



RAJALAKSHMI
ENGINEERING COLLEGE
An AUTONOMOUS Institution
Affiliated to ANNA UNIVERSITY, Chennai

Minutes of the IQAC Meeting held ONLINE
on 16th July 2021 at 10.00 a.m. through Google Meet.

Members of IQAC :

Name	Designation
Dr.S.N.Murugesan	Principal
Dr.M.Subbiah	Emeritus Professor, EEE
Dr.V.Murali Bhaskaran	Dean Academics
Dr. Johanna Rajkumar	Dean, BioTechnology
Dr.Yogesh Kumar Sinha	HoD, Aero & Chief Superintendent, AU Exams
Dr.S.P.Srinivasan	Controller of Examinations (Autonomous)
Mr. I. Philip Praveen	Director - T&P and Dean-Student Affairs
Dr. P. Kumar	Director (Alumni Affairs)
Mrs. Deborah Sharon	Assistant Professor, MBA
Mrs.P.Mahila	Senior Administrative Officer
Mr.Srinivasan	Administrative Officer
Mr.B.R.Gopi	IT Manager
Mr. M. Ravichandran	Tahsildar, Sriperumbudur Taluk

Mr. Sundaravadivel Purushothaman	Global Head EAS Advance Planning & Logistics Services Tata Consultancy Services Limited
Mr.C.Devarajan	General Manager - TS Ford India Ltd.,
Dr.Sivaramakrishnan.K	Director & Chief Executive Officer Taoka Chemical India Pvt Ltd., (Subsidiary of MNC Taoka Chemical Company Ltd., Osaka, Japan)
Mrs.Rasmi	Parent of Ms.Sneha of III BT
Ms.Deepikashini V	Alumni 2013-17 Batch (B.Tech IT)
Mr.Deepak V M	Alumni 2012-16 Batch (B.E Civil)
Mr.Muthu Veeran B	Student (IV B Mech)
Dr.V.Prasannakumari	Professor, IT & IQAC Coordinator

Implementation of plans discussed in previous meeting:

<u>S. No.</u>	<u>Agenda Point</u>	<u>Activity details</u>	<u>Target</u>	<u>Actions Taken</u>
1	Online Internships	Students are encouraged to take up online internships	50% of second and third years students	Around 150 students have taken up internships this semester.
2	Python Programming for All branch Faculty	Team of faculty from all branches will complete Python programming training conducted and will have sufficient hands-on experience to disseminate to their students	As per schedule	Completed as planned Programming contest Faculty 4.0 in progress

3	BoS Meetings	All departments are advised to conduct their BoS meetings through online mode	All departments	All departments have completed their BoS meetings as planned
4	Review of club activities	There will be a review conducted to measure and monitor activities of various clubs	All clubs , with minimum 3 activities, and total rep of 600 students in each club	Rotaract - 28 CII Yi - 26 NSS -12 Enactus - 9 Atrium - 8 Leo Club – 7 Debating Union - 6 YRC -5 EDC - 5 Ethics - 2 Total - 108 activities
5	Industry associated One Credit Course	An one credit course on “O-365” in association with TCS will be conducted through online mode in Jan 2021	2 courses before Dec 2021	TCS : 360 Sharepoint - 231 students TCS : Deep Learning - 117 Students Cognizant Technologies : Digital Nurture - 815 students
6	3 Year SSR in NAAC format	An interim SSR in NAAC format will be prepared and scope for improvement under all aspects for high score will be reviewed.	In May 2021	A team of heads have attended the RAAF Webinar from NAAC and are working on the requirements and expectations in the new format. One day seminar sponsored by NAAC to be conducted on RAAF during Sep 2021

7	Blended mode of T & L	Improving the features of the online classes and assessment to continue in the blended mode even after regular classes resumed	As applicable	Assessments now include proctoring and exams in Objective & Descriptive pattern
8	Technology Business Incubators(TBI)	Taking focused efforts for offering consultancy to specific industries/ establishing Technology Business Incubators(TBI)	Minimum 1 TBI	In Progress
9	Reviews for reaccrdition by NBA	Departments who are preparing for reaccrdition will be audited for performance in various criteria as per NBA SAR	All Applicable courses	One year extension has been provided and as required Pre-Qualifiers have been submitted to the NBA.
10	On screen evaluation to speed up the evaluation and result processing	Phase 2 will be initiated	2 UG programmes	In Progress. Since all exams are conducted in online mode, this will be pursued in the regular semester
11	Quality of publication	Faculty will be guided to submit more research articles to reputed SCI journals	75 SCI publications	Total - 176 Scopus – 117 SCI - 54 Book Chapters - 7 Book - 1

