



RAJALAKSHMI ENGINEERING COLLEGE

An AUTONOMOUS Institution
Affiliated to ANNA UNIVERSITY, Chennai

Minutes of the IQAC Meeting 25th February, 2023 - 10.00 a.m Venue : Board Room

Members of IQAC :

Name	Designation	
Dr. S. N. Murugesan	Principal	<i>S. N. Murugesan</i> 25/2/23
Dr. M. Subbiah	Emeritus Professor, EEE	<i>M. Subbiah</i>
Dr. V. Murali Bhaskaran	Dean Academics	<i>V. Murali Bhaskaran</i>
Dr. Johanna Rajkumar	Dean, BioTechnology	<i>Johanna Rajkumar</i>
Dr. M. Muthusamy	Controller of Examinations	<i>M. Muthusamy</i>
Mr. I. Philip Praveen	Director - T&P and Dean-Student Affairs	<i>I. Philip Praveen</i>
Dr. L. Sujatha	Head - CEMM, Professor ECE	<i>L. Sujatha</i>
Dr. S. Poonkuzhali	Director (Alumni Affairs)	<i>S. Poonkuzhali</i>
Dr. S.P.Srinivasan	Dean - Mechanical Sciences	<i>S.P.Srinivasan</i>
Dr.G.Geetha	Dean - Innovations Professor, IT	<i>G. Geetha</i> 25/2/23
Dr. K. Bhaskar	Publications Committee - Coordinator Professor & HoD - Automobile Engineering	<i>K. Bhaskar</i> 25/2/23

S. N. Murugesan

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Dr. L. Priya	Industry Institute Interaction Cell - Coordinator Professor - Information Technology	<i>[Signature]</i>
Mr.S.Hariram	Assistant Professor - Mechanical Engineering Feedback analysis committee - Coordinator	<i>S. Hariram</i>
Dr. R. Kalpana	Library Advisory Committee - Coordinator Professor & Dean - Biomedical Engineering	<i>[Signature]</i>
Mrs. Sujatha Narayanan	Psychological Counsellor	<i>[Signature]</i>
Mrs. Deborah Sharon. S	Assistant Professor, MBA	<i>S. Deborah Sharon</i>
Mrs. P. Magila	Senior Administrative Officer	<i>P. Magila</i>
Mr. B. R. Gopi	IT Manager	<i>[Signature]</i>
Mr. Sundaravadivel Purushothaman	Principal Director Supply Chain Strategy Consulting Accenture Solutions Pvt Ltd.,	<i>[Signature]</i>
Mr. C. Devarajan	General Manager - TS Ford India Ltd.,	<i>[Signature]</i> 25/02
Dr. Sivaramakrishnan. K	Director & Chief Executive Officer Taoka Chemical India Pvt Ltd., (Subsidiary of MNC Taoka Chemical Company Ltd., Osaka, Japan)	<i>[Signature]</i> 25/02
Jayakanthan. M	Tahsildar, Sriperumbudur taluk	
Mrs. Rasmi	Parent of Ms.Sneha of III BT	
Mr. Deepak V M	Alumni 2012-16 Batch (B.E Civil)	
Mr. S. Arun Karthick	Manager, Daimler India Pvt. Ltd., Chennai Alumni 2012 - 2016 Batch (B.E Mechanical Engg)	
Mr. Jeyavikraman	Project Lead, AeroDesign Division, Cyient, Bangalore Alumni 2005-2009 (B.E Aeronautical Engg)	

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Mr. Sachin Aravind S	Senior Consultant Hitachi Solutions India Pvt. Ltd. Alumni 2013-2017 Batch (B.Tech IT)	
S.Anjana	Student Representative - CSBS	
KVR Badrinarayanan	Student Representative - EEE	
Vishal Singh.G J	Student Representative - Auto	
Dr. V. Prasannakumari	Professor, IT & IQAC Coordinator	

Actions taken on suggestions of previous meeting:

<u>S. No.</u>	<u>Agenda Point</u>	<u>Activity details</u>	<u>Target</u>	<u>Progress</u>
1	Internship	Average number of days and quality will be enhanced in the forthcoming year	Average to be raised to 20 days per student Achieving 100% student to take up internship	100% internship achieved in many departments. Working on raising the duration to 20 days
2	Publications	Publications forum will motivate and guide faculty to publish more and in high quality journals which are Scopus/SCI indexed	Publications in Scopus/SCI target will be increased to 2 per faculty per year	251 Scopus indexed publications out of total publications of 355. 75 books / book chapters are published
3	Consultancy	IIIC will continue to guide faculty and will reach maximum number of companies to identify scope for offering consultancy services		In 2022: Completed projects - 10 and Ongoing projects - 5 Companies contacted: Projects in progress: 10
4	Lecture Capturing	65 classrooms are now equipped with Impart	Usage by students and faculty will be	Coordinators are nominated and are being

	System	Lecture Capturing System. All lectures are uploaded and is available for students' use at any time	monitored and analysed	monitored.
5	Centres of Excellence	Hands-on Workshops for students and faculty to be conducted using the facilities available. Students to be motivated to do their projects in these centres	HoDs will organise atleast one workshop for faculty and students Student projects using facilities in CoEs to be increased	All CoEs have organised training programmes for students and faculty. Totally 53 hands on workshops and 126 student projects have been done in CoEs
6	IPR	Internal IPR committee will identify teams and motivate them to participate in national & International competitions such as SIH, iGEM etc.,	Maximum number of teams to participate in all possible technical competitions	Our student teams have participated in 30+ technical project/product competitions and won many prizes Recent accolades in Social Hackathon conducted by IISc and iGEM
7	Student Projects	Departments are advised to choose good projects with outcomes which can be published / patented	All student project works to be published as journal articles. Atleast 1 patent from each section of departments based on student projects	16 patents awarded & 100 more in various stages of scrutiny
8	Patents	Internal IPR committee will guide faculty and students in filing patents	IPR committee and HoDs to work towards filing and securing individual targets discussed in All-Faculty Orientation Programme	Many seminars and FDPs are conducted to create awareness on IPR and process of patent filing

S. V. Murali

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Suggestions from Members			
9	Joint Publications with MoUs signed companies	2 papers in last six months	Will target to have atleast one publication with each organisation with whom we have signed MoUs
10	Students involved in consultancy works can share and inspire junior students	Formal and informal sessions were organised	Number of students involving in consultancy projects will be doubled this semester
11	Knowledge Management software with search capabilities can be procured to create a resource pool of projects and other knowledge documents	Process of comparing alternatives is in progress.	Will be submitted to management for sanction soon.

