**Dr. M.G.R.**

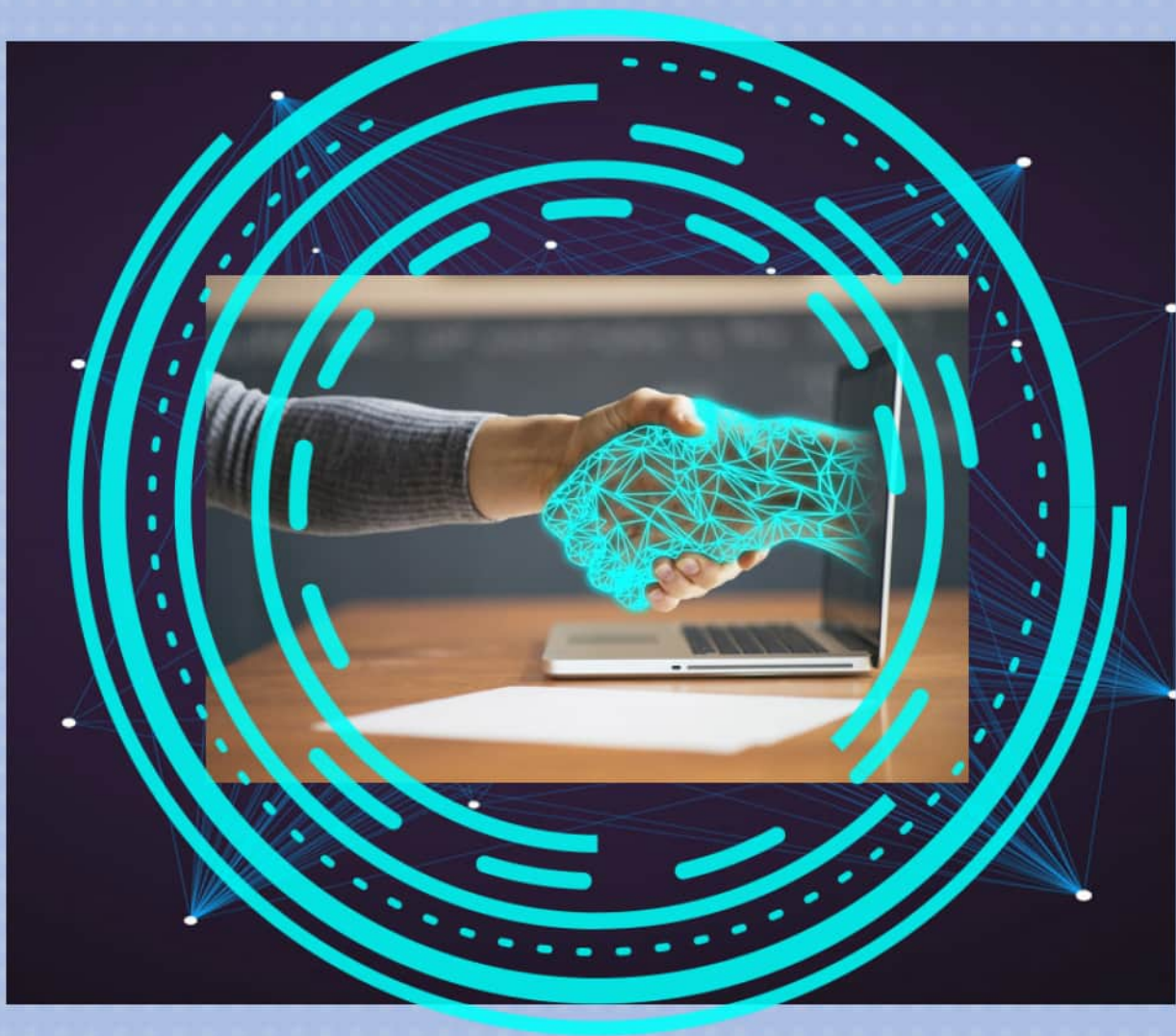**EDUCATIONAL AND RESEARCH INSTITUTE**

**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.

A NAAC

ACCREDITED WITH GRADE

# 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 faculties of department are always proactive in 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**

# RESEARCH AND INNOVATIONS

## PUBLICATIONS

Dahlia Sam., Oviya, S. & Santhosh, M. (2021). A Django Based Educational and Organizational Resource Sharing Website. Proceedings of the National Conference NCICT2021 at Dr. MGR Educational and Research Institute University, Chennai, 29th April.

