

IT-Q4-24/12/2021

OCT-DEC 2021



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

IT-Q4-24/12/2021

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DEPARTMENT OF INFORMATION TECHNOLOGY

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.



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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

AWARDS & ACHIEVEMENTS

QUALITY SEED FINDER USING MORPHOLOGICAL FEATURES OF SEED IMAGE

- Dr.N.Kanya, Mr.Kameshwaran, Ms.Suriya, Mr.Vishal got selected for **university seed grant assistance** for the project "Quality seed finder using morphological features of seed image".
- An amount of **Rs.1,20,000** has been sanctioned for this project



Dr.DAHLIA SAM

CLOUD BASED HEALTH MANAGEMENT SYSTEM

- Dr.V.Cyril Raj, Dr.Dahlia Sam got selected for **university seed grant assistance** for the project "Cloud Based health management system".
- An amount of **Rs.90,000** has been sanctioned for this project

GOT SELECTED FOR

- **WOMEN'S SCIENTIST SCHEME**
- **PATENT AWARDED FOR A VEHICLE CONTROL SYSTEM TO IMPROVE ROAD SAFETY USING VANET.**
- **SEED GRANT ASSISTANCE**



PLACEMENTS



2021 PASSED OUT
POSITION: ANALYST
PROGRAMMER
SALARY: 4.0LPA

ramco

Ms. MAHEESHA.S



2021 PASSED OUT
POSITION: PROGRAMME
R ANALYST TRAINEE
SALARY : 4.0LPA

Cognizant

Mr. KARTHIKEYAN.T



2021 PASSED OUT
POSITION : JUNIOR
SYSTEM ENGINEER
SALARY : 3.24LPA

m
sc

Mr. BALACHANDRAN.A



2021 PASSED OUT
POSITION : SYSTEM
ENGINEER TRAINEE
SALARY : 3.0LPA

Infosys

Mr. RITHUNRAJ.R.P



2022 PASSING OUT
POSITION: APPLICATION
DEVELOPMENT ASSOCIATE
SALARY : 4.5 LPA

accenture

Mr. JAIGANESH.D

Congratulations!

PUBLICATIONS

- Swapna Pavan, G., Kanya.N & Rajavarman.V.N(2021). A Review on Feature Identification and Extraction of Cumulative Foot Pressure Images. Design Engineering, 2021(8), p. 805.
- Dahlia Sam, Kameshwaran. A , ArunKumar. S, Charumathi.M & Mithilesh.K.N(2021). Online Covid-19 Risk Analysis System for Early Detection of Possible Infection. 4th EAI International Conference on Big Data Innovation for Sustainable Cognitive Computing at Coimbatore, Tamilnadu, 17th & 18th December.
- Dahlia Sam. (2021). Blockchain Based Internet of Vehicles for Intelligent Transportation System Using Fog Computing. 4th International Conference on Computer Networks, Big Data and IoT, ICCBI 2021 at CARE College of Engineering, Trichy, Tamilnadu, India, 9th & 10th December.
- Dahlia Sam., Nalini, T., Rama, A., Shanmuganathan, M. & Adlin Sheeba(2021). The Empirical Analysis For Effective Prediction of Crop Price Using Neuro Evolutionary Algorithm. Second International Conference on Robotics and Artificial Intelligence, ROAI 2021, 29th & 30th November.
- Kanya.N, (2021). Multilayer Perceptron Mode and ANN to Assess the Economic Impact and Human Health Due to the Alcoholism and its Effect in Rural Areas. Third International Conference on Advances in Electrical Computer Technologies 2021 (ICAECT 2021) at PSR Engineering College, Sivakasi, Tamil Nadu, India, 29th & 30th October.

STUDENT'S CORNER

1.ROBOTIC PROCESS AUTOMATION

Robotic Process Automation refers to the functioning of corporate Processes due to the mimicking human tasks and automate them. In this Particular sphere, it is important to bear in mind that AI is not meant to Replace humans, but to support and complement their skills and talent Companies like Pega systems, Automation Anywhere, Blue Prism, Ui Patand Work Fusion focus on this process.

Ms.M.V.S.L.TEJA SRI
ASSISTANT PROFESSOR (IT)

2 .HUMAN AUGMENTATION

Human augmentation is sometimes painted as extreme, futuristic tech, but the reality is that many forms of human augmentation are available today. If done correctly, augmentation has the potential to improve our health, entertainment, productivity, and overall quality of life. A common definition of human augmentation is “technologies that enhance human productivity or capability, or that somehow add to the human body”. We would add that in order for something to be an augment, it must become so integrated into the user’s life that it becomes an extension of them. For instance, a hammer is only relevant when you need it and thus would not be an augment. But a sufficiently discreet exoskeleton could become as normal to your life as your ability to walk, and thus would be an augment. So, following this rule, a laptop would not be considered an augmentation, but a smartphone—and especially a mobile smartwatch—could easily be considered an augmentation.



M.KAVIYA DHARSHINI
B.TECH(IT) IIIRD YEAR

EVENTS CORNER

ALUMNI INTERACTION SERIES IV ON “FUNDAMENTALS OF CLOUD COMPUTING AND DATA ANALYTICS”



08:10:2021



11am -1pm

The guest of the day was Mr. Rajeev Bakshi, an alumni of our department from the 2006-2010 batch. Mr. Rajeev gave a broad idea about Cloud Computing, types of Cloud and the various places where cloud is used. He also shared about the security aspects involved.

