

IT-Q1-25/03/2021

JAN-MAR 2021



# Dr. M.G.R. EDUCATIONAL AND RESEARCH INSTITUTE DEEMED TO BE UNIVERSITY

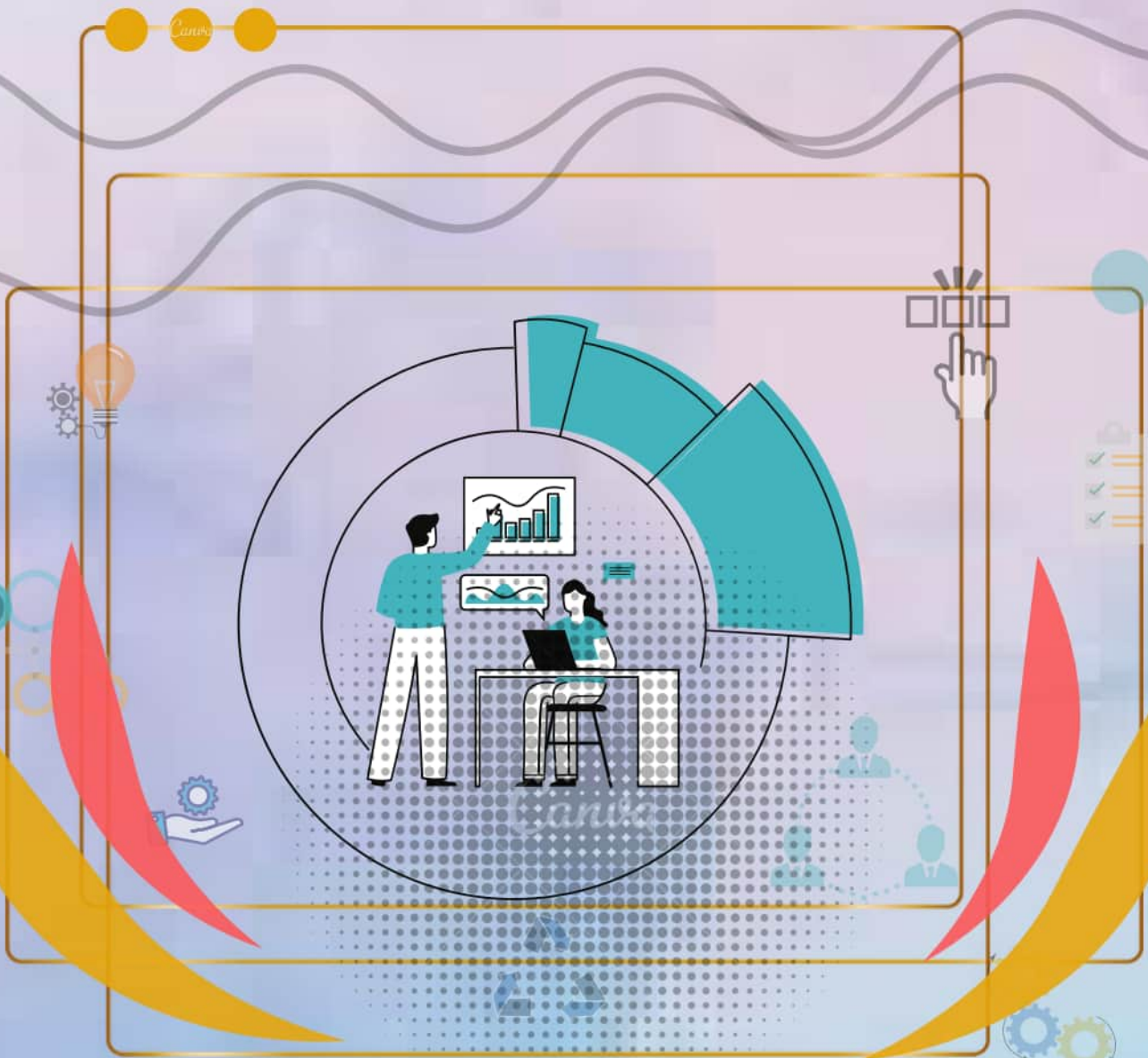
University with Graded Autonomy Status

(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

## **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 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

Kanya.N , Edwin Joseph.R , Bhaskar.K ,  
Francis Xavier.J , Sendilvelan.S , Prabhahar.M , Kanimozhi.N & Geetha.S  
(2021). Analysis on productivity improvement, using lean manufacturing  
concept. Materials Today: Proceedings, 45(7), p. 7176.