Proposed Plans for next semester :

<u>S.No.</u>	<u>Agenda Point</u>	<u>Activity details</u>	<u>Target</u>
1	Valuation of End Sem Answer Scripts	Revaluation option opened up for those who wish to represent and get photocopy of their answer scripts.	Efficacy of revaluation will be analysed and reviewed by the end of semester.
2	Preparation for NAAC	College is getting ready for NAAC Inspection scheduled on April 5 & 6. Mock Audits planned from 15 th of March 2023	Suggestions & Recommendations of Audits will be taken up for improvement
3	Autonomous renewal	Preparations to apply for renewal of Autonomous status post NAAC	

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		accreditation is in progress	
4	Strategic Plan 2023-28	<p>A committee is formed and the work is initiated</p> <ul style="list-style-type: none"> ● Revise targets that has already been achieved ● Revise plans to achieve targets that has not been achieved yet ● Review over ambitious targets and set realistic targets 	Committee to submit finalised strategic plan by June 2023
5	Regulation 2023	All departments are working in bringing out revised curriculum for the programmes offered along with regulations 2023. Minor & Honors Degree option opened out.	HoDs & Dean Academics will finalise and get approvals from BoS and Academic Council before June 2023
6	Publications	Faculty and students have to be encouraged and supported to publish more papers in high impact indexed journals	<p>Each faculty will have to publish 2 in Scopus.</p> <p>Workshops / FDP can be conducted to guide and facilitate publishing</p>
7	Summer Internships through Centers of Excellence (CoE)	Summer intern programmes to be planned for students by each CoE	HoDs to plan and share details of summer intern programmes
8	First year	To bridge the lag for the first years due to delayed commencement, 6 Working days per week will be followed	

S. N. Prasad

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9	New block	A new block with proposed Idea Lab, Seminar Halls, activity space for Co-curricular programmes in being constructed – 30,000 sq feet	Expected to be ready by mid-March 2023 for use
10	ICT, LCS & Panel	Classrooms are enhanced with ICT facilities as below Impartus LCS – 65 Smart Panels – 50	Usage of ICT will be analysed and reviewed by nominated coordinators
11	Capacity building for faculty in emerging areas of newly offered courses	Upskilling programmes for newly offered specialisations are to be conducted to enhance the expertise of faculty in emerging areas	HoDs to plan and share details of upskilling training programmes to be conducted

College Achievements:

- REC was recognised as a **NPTEL Local Chapter with maximum number of Domain Scholars** for July-December 2022. We have got 'AA' Certificate and 42nd rank out of 5282 colleges from all over India.
- **Grand Alumni Reunion** was conducted on 21st January 2023 – SILVER JUBILEE CELEBRATION @ REC Campus from 2:00 p.m REC Alumni Association (RECAL) honoured the Distinguished Alumnus with Awards in the categories Entrepreneur, Industry, Teaching, Researcher, Social activist and Spotlight. Alumni Office bearers were selected and sworn in.
- Department of Biotechnology received “Academic & Research Excellence Award - 2022” from AntiViral Research Society for the exemplary initiatives in the field of education & research on Dec 01, 2022.
-

Patents (till 14.2.2023):

- Filed : 58 patents
- Published : 50
- Granted : 16 patents (4 Indian patent, 5 Australian patent, 1 German patent and 6 Design patent) and 1 copyright

Research Funding

- REC received a AICTE – IDEA LAB Project worth Rs.110 lakhs with Dr.K.Bhaskar as Coordinator along with Dr. M. Palanivelan HOD/ECE (co-coordinator) in the month of December 2022

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- Grand-in-aid sanctioned by AICTE under the scheme "Skill and Personality Development for SC/ST Students for a sum of Rs.21,08,824/- Though the project got sanctioned in 2017, the second instalment is received only in 2022.
- Dr. B. Mullaisudaroli received a grant of Rs. 42.66 Lakhs from SERB for the project titled "Design and Development of 1 kW Fuel Cell Stack for Low Power Applications"

Consultancy:

- Dr. Surendra Bogadi has provided project assistance to a PhD researcher from SRM (deemed) university, titled subsonic and sonic jet noise from pipe jets. The objective of the project is to document noise levels experienced pipe jets of various cross sections at different inlet total pressure conditions.
- Dr. K. Bhaskar and Mr P.Pavan completed a consultancy work on work holding devices for checking the brake pistons for M/s. Super Auto Forge worth Rs. 40,000/- in the month of Dec 2022
- Dr. K. Bhaskar and Mr. P. Pavan completed a consultancy work for mechanical structure for machine vision based quality checking of agricultural products for M/s. Waycool food products pvt ltd. worth Rs. 20,000/-
- Dr. K. Bhaskar and Mr. P. Pavan designed and erected a Solar panel on electric two wheeler along with EEE Department
- Microbiological testing on raw material, water and Paint sample was done for Nippon Paints pvt Limited, Sriperumbudur by Department of Biotechnology.
- Mrs. S. Muthulakshmi Carried out consultancy work in soil mechanics laboratory for PWD, Chepauk for the work of restoration & protection of Malaipattu Somangalam Surplus Drain of Adyar River for an amount of Rs. 12,000/-
- Department of Food Technology, Rajalakshmi Engineering College was sanctioned a Consultancy Project titled "Development of Ready to Drink Coconut Neera from The Neera Concentrate Through Vending Machine" for an amount of Rs. 7.48 Lakhs from DeeJay Agro Processed Foods Pvt Ltd, Bangalore on 1st September 2022; PI – Dr. K. Ramalakshmi, Team Members – Ms. A. Srimagal and Ms. S. Hemamalini
- S B Ron Carter has done project for MATLAB School on VVVF (Variable Voltage Variable Frequency) control of PMSM using PID and Fuzzy Logic Controller in MATLAB Simulink from 24/10/2022 to 27/10/2022 for Rs.3000
- Dr.P.Sivakumar has done project for EDUCARE SOLUTIONS on PV Emulator program with GUI deployment on 8-8-2022 for Rs.5000
- Dr.P.Sivakumar has done project for Prime Tech Instruments,Coimbatore on Renewable energy-based products demonstrations, control & implementation of special functions through an embedded coder on 03.09.2022 for Rs.5000

Symposium / Conference conducted:

- A National Level Technical Symposium "TURBO-23" with a grand "Auto EXPO" was conducted by Department of Automobile Engineering on 28th January 2023.
- Department of Food Technology in association with AFSTI Chennai Chapter and Institution Innovation Council "AVRDC 2k22 - International Conference on -Emerging Technologies for Sustainable Food Industry" on 28th and 29th October 2022.

