




You Choose, We Do It
St. JOSEPH'S COLLEGE OF ENGINEERING
(An Autonomous Institution)
St. Joseph's Group of Institutions
OMR, Chennai - 119.



JULY 2023
DEPARTMENT OF BIOTECHNOLOGY

S.No.	Title of the Events and Photographs	Details of the Event
1.	<p>INDUSTRIAL VISIT</p>  <p><i>Industrial visit photo of IVth year Biotech students</i></p>	<p>IV year students of Biotechnology were taken on a one day Industrial visit on 19/07/2023 to Balaji Enterprises Pvt Ltd, Pondicherry.</p>

PUBLICATIONS(ONLY PUBLISHED) DETAILS



2.

Certificate copy of Dr.G.Baskar

AD Rankings for Scientist
University, Subject, Country, Region, World

World Scientist and University Rankings 2023

St Joseph's College of Engineering
Baskar Gurumathan

In St Joseph's College of Engineering & Tech
In India (78469) In Asia (485766) In World (1332842)

Score	Rank	Score	Rank
Total H	34	#2176	#2309
Last 6 year H	31	#461	#10215
Last 6 year H / total H	0.912		
Total I10	62	#2053	#22754
Last 6 years I10	69	#2135	#18644
Last 6 years I10 / Total I10	0.935		
I10			
Total Citations	4067	#366	#1917
Last 6 years Citations	3387	#2046	#2805
Last 6 years Citations / Total Citations	0.833		
Total Citations			
Engineering & Technology *	#1	#22	#891
Engineering & Technology *	(21) *	(1861) *	(78830) *
Energy Engineering *	#1	#21	#106
Energy Engineering *	(1) *	(243) *	(1430) *

www.adscientificindex.com
Date : 04.07.2023 *Source and Methodology: <https://www.adscientificindex.com/methodology.php?sr=30216>

Certificate copy of Dr.G.Baskar

1. Participated in Webinar on “Exploring Open access: Strategies for Successful Publication” by Taylor and Francis.
2. Ranked Scientist 31 in India under Energy Engineering in World Scientist and University Rankings 2023 published by AD Scientific Index - Rankings 2023.
3. Certificate of Reviewer Recognition from Journal of Environmental Biology.
4. Guest Editor of Special Issue "Biomedical Potential of Bioengineered Nanoparticles" in Bioengineering Journal.
5. Guest Editor of Special Issue in "Functional Biomaterials and Nanobiomaterials for Biomedical Applications" in Materials Journal.



Certificate copy of Dr.G.Baskar




Certificate copy of Dr.G.Baskar

	 <p style="text-align: center;"><i>Certificate copy of Dr.G.Baskar</i></p>	
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DEPARTMENT OF CHEMICAL ENGINEERING

S.No.	Title of the Events and Photographs	Details of the Event
1.	INDUSTRIAL VISIT	17.07.2023 Department of Chemical Engineering has Organised a One day Industrial Visit to Modern Bakers , Madhavaram , Chennai for V Semester - III Year Students

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING And Artificial Intelligence and Data Science

Sl. No.	Event with Photo	Description
1	<p>A one Day Event on “Tech Triva”</p> 	<p>Date : 29.6.23 Venue : Online Nature of Event : Tech Trivia Participants : XI and XII students Organized by : Computer Society of India, Kancheepuram Chapter Objective:</p> <ul style="list-style-type: none"> To test participants' knowledge and understanding of various technological concepts, advancements, and trends. <p>Outcome:</p> <ul style="list-style-type: none"> Knowledge Enhancement: Participants learn about tech trends and advancements, fostering continuous learning. Engaging Experience: Enjoyable and interactive atmosphere challenges minds and encourages collaboration. Team Building: Promotes teamwork and strengthens interpersonal relationships. Networking: Connects individuals with shared tech interests, fostering a supportive community. Positive Motivation: Incentives encourage active participation and continued interest in technology.

2

Alumini Talk on Full Stack Developer



Date : 4.7.23

Venue : Online

Nature of Event : Alumni Talk

Participants : Engineering III and IV year Students (CSE & ADS)

Organized by : Department of CSE and ADS

Objective:

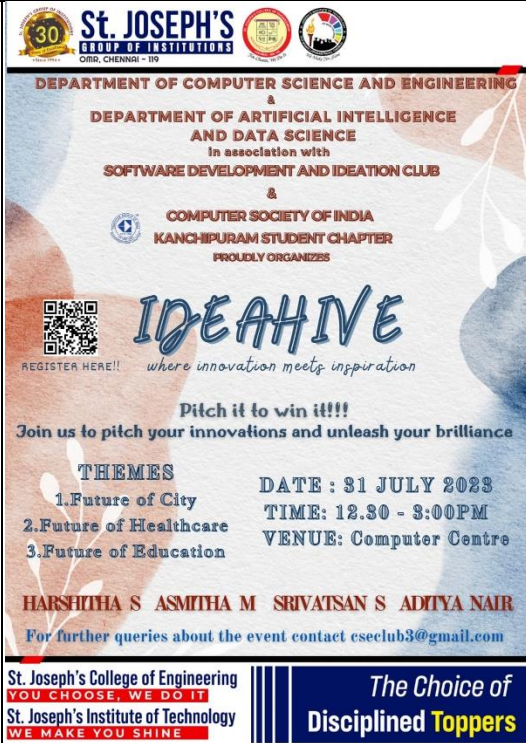
- To provide current students with valuable insights into the world of Full Stack Development, its significance in the tech industry, and the skills required to succeed as a Full Stack Developer

Outcome:

- **Awareness and Understanding:** Students gain a comprehensive understanding of what Full Stack Development entails, including the role, responsibilities, and importance of a Full Stack Developer in modern software development.
- **Skill Requirements:** The talk outlines the essential technical skills, programming languages, frameworks, and tools that students should focus on to pursue a career as a Full Stack Developer.
- **Career Pathways:** Students are exposed to various career pathways and industries that require Full Stack Development expertise, helping them make informed decisions about their future careers.
- **Motivation and Inspiration:** Hearing from alumni who have succeeded as Full Stack Developers can motivate and inspire students to pursue their passions in technology and take on the challenges of becoming well-rounded developers..