WEBINAR ON “ROLE OF DATA ANALYTICS IN OUR LIVES”



12:10:2021



6 pm -7.30 pm

The guest of the day was Mr.Sreekanth Dayanidhi, General Manager, Converzate, USA.Mr.Sreekanth Dayanidhi gave a broad idea about Data Analytics, Role of data science in our day to day lives. He explained how the gadgets that we use every day is comprises of AI, Data Analytics and Machine Learning.

WEBINAR ON “TRENDS AND OPPORTUNITIES IN GAMING”



01.11.2021



11am -1pm

The Guest Speaker of the day Mr.S.Suresh Kumar, Territory Academic South, from Arena Animation he shared information about the various gaming technologies used in advanced level. Sir also gave good ideas about how to develop gaming techniques in today's scenario. Sir also explained the sessions with some real time gaming technology videos in today's world.

CERTIFICATE TRAINING PROGRAM ON 3D ANIMATION & ANDROID MOBILE APPLICATION DEVELOPMENT



08.11.2021 TO 25.11.2021

The trainer Mr.G.Udhaya Sankar working as an NSIC Trainer he gave the brief explanation about the 3D animation and mobile application development. he explained in step-by-step procedures, how 3D animation can be made. He also gave a hands-on training to all the students in 3D animation. The trainer Mrs.Hemalatha Ravi working as an NSIC trainer gave training on mobile application development. She explained about all the android version clearly and how to develop the applications in android. She gave exposure to the programming in developing mobile application. Through the hands on training all the students gained the knowledge about how to develop and host the mobile applications.

WEBINAR ON "DATA ANALYTICS IN HEALTH CARE"



12.11.2021



7Pm - 8pm

The guest of the day was Mr. Aniruddha Kannal, Freelancer, Academic council member, Atria University. Mr. Aniruddha Kannal gave a broad idea about Data Analytics and Machine learning, Role of data science in health care with a use case. He explained how the gadgets that we use every day is comprises of AI, Data Analytics and Machine Learning.

Introduction – Rajeev Bakshi

- 2006-2010 Alumni – B.Tech (IT)
- 10.5 yrs. experience in cloud and Data platform (Business Intelligence, Analytics, AI, ML, Visualization)
- Working as Data Architect – Novozymes- Bangalore (5+ yrs.)
- Worked with Accenture (5+ yrs.)
- MS certified Solutions Expert : Data Management and Analytics
- MS Certified Solutions Expert : Data Platform
- MS Certified Solutions Expert : Business Intelligence
- Microsoft Certified: Azure Solutions Architect Expert*

Background

Timeline of career milestones:

- 2006: B.Tech (IT)
- 2007: Novozymes- Bangalore
- 2010: Accenture
- 2013: MS Certified Solutions Expert : Data Management and Analytics
- 2015: MS Certified Solutions Expert : Data Platform
- 2018: MS Certified Solutions Expert : Business Intelligence
- 2020: Microsoft Certified: Azure Solutions Architect Expert*

Select your color

GAMING TRENDS

Gaming has evolved from Single-Player to Multi-Player Games

Faster Internet Connectivity has led to more adoption of Multi-player Games

More Freemium Games has also led to more people playing Multi-player Games

During Lockdown LUDO KING has had 350 Million downloads with about 5 million daily active users

Smarter Healthcare

DS and ML case studies in healthcare

Converged Health by Data Science

Smarter Healthcare

DS and ML case studies in healthcare

Converged Health by Data Science

Smarter Healthcare

DS and ML case studies in healthcare

Converged Health by Data Science

DEPARTMENT MEET

MINUTES OF 2ND QUARTERLY IQAC MEETING

Academic Year: 2021 – 2022
ODD - SEM (JUL 2021–DEC 2021)

MEETING DATE: 10.12.2021 TIME: 10.00 AM

Agenda

1. Quality enhancement in curriculum and development
2. Techniques/ Strategies used to measure student project quality



DEPARTMENT JOURNAL CLUB MEETING MINUTES

Journal Club Name: SRIDHAR VEMBU JOURNAL CLUB
MEETING DATE : 22.12.2021

AGENDA:

1. Presentation of Featured Article “A Graph Based Data Integration and Aggregation Techniques for Big Data” by Dr. S. Jayanthi
2. Tips on “Ways to reduce Plagiarism” by Dr. K. Geetha, Principal, Faculty of Education, Dr. MGR Educational and Research Institute
3. Open Forum Discussion to Clarify the Member Queries.
4. Publication Target & Research Publication Progress Review



ALUMNI 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. It was an good moments in college days to get lot of knowledge gaining programs to build baseline of the career very strongly.



SM MAHARAJAN
2013 TO 2017
FUJITSU AND TECHNICAL
SERVICE ENGINEER

STAR OF Q4

FACULTY STAR



Dr.Dahlia Sam

STUDENT STAR



Mr.Arun
B.Tech IT 4th Year



Mr.Jaiganesh
B.Tech IT 4th Year

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