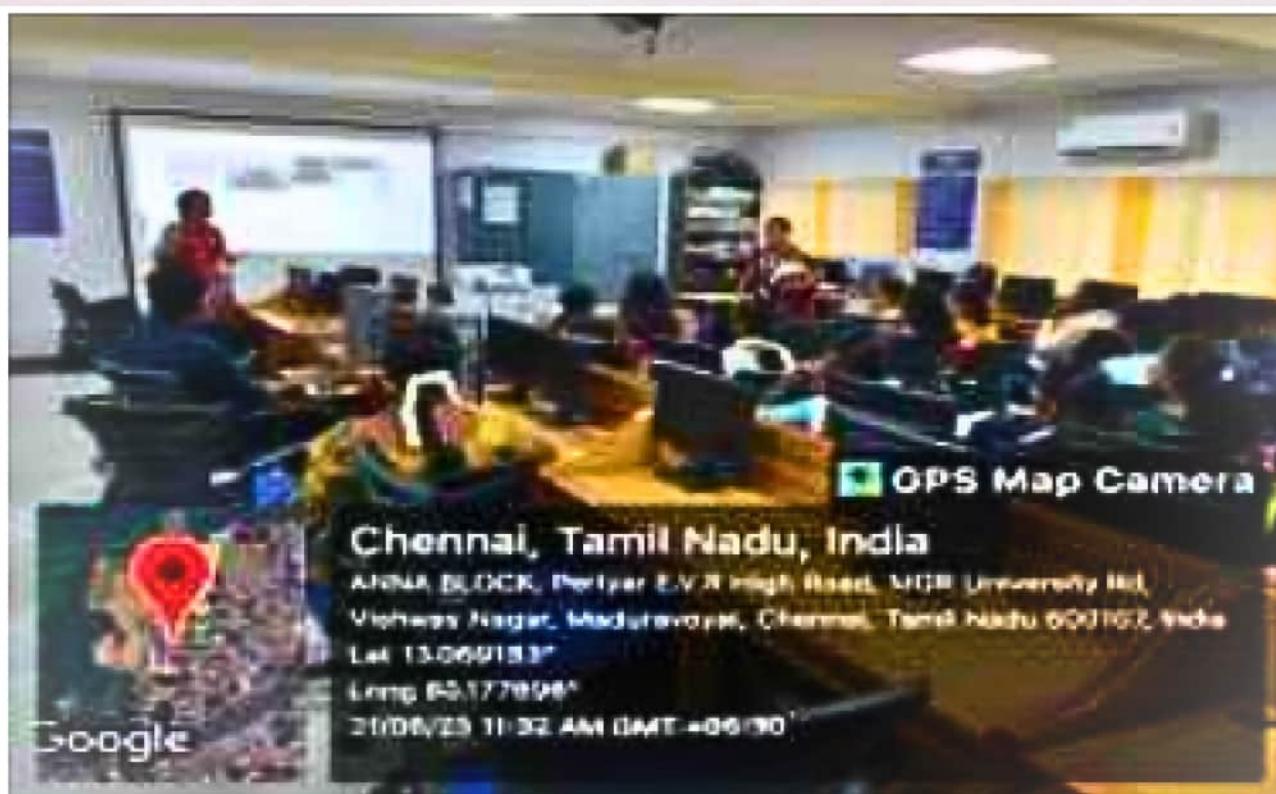


**DATE: 13/04/2023 TIME: 10.00 AM to 12.00 PM**

**CHIEF GUEST: Mr. Nelson Perumal, Director, GKK Consultants, Malaysia.**

# Department Meeting

## Department Journal Club Meeting Minutes

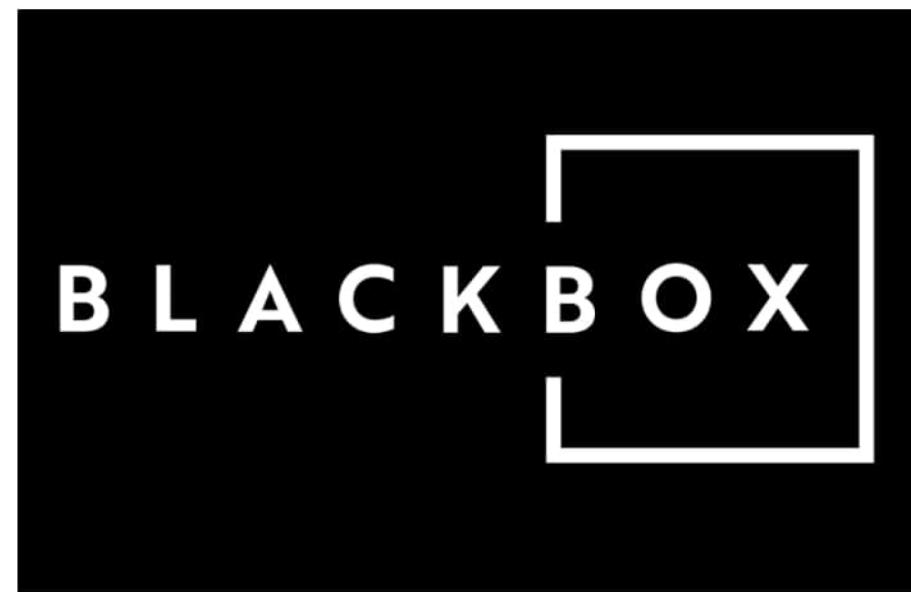


**Journal Club Name: SRIDHAR VEMBU JOURNAL CLUB**  
**Meeting Date: 21.06.2023**

# Students Corner

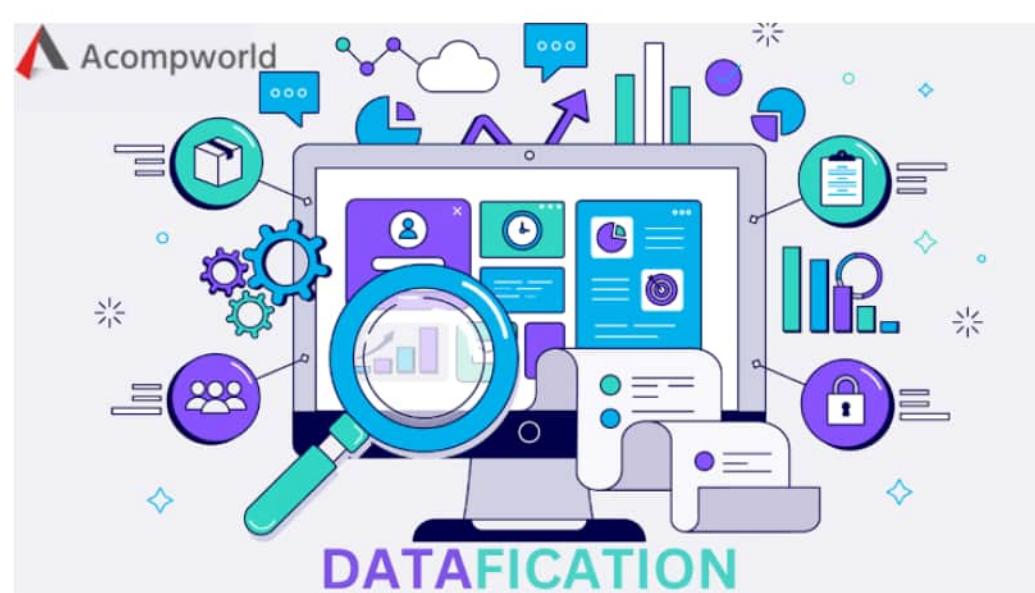
## Unleashing Efficiency and Collaboration with Blackbox Coding Tools

Blackbox coding tools have emerged as a revolutionary solution for efficient software development and enhanced collaboration. These visual programming environments empower developers to create applications using pre-built blocks of code, known as “black boxes.” By leveraging a graphical user interface (GUI), these tools streamline the development process, eliminating the need to write code from scratch. The key advantage of blackbox coding tools lies in their ability to accelerate development. With a library of ready-to-use code blocks, developers can rapidly assemble applications, saving valuable time and effort. Furthermore, these tools promote collaboration by bridging the gap between technical and non-technical team members. The intuitive interface allows for effective communication and cross functional teamwork, resulting in a smoother development process and higher-quality end products.