Dahlia Sam., Darshan, D., Akshay Sriya, S. & Pradeep, R. (2021). ROCKETHUB (3D GAME). Proceedings of the National Conference NCICT2021 at Dr. MGR Educational and Research Institute University, Chennai, 29th April.

Kameshwaran, A., Priyadharshini, A., Pavithra, S. & R Saritha. (2021). An Efficient Web Based Student Feedback System For Student Welfare. Proceedings of the National Conference NCICT2021 at Dr. MGR Educational and Research Institute University, Chennai, 29th April.

Shobana, S., Sanjana Pandey, B., Padmashri, R. & Triveni, U. (2021). IOT Based Smart Irrigation System using Soil Moisture sensor and ESP8266 Nodemcu. Proceedings of the National Conference NCICT2021 at Dr. MGR Educational and Research Institute University, Chennai, 29th April.

Tejasri, M.V.S.L., Rithun Raj, R.P., Aravind, A. & Ram Prasath, K. (2021). Improvised key management mechanism for high level security. Proceedings of the National Conference NCICT2021 at Dr. MGR Educational and Research Institute University, Chennai, 29th April.

Rashika, R.S., Madhumita, S., Sujitha, R. & Maheesha, S. (2021). E Pass system with GPS tracking for Dr.M.G.R Educational and Research Institute. Proceedings of the National Conference NCICT2021 at Dr. MGR Educational and Research Institute University, Chennai, 29th April.

Nithya, K., Roslin Dayana, K., Mohamed Yacin Sikkandar., Karthikeyan, B. & Nandagopal, C. (2021). Covid-19 Classification Using Feature Based Deep Learning Approach. Turkish Journal of Physiotherapy and Rehabilitation, 32(3), p. 1973.

Shobana, S., Sanjana Pandey, B., Padmashri, R. & Triveni, U. (2021). IOT Based Smart Irrigation System Using Soil Moisture Sensor and ESP8266NODEMCU. International Journal of Computer Science and Information Technology Research, 9(2),p. 52.

Tejasri, M.V.S.L., Prem Priya, P., Durgadevi, P. & Sherine Glory, J. (2021). Integrated Web Based Loan Management System Using Machine Learning Model. Turkish Journal of Physiotherapy and Rehabilitation, 32(3), p. 3420.

Rashika, R.S., Madhumitha, S., Sujitha, R. & Maheesha, S. (2021). E Bus Pass System with GPS Tracking for DR.MGR Educational and Research Institute. International Journal of Engineering Research and Reviews, 9(2), p. 1.

Dahlia Sam., Suresh, K.C., Kanya, N., Tamilselvi, C. & Tejasri, M.V.S.L. (2021). An Improved Bank Customer Churn and Loan Prediction Model Using Supervised Machine Learning Approach. Turkish Journal of Physiotherapy and Rehabilitation, 32(3), p. 698.

Tamilselvi, C., Asrid Vijay., Edwin George Cherian. & Amresh, T. (2021). COVID 19 Monitoring System. The International Journal of Analytical and Experimental Modal Analysis, XIII(IV), p. 1291

## STUDENT CORNER

## BUSINESS COMPUTER NETWORKS

Small office and Home office [SOHO] environment use technology that is similar to home networks.Buisness often have additional communication, data storage and Security requirements that require expanding networks in different ways, particulaly as the buisness gets larger.whereas the home network generally funtion as one LAN,a buisness network tendsto contain multiple LAN's.Companies with buildings in multiple locations use Wide-area network to connect these branch offices together.