3

A One day event on “Ideahive”



The poster features a blue and white background with a QR code on the left. At the top, it displays the St. Joseph's College of Engineering logo and the IEEE logo. The text reads: 'DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING & DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE In association with SOFTWARE DEVELOPMENT AND IDEATION CLUB & COMPUTER SOCIETY OF INDIA KANCHIPURAM STUDENT CHAPTER PROUDLY ORGANIZES'. The event title 'IDEAHIVE' is written in a large, stylized font, with the tagline 'where innovation meets inspiration' below it. A QR code is labeled 'REGISTER HERE!!'. The text 'Pitch it to win it!!!' and 'Join us to pitch your innovations and unleash your brilliance' is present. The themes are listed as: 1.Future of City, 2.Future of Healthcare, 3.Future of Education. The date is '31 JULY 2023', time is '12.30 - 3:00PM', and venue is 'Computer Centre'. The organizers are 'HARSHITHA S ASMIHA M SRIVATSAN S ADITYA NAIR'. Contact information is 'cseclub3@gmail.com'. At the bottom, it says 'St. Joseph's College of Engineering YOU CHOOSE, WE DO IT St. Joseph's Institute of Technology WE MAKE YOU SHINE' and 'The Choice of Disciplined Toppers'.

Date : 31.7.23

Venue : Computer Centre

Nature of Event : Ideahive

Participants : Engineering III year Students (CSE & ADS)

Organized by : IEEE Computer society student chapter

Objective:

- To get exposure where participants are invited to share their innovative ideas and collaborate with others to solve specific challenges or problems.

Outcome:

- The Competition is a pool of innovative ideas and collaborative projects aimed at addressing real-world challenges, fostering a culture of creativity and problem-solving.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

1. Events conducted:

The following events have been conducted during July 2023 at College Level

1. OPTICA - Event

Report



A guest lecture on robotics, artificial intelligence (AI), and automation was held for the Electronics and Communication Engineering Students titled "MINDSCAPE" organized by the department of ECE in association with the OPTICA student chapter on 07.07.2023. The event started with a welcome speech and the felicitation of the guest lecturers followed by "TAMIL THAI VAAZHATHU". Nearly more than 120 students participated from III and IV year students of St. Joseph's College of Engineering of the department of ECE and benefited. Dr. B. Vasudevan, Co-Ordinator of Optica STUDENT CHAPTER, monitored and organized the entire event.

At first, Mr. Saumendra Dash delivered his lecture on kernel and operating systems followed by Dr. S. K. Annamalai delivered his speech on robotics and automation. This was the first guest lecture conducted after the election for office bearers of 2023-24. Students found it informative and useful and suggested making such interactive guest lectures in the upcoming year. Thus, the talk ended with encouragement and tips for placement from the lecturers to join the core companies.



2. IEEE Event

Report

The Student Chapter of the Institute of Electrical and Electronics Engineers (IEEE), St. Joseph's College of Engineering, Coordinated and conducted a technical event for the IEEE SBC members on 17th May 2022. The event kept all the audience engaged for three hours. The event was held in the AV hall, within the college premises.

You Choose, We Do It

ST. JOSEPH'S COLLEGE OF ENGINEERING
(AN AUTONOMOUS INSTITUTION)

St. Joseph's Group of Institutions
OMR, Chennai-119
COUNSELLING CODE:1317

Cambridge English Qualifications | nirf | NBA | NAAC A+ | INSTITUTIONS INNOVATION COUNCIL | ARIIA | IEEE

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
in association with
IEEE Student Branch Chapter
Presents





BRAINTEASERS

DATE & TIME
06 JULY 2023

VENUE
ECE DEPARTMENT

Dr. R. Avudaiammal, Ph.D., and Dr. K. Venkatesan, Ph.D., being the advisors of the IEEE student chapter of the department, headed the event. Around 60 IEEE members participated in the event. The students showed active participation. The event was conducted for recapitulating known technical topics. The students expressed more enthusiasm and encouraged more upcoming events. Students who performed exceedingly well were awarded with merit certificates.

First Place	<ol style="list-style-type: none"> 1. Yamini 2. Vadivu Nandhini 3. Venushree
Second Place	<ol style="list-style-type: none"> 1. Ebimmanuel 2. Charan V 3. Akshay B
Third Place	<ol style="list-style-type: none"> 1. Saravana Dinesh 2. Sugumar 3. Yuvanesh

<p>3. Guest Lecture</p>	<p>Report</p>	
<div data-bbox="235 461 894 1300" style="border: 1px solid black; padding: 10px;">  <p style="text-align: center;"> <i>Your Choice. We Do It</i> St. JOSEPH'S COLLEGE OF ENGINEERING (An Autonomous Institution) St. Joseph's Group of Institutions OMR, Chennai - 119 </p>  <p> Department of Electronics and Communication Engineering Cordially invite you to the GUEST LECTURE by Mr. Rajesh Thangaraj GIS Consultant Land Coordinate Technology Chennai 600073 <i>On 7th July 2023 between 9.00 am - 10.30 am</i> <u>Topic</u> Drone and Lidar Technologies for Map applications <u>Venue</u> Audio Visual Hall Library Block St. Joseph's College of Engineering OMR, Chennai. </p> <p style="text-align: right;">  PRINCIPAL </p> </div>	<p>Department of ECE organized a guest lecture on Drone and Lidar Technologies for Map Applications on July 7th, 2023, 9.00AM at AV Hall.</p>  <p>Number of Students Benefitted: 180(IV Year)</p>	
<p>4. FDP/Workshop:</p>	<p>The following staff members have participated in various FDP/Workshop conducted by other institutions during the</p>	

month of July at National/International level.

S. No.	Name of the Staff	FDP/ Workshop Program Title	Host Institution	Date	Duration
1.	K.Ramachandra Reddy	Advances in Optical Communications	IIT Madras, DOT India	22-07-23 to 23-07-23	2 days
2.	Dr.R.Niruban	SCILAB Programming for Beginners	NITTTR Chandigarh	24.07.23 to 28.07.2023	5 days
3.	G D Vignesh	SCILAB Programming for Beginners	NITTTR Chandigarh	24.07.23 to 28.07.2023	5days

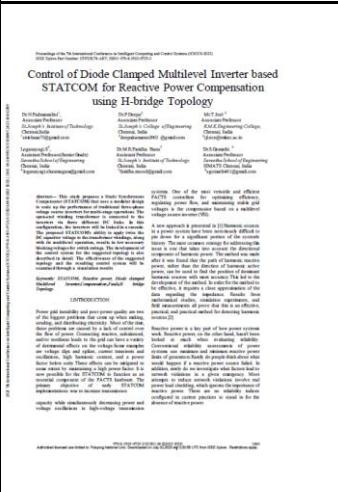
5.Publications:

The following staff members have published the research papers in Journal/Conferences organized during the month of July at International/National Level.