Hemamalini.k 3rd Year

## Datafication



Vishwa.B 3rd Year

Datafication refers to the process of transforming various aspects of our lives, activities, and the world around us into data. It involves collecting, analyzing, and utilizing vast amounts of data to gain insights, make informed decisions, and create value. Datafication has become increasingly prevalent in the digital age due to the proliferation of digital technologies, the widespread use of the internet, and the growth of connected devices. Almost every action we take in the digital realm, from browsing the internet to using social media, generates data that can be captured, stored, and analyzed. The concept of datafication extends beyond personal activities and encompasses various domains such as business, healthcare, finance, transportation, and more. Organizations and industries are leveraging datafication to improve operational efficiency, enhance decision-making processes, personalize user experiences, and gain a competitive edge.

5G technology is the fifth generation of wireless technology, succeeding 4G, and offers significantly faster data speeds, lower latency, and increased network capacity. It operates on higher frequency bands, including millimeter waves, allowing for more data to be transmitted simultaneously. 5G enables faster download and upload speeds, enabling seamless streaming, rapid file transfers, and smooth video calls. It provides a more responsive network with lower latency, reducing the delay between sending and receiving data, which is crucial for real-time applications like gaming and autonomous vehicles. 5G supports a higher density of connected devices, enabling the Internet of Things (IoT) to flourish and connect numerous devices and sensors simultaneously. It enables the development of advanced technologies like autonomous vehicles, smart cities, augmented reality (AR), and virtual reality (VR) experiences.

## 5G technology



Nivethitha 3rd Year

## AWARDS AND ACHIEVEMENTS



This is to certify that Mr. LAKSHMI KANNAN of 2nd year IT Department won the FIRST place in PAPER PRESENTATION competition under GLITTECRAZZY'23, organized by The Literary Seminary, Dr.M.G.R. Educational and Research Institute, Deemed to be University, Maduravoyal, Chennai-95 on

Mr. MD Gulzar was one of the winners of #igenenergy99challenge v1.0 project organized by The Institution of Green Engineers (IGEN). Award was given on 20th April 2023.



## ALUMNI'S CORNER

My experience at Dr. MGR Educational and Research Institute have been full of learnings which was truly the foundation of my career. My choice to pursue Engineering in IT was clear right from the start and from second year onwards it was an upward journey towards my career. We the students had lot of opportunities to explore our talents through numerous department activities. Our staff members had always stood up for all those opportunities, motivated and guided us. Undoubtedly the department backed by our HOD kept encouraging me to come out with flying colours not just in academics but also in co-curricular activities. I will always cherish those moments in my life. It was a phenomenal four years where we had lot of awareness programs, guest lectures, webinar, alumni interactions and career development programs. The four years of engineering has taught me quite a few life lessons which has enabled me to become a successful IT professional and a good human being as well. I truly miss all those days. I thank all my staff members who had moulded me and got me to this level today. I am always grateful to this great institution.



**Mrs. Bamina Priya Baskar  
Project Manager, Wipro  
Technologies  
Batch: 2011**

## STARS OF Q2

### FACULTY STAR



Dr. M. Kiruthiga Devi,  
Associate Professor

### STUDENT STARS



Lakshmi Kannan  
B.Tech IT 2nd Year



MD Gulzar  
B.Tech IT 4th Year

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DEPARTMENT OF INFORMATION TECHNOLOGY

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