**Akash.S, 3rd Year**

## RANSOMEWARE ATTACK

Ransomware is one of the deadliest malware programs that, after infiltrating the system, lock the files with strong encryption. After encrypting the files, the cybercriminal(s) behind the attack would ask the victim for the ransom in return for an encrypting tool or key. Without the decrypting key or tool, it is almost impossible to unlock the files from strong encryption.
The Ransomware attack is usually conducted on an organization rather than an individual for getting a significant monetary gain.
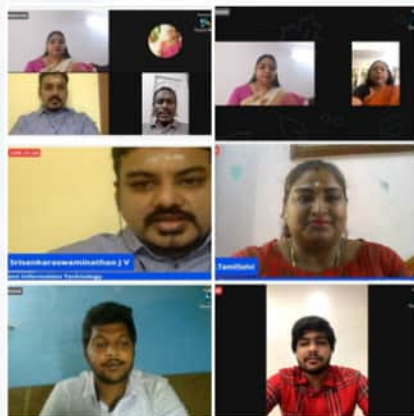
**RAUSHAN,2ND YEAR**

# EVENTS CORNER

## SPARKLE'21

Faculty of Engineering and Technology, Department of Information Technology of Dr. M.G.R. Educational and Research Institute, organized the Virtual National Level Symposium **"SPARKLE'21"** on to 03.07.2021.

The **Inauguration** of the event started at 10.00 am with the Welcome Address by **Dr. N. Kanya** followed by a short video on the symposium was played. Mr. Junaid. M.M, B.Tech III Yr briefed about the symposium. **Vice Chancellor Prof.Dr. S. Geetha Lakshmi** gave the introductory address and followed by the felicitation address delivered by our **Joint Registrar Dr. V. Cyril Raj**. The **Chief guest Mr. Srisankaraswaminathan. J. V**, was introduced by Mr. ShaikNayabRasool, B.Tech IT III Yr. Mr. Srisankaraswaminathan J. V gave the Inaugural Address, **Mrs. C.Tamilselvi, Assistant Professor** delivered the formal Vote of thanks. The event was streamed live in **YouTube**.
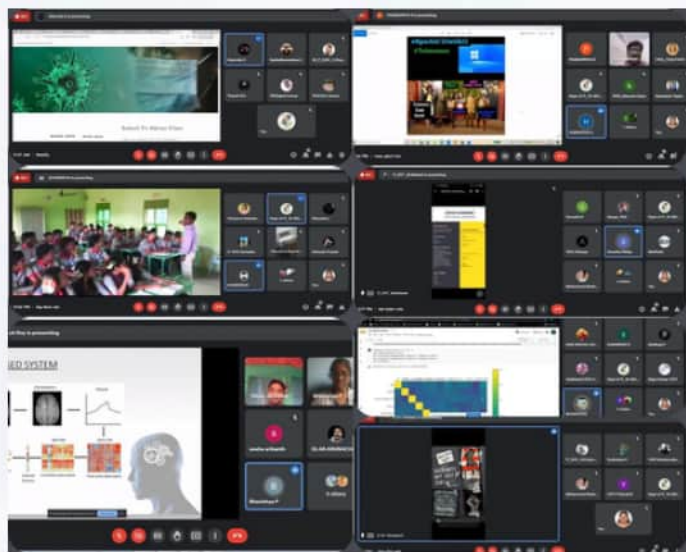
In this symposium we have planned for 3 technical events and 4 non-technical events.