Nithya.K , Karthikeyan.B , Alhaf Malik.K ,  
Bujji Babbu.D , Jafar Ali Ibrahim.S & Kalyan Chakravarthy.N.S (2021).  
Survey of Cooperative Routing Algorithms in Wireless Sensor Networks.  
Annals of R.S.C.B, 25(1), p. 5316.

## STUDENT CORNER

### LATEST TECHNOLOGIES

### TACTILE VIRTUAL REALITY

Innovative technologies offer more 3D experiences like AR and VR. Virtual Reality engross the user in a simulated environment, Reality is an overlay of technology in the real world. Virtual reality has many use-cases which includes entertainment, gaming and acting as a sales, educational, training tool.

Sense of touch gives us a deep understanding of the things which we cannot be experienced fully by sight or hearing.



S.OVIYA, 4th Year



## ACCELERATING AI AT THE SPEED OF LIGHT

Improved computing power and an exponential increase in data have helped fuel the rapid rise of artificial intelligence. But as AI systems become more sophisticated, they'll need even more computational power to address their needs, which traditional computing hardware most likely won't be able to keep up with.



To solve the problem, MIT spinout Lightelligence is developing the next generation of computing hardware.

S.KANISHKA, 3rd Year

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## EVENTS CORNER

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### EVENT TITLE: WORKSHOP ON "SQL FOR DATASCIENCE"

DATE: 27/01/2021 to 28/01/2021, TIME: 3.30 PM to 6.30PM

CHIEF GUEST: Mr.Gagan Lohar, Data Scientist, Imarticus Learning Pvt Ltd.

Mr.Gagan Lohar gave a detailed hands-on training on SQL from fundamentals to advanced topics which enabled the student to work intensively on SQL.

### EVENT TITLE: WEBINAR ON "AMAZON WEB SERVICE"

DATE: 05/02/2021 , TIME: 11.00 AM to 12.00AM

CHIEF GUEST: Mr.Jayakumar, Product Manager, ACCEL INDIA Ltd. Mr.Jayakumar explained about the need for cloud computing and its advantages. He enlightened the undergraduates concerning the conceivable open position and the significance of doing AWS Certification.

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**EVENT TITLE: PROFESSIONAL SOCIETY SEMINAR ON "APPLIED DATA SCIENCE IN ACTION"**

DATE: 01/03/2021, TIME: 3.00 PM to 5.00 PM

CHIEF GUEST: Mr.Bikramaditya Singhal, Data Scientist, Author, FreeLancer.

The session was interactive and informative. Students were able to gain great insight on the application of data Science.

**EVENT TITLE: Interdisciplinary Guest Lecture on "real TIME APPLICATION ON EMBEDDED SYSTEMS"**

DATE: 03/03/2021, TIME: 11.00 AM TO 12.30 PM

CHIEF GUEST: Mr.N.LakshmiNarayanan, Assistant Professor, Department of ECE, Dr.M.G.R Educational And Research Institute. He gave a brief idea about how to design an embedded system by identifying the problems from day to day life, and motivated students to do projects and improve their carrier opportunities.

**EVENT TITLE: GUEST LECTURE ON "SEARCHING AND SORTING TECHNIQUES IN DATA STRUCTURES"**

DATE: 04/03/2021, TIME: 11.00AM to 12.30 PM

CHIEF GUEST: Dr.T.Nalini, Professor, Department of CSE/IT, Dr.M.G.R Educational And Research Institute. She explained about the Real Time Techniques of Searching and Sorting Methodologies which is used in Current Trend.

**EVENT TITLE: GUEST LECTURE ON "DIGITAL MARKETING "**

DATE: 05/03/2021 , TIME: 10.00 AM to 11.30 PM

CHIEF GUEST: Dr.Dahlia Sam, Professor, Dr.M.G.R Educational And Research Institute. Dr.Dahlia Sam started the session with an introduction on Digital Marketing with several issues where the society had facing with creating websites and reaching the world. Gave the brief explanation about creating the websites and also explained about the categories in Digital Marketing.