12	Centre of excellence in new fields	Centre of excellence in new fields for more industry connect, research, employability enhancement	Minimum 2 CoEs	In Progress
13	Counselling and motivation of needed Student/Faculty	Counselling and motivation of needed Student/Faculty to fast track the recovery from depression and resuming normalcy.	24x7 to all students and faculty of REC	An online Professional Counselling organisation has been engaged and in the past 6 six months, 2907 counselling sessions have been offered.
14	Patents	Speed up efforts to secure patents from already filed products/processes and also filing more patents.	25 patents to be filed Minimum 2 to be secured before Dec 21	newly filed - 3 Total Patents under review - 39

Plans for next semester :

<u>S. No.</u>	<u>Agenda Point</u>	<u>Activity details</u>	<u>Target</u>
1	Online Internships	Students are encouraged to take up online internships	50% of second and third years students

2	Capability building Exercise continues with FDP from SAE India	20 faculty members will get trained in Machine Learning through FDPs from SAE India	Before Jan 2022
3	Technology Business Incubators(TBI)	Taking focused efforts for offering consultancy to specific industries/ establishing Technology Business Incubators(TBI)	Minimum 1 TBI
4	Centre of excellence in new fields	Centre of excellence in new fields for more industry connect, research, employability enhancement	Minimum 2 CoEs
5	Preparations for NAAC	Webinars are to be arranged to keep everyone aware of the new format of NAAC and data templates will be shared.	Before Dec 2021
6	NBA - SARs	SARs of 6 Courses whose NBA need to be renewed in Tier I will have to be submitted. MCT will have to submit its SAR for first time accreditation	Before Nov 2021
7	Keeping all MoUs Active	Activities based on each MoU should be initiated to keep them active. This is a base requirement in NAAC for consideration	Before Dec 2021

8	Induction Programme for First year students	Upon completion of admissions, Induction programme as per AICTE guidelines will be conducted for the forthcoming first year batch of 2021-22	Before Dec 2021
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Accolades and Activities:

CSE Team has been selected for Grand finale in TOYKATHON 2021, titled TYPHLOTIC CHROMA -The best Toy for your DIVYANG child, category - Physical L1 conducted by AICTE on 20.01.2021

REC has been awarded LC STAR recognition for its consistent standing in Top 100 Local chapters among 4500+ LCs of IIT - NPTEL for the past 7 semesters.

Dr. K. Bhaskar has been awarded 3 Australian Innovation Patents in topics tabulated below and One Indian Patent is in the final stage of acceptance.

A Parallel – Series Electric Hybrid Vehicles based on Geometry of Formulation
A Novel Method to Design a Dynamo for Electric Vehicle
Continuous Power Generation by Automatic Direction Change in the Sensor Level System in the Solar Panel

Ms.K.Tamilarasi received a patent for "Design of a Collapsible and Portable Lactation Module for Mothers from Innovation Patent by Australian Government.

Dr. S. Rajkumar, Professor & Head/BME received copyright for his software based product "Soft audiometer" from the copyright office, Government of India

International Women's Day Celebrations on 10th March. Presided by Dr. (Mrs.) Thangam Meganathan, Chairperson, Rajalakshmi Institutions. Guests of Honor:

- Smt. Besilia, Head, Talent Acquisition, TCS;
- Smt. Shantha Rangaswamy, Former Indian Cricketer;
- Dr. Riniti Banerjee, Professor, IIT Bombay;
- Padmashri. Smt. Pappammal, Organic Farmer;
- Smt. Mahalakshmi Saravanan, Founder, Women Entrepreneurs India;

- Smt. Chitra Ravichandran, Entrepreneur, HR Professional, Mother of Ravichandran Ashwin, Ace spinner of the Indian Cricket Team;
- Smt. Sriranjani Santhanagopalan, Carnatic Vocalist.

To promote cashless transactions, to avoid crowding at canteens and to maintain social distancing, an exclusive mobile app rMart has been developed by REC students for ordering foods at REC CAFÉ

College arranged COVID'19 Vaccination at Molachur Primary Health Centre, Sriperumbudur Block for the benefit of the faculty and staff on 26th & 27th March 2021 in Two batches (Morning & Afternoon)

Vaccination Camps in association with Rotary club and Corporation of Chennai were conducted in June at Head Office at Kilpauk and Covishield was made available.

With support from management, the vending machine for sanitary napkins was manufactured and installed. A Laser cutting machine and required accessories were procured for this project and are now added to central facilities.

Financial Assistance Granted to conduct One-day Seminar from NAAC to Rajalakshmi Engineering College. Funding is Rs.30,000 (Online mode)

ATAL FDP on topic "Lab-On-Chip" for 5 days (12th to 16th July) online mode was accepted by AICTE and funding for this program is Rs 93,000/-

Our Team (20 Automobile Engineering Students) have secured overall 9th place (out of 82 teams) in SAE Electric Two Wheeler Design Contest - ETWDC 2020. They have secured 422 marks out of 500. Held virtually in the month of April- 2021.