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S. N. Suresh



- Design Summit 2023 Technical Symposium Conducted by IT Department on 17.11.23 in association with ELITE Club

Guest Lectures / Workshops organized:

- **Guest Lectures: 28**
- **Workshops: 31**

- SAE STUDENT CONVENTION TIER I was conducted on 7/2/2023. A total of 25 students participated in various competitions in event and secured prizes
- Team of iGEM REC-CHENNAI 2022, Department of Biotechnology organised an event "WAVE OF IDEAS" , a fun filled and informative awareness program about Heavy Metals at Elliot's Beach by setting an informative kiosk on August 28,2022
- One day Workshop on Mushroom Cultivation in collaboration with TNAU (Chennai Centre) conducted for the students and Faculty of Biotech department on Oct 07,2022.
- The department of ECE in association with Designers Consortium organized Design A Thon 2022, product design contest on 04.11.2022 at Main Seminar Hall,Workshop Block,REC
- The Departments of Food Technology and Biotechnology, Rajalakshmi Engineering College, Chennai in association with Food Safety Department, Kanchipuram and AFST (I) Chennai chapter organized Exhibition cum Competition on the topic "Eat Right Millet Mela-2023" at Indoor Auditorium, REC on 25th January 2023

Students Achievements

- Vishal S from II year obtained a DGCA approved pilot licence for medial UAV on September 2022
- Santhosh Raajaa SS and, Mr. Vignesh Kumar S (2018-22 batch) have been awarded the first prize for the Project titled" Autonomous Drone Docking for E-Aviation Vehicle Charging" which you submitted and presented in the project competition conducted by Aero Society of India, Chennai branch on 07-01-2023.
- Naresh kumar T and Nilesh kumar k (2018-22 batch) have been awarded the third prize for the Project titled" Design and development of hexacopter with cutter arm embedded with IOT for coconut harvesting" which you submitted and presented in the project competition conducted by Aero Society of India, Chennai branch on 07-01-2023.
- CHANDRAKANTH A , ARUL SATHYA R , NITHIISH V K,HARINATH B, KRISHNA KIREETI T OF III year AIML won First prize of Rs. 1,00,000in iTech Hackfest conducted by PSG Institute of Technology and Applied Research on 27.08.2022
- HARISHNANDHAN , HARSHINI & ABHISHEK OF III year AIML won FIFTH place iTech Hackfest conducted by PSG Institute of Technology and Applied Research on 27.08.2022
- PRADEEPTA G, SHIVARAJ, SUNIL KUMAR R, YOKESH BHARATHWAJ J OF III year AIML won First prize in Social Hackathon conducted by IEEE, at IISC Bangalore
- SENDHAN A & VIGNYA SAGAR P V OF III year AIML won Third prize in Social Hackathon conducted by IEEE, at IISC Bangalore



- CHANDRAKANTH.A of 3rd year AI&ML has secured TOPPER 5% in NPTEL COURSE 'STATISTICAL LEARNING FOR RELIABILITY ANALYSIS'
- Abdur Rahman Jalwathi .M, Yuvanesh.S, III Auto got first prize, Gagan.D, Ganesh.S, Gokul.R, III Auto got second prize, Arunraja G.R, Premkumar.M,Rahulprasad.P, II Auto got third prize in IPC 2023 in Department level on 10.2.2022
- Team Dark, E-bike developers from III year Automobile Engineering Department secured TOP SCORE in the Pre-Virtual Round out of 41 teams participated on 16/12/2022. This event was conducted as a part of National level competition SIEP E-BIKE CHALLENGE 2022-23 by ISIE India
- iGEM Grand Jamboree event was held on 26th - 28th Oct ,2022 at Paris ,France. BT-REC team bagged the GOLD MEDAL and the "BEST ENVIRONMENT PROJECT" ["Curlim" - Bioremediation of industrial waste water by using genetically engineered *E. coli*.]
- Vignesh M J and Santhosh Kumar m, IV Civil, won Technical Connections at St.Joseph's College of Engineering, Chennai on 17.09.22
- Sudharsan E, Aarthi G, Vishnu Priya U, Siva Bala Gavaskar S and Sushin J, IV Civil won third prize in Code Cracking at St.Joseph's College of Engineering, Chennai on 17.09.22
- Akash M, Loshini S and Dheen Su, IV Civil won second place in Seek N Sieve at Jerusalem College of Engineering, Chennai on 5.11.22
- Amitesh Maadhav K S and Dheen SU, IV Civil won first place in Paper Presentation at Jerusalem College of Engineering, Chennai on 5.11.22
- Amitesh Maadhav K S and Akash M, IV Civil won second place in Clue Pangas Cross Word at Jerusalem College of Engineering, Chennai on 5.11.22
- Amitesh Maadhav K S, Akash M, Dheen SU, Vignesh M J and Loshini S, IV Civil won second place in Pre-Po Poster at Jerusalem College of Engineering, Chennai on 5.11.22
- Mr.Gowtham K, and Mr. Ganesh Kumar C of III ECE B Secured First Place with a cash prize of Rs.4000 in Trump the Aces event in the symposium INVENTE'22 conducted by Sri Sivasubramaniya Nadar College of Engineering on 01.12.2022.
- Ms. Deepthi, Ms Soniya, Ms. Ubendra and Mr. VijayaRam of III ECE D participated in the technical event 'QUAD KEDAR' and won the First place in the Symposium - Upagraha, conducted by Sri Venkateshwara College of Engineering held on 02/11/2022.
- Mr. R. Siva Saravana Selvam., Mr. Venkata Prasath, Mr. Subash Sathya of III ECE D for securing the second place in "Mini hackathon" technical event in symposium conducted by Sri Venkateshwara Engineering College on 1.11.2022
- Mr.Santhosh kumar.R,Mr.Sathyanarayanan S K,Mr.Puspha kumar.J,Mr.Chandra Mohan.S of III ECE C for securing first place in the Project Expo,technical event in the symposium 'UPAGRAGHA' conducted by Sri venkateshwara College of Engineering on 01.11.2022