The **Technical events** we have:
1.**Webify** coordinated by Mrs. C. Tamilselvi,Assistant Professor, Dept of ITand student coordinator DivyashreeB.Tech III yr and TharaniB.Tech II yr. The event was judged by Dr.Radharammohan, Professor, Dept of CA
2.**Knowledge Check** coordinated by Dr. T. NaliniProfessor, Dept of IT and student coordinator Junaid.B.Tech III yrand KaviyaDharshini,B.Tech II yr. The event was judged by Dr.AR.ARUNACHALAM, Professor, Deputy Dean.
3.**Present-a-thon** coordinated by Dr. Dahlia SamProfessor, Dept of IT and student coordinator Zaid Rasool khan B.Tech III yrand Rajan KumarB.Tech II yr. The event was judged by Dr. M.S. Josphine, Professor, Dept of CA

The **Non-technical events** we have:
1.**Placard** coordinated by Mrs. ShobanaAssistant Professor, Dept of IT and Mrs. Tejasri,byAssistant Professor, Dept of IT student coordinatorSubinderanB.Tech III yr and VaishaliB.Tech II yr. The event was judged byDr.Sudhaman, Professor, Dept of ECE
2.**Meme World** Coordinated by Mr. A. KameshwaranAssistant Professor, Dept of IT and student coordinator BharathkishanB.Tech III yr and NasreenbanuB.Tech II yr.The event was judged by Dr. V. N. Rajavarman, Addln. Dean
3.**Film Let** coordinated by Ms. R. S Rashika Assistant Professor, Dept of IT and student coordinator KanishkaB.Tech III yrand PavithraB.TechII yr. The event was judged by Dr.Jeevalatha, HOD- Viscom
4.**Creative Resume** coordinated by Mrs. K. Nithya and student coordinatorMokeshB.Tech III yrand DeepalakshmiB.TechII yr.The event was judged by Dr.Gomathi, Professor, Dept of IBT

The **Valedictory** of the event started at 3.30 PM with the Welcome Address by Dr. N. Kanya HOD- IT followed by a short video on the symposium was played. Ms.Charumathi,B.Tech II Yr briefed the symposium report.Dr. V. N. Rajavarman, Addln. Dean gave the felicitation address. The **Chief guest:Mr. AadityaGanapathy**,was introduced by Ms. DivyashreeB.Tech III yr.**Mr. AadityaGanapathy:Alumni of 2011-2015 batch**. He gave a valedictory address.The event came to the end with the formal vote of thanks given by **Mrs. S. Shobana, Assistant Professor**, Dept of IT

**Event Title :AICTE SPONSERED STTP ON "Applied Soft Computing and Vision Machine Techniques"**

Date 26/04/2021 to 01/05/2021 Time 10.00 AM to 4.00 PM
Chief Guest /Speaker Details :Dr.T.Thyagarajan, Professor& Dean, Department of Instrumentation Engineering, MIT, Anna University Dr. Nilanjan Dey, Associate

**Event Title: NATIONAL CONFERENCE**

Date 29/04/2021 Time 10.00 AM to 3.00 PM
Session 1: SESSION CHAIR: DR.T.V.ANANTHAN, PROFESSOR, CSE DR. JOSEPHINE - PROFESSOR- MCA/ DR. MGR. ERI
Session 2: SESSION CHAIR: DR. V.N. RAJAVARMAN, ADDL. DEAN- CSE/IT , DR. MGR. ERI & DR.T.NALINI, PROFESSOR - CSE,
 Session 3: SESSION CHAIR:DR. PS. RAJAKUMAR - PROFESSOR- CSE/ DR. MGR. ERI & DR.DAHLIA, PROFESSOR – IT
Session 4: SESSION CHAIR: Dr.RAMESH BABU , PROFESSOR - CSE/ DR. MGR ERI & DR. M.ANAND - PROFESSOR- ECE

**Event Title INTERNATIONAL WEBINAR ON "Covid-19, An Opportunity not a threat"**

 Date 09/06/2021 Time 3.30 PM to 5.00 PM

Chief Guest /Speaker Details: Emmanuel Oppong Afriyie, Assistant Lecturer, Valley View University, oyibi, Ghana

 **Event Title ALUMNI SERIES - II on " Business intelligence and management"**

Date 10/06/2021 Time 10.30 AM to 12.00 PM

Chief Guest /Speaker Details Ms. Lakshmi Senthil Velan, Consultant, Virtusa Consulting Services Pvt ltd