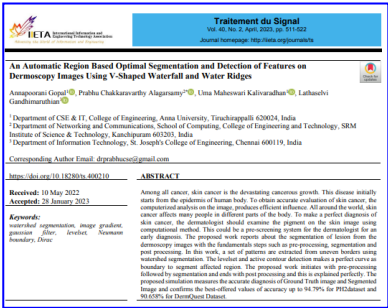
S. No.	Name of the Author	Paper Title	Name of the Conference/Journal	Publication Details	Date of Publication
1.	C. Narmadha , R. Muthuselvi , P. Somasundari , G. Sivagurunathan , Malini K V , Sathishkannan	Cloud-based Detection of Malware and Software Privacy Threats in Internet of Things using Deep Learning Approach	International Journal of Electronics and Communication Engineering	Scopus Indexed	July 2023
2.	R. Niruban	Analysis of Various Toxic Gas Levels Using 5G ML-IoT for Air	IOT with Smart Systems, ICTIS 2022 Conference	Scopus Indexed	2023

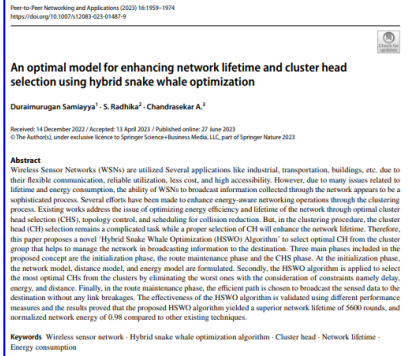
		Quality Monitoring and Forecasting	Proceedings, Springer Book Smart innovation, systems and technologies		

DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

Sl. No.	Title	Detail				
I	IEEE Conference					
		S.No	Name of Authors	Title of the paper	Published Month and year	proof
		1.	N. Padmamalini; P. Deepa; T. Joel; S Loganayagi; M.R. Faridha Banu; S. Gomathi	Control of Diode Clamped Multilevel Inverter based SATCOM for Reactive Power Compensation using H-bridge Topology	July 2023	

DEPARTMENT OF INSTRUMENTATION TECHNOLOGY


Sl. No.	Photographs Captured During Event	Corresponding remarks in regarding the status of activity execution
1	<div data-bbox="226 354 611 659" style="border: 1px solid black; padding: 5px;">  <p>Traitement du Signal Vol. 40, No. 2, Juin 2023, pp. 511-523 Journal homepage: http://tts.elsevier.com</p> <p>An Automatic Region Based Optimal Segmentation and Detection of Features on Dermoscopy Images Using V-shaped Waterfall and Water Ridges</p> <p>Amruteswar Gopal, Prabhu Chakkaravarthy Abigneny, Uma Maheswari Kalivaradhan, Lathselvi Gandhinarathin</p> <p>¹Department of CSE & IT, College of Engineering, Anna University, Trichyapalli 620024, India ²Department of Networking and Communications, School of Computing, College of Engineering and Technology, SEM Institute of Science & Technology, Kanchipuram 603203, India ³Department of Information Technology, St. Joseph's College of Engineering, Chennai 600119, India</p> <p>Corresponding Author Email: drprabhu@gmail.com</p> <p>https://doi.org/10.18280/ts.400210</p> <p>Received: 10 May 2022 Accepted: 28 January 2023</p> <p>Keywords: watershed segmentation, image gradient, gaussian filter, levelset, Otsu's boundary, Otsu</p> </div> <p style="text-align: center; margin-top: 20px;">Co-author:</p> <p style="text-align: center;">Ms. G. Lathselvi Published a paper in Scopus</p>	<p style="text-align: center;">Staff Paper Publication</p> <p>G. Annapoorani, A. Prabhu Chakkaravarthy, K. Uma Maheswari, G. Lathselvi, “An Automatic Region Based Optimal Segmentation and Detection of Features on Dermoscopy Images Using V-Shaped Waterfall and Water Ridges”, Traitement du Signal, doi: https://doi.org/10.18280/ts.400210, Vol. 40, No. 2, pp. 511-522, April 2023. (Indexed in Scopus- July 2023)</p> <p>Abstract: Among all cancer, skin cancer is the devastating cancerous growth. This disease initially starts from the epidermis of human body. To obtain accurate evaluation of skin cancer, the computerized analysis on the image, produces efficient influence. All around the world, skin cancer affects many people in different parts of the body. To make a perfect diagnosis of skin cancer, the dermatologist should examine the pigment on the skin image using computational method. This could be a pre-screening system for the dermatologist for an early diagnosis. The proposed work reports about the segmentation of lesion from the dermoscopy images with the fundamentals steps such as pre-processing, segmentation and post processing. In this work, a set of patterns are extracted from uneven borders using watershed segmentation. The levelset and active contour detection makes a perfect curve as boundary to segment affected region. The proposed work initiates with pre-processing followed by segmentation and ends with post processing and this is explained perfectly. The proposed simulation measures the accurate diagnosis of Ground Truth image and Segmented Image and confirms the best-offered values of accuracy up to 94.79% for PH2dataset and 90.658% for DermQuest Dataset.</p>

**Author:**

Dr. S. Duraimurugan
 Published a paper in SCIE

S. Duraimurugan, S. Radhika, A. Chandrasekar, “An optimal model for enhancing network lifetime and cluster head selection using hybrid snake whale optimization”, Peer-to-Peer Networking and Applications, Publisher: Springer, E ISSN: 1936-6450, Print ISSN: 1936-6442, <https://doi.org/10.1007/s12083-023-01487-9>, 16, pp. 1959–1974, 2023. (Indexed in SCIE and WOS - July 2023, Impact Factor: 3.488)


Abstract: Several efforts have been made to enhance energy-aware networking operations through the clustering process. Existing works address the issue of optimizing energy efficiency and lifetime of the network through optimal cluster head selection (CHS), topology control, and scheduling for collision reduction. But, in the clustering procedure, the cluster head (CH) selection remains a complicated task while a proper selection of CH will enhance the network lifetime. Therefore, this paper proposes a novel 'Hybrid Snake Whale Optimization (HSWO) Algorithm' to select optimal CH from the cluster group that helps to manage the network in broadcasting information to the destination. Three main phases included in the proposed concept are the initialization phase, the route maintenance phase and the CHS phase. At the initialization phase, the network model, distance model, and energy model are formulated. Secondly, the HSWO algorithm is applied to select the most optimal CHs from the clusters by eliminating the worst ones with the consideration of constraints namely delay, energy, and distance. Finally, in the route maintenance phase, the efficient path is chosen to broadcast the sensed data to the destination without any link breakages. The effectiveness of the HSWO algorithm is validated using different performance measures and the results proved that the proposed HSWO algorithm yielded a superior network lifetime of 5600 rounds, and normalized network energy of 0.09 compared to other existing techniques.