- Ms.Vijayasri V.S of III ECE D for securing second place with a cash award of Rs.750 in the Paper Presentation,technical event in symposium conducted by Sairam Institute of Technology on 7.11.2022
- Mr.Karthikeyan.R, Mr.Karthikeyan.S, Ms.Konduru Chandana of III ECE B for securing first place with a cash prize of Rs.1000 in the TECHNO-PHILE and CIRCUIT DEBUGGING event in the symposium 'Hon-E-Ken' conducted by RMK Engineering College on 14.11.2022.
- Mr.Akash.A of II ECE -A has won 3rd place in the event "No Plagiarism" at the National level technical symposium conducted by R.M.D Engineering College on 14.11.22
- Mr.Vinay Kumar.G of III ECE D for securing first place in the "CEO IN THE HOUSE" technical event in the REVOTRONICS 22 symposium conducted by the Department of ECE, Rajalakshmi engineering college on 5.11.2022.
- Mr. Sanjay Kumar A, Mr. Sanjai Nagaraaja M and Mr. Parthiban K has been awarded as the best project in SOCIAL RELEVANCE in "DESIGN-A-THON 2022" conducted by the Designers Consortium of REC in association with Department of ECE, Rajalakshmi engineering college on 04.11.2022.
- Mr. SUDHARSON.S, Mr. SURESH.M, Mr. VISHWANATHAN.S of III ECE D for securing first place in the "DESIGN-A-THON 2022" conducted by the Designers Consortium of REC in association with Department of ECE, Rajalakshmi engineering college on 4.11.2022.
- Mr.Surendar V, Mr.Lalin Prasad C, Mr.Yuvanesh, Naveen KS of III ECE D for securing the "MOST COMMODIOUS SOLUTION" in DESIGN-A-THON 2022 conducted by the Designers Consortium of REC in association with Department of ECE, Rajalakshmi engineering college on 04.11.2022.
- Mr.Balachandar, Mr.Akash.A and Mr.Aravindan.J of II ECE -A secured 2nd place in the event "Code Hybrid" at the National level technical symposium conducted by R.M.D Engineering College on 14.11.22.
- Mr. Nikhil Krishna.B, Mr. Mukundan.S, of III ECE C for securing second place with a cash prize of Rs.1000 in the ELECTROFIZZ event in the symposium CREOISTA 4.0 conducted by Sri Sairam Engineering College on 15.11.2022
- Mr. Santhosh kumar.R, Mr. Puspha kumar.J, Mr. Sathyanarayanan.S.K of third year ECE C section has won the third position in national level Project competition "SHAMROCK 22" held at Sri Sairam Engineering College,Chennai on 07/10/22.
- Ms.Noor Jesima G of third year ECE C section has won the first position in Mock interview of national level Technical Symposium "SLICE V22" held at Loyola Engineering College,Chennai on 08/10/22.
- Ms.Malavika.R, Ms.Noor Jesima.G, Mr.Pratheesh R S of third year ECE C section who has won the Second position in the event Sum it up of national level Technical Symposium "SLICE V22" held at Loyola Engineering College,Chennai on 08/10/22.
- Mr. Venkatesh G, Mr. Thiyaneshwaran M R, Mr. Theeraj S of third year ECE D section has won the third position in national level Technical Symposium "SLICE V22" and cash price of ₹1000 in national level Technical Symposium "SLICE V22" held at St Joseph College of Engineering, OMR on 08/10/22

- Ms Trisha Venkatesh, Ms. Vidhya Sri S and Ms. Trisha Thiagarajan of third ECE D has won the prizes in two technical events 'THOUGHT STRAPPING' 'MORPHEME' with cash price of ₹1000 and ₹2000 which is organized by the ECE department of St. Joseph College of Engineering in National level Symposium 'JETSIGNUM' 'GENERA' on 08/10/22.
- Mr. Thiyaku S, Mr Suryanarayan N, Mr. Syed Abdul Saleem K of third year ECE D has won prizes in three events of the technical event 'CODEX' 'DIGITRIX' 'MORPHEME' with cash prices of ₹250 , ₹1000 and ₹3000 at St. Joseph College of Engineering in National level Symposium 'JETSIGNUM' 'GENERA' conducted on 08/10/22.
- Mr DURAIARASU E, Mr.HARIKARTHIKEYAN A & Mr.HARISH RAGAVENDHAR SK of III ECE B has secured 2nd position in the technical event 'Digitrix' conducted in national level symposium 'JETSIGNUM' held at St. Joseph College of Engineering, OMR on 08/10/22.
- Ms. Aishwarye K of III ECE A for winning Dr. Kalam young achiever award 2022 in the project completion held at Anna University, Guindy on 01.10.22 & received a cash prize of Rs. 10,000/ on 15/10/22.
- Mr. Kirtik Soni and Ms Karthikaa K of 3rd year ECE B represented Rajalakshmi engineering college in the 2 day entrepreneur leader workshop between 14/10/22 & 15/10/22 at Anna University, organized by EDI under the direction of the government of Tamil Nadu.
- Mr.Santhosh kumar R and Mr.Sathyanarayanan S K of III ECE C for securing first place in the project competition "THE IDEA EXPLORER" held at SRM Institute of Science and Technology, Ramapuram on 27.10.22
- R.Kanish of IV ECE B has successfully completed the circuit simulation of "FET based Master Slave Negative Edge Triggered Flip-flop using sky130pdk" under eSim Circuit Simulation Project by IIT Bombay.
- The department of ECE Congratulates Ms.Deepthi P A of III ECE D for securing the First place in the "TALK O'CLOCK" Speaking Contest conducted by The Leo Club of our college on 29.10.22
- Parthiban. K III ECE - Winner in Rec Programming Contest Season 12 and Ajay Sriram. R, Gnana Prakash, Kumaran T E III ECE, Vishal Prasad. P, Kamalesh Kumar II ECE - Runners in Rec Programming Contest Season 12
- Pravin Kumar ECE (2016-2022 Batch) Won, "LEBEN JOHNSON PEOPLE'S CHOICE AWARD" with a cash prize of Rs. 50,000/- in the GITAM SmartIDEathon 2022
- Mr.Kanish R of IV ECE B, ranked top in Precise Energy Olympiad 2020 in Chemistry and grabbing an opportunity to visit Russia and share his experience at the Russian Centre in 2022.
- M Kirtik Soni, Lokchandar C, Karthikaa K of III ECE B Represented Entrepreneurship Development Cell Symposium conducted by Amity Business School on 23.09.2022, won the over-all trophy and special mention
- Nithish.A, Meha B of III ECE won the first prize in the event Curious line follower at National level students symposium conducted by St. Joseph's College of Engineering on 17.09.2022