**Event Title Guest Lecture On " Data Storage Management"**

 Date 11/06/2021 Time 11.00AM to 12.00 PM
 Chief Guest /Speaker Details Mrs.C.TAMILSELVI, ASSISTANT PROFESSOR, Dr. MGR EDUCATIONAL AND RESEARCH INSTITUTE

**Event Title ALUMNI SERIES - III on " Oracle Cloud, Autonomous DB and Journey to Rapid Application Development"**

Date 14/06/2021 Time 2.00 PM to 3.30 PM
Chief Guest /Speaker Details Mr.RAMAN SINGH, Sales Engineer Manager, Turn –key Systems pvt Ltd, Melbourne, Australia

**Event Title webinar on " DATA ANALYTICS AND VISUALIZATION OF THE BIG VIRUS COVID-19 DATASET"**

Date 15/06/2021 Time 10.00 am to 12.30pm
 Chief Guest /Speaker Details Mr. Vikram Vikash, Team Lead, Cognizant Technology Solutions,
 Pune Mr. Kumara Sundaram, Data Scientist and Corporate Trainer,

**Event Title ISR EVENT ON "Importance of Yoga in Pandemic Situation and yoga for Modern Life"**

 Date 21/06/2021 Time 10.30 am to 12.00 pm
 Chief Guest /Speaker Details Mr Don paul, Trainer, Atman kalari yoga centre, Ernakulam, Kerala Dr.
 T. Nalini, Professor, MGR Educational and Research Institute

# DEPARTMENT MEET

## SRIDHAR VEMBU JOURNAL CLUB
## MINUTES OF MEETING

The Department of Information Technology conducted the Sridhar Vembu Journal Club meeting on 16.06.21 at 11.00 a.m. through Google Meet.
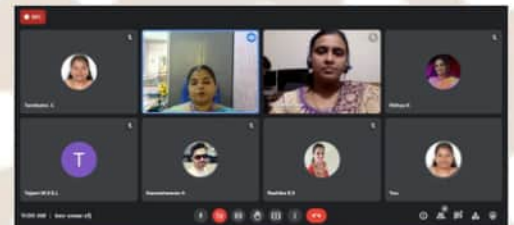
Inauguration of Sridhar Vembu Journal Club by

Dr. V.N. Rajavarman.Presentation of Featured Article "COVID-19 Classification Using Feature Based Deep Learning Approach" by Mrs. K. Nithya .Discussion by Special Invitee Prof. Dr. N. Ethiraj, Addl. HOD, Department of Mechanical Engineering on "Challenges in Journal Publication:Current Scenario" .Open Forum Discussion to Clarify the Member Queries 5. Publication Target & Research Publication Progress Review

## MINUTES OF 4TH QUARTERLY IQAC MEETING

The Department of Information Technology conducted the Sridhar Vembu Journal Club meeting on 16.06.21 at 10.30 a.m. through Google Meet.

 1. Augmentation of the quality of teaching and Faculty members in the last five years.

2. Initiatives taken and/or planned for inculcating ethical behavior and moral values, Gender and social equity in students and Faculty members.

# ALUMINI CORNER

My 4 years Engineering at MGR University was indeed a memorable one. I came to this University with a dream of becoming an IT professional.

Every semester has been a step towards achieving my dream. Not only in the academic side, but our University gave various opportunities to fine tune my skills.

This included organizing various events within the campus or representing our University at inter college competitions.

HOD and all the department faculty were always friendly and encouraging. MGR University has played a major role in shaping me into who I am today.

I am so glad and proud to be an alumni of this great institute.

**Maimoona Begum**
**Technical Test Lead,Infosys**
**Batch;2004-2008**

# STAR OF Q2

## FACULTY STAR



### C. TAMLSELVI

## STUDENT STARS



**ZAID RASOOL KHAN**
B.tech IT, 3rd year

**S,DIVYA SHREE**
B.tech IT, 3rd year

### Active Participation in all department activities