Sl. No.	Photographs Captured During Event	Corresponding remarks in regarding the status of activity execution
3	 <p data-bbox="243 654 583 789">L. Sherly Puspha Annabel, S. Abirami and M. Angelin Published a paper in Scopus Indexed Conference</p>	<p data-bbox="1083 272 1535 302" style="text-align: center;"><u>Staff and Student Paper Publication</u></p> <p data-bbox="667 310 1955 456">L. Sherly Puspha Annabel, S. Abirami and M. Angelin, "Design and Development of Multimodal Virtual Mouse," 2023 International Conference on Inventive Computation Technologies (ICICT), Lalitpur, Nepal, Publisher: IEEE, E ISBN:979-8-3503-9849-6, Print ISBN:979-8-3503-9850-2, doi: 10.1109/ICICT57646.2023.10134433, pp. 902-907, 2023. (Indexed in Scopus- July 2023)</p> <p data-bbox="667 545 1948 997">Abstract: Computer technology has improved tremendously over the past decade and has turned into a necessity for everyday living. The primary piece of hardware for Human-Computer Interaction (HCI) on computers is the mouse. The mouse is inappropriate in some real-world situations, such as when humans and robots communicate. The most natural and intuitive HCI technique and a viable substitute for the computer mouse is the use of hand gestures. Hand gesture recognition plays a significant role in Human Computer Communication. There are obviously many new technology advancements happening nowadays, such as biometric authentication, which is typically found in cellphones. Hand gesture recognition is another contemporary method of human computer interaction, allowing us to control systems by waving our hands in front of a webcam. This research paper provides a detailed explanation and a fully flexible model that implements various cursor features of a mouse using algorithms and methodologies thereby implementing a "Multimodal Virtual Mouse" which outperforms the existing methodologies in terms of accuracy, robustness, adaptability, integration, latency, user acceptance, privacy and security.</p>
4		<p data-bbox="695 1029 1115 1058" style="text-align: center;">Seminar/ FDP Attended by Faculty</p>




S.No	Title of the topic	Name of the Staff	Conducted By	Date
1.	Emerging Trends In Information Technology	A. Kavitha	Hindustan College of Engineering and Technology, Coimbatore	26-6-2023 to 30-6-2023 (5 days)
2.	5 Day's Online International FDP on Data Analyst	Dr. D. Logehwari Dr. A. Tamizhselvi Dr. C. Heltin Genitha	Andhra Pradesh State Skill Development Corporation (APSSDC) in Collaboration with ExcelR	19-6-2023 to 23-6-2023 (5 days)

DEPARTMENT OF MATHEMATICS

Events	Remarks						
FDP/Workshop/Conference							
	S.No	Name of the staff	Title of FDP / Workshop	Organized by	Mode	From	To
	1	Dr.V.Vallinayagam	Mathematics in Real, Applied and Computational Domains	Sathyabama Institute of Science and Technology	Online	03-07- 2023	08-07- 2023
	2	Dr.H.Geetha					
	3	Dr.P.Agilan					
	4	Mr.S.Manikandaprabhu					
	5	Dr.V.Vallinayagam	National Intellectual Property Awareness Mission	Intellectual Property Office, Government of India	Online	26-07- 2023	26-07- 2023
	6	Dr.P.Agilan					
Publications(only published) details	1. S. Prabhu, M. Arulperumjothi , Juan Luis García Guirao, R. Muthucumaraswamy, V. Gayathri & M. R. Farahani (2023) On Counting Polynomials of Supercoronenes and Triangle-Shaped Discotic Graphene, Polycyclic Aromatic Compounds, DOI: 10.1080/10406638.2023.2232575, SCIE						

DEPARTMENT OF MECHANICAL ENGINEERING

Sl No	Name of the Activity	Remarks
1		<ul style="list-style-type: none"> ➤ Our Alumni Mr.Dhanushadhithyan.J, Benchmark Engineer, VALEO India Private Limited gave a alumni talk to the Final Year Students during 2-3PM on July 3,2023.
2		<ul style="list-style-type: none"> ➤ A program on AUTOCAD title, "CAD for Engineering Aspirants" was organized on 15th July 2023 at 6:00PM

St. JOSEPH'S COLLEGE OF ENGINEERING
St. Joseph's Group of Institutions
30th Anniversary
Department of Mechanical Engineering

CAD FOR ENGINEERING ASPIRANTS

15 July, 2023
10:00 AM

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- LinkedIn: sjsce

3

The poster features the St. Joseph's Group of Institutions logo at the top left, including a 30th anniversary emblem. Below it, the text reads 'DEPARTMENT OF MECHANICAL ENGINEERING'. The main title is 'GUEST LECTURE ON SCALING OF START-UPS: A BRIEF BUSINESS MODEL CANVAS'. The speaker is identified as 'MR. SRIRAM NAGARAJAN, FOUNDER & CEO, ROBORAM TECHNOLOGIES'. A circular inset image shows Mr. Sriram Nagarajan at a podium. The date and time are '24.07.2023 (Monday) 11.30 AM'. The venue is 'Hazel Hall, Placement Block, St. Joseph's College of Engineering'. At the bottom, the college's motto 'St. Joseph's College of Engineering YOU CHOOSE WE DO IT' and 'St. Joseph's Institute of Technology WE MAKE YOU SHINE' are displayed alongside the slogan 'The Choice of Disciplined Toppers'.

St. JOSEPH'S
GROUP OF INSTITUTIONS
OMD, CHENNAI - 119

DEPARTMENT OF MECHANICAL ENGINEERING

GUEST LECTURE ON
**SCALING OF START-UPS: A BRIEF
BUSINESS MODEL CANVAS**

MR. SRIRAM NAGARAJAN
FOUNDER & CEO
ROBORAM TECHNOLOGIES

DATE & VENUE

24.07.2023 (Monday)
11.30 AM

Hazel Hall
Placement Block
St. Joseph's College of Engineering

St. Joseph's College of Engineering
YOU CHOOSE WE DO IT

St. Joseph's Institute of Technology
WE MAKE YOU SHINE

*The Choice of
Disciplined Toppers*

- Guest Lecture on “Scaling of Start-UPS: A brief Business Model Canvas” was conducted on 24th July 2023, at Placement block by *Mr. Sriram Nagarajan*, Founder & CEO Roboram Technologies for the third and second year students.