- Nithish.A, Meha.B II ECE secured first place in ROBO RACE at the National level technical symposium 'TECHNOPHILIA-22" conducted by St.Joseph College of Engineering, Sriperumbudur, Chennai on 23.9.22
- Duraiarasu E, Ganesh Kumar C Harihara Sudhan V Ranked 3rd position in the National level competition "Engineering Challenges on EV Safety" held on 26th September 2022. Rajalakshmi Engineering College ranked 3rd position in the competition and REC was the only non IIT team to get in top 3 ranks.
- S.Shiva Santosh and A.Shruthi of II ECE- D won second place in the event "Shark tank" (Project idea presentation) at the National level Techfest - NEXAVERSE-2k22 conducted by Sri Sairam Engineering College, Chennai on 27.9.22
- Ashwanth Kumar V Deepak GL, Bharani (III ECE A) Secured 2nd place at EDC pitch deck, Organized by EDC Cell, REC on 30.09.22. Mr. Santhosh Kumar R and Mr. Sathyanarayanan S K of third ECE C securing Runner at EDC pitch deck , Organized by EDC Cell, REC on 30.09.22.
- Mr. Kirtik Soni Mr. Duraiarasu. E III ECE B participated in TechnoXian Word Robotics Championship 2022 at New Delhi during 21st & 22nd August 2022 and have been ranked top 5 in RC airplane category worldwide
- Mr Arun of III ECE A won the cash prize (first place) of Rs.7500/ with trophy in Singing competition in Campus League's music event on 30/07/22 organized by Viral Fission company, Chennai.
- Mr.Aathishwaran Ramesh (III ECE A) secured 2nd place in debate competition held at Saveetha University on 10/08/22.
- Narayanan V (Batch - 2018-2022), Sanjeev Kumar M (Batch - 2018-2022), Kavın Kumar G (Batch - 2019-2023), Niteesh Babu G S (Batch - 2018-2022), Sayad Pervez B (Batch - 2019-2023), Shivashankar U (Batch - 2018-2022), Vishal Balaji Sivaraman (Batch - 2018-2022), Kanish R (Batch - 2019-2023) Developed six Virtual Lab Experiments under PALS (IITM)-Virtual Labs Development Initiative and successfully deployed in the institute's own computing environment.
- R.Vishal Prasad, V.Vedha raman, N.Sreejith - ECE under the guidance of Dr. S. Chitra has submitted a proposal 'AN ELECTRONIC COMPONENT ALTERNATIVE SELECTION TOOL' in the scheme PALS- Lab to Market (L2M) activity to Start up - Dextroware Devices and it is sanctioned on 03.02.2023
- Ms. Charulatha. V & Ms. Madhuvanti.U along with Mr. Eben Annvis M, Ms. Madhumitha L, Ms. Reshmi .S, Ms. Namratha R, FT got first prize in Chennai Got Talent" organized by Young India(Yi) & Confederation of Indian Industry (CII) on 17th August 2022
- Ms. Akshaya Lakshmi S N and Ms. Akshaya T V got I prize, Mr. Roshan B and Mr. Pranav W got II prize, Ms. Janaviga J S and Mr. Prithvi Ram R got III prize in "Millet Extravaganza" Organized by Department of Food Technology, Rajalakshmi Engineering College, Chennai on 20th September 2022
- K. Pavithra and Sundareswarapandiyam (2018-2022) under the guidance of Dr. S. Niveadhitha completed project "Development of mineral enriched

cookies by the utilization of watermelon seeds" and presented it in the Seminar - cum – Exhibition on 25th to 26th November 2022.

- S. Aarthy, N. Neha, S. Sujitha, K. Vijayasri (2018-22) under the guidance of P.N Guru Raj and Ramalakshmi K completed TNSCST project titled EXTRACTION OF ESSENTIAL OIL FROM *Tinospora cordifolia* BY HYDRO-STEAM DISTILLATION AND ITS APPLICATION on 25 th to 26 November 2022
- Lavanya K, Nafiya Thehreem Z, Mahaan Mithrar H and Rohit Kumar S III IT has bagged second position with Rs.3000 prize money in Hack in Hub '22, 24 hours National level hackathon at Sri Sairam Institute of Technology on 19-20 October 2022.
- Ashwin kumar MR (210301009) of II BME A participated and won second prize in 'Make my Genome event' - Bionexus symposium organized by Biotech Dept., St. Joseph's College of Engineering, Chennai on 8th October 2022
- Yashawini T.M (210301107) of II BME B secured 2nd place in Talk O'clock conducted by LEO club of our college
- Yashawini T.M (210301107) of II BME B was selected in the preliminary round of the Asian parliamentary system of debate at college level
- Ayra Afreen (210301011) won 1st place with a cash award of Rs. 2000 in mind flayer(biomedical technical quiz) and 2nd place with a cash award of Rs 1000 in design space (UI design-cse technical event) -Drestein'22 - National-level intercollegiate technical and management fest at Saveetha engineering college which was held on 18th Nov 2022
- Charanya C, III CSBS won first prize in debate competition held at REC on 15 Aug, 2022
- Srinithi. A, Sundar.N and Richard.V - III CSBS won second place in Vibe It, Innoventzz conducted by Rajalakshmi Engineering College on 29 Sep, 2022
- Varshini.S, Srinithi.A, Deepak kumar A and Swetha.D - III CSBS was selected to 2nd Phase of Catalyst Serverless Hackathon competition conducted by Zoho on 1-25 Sep, 2022.
- Varun Kumar V, Deepika A.M and Maarcus Renerio - III CSBS won third place in Design-A-Thon held at REC on 04-11-2022
- Deepan Kumar R - III CSBS won second place in Shark Tank, Upagraha 22 held at Sri Venkateshwara College of Engineering on 1-11-2022

Student Publications:

- B. S. Mohan Kumar, G. Priyanka, S. Rajalakshmi, Rakesh Sankar, Taj Sabreen & Jayasree R, "Hydrogels: potential aid in tissue engineering—a review", *Polymer Bulletin*, Polymer Bulletin, Vol. 79, pp. 7009–7039, September 2022. ISSN:0170-0839. [Impact Factor: 2.843, SCOPUS, SCIE Indexed, Publisher: Springer Nature, <https://doi.org/10.1007/s00289-021-03864-x>].
- Shreenidhi KS, Johanna Rajkumar, Saranya Sri S, Kamalesh R, Gopinath L, "Preliminary studies on the production of paper from millet husk and rice straw" *Environmental Engineering and Management Journal*, Vol. 21, pp. 1545-1555, September 2022. ISSN: 1582-9596 Impact Factor: 0.916, SCOPUS Indexed, SCIE

Indexed, Publisher: Institutul Politehnic din Iasi, DOI: <http://doi.org/10.30638/eemj.2022.137>].