Our Team EFORZA (23 Automobile Engineering, 1 EEE & 1 ECE) has secured overall 1st Place out of 10 teams participated in Tamilnadu and 12th Place out of 50 teams at National Level in the SAE EBaja2021 event held from 25-28 April 2021

Morris Garages India has offered the first internship called MG NURTURE on Sales & Marketing for the students in this lockdown period. Our college student HARIHARAN K S (4th year) from Automobile department has been selected for the program clearing many screening processes.

AICTE MODROBS of worth Rs.14,00,000 for "Combustion and emission characteristics of a diesel engine fuelled with biodiesel having varying saturated fatty acid composition" in "Fuels and Lubricants Lab" coordinated by Dr. K. Bhaskar

Prof N Muthusamy has been elected as Vice-Chairman of Aeronautical Society of India (AeSI), Chennai Chapter (January 2021)

Mr. Surendra Bogadi has been recognized with a special prize for mentoring in Aerothon 2021, A drone design competition organized by SAE India. (12 June 2021)

8 students from (III year, Aero) has won a special prize (Rs. 5000 cash prize) in Aerothon 2021, A drone design competition organized by SAE India. (12 June 2021)

Dr.A.Saravanan,AP,Dept of Biotechnology has been designated as International Consultant with Ureka Education,UK on Feb 25,2020.

Dr.K.Sathya received Best paper award - extraction of wax from natural source as a substitute for detrimental chemical wax for viable capitalistic utilization in International E-Conference on Bioprospecting (ICONBIO) conducted by Department of Biotechnology, Arunai Engineering College, Tiruvannamalai, Tamilnadu, India between 29.01.21-30.01.21

National Web Conference titled "Innovation for Sustainable Development in Civil Engineering (ISDCE' 20)" was conducted on May 20, 2020

Advances in Civil Engineering (ACE'20) -National level one week virtual FDP conducted from 20.7.2020 to 27.07.2020

REC Team won first place in Virtusa Jatayu Competition for project " Automation in Game Testing" and awarded Rs. One lakh Prize money along with offer letters

Team from REC got selected for funding for project " SIMMON: An autonomous Robot as Order Taker" in National Council innovation contest conducted by Ministry of Education Innovation cell

National Conference on Intelligent Techniques in Computing and Communications has been conducted by CSE Department on 14th and 15th of May 2021.

Webinars on topic :

STTP (AICTE) - Robotic Process Automation
Online FDP - Neural Networks and Deep Learning
FDP - Introduction to Blockchain
On-line FDP Covid-19 Dataset Analysis using pandas in python

Dr.A.Nazar Ali, EEE received Best Global Sustainable Development Goals (SDG) Ambassador Award, Universiti Tun Hussein Onn Malaysia, 01.04.2021

"Mr.Sundar Raj V" from ECE Dept Received national level Best Students Project Award 2020 from Dr.Kalam Educational Trust, March 2021

Mr.Niteesh Babu. G.S Proposal titled Interactive, asynchronous QEMU Machine Protocol(QMP) text user interface(TUI) has been accepted in GSoC project conducted by Google India. During this intership he will be paid USD3000.

Dr. K. Senthil Kumar Received "Best Teaching Faculty-2020" national award from Dr. Kalam Educational Trust on 19.03.2021

Ms.Pavithra Received national award "InSc Young Researcher Award" during February 2021

I.Aadhil Mohammed and Charankumar R of III Year took part in Finals of AICTE CHITRA VISHWAKARMA AWARD and presented their project "MOBILE/WEB APPLICATION TO CONNECT SEA FOOD COMMUNITY"

Sharath Prasanna, Shyam Balaji and R Shanthi awarded the Design Patent for their work titled Electric Wrench Cum Jack Screwer

Dr. R.Shanthi, Prof/Mech was selected as Chairperson for ISHRAE Chennai studentsChapter and working committee member

Mr.Joshua David,Mr.M.Sidharthan and Mr.M.Tharun of I year CSE participated in the event"Top Coders 21"organized by E-BOX colleges and won 1st prize.

Research Facilities :

4 sophisticated instruments were added to the Centre of Excellence in MEMS & Microfluidics through funding by DST(Department of Science & Technology) and BRNS(BOARD OF RESEARCH IN NUCLEAR SCIENCES)

1. Probe Station
2. Vector Network Analyzer
3. Programmable Microfluidic Control System
4. Contact Angle Meter

100 Ton Loading frame with all facilities for testing structural Members at a cost of Rs 23.26 Lakhs through the research funding of DST-WMT(Waste Management Technologies) was added to the Sustainable Construction Materials Research Laboratory

Placements 2021 :

1255+ students placed in 180+ Companies including TCS, Zoho, Wipro, Virtusa, ThoughtWorks, Samsung, Saint Gobain, Rane, Pega, Mindtree, Infosys, HCL, Hyundai, Garuda Aerospace, Emerson Electric, Delphi TVS, Brakes India, Amazon, Accenture...