4



The image displays promotional materials for the 'Mechmerize-2023' school program. On the left is a poster for the 'DEPARTMENT OF MECHANICAL ENGINEERING' event, featuring a chief guest, Dr. Krishna Kishore, and details for 11th and 12th students on July 31, 2023. In the center is a photograph of a large group of students gathered in an indoor auditorium. On the right is a banner with the school's motto, 'The Choice of Disciplined Toppers', and the date 'MONDAY 31ST JULY 2023'. The banner also includes the school's name and the slogan 'YOU CHOOSE, WE DO IT! WE MAKE YOU SHINE!'.

- A school program titled, "Mechmerize-2023" was organized for the 11th and 12th students on 31st July 2023.

DEPARTMENT OF SCIENCE

Sl. No.	Events	Remarks
1	FDP/Workshop/Conference	1. Dr. S. Kiruba, Dr. S. Rama, Dr. V. Swarnalatha, Dr. N.R. Rajagopalan, Dr. J. Sharmila, Ms. S. Savitha, Dr. T.L. Ajeesha attended National webinar on “3D Printing” conducted by “Sathyabama Inst.of technology - Chennai” held on 22.07.23.
2	Awards/Prize won by students / Staff	Reviewers: Dr. N.R. Rajagopalan has acted as reviewer for the following reputed journal. 1. Journal of New Developments in Chemistry– June 2023 (Acknowledgement received on July 2023)
3	Publications(only published) details	1. Dr. S. Suresh published a paper titled “Structural, and magnetic studies of a novel homemade spray pyrolysis synthesized Fe-doped CeO ₂ thin films” in the journal of “Chemical Physics Impact”, 7 (2023) 100274.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Sl. No.	Photographs Captured During Events	Corresponding remarks (Minimum 300 words)
1.	<p style="text-align: center;">Student workshop- III year</p>  <p style="text-align: center;"><i>Pic: Event photo</i></p>	<p>Date: 30/06/2023 &01/07/2023</p> <p>TOPIC: “Design of Solar Power Plant and Estimation of Energy using PVSYST”-2 days workshop</p> <p>By: Power Projects</p> <p>Conducted two days student workshop on solar power plant design. Students develop their abilities in the design and analysis of solar power plants using simulation tool.</p>
2.	<p style="text-align: center;">Student workshop- III year</p>  <p style="text-align: center;"><i>PIC: EVENT PHOTO</i></p>	<p>Date: 30/06/2023 &01/07/2023</p> <p>TOPIC: “FPGA controllers for Power Electronics” -2 days workshop</p> <p>By: SK Powercon Fabricators</p> <p>Workshop to gain knowledge in design of controllers for Power Electronics systems. Students gained knowledge in the development of controllers for PE systems</p>

3. Student workshop- III year



Pic: EVENT POSTER

Date: 30/06/2023 &01/07/2023

TOPIC: Internet of Things

By: Emcog Solutions

Conducted two days workshop to develop knowledge about the automation. Students gain their knowledge in the application of IoT in the electrical field.

4. Student workshop- III year



Pic: EVENT POSTER

Date: 30/06/2023 &01/07/2023

TOPIC: Electric Vehicle

By: Emcog Solutions

OBJECTIVE: To develop knowledge about EV Technology. Students gained their knowledge in the design of motors for EV Technology.

5. Industrial Visit



Our department organized Industrial Visit for III-year students MSME Technology Development Centre Pondicherry on 19/7/2023, 20/07/2023, 21/07/2023 .The main objective of this industrial visit is to learn about Service and funding provided by the MSME and training session were given to the students.

6. NGO Visit



Pic: Event Photo

Date: 01/07/2023

Visit to NGO

Visited orphanage and oldage home. Served food and entertained children and oldage people.

7. Club activity



PIC: EVENT POSTER

Our department electrical and electronics engineering's "**ROBOTICS CLUB**" organized an event "**ZEROBOT**" on 05/07/23. Around 58 students participated in the event with enthusiasm and acquired knowledge also the winners received merit certificates

8. Club activities



Our department electrical and electronics engineering's "**CHOPPERS CLUB**" organized an event "**TECHOVID**" on 06/07/23. Around 25 students participated in the event with keen interest and gained experience, also the winners received merit certificates.

PIC: EVENT POSTER

9. Club activities



PIC: EVENT POSTER

Our department electrical and electronics engineering's "ELECTRICAL CLUB" organized an event "THE PLUGGED" on 07/07/23. Around 14 students eagerly participated in the event and gained knowledge also the winners received merit certificates.

10. Club activities



Pic: EVENT POSTER

Our department electrical and electronics engineering's "ELECTRICAL CLUB" organized an event "ELEXCELLENCE" on 17/07/23. Around 33 students eagerly participated in the event and gained knowledge also the winners received merit certificates.

11. Club activities



PIC: EVENT POSTER

Our department electrical and electronics engineering's "ENSAV CLUB" organized an event "TECHNOVA" on 19/07/23. Around 42 students participated in the event with enthusiasm and acquired knowledge also the winners received merit certificates.

12. Club activities



PIC: EVENT POSTER

Our department electrical and electronics engineering's "SOCIAL AWARENESS CLUB" organized an event "FESTIN O BEATS" on 20/07/23. Around 48 participated in the event with keen interest also the winners received merit certificates.

13. ISTE activities



Pic: EVENT POSTER

Our department electrical and electronics engineering's St. Joseph's ISTE Student Chapter organized an event "BIZZY BOOGIE" on 14/07/23. Around 36 students eagerly participated in the event and gained knowledge also the winners received merit certificates.

14. ISTE activities



PIC: EVENT POSTER

Our department electrical and electronics engineering's **St. Joseph's ISTE Student Chapter** organized an event "**FLUXUS**" on 18/07/23. Around 31 students eagerly participated in the event and gained knowledge also the winners received merit certificates.