- J. Arun, R. Raghu, S. Suhail Madhar Hanif, P.G. Thilak, D. Sridhar, N. Nirmala, S.S. Dawn, R. Sivaramakrishnan, Nguyen Thuy Lan Chi, Arivalagan Pugazhendhi, "A comparative review on photo and mixotrophic mode of algae cultivation: Thermochemical processing of biomass, necessity of bio-oil upgrading, challenges and future roadmaps" *Applied Energy*, Vol. 325, pp. 119808, November 2022. ISSN:0306-2619 [Impact Factor: 11.446, SCOPUS, SCIE Indexed, Publisher: Elsevier, DOI: <https://doi.org/10.1016/j.apenergy.2022.119808>].
- A. Saravanan, P Senthil Kumar, R.V. Hemavathy, S. Jeevanantham, Marie Jyotsna Jawahar, J.P. Neshanthini, R. Saravanan, "A review on synthesis methods and recent applications of nanomaterial in wastewater treatment: Challenges and future perspectives" *Chemosphere*, Vol. 307, pp. 135713, November, 2022. ISSN: 0045-6535 [Impact Factor: 8.943, SCOPUS, SCIE, Publisher: Elsevier, DOI: <https://doi.org/10.1016/j.chemosphere.2022.135713>]. (UGC Approved Journal 4194).
- A. Saravanan, S. Karishma, P. Senthil Kumar, R. Jayasree, "Process optimization and kinetic studies for the production of biodiesel from *Artocarpus heterophyllus* oil using modified Mixed Quail Waste catalyst", *Fuel*, Vol. 330, pp. 125644, December 2022, ISSN: 0016-2361. [Impact Factor: 8.035, SCOPUS, SCIE Indexed, Publisher: Elsevier, DOI: <https://doi.org/10.1016/j.fuel.2022.125644>].
- A. Saravanan; V.C. Deivayanai, P Senthil Kumar, Gayathri Rangasamy, R.V. Hemavathy, T. Harshana; N. Gayathri Krishnapandi Alagumalai "A detailed review on advanced oxidation process in treatment of wastewater: Mechanism, challenges and future outlook". *Chemosphere*, Vol. 308, pp. 136524, Dec, 2022. ISSN: 0045-6535 [Impact Factor: 8.943, SCOPUS Indexed, SCIE Indexed, Publisher: Elsevier, DOI: <https://doi.org/10.1016/j.chemosphere.2022.136524> (UGC Approved Journal 4194).
- P.R. Yaashikaa, P Senthil Kumar, Tran Cam Nhung, R.V. Hemavathy, Marie Jyotsna Jawahar, J.P. Neshanthini, Gayathri Rangasamy "A review on landfill municipal solid waste: Insight into leachate, gas emissions, environmental and economic analysis", *Chemosphere*, Vol. 309, pp. 136627, Dec, 2022. ISSN: 0045-6535 [Impact Factor: 8.943, SCOPUS, SCIE, Publisher: Elsevier, DOI: <https://doi.org/10.1016/j.chemosphere.2022.136627> (UGC Approved Journal 4194).
- A. Saravanan, P Senthil Kumar, Gayathri Rangasamy, R Hariharan, R.V. Hemavathy, PD Deepika, Kritika Anand, S Karthika, "Strategies for enhancing the efficacy of anaerobic digestion of food industry wastewater: An insight into bioreactor types, challenges, and future scope", *Chemosphere*, Vol. 310, pp. 136856, Jan 2023. ISSN: 0045-6535 [Impact Factor: 8.943, SCOPUS, SCIE, Publisher: Elsevier, DOI: <https://doi.org/10.1016/j.chemosphere.2022.136856> (UGC Approved Journal 4194).
- Carlin Geor Malar, Seenuvasan Muthulingam, Mohanraj Murugesan, Gayathri Srinivasan, Rakesh Sankar, "A comprehensive review of the importance of thermal activation in the production of carbon dots and the potential for their use in the

bioenergy industry' Journal of Thermal Analysis and Calorimetry, January 2023, <https://doi.org/10.1007/s10973-022-11687-9>

- Vijayasri Kadirvel , Mithulesh T. V, Hemamalini S, Ramalakshmi Kulathooran Published book chapter on "Edible Electronic Medical Devices and Their Potential Application in Medical Field " in the book "Advancement, Opportunities, and Practices in Telehealth Technology " published by IGI Global on 21st September (DOI: 10.4018/978-1-6684-5231-8.ch001)
- Sadagopan R, Ravi S, Adithya SV, Vivekanandhan S. PolyEffNetV1: A CNN based colorectal polyp detection in colonoscopy images. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine. 2023 Jan 23:09544119221149233.