Training :

For Students :

PEGA - CSA training
Data Analytics
Google cloud career readiness Program
CISCO - Programming essentials in Python
Salesforce Fundamentals
CTS - Digital Nurture Program
Aptitude training

27 FDPs for faculty members in emerging areas including Machine Learning, Creative Thinking, Big Data Analytics, Python Programming, AutoCAD, Digital Teaching Techniques etc

20 webinars coordinated for faculty and students through CII, PALS, ICTACT etc

Alumni Affairs

20+ webinars by Alumni students were offered to the current students of REC in Jan-Jun 2021

A 4 weeks Upskilling programme – Python Primer - exclusive for Alumni of REC was conducted

AICTE-Margdharshan

7 FDPs focussing on CO-PO mapping and attainment calculation were conducted for the mentee institutions.

Second mentee institution obtained its NBA Accreditation successfully.

Sports

- The Kho Kho (Men) team secured Runner up in Anna University zonal tournament organized by College of Engineering Guindy on 24.03.2021
- The Cricket (Men) team won the title in Anna University zonal tournament organized by Sri Venkateswara College of Engineering from 16.03.2021 to 19.03.2021
- The Chess (Women) team secured Runner up in Anna University Zone-2 Tournament Organized by Apollo held on 19.03.2021.
- The Chess (Men) team won the title in Anna University zonal tournament organized by Apollo Engineering College on 19.03.2021

Mr. Rohit Sanjay (II Year, Aero) has won the title in Chess competition at Anna University Zonal Tournament on 19.03.2021

- The Volleyball (Men) team secured Third Place in Anna University zonal tournament organized by Rajalakshmi Institute of Technology on 29.03.2021.

- The Hockey (Men) team secured Third Place in Anna University zonal tournament Organized by College of Engineering Guindy on 27.03.2021

Club activities:

- Leo Club – REC initiated discussion on awareness for all departments on weekends from 17th January to 21st February

- YI Yuva – REC conducted Monster Lottery on January 17th & 18th

- SEDS – REC held series of Star Talk on 29th January with Ms. Nikhitha, Co-founder and CEO, SSERD (Society for Space Education Research and Development); on 18th February with Shri. T.K.Sundaramurthy, Former mission director, ISRO

- Journal Club – BT – REC conducted Qriosity – competition on 30th and 31st January

- NSS Volunteers initiated an online campaign – One plant movement –on 5th February

- REC Atrium and Debating Union conducted War of Words '21 - an Intercollegiate Literary Event on 7th February, 2021

- Enactus – REC launched its first edition of 'ENACTION', an e-magazine

- Enactus organized Sthree on 14th March on the topic: 'Let's talk about it: the menstrual campaign' breaking stereotypes with Dr.Souramya, JIPMER as chief guest

- Yuva YI CII REC organized an online event "FIRST ASSISTANCE" which is conducted by Mr.Dileep(Secretary - ALERT NGO). Through this event he will help you to learn about first aid and road safety

- Youth Red Cross Club of REC organized 'Protect Yourself From The Second Wave' presented by Dr.Saravanan Pandian (Assistant Professor, Department of General Surgery, Indira Gandhi Government Medical College and Research Institute)

- Enactus – REC conducted Enactry '21 on 25th April

- YI YUVA - Insta Minds 3.0 Launch on 9th April

- Enactus REC organized a guest talk with Ms. Bhushita Ahuja, a budding author, Social Entrepreneur & Motivational Speaker on 2nd May
- Dream V Cricket Auction – EDC REC
- Yi Chennai Entrepreneurship vertical with Yuva REC brought the fourth series of Work-a-Shila, a 2-day Workshop on 23rd and 24th April 2021 from 3:00 - 4:00pm, on Master the Art of Digital Story-telling, an exclusive session with industry expert Mr. Seshu Karthik, Founder, Dimensions Co.
- Enactus REC conducted Mindcology – webinar emphasizing mental health with Ms.Varalakshmi, Psychologist on 23rd May

Any suggestions from Members :

- **Tools like Anylogic – certifications can be provided to students to make them industry-ready**
- **Feedback on Teaching-Learning can be shared with all faculty without mentioning names of faculty members**
- **A specific Taskforce to be constituted for mentoring students in attitude perspective to help them understand the real work environment and adapt to it.**
- **Students can be encouraged to take up Internships from first year onwards**
- **Social media coordinator to promote achievements in FB, LinkedIn etc**