Dr. M.G.R.
EDUCATIONAL AND RESEARCH INSTITUTE
DEEMED TO BE UNIVERSITY
University with Graded Autonomy Status
(An ISO 21001 : 2018 Certified Institution)
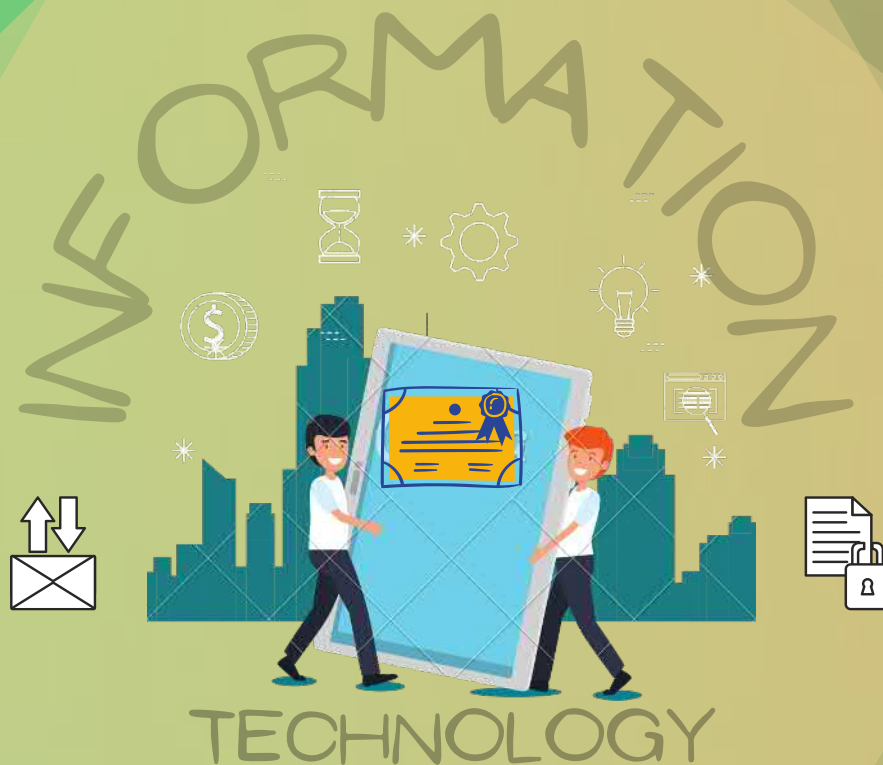Periyar E.V.R. High Road, Maduravoyal, Chennai-95, Tamilnadu, India.

A NAAC

FACULTY OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF
INFORMATION TECHNOLOGY

TECH VOICE

VISSION

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 OUTCOMES[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

RESEARCH AND INNOVATIONS
PUBLICATIONS

- Kanya, N., Hari Krishnan, M., Jayaraman, N. & Mahendran, P. (2021). High-speed download cost-effective version control compression on cloud. International Journal of Advance Research, Ideas and Innovations in Technology, 7(3), p. 2074.

- Nithya, K., Madhavan, K., Bharath, T. & Monesh, R. (2021). A Digital DNA Sequencing Engine for Ransomware Detection Using Machine Learning. International Research Journal of Modernization in Engineering, Technology and Science, 3(6), p. 2984.

- Kanya, N., Shobha Rani, P., Geetha, S., Rajkumar, M. & Sandhiya, G. (2021). An Efficient Damage Relief System based on Image Processing and Deep Learning Techniques. Revista Geintec-Gestao Inovacao e Tecnologias, 11(2), p. 2124.

- Kanya, N., M. Rajkumar, M., Rajkumar, P.S., Pacha Shobha Rani. &Sandhiya, G. (2021). Efficient Supervising System for Aquatic Region Using Wireless Radar. Revista Geintec-Gestao Inovacao e Tecnologias, 11(2), p. 2113.