Sports:

- Mr. Madhan Kumar U of Third year IT and Mr. Suraj Kumar R of Third year CSE has been selected to represent Kanchipuram District Kabaddi team in the forthcoming Tamilnadu State Tournament.
- Mr. Raguram B of third year IT has been selected to represent Kanchipuram District Basketball team in the forthcoming Tamilnadu State Basketball Tournament.
- Mr Kantha Roopan R of first year ECE who has been selected to represent in Anna University Archery Team held at Guru Kashi University, Talwandi Sabo, Bathinda - Punjab .
- Mr.S.Siva prakash of first year EEE who has been selected to represent in Anna University Kho-kho team and attend the All India Inter-University kho-kho championship held at Jawaharlal Nehru Technological University, Hyderabad.
- Mr Sarath A.S of third year Aero and Ms. Preethi Lakshmi R of first year EEE who has been selected to represent Anna University in the All India Inter-University Wushu Tournament to be held at Chandigarh University, - Mohali
- Ms. Lakshmi E.S of third year Bio Tech who has been selected to represent Anna University in the All India Inter-University Pistol shooting and Air Rifle(W) tournament to be held at Swami Vivekanand Subharti University - Uttar Pradesh .
- R.P.Ajith of third year Automobile Engineering won bronze medal and R.Preethi Lakshmi of first year EEE won silver medal in Anna University Inter-zonal Boxing competition held at KSR Engineering College ,Tiruchengode from 08.12.2022 to 09.12.22.
- Throw ball (Men) team secured Runner up in State level Inter-collegiate Tournament organized by Tamil Nadu Throw ball Association on 17.09.2022
- Throw ball (Men) team secured Runner up in State level Inter-collegiate Tournament organized by YMCA College of physical education from 20.09.2022 to 23.09.22.
- Throwball (Men) team secured WINNERS in State level Tournament organized by Tamilnadu Throwball Association at Tiruchengode on 06-11-2022. Our team got selected for the National Panchayati Yuva Krida Khe! Abhiyan Championship 2022-

2023 to be held at Mumbai

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- Badminton (Women) team secured Runner up in Anna University zonal tournament Organized by REC on 08.11.2022.
- Tennis (Men) team secured Runner up in Anna University zonal tournament Organized by Saveetha Engineering College on 14.11.2022.
- Arm wrestling (Men) team secured 8 gold medals and 9 silver medals in the Super Match of Arm wrestling tournament Organized by Chengalpattu District Arm wrestling Association on 06.11.2022.
- Badminton (men) team secured Third in Anna University zonal tournament Organized by SVCE on 18.11.2022 and 19.11.2022.
- Table Tennis (men) team secured Third place in Anna University zonal tournament Organized by SVCE on 18.11.2022 and 19.11.2022.
- Football (men) team secured Runners in Anna University zonal tournament Organized by Saveetha Engineering College on 20.11.2022 and 21.11.2022.
- Basketball (women) team secured Runners Up in Anna University zonal tournament Organized by SMIT on 24.11.2022
- Volleyball (men) team secured Runners up in Anna University zonal tournament Organized by CIT on 24.11.2022
- Basketball (men) team secured Third Place in Anna University zonal tournament Organized by REC on 25.11.2022
- Volleyball (women) team secured Third place in Anna University zonal tournament Organized by Saveetha Engineering College on 28.11.2022
- Hockey (men) team secured Third place in Anna University zonal tournament Organized by CEG on 27.11.2022
- Athletic (men&women) teams won the OVERALL CHAMPIONSHIP (MEN-RUNNERS, WOMEN-WINNERS) in Anna University Zone-2 Athletic Meet Organized by Saveetha Engineering College on 29.11.2022 & 30.11.2022
- Ball Badminton (women) team secured RUNNERS UP in Anna University zonal tournament Organized by PBCE on 03.12.2022
- Handball (men) team won the Title in Anna University zonal tournament Organized by REC on 04.12.2022
- Chess (men&women) teams secured THIRD PLACE in Anna University zonal tournament Organized by RIT on 04.12.2022.
- Ball Badminton (men) team secured Runners Up in Anna University zonal tournament Organized by CEG on 26.12.2022
- Kho-Kho (men) team won the Title in Anna University zonal tournament Organized by PBCE on 27.12.2022
- Cricket (Men) team secured Runners Up in Anna University zonal tournament Organized by SVCE on 12.01.2023 TO 18.01.23
- Throwball (Women) team secured Runner - up in State level Inter Collegiate Tournament Organized by Alpha arts and science college on 28.01.2023
- Kabaddi (men) team secured Runner - Up in Chief Minister Trophy Organized by Sports Development Authority of Tamilnadu, Kanchipuram on 17.02.2023 TO



- Basketball (men) team secured Third Place in Chief Minister Trophy Organized by Sports Development Authority of Tamilnadu, Kanchipuram on 17.02.2023 TO 18.02.23.

NPTEL - July-Dec 2022

Ranked "AA" (42 out of 5000+ colleges)

Toppers: 47

- Gold: 10
- Silver: 101
- Elite: 288

Industrial Visits:

- Tambaram air force station on 08/10/2022
- INS Rajali naval station on 18/10/2022
- National Thermal Power Plant at Ennore, Chennai on 28th and 29th September 2022
- ISRO (II year IT)
- Imarticus Learning (III IT)

Faculty Achievements:

- Dr. K. Bhaskar, received a "Certificate of Appreciation" on 28.01.22 from NPTEL for his instrumental role as SPOC for 42nd Rank (AA Rating) in all India level ranking among 5000 SWAYAM-NPTEL Local Chapter in India during the period of JUL-OCT 2022.
- Dr. P. Vasudevan has been conferred with "Excellence in Education Award" in the Global Iconic Education Award 2022, conducted by Saveetha School of Management, SIMATS, Chennai, on 9.07.2022 & 30.07.2022
- Dr. K. Sathya got Associate Fellow from Antiviral Research Society.
- Mr S Arun kumar received certificate for Domain Specialisation and Disciple Star from NPTEL
- Dr Hemavathy R V received the Outstanding Professor Award from Women icon, The Times.
- Dr. A. Arun received International Best Professor Award from IISTAC 2022 at Trichy
- Dr. A. Arun received Most Inspiring faculty award from ISICAEM 2022
- Mr. M. Ammaippan has been recognized as NPTEL DISCIPLINE STAR - July – Dec 2022 for completing more than 50 weeks of learning in courses of same discipline.
- Dr.S.Geetha & Dr. M. Selvakumar were awarded best paper award for the paper titled "Role of Nano Silica in Enhancing the Properties of Aerated Concrete" in the Second International Conference on Construction Materials and Structures (ICCMS-2022) conducted on 13-19 December, 2022 by NIT Calicut
- Mr. D. Gururaj acted as resource person in three days workshop on UTLP & ARDUINO conducted by centre of excellence in embedded technologies held on 4-2-2023
- Dr. T. Manikandan acted as a resource person for the online FDP Bio-inspired optimisation techniques programming conducted by Easwari Engineering College 4-

