



# **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

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

## MISSION

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- *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 MRA.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

- Adlin Sheeba., Nikkath Bushra, S., Dahlia Sam. & Ajitha, E. (2023). Speech based Depression Analysis using Web Services and Convolutional Neural Networks. *Journal of Pharmaceutical Negative Results*. 14(3), p. 488-493.
- 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)
- Hemavathi R, Rajavarman V.N. & Ramamoorthy, S. (2023). DT-MLP Based Feature Extraction Model for Fraud And Late Delivery Prediction in SCM. *The Seybold Report*. 18(3) p. 379-395. (ISSN 1533 9211 DOI 10.17605/OSF.IO/EGWZU)
- Swedha M, Devendran A, Viji Vinod & Rajavarman V.N. (2023). Improving IJA Skills of Autistic Children Through Mood Prediction Using DNCNN and Wavelet Transform Algorithms. *The Seybold Report*. p. 338-354. (ISSN 1533 9211 DOI 10.17605/OSF.IO/QDYT3)
- Annie Sheryl S, Kevin Andrews S & Rajavarman V.N. (2023). A Short Evaluation on Differential Privacy for Privacy Preservation of Big Data With Future Research Perspectives. *The Seybold Report*. p. 254-263. (ISSN 1533 9211 DOI 10.17605/OSF.IO/YDGR4)
- Vidhya V, Rajavarman V.N & Kevin Andrews S. (2023). De-Noising and Optimization of Medical Images Using Deep Learning Techniques. *The Seybold Report*. p. 1345-1363. (ISSN 1533 9211 DOI 10.17605/OSF.IO/CJU6V)
- Venkatagurunatham Naidu, K & Rajavarman. V.N. (2023). Internet of Things Investigations and Digital Forensics Challenges. *A Journal for New Zealand Herpetology*. 12(2). p. 1345-1363. (ISSN 2230-5807 DOI 10.17605/OSF.IO/CJU6V)
- Swapna Pavan G, N Kanya & V.N. Rajavarman. (2023). A New Deep Learning Algorithm for Video Based Gait Based Recognition Using Hybrid Deep Convolutional Neural Networks. *The Seybold Report*. p. 866-880. (ISSN 1533 9211 DOI 10.17605/OSF.IO/A58GS)
- K Venkatagurunatham Naidu, Rajavarman.V.N, Ananthan.T.V & Ramamoorthy.S. (2023). Cyber Attack Detection and Prevention with IHBf-MI in IOT. *The Seybold Report*. p. 148-169. (ISSN 1533 9211 DOI 10.17605/OSF.IO/487GS)
- Soundara Rajan D S, T.V. Ananthan & V.N. Rajavarman. (2023). Machine Learning Based Intrusion Detection System for Network Sercurity Using Self-Organizing Map. *The Seybold Report*. p. 2163-2172. (ISSN 1533 9211 DOI 10.17605/OSF.IO/P7AD6)
- Anup Ritti., Rajavarman, V.N. & Usha, D. (2023). A Novel Approach for Hand Based Cancelable Biometric Authentication System using K-Fold Cross Validation Scheme. *The Seybold Report*. 18(4), p. 356-367. (ISSN 1533 9211 DOI 10.17605/OSF.IO/P7AD6)



# ALUMNI CORNER

**Utkal Behera**

**System Analyst at  
DataCube Solutions Private  
Limited, Bhubaneswar  
Batch: 2003-2007**



Very happy and grateful to share my four years journey at MGR. My long-time dream of becoming an IT professional came true today only because of our MGR University. It was a memorable experience where we had a great exposure on higher studies research and development. I am always thankful to all my teachers in my department who has moulded us and shaped us in right way and made us what we are today. We had various department activities, we used to have symposium, guest lectures, conference, inter and intra college activities in every year which had helped us a lot in finding us and shaped us. Undoubtedly the department, backed by our HOD kept encouraging me to come out with flying colours not just in academics but also co-curricular activities. 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 above all. I am so glad and proud to be an alumni of this great institute.