- Kanya, N., Kannagi., Inbamalar, T.M. & Latha, P. (2021). Backlobe Radiations Reduction with Patch Antenna Using Multilayered Dielectric Structure. Revista Geintec-Gestao Inovacao e Tecnologias, 11(2), p. 861.

- ·Dahlia Sam. (2021). Urban Waste Management Using IoT. 2nd International Conference on Waste, Energy and Environment ICWEE-2021 at Sathyabama Institute of Science and Technology, Chennai, 23rd & 24th September.

MOU SIGNED

"MOU with CURIOUS INFOTECH SOLUTIONS LLP"
24-09-2021

DEPT OF CSE and DEPT OF IT Jointly signed an MOU with CURIOUS INFOTECH SOLUTIONS LLP on today 24-9-2021 in the presence of our Honourable President Er.ACS ARUNKUMAR sir. We thank all the Executives and the Office of International relations who support us to execute this MOU. Our special thanks to Dr.Nalini,Prof-CSE , who initiated this MOU . Through this MOU lot of Skill oriented activities will be conducted for our students.

AWARDS AND ACHIVEMENTS
PLACEMENTS

2022 Passing Out

Got Selected in "COGNIZANT"
Position : GenC
Salary: 4.0 LPA

&

"CSS CORP Pvt Ltd"
Position : Graduate in full stack
Development&Networking
Salary: 3.75 LPA

MS.S.KANISHKA
B.TECH(IT)

Got Selected
"SRM TECHNOLOGIES PVT LTD"
Position: Trainee
Salary: 3.5 LPA

&

"WIPRO LIMITED"
Position : Project Engineer
Salary: 3.5 LPA

Ms.M.Charumathi
B.Tech(IT)

STUDENTS CORNER

PENETRATION TESTING

A penetration test, also known as a pen test, is a simulated cyber attack against your computer system to check for exploitable vulnerabilities. In the context of web application security, penetration testing is commonly used to augment a web application firewall (WAF). Pen testing can involve the attempted breaching of any number of application systems, (e.g., application protocol interfaces (APIs), frontend/ backend servers) to uncover vulnerabilities, such as unsanitised inputs that are susceptible to code injection attacks. Insights provided by the penetration test can be used to fine-tune your WAF security policies and patch detected vulnerabilities.

RAJEEV KUMAR 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.

SURAJ KUMAR 3rd Year

EVENTS CORNER

EVENT TITLE: GUEST LECTURE ON "MACHINE LEARNING AND ITS APPLICATIONS"
DATE: 26/08/2021 , TIME: 2.00 PM to 3.00PM
CHIEF GUEST: Mrs.K.Nithya, Assistant Professor, Department of IT from Dr.M.G.R Educational And Research Institute. Mam covered the need for Machine Learning in todat's world.On a whole guest lecture gave a great insight to the students on Machine learning and motivated them to carry out many projects in AI and ML.

EVENT TITLE: INSTITUTIONAL SOCIAL RESPONSIBILITY EVENT ON "TRAINING NON-TEACHING STAFF MEMBERS- HOW TO ASSIST IN ONLINE CLASSES"
DATE: 03/09/2021 , TIME: 11.00 AM to 1.00PM
CHIEF GUEST: Dr.Dahlia Sam, Professor, and Mr.A.Kameshwaren, Assistant Professor Department of IT from Dr.M.G.R Educational And Research Institute. Mam explained in detail abut using Google forms to collect feedback and conduct quizzes, also mam gave a brief demo on conducting quiz using nearpod. Sir gave an elaborate session on using Google Classroom, Google meet and scheduling using Google Calender.

EVENT TITLE: GUEST LECTURE ON "DATA STRUCTURE IN REAL LIFE"
DATE: 08/09/2021 , TIME: 2.00 PM to 3.30PM
CHIEF GUEST: Mrs. S.Shobana, Assistant Professor, Department of IT from Dr.M.G.R Educational And Research Institute. Mam gave a very good insight about the role of Data Structure in Real Life with a lot of real time examples.

