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

RESEARCH AND INNOVATION

PUBLICATIONS

- Dahlia Sam., Vishal, M.A., Arunkumar, S., Charumathi, M. & Mithilesh, K.N. (2022). Deep Learning Based Object Detection Improvement for Leaf Disease Prediction using Android Application. International Virtual Conference on Machine Learning Applications in Applied Sciences and Mathematics at Chennai, Tamilnadu, 30th & 31st March.

- Hariharan, R., Dhilsath Fathima, M., Kameshwaran, A., Bersika, A., Sweety, M.C.,Vaidehi Rahangdale. & Bala Chandra Sekhar Reddy Bhavanam. (2022). Abstractive summarization is improved by learning via semantic similarity. International Conference on Data Science and Applications at Kolkata, 26th & 27 March.

- Nithya, K. & Surya, U. (2022). Tracking and Monitoring of Soldiers using IoT and GPS. 2nd International Conference on Pervasive Computing and Social Networking, at Salem, Tamilnadu, 3rd & 4th March.

- Tamilselvi, C. (2022). Smart Greenhouse Farming using IOT. International Conference on Advances in Parallel Computing Technologies and Applications at Bangalore, Karnataka, 27th & 28th January.

- Dahlia Sam. (2022). A Patient-Centered Secured Approach to E-Health. 12th International Conference of Computer Communication and Informatics 2022 at Coimbatore, Tamilnadu, 25-27 January. DOI: 10.1109/ICCCI54379.2022.9740750

- Kameshwaran, A., Kanishka, S., Nithyashree, R. & Jai Ganesh, D. (2022). Parking System using IoT. International Journal of Creative Research Thoughts, 10(3), p. 538-543.

AWARDS AND ACHIVEMENTS
PLACEMENTS

2020 PASSED OUT
Ms.Ragavi S
Department of IT
Got selected in 'Indium Software Ltd'
Position: Associate Software Engineer
Salary : 3.0 LPA

2021 PASSED OUT
Mr. Pradeep R
Department of IT
Got selected in 'HCL Technologies Ltd'
Position: Software Engineer
Salary: 3.65 LPA

2022 PASSING OUT

Ms.S.Divya shree
Department of IT
Got selected in 'Doodleblue innovations Pvt.Ltd'
Position: QA-Trainee
Salary: 3 LPA

Mr.Sathish kumar
Department of IT
Got selected in 'TATA ELXSI'
Position: Traniee
Salary: 3.5 LPA

Mr.S.R.Subendhiran
Department of IT
Got selected in 'ITECH INDIA PVT.LTD.'
Position: Dot Net Traniee
Salary: 2.8 LPA

Jai Ganesh , Kanishka and Charumathi
Department of IT got offer letter from Tier 1 companies

2023 PASSING OUT

Ms.T.Charumathi
Department of IT
Got selected in 'HYPSTUMA' for internship
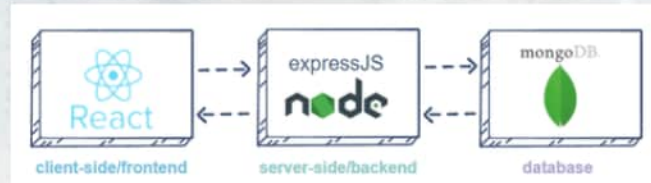Position: Website Developer

Mr.Anwar Hussain Sofi
Department of IT
Got selected in 'HYPSTUMA' for internship
Position: Digital Marketing
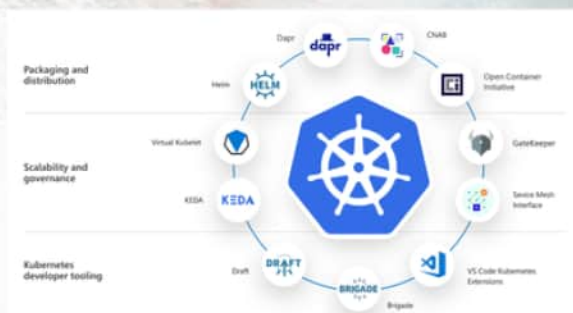
STUDENTS CORNER

MERN STACK

MERN stack is a web development framework. It consists of MongoDB, ExpressJS, ReactJS, and NodeJS as its working components. The user interacts with the ReactJS UI components at the application front-end residing in the browser. This frontend is served by the application backend residing in a server, through ExpressJS running on top of NodeJS. Any interaction that causes a data change request is sent to the NodeJS based Express server, which grabs data from the MongoDB database if required, and returns the data to the frontend of the application, which is then presented to the user. It is an open-source framework mainly used to develop web-based or mobile applications and is supported by the community.