15. Webinar



PIC: EVENT POSTER

Date: 06/07/2023

The IEEE Photonics Society Of St. Joseph's College Of Engineering Conducted 'Optical Insights', a technical online mode webinar for 3rd and 4th year EEE students on July 06, 2023. The event aimed to inspire and motivate students to explore the field of photonics, mainly optical communication and foster collaboration among enthusiasts and featured a keynote address by Dr. Uma Kumari C.R, an Assistant Professor, Department of ECE at KCG College of Engineering, highlighting the current developments in optical communication and future prospects. The event saw the cumulative participation of 30 students over the Gmeet. The session was generally well received by the participants and was very informative. Participants were also allowed to interact with the speaker and got to resolve their queries regarding Communication Systems, problems in setting them up and how they can be overcome. E-Certificates were provided to all who participated in the event. The Student coordinators for this event were Sanjay S, Arisudan TH, Nithin Joel J, Srishakthi S R.

		<p>Harini S, Soundharya G, Abinesh G, Harish Goutham K U, Siva Malavan E S.</p>
<p>16. INDUSTRIAL VISIT</p>	 <p>Pic: EVENT PHOTO</p>	<p>The session was conducted by Larsen and Toubro Limited which was Organized by IEEE on July 24, 2023. The Students of the III & IV Year students from EEE and ECE department attended. During this session students acquired knowledge about current innovative technologies like smart systems, networking, data analysis, cyber security etc. In this session students were allowed to witness the smart city projects of L&T. A total of 40 Students attended this Event and 12 Staff accompanied the Students throughout the session. The Session was filled with more practical knowledge.</p>

17. GUEST LECTURE



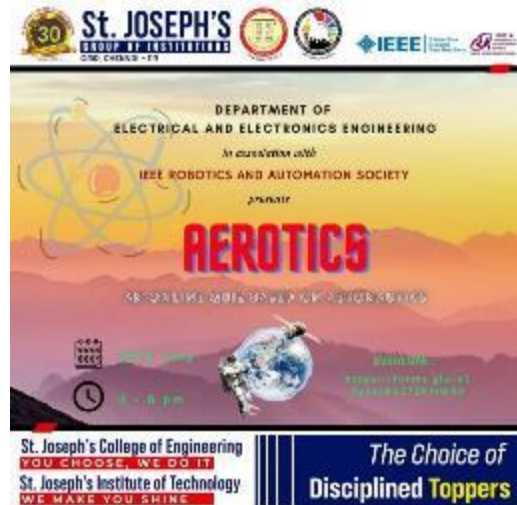
PIC: EVENT POSTER

IEEE power and energy society of St. Joseph's College of Engineering student branch chapter organized "A Guest Lecture", which was presented by Dr. R. SARATHI ,professor, IIT Madras on the topic of "DEVELOPMENT OF NANO COMPOSITE INSULATING MATERIALS FOR OUTDOOR APPLICATIONS". In this event over 300 participants take place. The event covered crucial ideas about nano materials and their Salient features for outdoor applications. from the event the students greatly benefited from the wisdom that was imparted by the speaker. It also pushed the students to take action towards the field and do more research in that.

18. IEEE activities

Date: 29/07/2023

Aerotics was organized by IEEE SJCE SBC under IEEE Robotics and Automation Society for the college students. The event was conducted in Google form. It is a amazing quiz event Conducted for students to make them to know about space, conducted on 29th July 2023. Over 17 students participated in it and are benefited. E-Certificates were distributed to the participants. Student Coordinators G.Aparnaa, R.Gokul



PIC: EVENT POSTER

Kumar, V.Rakshit Roshan, T.Sujitha coordinated the event with Mr. R. Sreekanth, IEEE SB Counselor."

19. IEEE activities



IEEE Women in Engineering (WIE) SJCE Student Branch organized a thought-provoking interview session titled "**Breaking the Silence - Empowering Women's Health and Wellness**" as part of the WIE Day Celebration 2023 for all the 3rd year students on 28th July, 2023 with 107 participants. **Dr. Shery Angel**, a distinguished **Obstetrics and Gynaecologist**, served as the main speaker, sharing her invaluable perspectives on various aspects of women's health. She shared her wonderful presentation emphasized the urgent need to break down barriers and misconceptions surrounding women's health. Her expertise highlighted the importance

PIC: EVENT POSTER

of early detection, prevention, and timely medical care to ensure the well-being of women across all stages of life .

20. IEEE activities



PIC: EVENT PIC

The “THE WAY TO SPARKLE” is a webinar session conducted by IEEE WIE Affinity group St. Joseph’s College of Engineering on 7th July 2023. A total of 70 Participants attended the session. The **Presenter -Mr. Samuel Jigme Harrison**, an IC Design Engineer with 13+ years of industry experience, graduated from St. Joseph's College of Engineering in 2008 and holds a master’s in integrated Circuit Design from Nanyang Technological University and Technical University of Munich. He worked at Avago Technologies, Broadcom Limited, and STMicroelectronics before joining ST Microelectronics in 2017. Samuel received a Technical Merit Award for his paper on security implementation and clock tree synthesis using ICC2. He holds 7 patents for IoT projects and has been a guest speaker at over 100 conferences and seminars. He started the session by explaining about the Security in the IoT world and answered all the questions posted from the participants. Finally, the speaker receives an E-memento

at the end of the webinar as a gratitude for sharing his perspective IoT World.

21. IEEE activities



PIC: EVENT POSTER

The IEEE Power and Energy Society of St. Joseph's College of Engineering hosted a virtual "ENIGMA" event. The event occurred on July 07, 2023 on the theme of "Power And Energy!!" Participant's knowledge is tested during the quiz event.. This event mainly focusses on the fundamental concepts in the field of physics .Winners are chosen based on the number of correct answers they provide. Winners and participants will receive E-certificates.

22. IEEE activities



PIC: EVENT POSTER

Date: 28/07/2023

IEEE Spectrum, is the world's largest professional organisation devoted to engineering and the applied sciences. It contains peer-reviewed feature articles pertaining to technology and science trends affecting business and society. This spectrum was conducted to enlighten the young minds and some skillful knowledge out of it. The speaker Mr. Dhyaneshwar E spoke on the "Floating Wind Farms Aim for Open Ocean". The speaker enlightened us with the idea that "Scientists at Cardiff University, in Wales, have discovered a way to accurately predict the occurrence of [Parkinson's disease](#) years before clinical symptoms show up by analyzing motion data available from common smartwatches. They showed that a type of [machine learning](#) trained on wrist-worn accelerometer data was able to accurately determine Parkinson's risk up to seven years prior to clinical diagnosis." The participants had an amazing experience in the meet and enjoyed the entire session.