# DEPARTMENT MEET

## MINUTES OF 1st QUARTERLY IQAC MEETING

MEETING DATE: 11.09.2023

TIME: 12.30 P.M

VENUE: Sun Java Lab

### AGENDA FOR FIRST QUARTERLY MEETING 2023-2024

#### 1. Improving Research Output

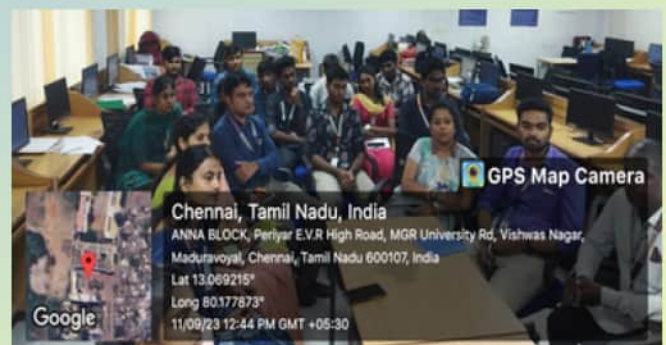
- Research Funding
- Strengthening Publications (Data already collected)
- Increasing the number of PhDs
- Student Patents
- Entrepreneurial activities & start ups initiated by students

#### 2. Enhancing Industry Collaboration

- Observership (for Medical students)
- Internship opportunities availed by students
- Number of industry professors inducted in the Department
- Suggestions for developing an Internship Policy for the University

#### 3. Curriculum Revamping

- Multidisciplinary Electives introduced in the Department
- Interdisciplinary courses
- Value addition courses introduced in the Department (Data already collected)
- Integrating cross cutting issues in the Curriculum





# Faculty Achievements

- Title : Six Days Physical Mode Faculty Development Programme on AD3501 - Deep Learning  
Dates: 21-26 August 2023  
Speaker : Dr.Dahlia Sam  
Organizing Institute :Panimalar College of Engineering
- Title :How to Select a Right Journal for Publication  
Dates:5 September,2023  
Speaker :Dr.Kiruthiga Devi .M  
Organizing Institute :Dr M.G.R Educational and Research Institute
- Title :TECHASTRA  
Dates :4th September 2023  
Judge: Dr.Dahlia Sam  
Organizing Institute :Dr M.G.R Educational and Research Institute
- Title :KALAM'23  
Dates :11th and 12th September 2023  
Judge:Dr.Kanya  
Organizing Institute :Dr M.G.R Educational and Research Institute
- Title :Web Design  
Dates :19,20 September,2023  
Speaker :Dr.Dahlia Sam  
Organizing Institute :Dr M.G.R Educational and Research Institute
- Title :SDG ETHIOS  
Dates :22 September,2023  
Speaker :Mrs. C. Tamilselvi  
Organizing Institute :Dr M.G.R Educational and Research Institute
- Title :Artificial Intelligence & Machine Learning for present & Future  
Dates :29 September,2023  
Speaker :Dr.Kiruthiga Devi .M  
Organizing Institute :ANNAL VOILET Arts and Science college