Charumathi.M 4th Year

KUBERNETS

Kubernetes is open-source orchestration software for deploying, managing and scaling containers. Kubernetes orchestrates clusters of virtual machines and schedules containers to run on those virtual machines based on their available compute resources and the resource requirements of each container.Containers are grouped into pods, the basic operational unit for Kubernetes and those pods scale to your desired state. Kubernetes also automatically manages service discovery, incorporates load balancing, tracks resource allocation and scales based on compute utilisation. And, it checks the health of individual resources and enables apps to self-heal by automatically restarting or replicating containers.

Sudhanshu Ranjan 3rd Year

EVENTS CORNER

EVENT TITLE: Guest lecture on 'NETWORKS MODELLING AND SIMULATION'
DATE: 07/02/2022   TIME: 2.00 PM - 4.00 PM
CHIEF GUEST: Ms.U.Surya ,Assistant Professor,Dr.MGR Educational and Research Institute.
Ms.U.Surya gave a broad idea about different types of network simulations and its important also demonstrated how simulations are reliable.

EVENT TITLE: Guest lecture on 'ADVANCED WEB TECHNOLOGIES'
DATE: 09/02/2022   TIME: 2.00 PM - 4.00 PM
CHIEF GUEST: Mrs.K.Nithya, Assistant Professor, Dr.MGR Educational and Research Institute
Mrs.K.Nithya , she covered what is a web technology and how it is important for building web pages and also gave brief explation on servelts, sessions and cookies.

EVENT TITLE: Guest lecture on 'CYBER CRIME AND DIGITAL FORENSICS'
DATE: 11/02/2022   TIME: 2.00 PM - 4.00 PM
CHIEF GUEST: Mr.M.A.Vishal , Assistant Professor, Dr.MGR Educational and Research Institute
Mr.M.A.Vishal in his lecture he covered what is a relevance of digital forensic in investigating cyber crime.

EVENT TITLE: Technology talk on 'INDUSTRY CONNECT'
DATE: 23/02/2022   TIME: 10.00 AM - 1.00 PM
CHIEF GUEST: Mr.Shibu Thomas PMP , Engagement delivery partner, KSA,Cognizant
Mr.Shibu Thomas , he explained us to how to set a path towards a successful career, and he provided us a lot of intelligence on various sectors.

EVENT TITLE: Technology talk on 'AUTIMOTIVE SOFTWARE TRENDS & DISRUPTION 2030'
DATE: 07/03/2022   TIME: 11.00 AM - 1.00 PM
CHIEF GUEST: Mr.Suresh ramu , Global delivery head, L&T Technology Ltd
Mr.Suresh Ramu in his lecture covered automotive industry overview and explained how software playing vital part in industry.

EVENT TITLE: Webinar on the 'BOOM OF BLOCKCHAIN TECHNOLOGY'
DATE: 10/03/2022   TIME: 11.00 AM - 1.00 PM
CHIEF GUEST: Dr.Vivek Dubey , Senior Executive, Curious infotech solutions LLP(Curiousits)Ujjain
Dr.Vivek Dubey covered the whole history of Blockchain technology and explained in the clear cut manner.

EVENT TITLE: Webinar on 'AI & ML In Research Perspective'
DATE: 14/03/2022   TIME: 11.00 AM -1.00 PM
CHIEF GUEST: Prof.V.Nisha Jenipher ,Assis.Prof,Dep.of.CSE,St.Josephs institute of technology, Anna university,Chennai
Prof..V.Nisha Jenipher started her lecture on AI & ML in research perspective and she gave clear idea on the steps by step procedures.

EVENT TITLE: Personality Development Program
DATE: 16/03/2022   TIME: 2.00 PM - 4.00 PM
CHIEF GUEST : Mr.S.Chidambaram , Senior Corporate Trainer, Senior Corporate Trainer Technical and Behaviour skills
Mr.S.Chidambaram gave a broad idea about the personality development he has explained about Competence and how to act managerial roles.