23. IEEE activities

"Envizaage'23", hosted by our IEEE Student Branch Chapter of St. Joseph's college of Engineering on 6th July 2023 with 100+ students from St. Mary's Anglo Indian higher secondary School, Velammal Vidhyashram and Don Bosco, Chennai. It was a remarkable exhibition for school students, encompassing many knowledge about E-vehicles, IoT, Solar energy efficiency and Embedded systems, also the number of renewable sources of energy present in the current periods were included.



PIC: EVENT POSTER and PHOTO

The event provided an interactive platform for students to learn about cutting-edge technologies and participate in various engaging activities. It was a resounding success, fostering curiosity and knowledge exchange among the participants.

24. Placement club activities

Date: 06/07/2023

Communication Club Training

Conducted Screening test to all final Year students.

Objectives: Identify the strength and weakness of the students

Carried out Group discussion to all the students by segregating students into 10 batches



PIC: EVENT POSTER

25. Placement club activities



Date: 07/07/2023

Title: Placement club training
Bright Byte Coders Club

Given hands on session on Pointers, looping, Operators, Structures and Union, Functions and Recursion.

Objectives: To improve the coding skills of the students

PIC: EVENT POSTER

26. Placement club activities



PIC: EVENT POSTER

Electric Kernal Club

07/07/2023

Core Club Training

Explanation given on fundamental concepts for core company placements.

27. Placement club activities



PIC: EVENT POSTER

Date: 18/07/2023

Title: Placement club training

Bright Byte Coders Club

Given hands on session on Pointers, looping, Operators, Structures and Union, Functions and Recursion.

Objectives: To improve the coding skills of the students

28. Placement club activities



Electric Kernal Club

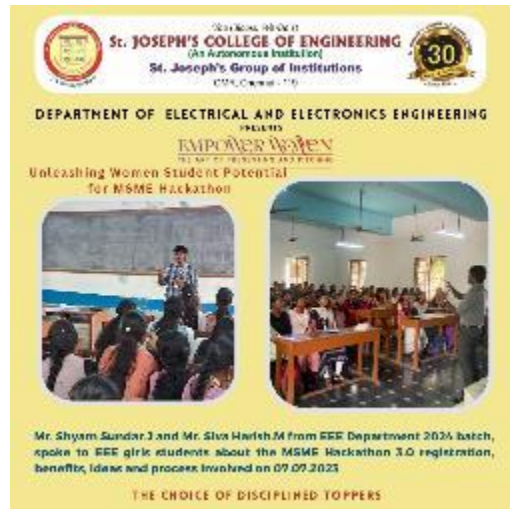
21/07/2023

Core Club Training

Explanation given on fundamental concepts for core company placements

PIC: EVENT POSTER

29.



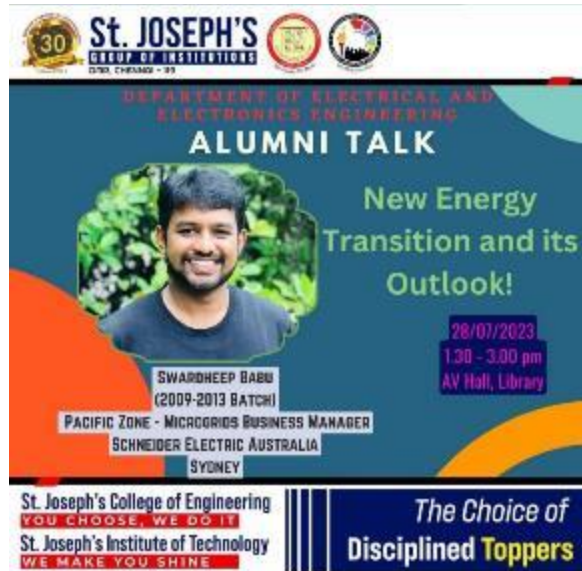
PIC: EVENT POSTER

Date: 07-07-2023

Title: Empower Women-the art of presenting and pitching

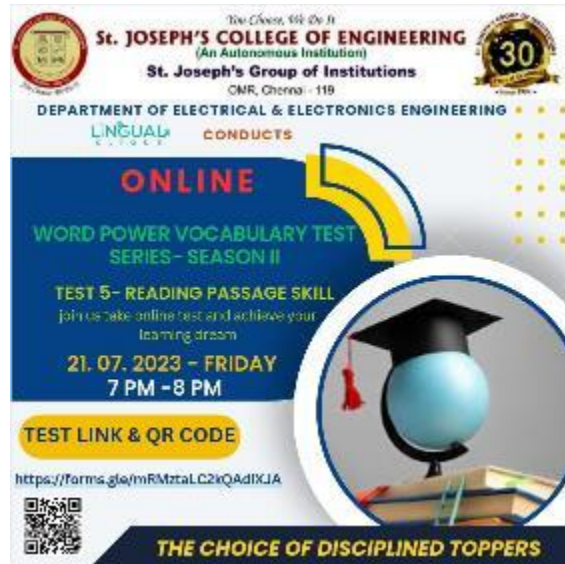
Explained about the MSME hackathon 3.0 registration, benefits, ideas and process involved

<p>30.</p>	<p>ALUMNI TALK</p>  <p>PIC: EVENT POSTER</p>	<p>Date: 19/07/2023</p> <p>TITLE: Building the future</p> <p>By: Mr.Boobesh raj</p> <p>Career in Embedded systems applications, Digital camera applications.</p>
<p>31.</p>	<p>ALUMNI TALK</p>	<p>Date: 28/07/2023</p> <p>TITLE: New energy transition and its outlook</p> <p>By: Mr. SWARDHEEP BABU</p> <p>RENEWABLE ENERGY SOURCES AND ITS ADVANTAGES. INSIGHT INTO ENERGY AND ITS FUTURE.</p>



PIC: EVENT POSTER

32.



PIC: EVENT POSTER

Date: 21/07/2023 & 28/07/2023

Title: ENGLISH VOCABULARY TEST SERIES-II

Objective: Students get some insight about preparing for Higher studies competitive exams such as TOEFL, IELTS,GRE, etc.

Online tests are conducted to make students aware of some English vocabulary parts which are important in preparing for competitive exams for doing higher studies in India and abroad.

33.



PIC: EVENT POSTER

Date: 06/07/2023; 02:20 to 03:00 pm

To motivate the students to take part in various competitions and to do well in skillrack

Suggested to improve their performance and to prepare well for model exam.