EVENT TITLE: TECHNOLOGY TALK ON CONVOLUTIONAL NEURAL NETWORK
DATE: 13/09/2021 , TIME: 11.00 AM to 1.00PM
CHIEF GUEST: Mr.R.Hariharan Assistant professor, Department of IT from Vel-Tech University. Sir Explained the Architecture of CNN with examples, also sir explained about Deep Learning in detail with examples. The Demonstration gave Practical knowledge about CNN to the Participants.

EVENT TITLE: GUEST LECTURE ON "APPLICATIONS OF IOT"
DATE: 22/09/2021 , TIME: 2.00 PM
CHIEF GUEST: Mr.A.Kameshwaren, Assistant Professor, Department of IT from Dr.M.G.R Educational And Research Institute. Sir explained all the details about Applications of IoT in today's world which gave a great insight to the students on "Applications of IoT" with suitable examples.

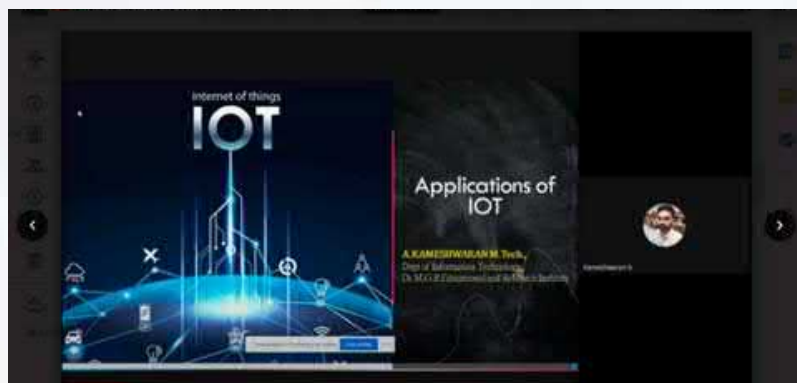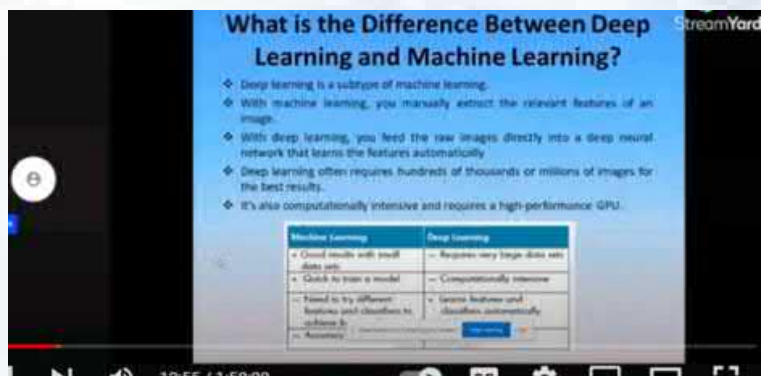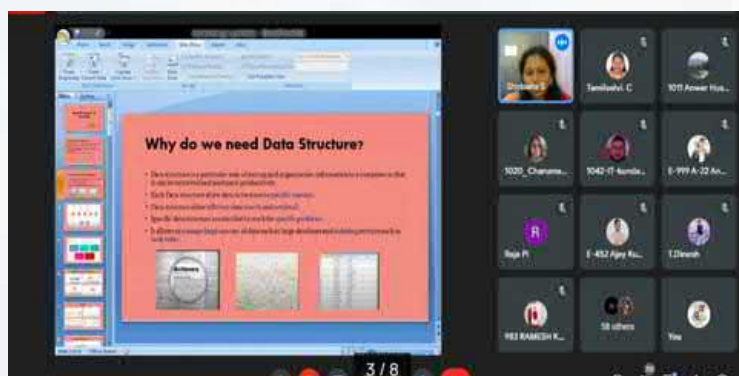EVENT TITLE: WEBINAR ON "REVERSING DIABETES-THE AYURVEDIC WAY"
DATE: 25/09/2021 , TIME: 3.00 PM to 4.00PM
CHIEF GUEST: Dr.R.Sivakumar, Medical Director, Chennai Heritage Hospital. Sir explained how diabetes can be reversed by Ayurvedic treatment. He also elaborated about how Ayurvedha focuses on boosting immunity and maintaining good health and not about fighting the disease.