EVENT TITLE: Webinar on 'ROLE OF DATA SCIENCE IN BUSINESS DECISIONS MAKING'
DATE: 17/03/2022   TIME: 6.00 PM - 7.00 PM
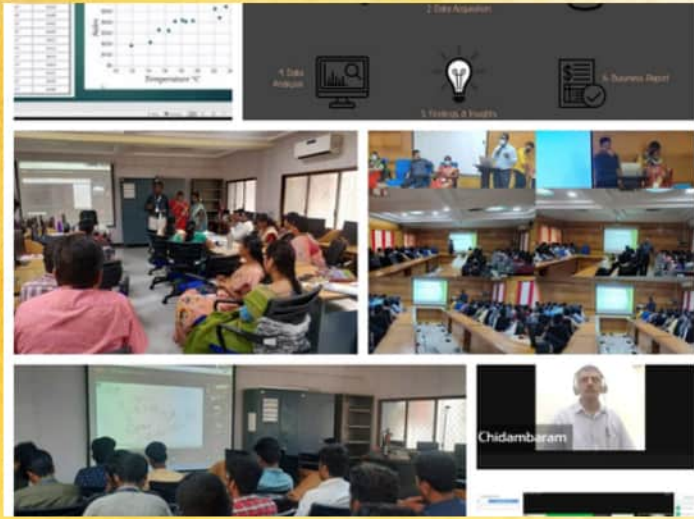CHIEF GUEST: Mr.Ashin Paul , Growth Strategist , Mu Sigma Inc
Mr.Ashin Paul gave a broad idea about data analytics and machine learning , role of data science in decision making with a use case and explained how gadgets that we use every day is comprises of AI.

EVENT TITLE: STC on Machine learning using python
DATE: 28/03/2022 - 1/04/2022 Time: 10.00 AM - 4.00 PM
CHIEF GUEST: All resource persons
All the resource persons gave a broad idea about Machine learning and they explained algorithms with a demo with Python.

EVENT TITLE: Institutional social responsibility event on 'NSS CAMP'

DATE: 18/03/2022 - 24/03/2022   TIME: 9.00 AM - 4.00 PM

CHIEF GUEST: Mrs.Hemamalini, Headmistress , CSI primary school

Around 50 NSS students volunteers got involved in this activity on behalf of our college,Mrs.Hemalini given the inaugural address on PO-Unit 1.

DEPARTMENT MEET

MINUTES OF 3RD QUARTERLY IQAC MEETING
DEPARTMENT OF IT

Academic Year: 2021 – 2022

ODD - SEM (JUL 2021–DEC 2022)

MEETING DATE: 10.03.2022 TIME: 2.00 PM

VENUE: SUN JAVA LAB

Agenda

1. Steps adopted to increase the publications in Journal / Book Chapters.

2. Initiation taken to improve the faculty Awards and Recognition.

3. Measures initiated to enhance the Collaborative activities.

Department Journal Club Meeting Minutes
Journal Club Name: SRIDHAR VEMBU JOURNAL CLUB

Date 02.03.2022

Agenda

1. Sharing of "My Experiences in Publication" by Dr. M. Kiruthiga Devi

2. "Publication Guidelines" by Dr. S. Ramamoorthy, Dean, Research, Dr. MGR Educational and Research Institute

3. Open Forum Discussion to clarify the Member Queries.

4. Publication Target & Research Publication Progress Review

ALUMINI CORNER

M.S.MUSTAFA SHAHNAWAZ SHERIF
BATCH : 2013-2017
TCS, SOFTWARE DEVELOPER

The four years in Dr.M.G.R.Educational Research Institute helped to positively develop myself personally and professionally. Currently I am working as Technical Service Engineer in Fujitsu Limited, a Japanese based ITES company. Department of Information Technology (IT) provided me a great platform to learn many skills and technologies by hosting many technical events and seminars throughout the four years. Our department let us improve our organizational skills by letting us students to organize technical symposium and conferences. And Industrial visits to various places like BSNL, Kalpakkam nuclear power plant to learn and understand what are the procedures and processes that actually happens inside a nuclear power plant. It was a great experience pursuing my B.Tech IT in Dr.M.G.R.Educational Research Institute. Those experiences had made me what I am today. It is a great honor to be alumni of Department of IT.

STAR OF Q1

FACULTY STAR

K.Nithya

STUDENT STAR

Surbhi Kumari

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