# PLACEMENTS



**MS.SURBHI KUMARI**  
REG NO: 20112111076



**MS.HEMAMALINI.K**  
REG NO: 201121101028



**MS.ESURU POOJA**  
REG NO: 201121101022



**MS.V.KAVIYA**  
REG NO:201121101037

**Got selected in  
“Face Prep”**

*Position : Associate Trainer  
Salary: 3LPA*



**MR.JAYARAMAN.N**  
REG NO: 171121101009



**MR.RUPAK RAJHA**  
REG.NO: 201121101018



**Mr.RAMASAMY V**  
REG NO: 201121101060

**Got Selected in  
“Paytm”**  
*Position: Sales Executive*

**Got Selected in  
“Digital EPS Pvt Ltd”**  
*Role: Web Development  
Duration: 1 month*

**Got Selected in  
“Sutherland”**  
*Position: Customer Support  
Associate*

# STUDENT ACHEIVEMENTS



**S.Sathish Kumar**  
III Year

**“WON”** District Gold Medalist  
in Skating 2023



**Subash.N**  
II Year

**“WON”** the 2nd price on  
twotoe walk



**Susithra Devi S B**  
II Year

**“WON”** the 2nd price on  
SDG Scope

## STUDENT CORNER

### ARTIFICIAL INTELLIGENCE:

In the ever-evolving landscape of technology, artificial intelligence (AI) has emerged as both a disruptor and an enabler, significantly influencing the realm of IT jobs. AI, with its ability to process vast amounts of data and perform complex tasks, has become a driving force in automating routine functions. This technological marvel is redefining the traditional roles in IT, prompting a shift in the skill sets demanded by the industry.

#### Advantages :

- **Increased Efficiency:** AI excels at repetitive and data-intensive tasks, allowing IT professionals to focus on more strategic and creative aspects of their work. This surge in efficiency can lead to improved productivity and innovative problem-solving.
- **Advanced Analytics:** With AI's prowess in data analysis, IT teams can derive meaningful insights from massive datasets, helping organizations make informed decisions. This data-driven approach not only enhances performance but also opens doors to new opportunities and strategies.
- **Innovative Solutions:** AI's problem-solving capabilities extend beyond human limitations. It can identify patterns, predict trends, and offer innovative solutions, enabling IT professionals to tackle complex challenges with a fresh perspective.

#### Disadvantages:

- **Job Displacement Concerns:** The integration of AI raises concerns about job displacement as certain routine tasks become automated. While AI can handle repetitive duties efficiently, the human touch is irreplaceable, particularly in areas requiring creativity, emotional intelligence, and critical thinking.
- **Skill Set Evolution:** The rapid advancement of AI technology demands that IT professionals continually update their skill sets. Adaptability and a commitment to lifelong learning become essential as the industry transforms, creating a demand for individuals capable of working alongside AI systems.
- **Ethical Dilemmas:** As AI becomes more prevalent, ethical considerations surrounding privacy, bias, and transparency become paramount. IT professionals need to grapple with these dilemmas, ensuring that AI systems are developed and deployed responsibly.

**By : Pranava Kumar.I**  
**B.Tech IT- II Year**

# EVENTS CORNER

**Event Name: Subject Lecture on "Cybersecurity"**

Date : Anna Seminar Hall - Maduravoyal Campus

Venue: 03.07.2023

Speaker: Mr. T. Vijayarasu , Assistant Professor, Dept of Information Technology, Dr.M.G.R Educational and Research Institute, Chennai.

**Event Name: Professional Society Event on "YUVA- First Aid Awareness"**

Date : 21.07.2023

Venue: University Auditorium

Speaker: "Dr Rajsri MBBS, MD (Community Medicine), DHFWM. Assistant Professor, Department of Community Medicine, Sri Lalithambigai Medical College ,Dr. M. Srimadhi MBBS, MD (Community Medicine), Assistant Professor, Department of Community Medicine, Sri Lalithambigai Medical College"

**Event Name: Seminar on "Aspiring career towards data scientist"**

Date : 01.08.2023

Venue: University Auditorium

Speaker: "Mr. Subramani Arumugam ,Data scientist, Latentview Analytics"

**Event Name: Subject Lecture on "Introduction to JAVA"**

Date : 28.07.2023

Venue: Anna Seminar Hall - Maduravoyal Campus

Speaker: "Mr. A. P. Babu, Assistant Professor, Dept of Information Technology, Dr.M.G.R Educational and Research Institute, Chennai."

**Event Name: ISR event on " Breast Feeding Awareness Program- Enabling Breastfeeding, Making a Difference for Working Parents"**

Date : 01.08.2023

Venue: Youtube

Speaker: "Dr.Ramya. V, Consultant Pediatrician, Sri Lalithambigai Medical College and Hospital, Chennai."