EVENT TITLE: WEBINAR ON "DESIGN THINKING: 5 STEP DESIGN PROCESS"
DATE: 30/09/2021 , TIME: 10.00 AM to 11.30PM
CHIEF GUEST: Dr.S.Poonkuntran Regional CSI Students Coordinator Professor & Dean (SCSE), VIT Bhopal University, sir explained about all the CSI Activities to the Students. Prof.N.Prasanna Balaji Educator, Global Techno Managers, sir elaborately explained how Design Thinking takes place in real time processes. He also explained the types of design process in detail.

DEPARTMENT MEET

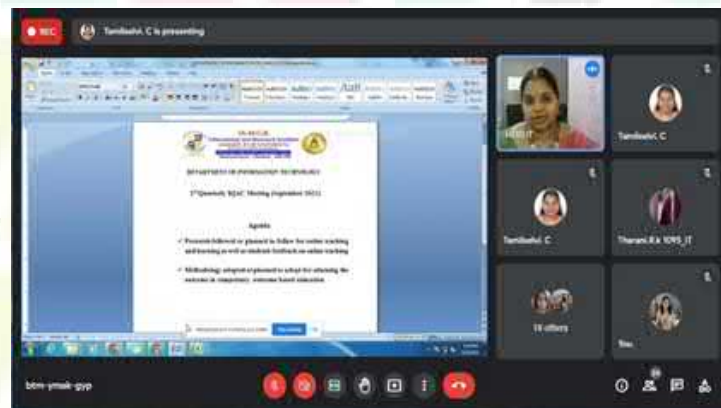## MINUTES OF 1st QUARTERLY IQAC MEETING

Academic Year: 2021 – 2022
ODD - SEM (JUL 2021–DEC 2022)
MEETING DATE: 15.09.2021, TIME: 3.00 P.M
AGENDA :
Protocols followed or planned to follow for online teaching and learning as well as students feedback on online teaching
Methodology adopted or planned to adopt for attaining the outcome in competency /outcome based education

DEPARTMENT JOURNAL CLUB MEETING MINUTES

JOURNAL CLUB NAME: SRIDHAR VEMBU JOURNAL CLUB
MEETING DATE 17.08.2021
AGENDA:
1. Presentation of Featured Article "A Graph Based Data Integration and Aggregation Techniques for Big Data" by Dr. T. Nalini
2. Discussion by Special Invitee Prof. Dr. R.M.Narayanan, Dean, Sponsored Research & Professor, Department of Civil Engineering on "How to Choose a Journal for Publishing & Write Paper"
3. Open Forum Discussion to Clarify the Member Queries
4. Publication Target & Research Publication Progress Review

ALUMINI CORNER

MGR EDUCATIONAL RESEARCH INSTITUTE UNIVERSITY GIVES US MORE EXPOSURE AND ALSO MAKES US MORE CONFIDENT. OUR TEACHERS ACT MORE LIKE FRIENDS IN COLLEGE.INSTEAD OF JUST FOCUSSING ONLY ON STUDIES,ALL STUDENTS WILL BE ABLE TO GET TO PARTICIPATE IN OTHER ACTIVITIES AND SOCIALIZE AS MUCH AS POSSIBLE IN HIS/HER COLLEGE LIFE AS ALL THESE THINGS HELP IN THE OVERALL DEVELOPMENT OF A PERSON.

Teena
Walmart-Catalogue Analyst in Chennai
Batch-2018

STAR OF Q3

FACULTY STAR

Mr.A.Kameshwaran

STUDENT STAR

Ms.Charumathi M
B.Tech IT 4th Year

Ms.Kanishka S
B.Tech IT 4th Year

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