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**EVENT TITLE: A Five days Faculty Development Programme (FDP-2021) ON "ESSENTIALS OUTCOME BASED EDUCATION"**

**DATE: 15/03/2021 to 19/03/2021, TIME: 10.30 AM to 12.00 PM**

**CHIEF GUEST: Dr.R.ANANDAN, Professor, VELS INSTITUTE OF SCIENCE, Technology and Advanced Studies Mrs.Valli, Professor, BSA. Dr.S.Neelavathi has explained the need for OBE. Dr.Anandan has explained OBE and Frame work of OBE. Mrs.Valli explained how to design outcome based question paper. Mr.s.Sadagopan has explained about CO,Po,Pso in detail. Dr.M.Rajkumar expressed the ethics and values through OBE framework.**



## DEPARTMENT MEET

### MINUTES OF 3RD QUARTERLY IQAC MEETING

Academic Year: 2020 – 2021

Even - SEM (Jan 2021–May 2021)

DEPARTMENT: IT

MEETING.DATE:22.03.2021

TIME:2.00PM

1. Analyzing the feedback reports.
2. Action plan taken for the minimum points in SSS and the weakness and challenges identified during auditing.



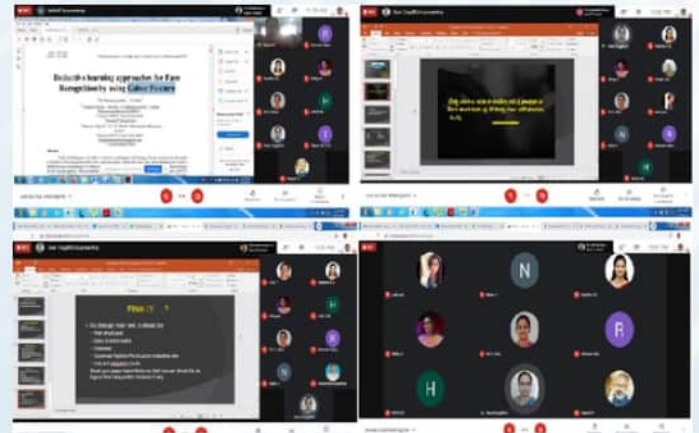
## ALLEN TURING JOURNAL CLUB MEETING - 004

### MINUTES OF MEETING

The Department of Information Technology conducted the Journal Club meeting No. 004 as part of Allen Turing Journal Club on 25.02.21 at 11.30 a.m. through Google Meet.

CHEIF GUEST: Dr. N. Shubhasree, Dean-E&S.

She presented a clear talk on how to choose a research paper, how to give an interesting title for the paper and about doing a literature survey from reputed sources. She gave many important tips on doing research and writing papers.



## ALUMINI CORNER

It was indeed phenomenal 4 years of my Engineering at MGR University. My choice to pursue IT Engineering was clear right from the start. And from second year onwards it was an upward journey towards my career. Be it exhibiting my leadership skills as the CR of my batch, I always gave my best.

Undoubtedly the department, backed by HoD's kept encouraging me to come out with flying colors not just in academics but also co-curricular activities.

I vividly recollect when my health went down during the last phase of second year, timely care by Kanya mam, Amudha mam backed by Dinesh sir and above all Dr. Cyril Raj sir along with my batchmates and true friends helped me come out from a tough phase.

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.

At times, I go to my terrace to observe the beaming light which reads the name of our college and feel proud, happy and contented for whatever the college and University has bestowed me. I salute my Alma mater!



**DTM Pintu Champ Mahato**  
**Senior Technical Analyst at**  
**HCL Technologies**  
**Batch:2009-2013**



# STAR OF Q1

## FACULTY STAR



**S.SHOBHANA**

## STUDENT STARS



**SANTHOSH.M**

**B.Tech IT 4TH Year**



**OVIYA.S**

**B.Tech IT 4TH Year**

**DEVELOPED THE WEBSITE FOR ACS MEDICAL  
COLLEGE AND HOSPITAL**

# **EDITORIAL BOARD**

## **STAFF COORDINATORS**

**Dr.Dahlia Sam**  
**[Professor]**

**Mr.A.Kameshwaran**  
**[Assistant Professor]**

## **STUDENT COORDINATORS**

**S.Divya Shree**  
**B.Tech IT III Year**

**Zaid Rasool Khan**  
**B.Tech IT III Year**

**R.K.Tharani**  
**B.Tech IT,II Year**

**M.Kaviya Dharshini**  
**B.Tech IT,II Year**



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**DEPARTMENT OF INFORMATION TECHNOLOGY**

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