**Event Name: Workshop on "Jamovi"**

Date : 26.07.2023 to 28.07.2023

Venue: Sun Java Academy

Speaker: "Mr. A. Kameshwaran, Assistant Professor, Dept of Information Technology, Dr.M.G.R Educational and Research Institute, Chennai"

**Event Name: Technical Cultural**

Date : 04.08.2023

Venue: University Auditorium

Event Coordinator: Mrs. V. Jeya Geetha

**Event Name: Seminar on "Higher Education and Career Prospects Abroad"**

Date : 03.08.2023

Venue: Sun Java Academy

Speaker: "Ms.Manjari Raja, Business Head - Chennai, Kanan Prep - Online Study Solutions. "




**Event Name: Seminar on "Overseas Higher Education Opportunities"**

Date : 07.08.2023

Venue: Anna Seminar Hall

Speaker: "Ms.Ranjitha Shetty,Senior Manager -United Kingdom & Ireland,IDP Education Pvt."

**Event Name: "Technical Talk on "Emerging Trends of Cloud Computing & Industry Adaptation"**

Date : 09.08.2023

Venue: Mechanical smart class room

Speaker: "Mr. Abdul Majeed Khan Y,Level 13 Architect,RHCI,Chennai."

**Event Name: Seminar on "Applications of Visualization Techniques"**

Date : 16.08.2023

Venue: University Auditorium

Speaker: "Dr.Prabakaran,Associate Consultant,Technical Lead,IT Technical Manager (CITRIX VAD) HCL Technologies, Chennai."

**Event Name: "National level Technical symposium "SPARKLE'23"**

Date : 31.08.2023 to 01.09.2023

Venue: University Auditorium

Speaker: "Dr. Iniya Nehru,Deputy Director General, National Informatics centre, Dr.R.Gokulakrishnan,Additional Director STPI Chennai Ministry of Electronics and IT, Government of India,Mrs. Uma Lekshmanan , Associate Director, Kyndryl Solutions PVT LTD. Chennai and Mrs. Swathy Maruthi Alumini Batch: 2007-2011, Service Delivery Manager , Accenture, Chennai."

**Event Name: Subject Lecture on "Object oriented programming in C++"**

Date : 09.09.2023

Venue: University Auditorium

Speaker: "Mrs. C. Sharmila,Assistant Professor,Dept of Information Technology, Dr.M.G.R Educational and Research Institute,Chennai."

**Event Name: Certificate Training Program**

Date : 11.09.2023 to 22.09.2023

Venue: Sun Java Academy

Speaker: "Mr. S. Bezaleel,Managing Director/Founder,Enlight Wisdom,Chennai."

**Event Name: "Guest Lecture on "Digital Marketing"**

Date : 19.09.2023

Venue: UNIVERSITY AUDITORIUM

Speaker: "Mr. Meyyappan Meenakshisundaram,Senior consultant, SSI computer education Training Management Professional & Co-Founder Scapable (Learning Solutions), Chennai "





# GLIMPSE OF SPARKLE'23





# STAR OF Q3

## FACULTY STAR



**Mr..N.Jeysankar**  
**[ASSISTANT PROFESSOR]**

## STUDENT STARS



**Infanta Jose Mary.P**  
**[B.TECH IT-IV YEAR]**



**Dinesh Arokia Raj.A**  
**[B.TECH IT-IV YEAR]**



IT-Q3-30/09/2023

JUL-SEP 2023

# EDITORIAL BOARD



## STAFF COORDINATORS

Dr.Dahlia Sam  
[Professor]

Mr.A.Kameshwaran  
[Assistant Professor]

## STUDENT COORDINATORS

Dharania.T  
B.Tech IT- II Year

Pranava Kumar.I  
B.Tech IT- II Year



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**DEPARTMENT OF INFORMATION TECHNOLOGY**

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