34.	FDP for the month of July 2023	<p>Dr.T.V.Narmadha, Dr.M.Ramesh Babu, Dr.V.Chamundesswari, Dr.N.Chidambararaj, Mr.K.Aravindhhan</p> <p>Attended 2 weeks national level virtual workshop on “ Advanced Research methodology” at SRM Science and Technology from 3.7.2023 to 18.7.2023</p> <p>Dr.M.Venmathi, Dr.M.Anitha, Ms.R.G.Nirmala, Mr.S.Nishant, Mr.R.Siddhardhan</p> <p>Attended 5 days FDP titled “Future trends and advances in Electrical Engineering” at Aditya Engineering College</p> <p>From 05.07.2023 to 09.07.2023</p> <p>Dr.P.Velmurugan, Dr.S.Sridharan</p> <p>Attended 30 days STTP on Masterclass on Electric Vehicle at Pantech e Learning Pvt LTd, Chennai from 28.06.2023 to 28.07.2023</p> <p>Mr.C.Venkatesh Kumar, Mr.T.Sriananda Ganesh</p> <p>Attended 6 days national level FDP titled “Role of Electric Vehicle in Shaping Sustainable Transportation Systems “ from 3.7.2023 to 8.7.2023 at Satyabhama institute of science and technology</p> <p>Mr.T.Sriananda Ganesh</p> <p>Attended International FDP Cum Short Term Course on Current Advancements in Electric and Hybrid Vehicle Technology: Opportunities and Challenge from 8 th July -14 th July 2023, Amity University Lucknow Campus</p> <p>Ms.C.Ramadevi</p> <p>Attended a 2 weeks international FDP on Research Tools at Easwari Engineering College 3.07.2023 to 14.07.2023</p>
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35.	Faculty awards and recognitions	<p>Dr.M.Venmathi</p> <p>Reviewed 1 paper 4th international conference on frontier in computer & Electronics Engineering & nano technology (ICF-CEET)</p> <p>Reviewed 1 paper in Hindawi (SCI)</p> <p>Dr.P.Anbarasan</p> <p>Reviewed 1 Paper in Bullentin of Electrical Engineering And Informatics (Scopus Journal)</p> <p>Reviewed 1 paper Circuit world (SCI)</p> <p>Mr.R.Sreekanth</p> <p>Acted as Resource person IEEE Madras Section Young Professionals presents IEEE MADRAS YP MEETUP-Young Professionals Panel discussion at Klase Hotel(Guindy) on 29,07.2023</p> <p>Mr.V.Balasubramanian</p> <p>Acted as a Resource person in 6 days national level FDP titled “Role of Electric Vehicle in Shaping Sustainable Transportation Systems “ from 3.7.2023 to 8.7.2023 at Satyabhama institute of science and technology</p>
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36.

**PLACEMENT DETAILS FOR
THE MONTH OF JULY 2023**

2020-2024 Batch

Total No of students placed = 6 Students

Total No of Offers = 7 Offers

No of students having single offers = 6

No of students having Double offers = 1

No of students having Triple offers =

No of students having Quadruple offers =

DEPARTMENT OF MBA

FACULTY PUBLICATION:	<p>Ms.A.Ammupriuya has published a paper on “ A STUDY OF HUMAN RESOURCE DIGITAL TRANSFORMATION (HRDT) A PHENOMENON OF HR INNOVATION AND CHALLENGES ” in Humanities and Social Science Studies, Vol. 12, Issue 2, No. 22, July – December: 2 2023. ISSN 2319-829X</p> <p>Dr. Subalya S has published a paper on” EXPLORING THE SYNERGISTIC EFFECTS OF CSR AND ENVIRONMENTAL SUSTAINABILITY IN CHENNAI'S MANUFACTURING SPHERE: A LITERATURE REVIEW” in Humanities and Social Science Studies, Vol. 12, Issue 2, No. 22, July – December: 2023, ISSN 2319-829X</p>			
STUDENTS ACHIEVEMENTS:	Students Name	Events	Institution	Prize
	Jabin Samson Raj M	Ops Immortals	SJIT	Rs.1000
	Merlin Maria Anto M	Trade Brigade	SJIT	Rs.1000
	Vaikundamani Govindarajan	Paper presentation	SRM University	Rs.1000

INDUSTRIAL VISIT - I



The industrial visit for the IIIrd year MBA Integrated students was destined to be at “Thirumala Milk Products Pvt. Ltd” on 17.07.2023. It is a dairy product manufacturing unit which is located in Madhurathagam, Chennai. The visit sums up to about 30 students along with the two faculty members Dr. S.P. Karrupiah and Dr.G. Nirmala. The students and staff had departed from the college around 08:30 a.m. and reached the industry in about 11:00 a.m.

The students were first advised about the mandatory safety precaution about wearing headcaps and coats as a regulation of the industry. Then, the instructor briefed about the various safety certification such as FSSAI certification, FSSAC 22000, Halal certification which is to ensure about the quality standards of the industry products. Further into the production unit, they showed us through the collection and pasteurization process of the various products they are producing which includes majorly milk, curd, yogurt, butter, etc.,

INDUSTRIAL VISIT - II



The industrial visit for the II year MBA students was destined to be at “The Times Of India” on 28.07.2023. Times of India, is an Indian English-language daily newspaper and digital news media owned and managed by The Times Group, which is located in Sholinganallur, Chennai. The visit sums up to about 35 students along with the two faculty members Dr. S. Ajit and Dr. R. S. Lekshmi . The students and staff had departed from the college around 2:15p.m. and reached the industry around 2:30p.m.

students saw the newspapers being printed and how bundles are packaged for delivery, and visited the machine area and the dispatch area, where about 200-300 vehicles are parked to take the newspapers for delivery to various different places.

The students have reached the college premises around 04:30 in the afternoon. The students felt greatly enlighten and knowledgeable after the insightful session in the industry. It details about the operation processing process and majorly on the quality standards carried out in the industry circle.

FACULTY AWARDS / RECOGNITIONS:



Dr.R.S.Lekshmi has received a Research Excellence Award from Scientific International Publishing House.

**WORKSHOP/FDP/STTP/CONFERENCE /
SEMINAR ATTENDED BY FACULTY:**



Dr.G.Nirmala has participated a Virtual Workshop On Self Care For Educators on 06.07.2023 organised by SRM University, Ramapuram, Chennai.