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- Dr. R. Gayathri acted as a resource person for the FDP on Societal advances in Wireless systems and Emerging Technologies from 23-28 Jan, 2023
- Dr.T.Manikandan received a Patent Grant for the design patent "Health Monitoring System" and for "Smart Blind Stick"
- Mr.Sudharsan S was appreciated as NPTEL BELIEVER for the months July-December 2022
- Dr.J.Saranya received Young Achiever Award 2022 and life membership certificate from Institute of Researchers forum
- Dr.T.Mariammal received Best researcher award for innovative research from young scientist award
- Dr. V.S.Selvakumar received Best Researcher Award 2022 by Live4Research Institute of Research and Development
- Dr.T.Manikandan received Best Researcher Award 2022 by Live4Research Institute of Research and Development
- Dr.T.Manikandan received Best Administrator Award 2022 by Live4Research Institute of Research and Development
- Dr.D.Indumathy delivered a Presentation in StartupTN Aadukalam pitching programme at Ganesan Incubation and Entrepreneurship center, AVIT on 20.12.22
- Dr. T. Manikandan acted as an external academic audit member & audited the Biomedical & Medical Electronics departments at Saveetha Engineering College, Chennai. 09/11/2022
- Dr. S. Suganthi was awarded "C V Raman Prize – 2022" by Institute of Researchers
- Dr R Gayathri presented a Lecture on Women Empowerment and Child Empowerment in the name "Penmai Vazhgavendru Koothiduvomada", organized by Kalvi Tholaikatchi, Kalvi40 Media jointly organized by BumbleB Trust along with Kanchi Digital Team through virtual mode on 20.11.2022
- Ms. M Tamilarasi delivered a Guest lecture in Staff professional development (SPD) program (online) on "Machine Learning" at IT Dept, University of Technology and Applied Sciences - Shinas, Sultanate of Oman on 22/11/22
- Dr. Sujatha L presented a topic on Large Scale Integration of polymer microwave array for lab on chip application" Technical Talk series on "Sukshma Malika 2022", Centre for Nano Materials and MEMS, NMIT, Bengaluru and published in sukshma volume 12 No2 April-June 2022 issue.
- Dr. K. Senthil Kumar was appointed as a Technical Program Committee (TPC) member for WiCOM, the 17th International Conference on Wireless Communications, Networking and Mobile Computing (WiCOM 2022) to be held in Kunming, China from Oct. 31-Nov. 2, 2022
- Dr. R. Gayathri received an award for excellence in Tamil literature service, awarded by Indian Arts and Cultural Association, New Delhi, presented at Triplicane, Chennai's Bharathiyar Memorial House
- Dr. D. Indhumathi acted as Resource person on 13.9.2022 for the 3- Days Online FDP on Let's Startup, organized by

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- Dr. J. Saranya acted as a Resource person on 30.9.2022 for the Guest Lecture on Investigation on NANO platform for cancer Diagnosis at Saveetha Engineering College
- Dr. D. Indhumathi and Ms. Shaik Thasleem Banu received 'Best Teacher' award on 18.9.2022 during Teacher' Day Award ceremony for Excellence in Education - 2022 from Thiru. I. Eswaran, I.P.S, Deputy Commissioner of Police - Puliyanthope.
- Dr. J. Saranya, Ms.T. Helan Vidhya / Team Lead, Dr. S. Chitra / subject expert developed six Virtual Lab Experiments under PALS (IITM)-Virtual Labs Development Initiative and successfully deployed in the institute's own computing environment.
- Dr. P. Bharathi won appreciation prize for "Best Interactions" during the Celebration of Science Festival (Vigyan Utsav) as a part of Celebration of 75 th Year of Independence (AzadikaAmirtMahostav) under the theme of "Intellectual Property Rights" conducted by Patent Information Centre, Tamil Nadu State Council for Science and Technology on 04 th August 2022
- Ms. A. Srimagal delivered a Guest Lecture on Fostacc Training "Advance Manufacturing – General Food Safety Supervisor Course" at "BS Abdur Rahman Crescent Institute of Science and Technology" on 7th October 2022
- Ms. S. Hemamalini delivered a Guest Lecture on Fostacc Training "Advance Manufacturing – General Food Safety Supervisor Course" at "BS Abdur Rahman Crescent Institute of Science and Technology" on 10th October 2022
- Dr.A.Nazar Ali was awarded IGEN SDG Green Action award 2021 by The Institution of Green engineers on 30-08-2022
- Dr C. Kamalakannan received a medal for chennai Runs, Marathon at Beasant Nagar from Chennai Runs, Marathon on 11-12-2022

Publications: (Jan-Dec 2022) Total - 355 publications

- Scopus : 251
- SCI : 168
- Books & Book Chapters : 75
- Conference publications : 136
- Faculty with h index more than 3 : 75
- Publications with industry collaboration : 2
- Publications with international collaboration : 23

MOU Signed & Activities:

- Based on MoUs - https://www.rajalakshmi.org/NAAC/3_7_2/MoUs21-22.pdf
- ✓ Inplant training at Vaayusastra Aerospace Pvt. Ltd., IITM RESEARCH PARK
- ✓ Inplant training at Vibrant NDT Services Pvt. Ltd.
- ✓ REC Inks MOU with NIPPON PAINTS to enhance research, Industrial Training & Consultancy Services on 08.12.2022. 4 Faculty members of BT underwent Sabbatical Training at NIPPON PAINTS on 05.01.2023 & 06.01.2023.

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- ✓ MOU has been renewed for next three years (2022-2025) with Dynamic Engineering Research Centre on FEB '22. Aug Guest Lecture was conducted on 15.10.2022 through MOU signed
- ✓ Department of Food Technology, REC, Chennai signed MoU with Ivory Gull Candy Company, Salem for future collaborations on 26 th December 2022
- ✓ Department of Biomedical Engineering signed the Memorandum of Understanding (MoU) with Indian Biomedical Skill Council established by Andhra PradeshMedTech Zone (AMTZ), having its office at AMTZ Campus, Visakhapatnam on 15th Sep 2022

Suggestions from Members during the meeting :

1. Explore avenues to publish with MoU signed companies
2. Motivate publishing by organising various programmes
3. Identify rural/-local needs and explore possibilities of providing technical and non-technical assistance for better living
4. A profiling on Deep Learning Vs Diversified Learning capabilities can be initiated in early semesters, to help them develop based on that.
5. Patents to be brought into commercial usage and thereby revenue generating.


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