

**Planning & Monitoring Board Minutes of the Meeting held on 20.05.2024**

| S.No. | Planning & Monitoring Board Position                                | Name & Address                                                                                                                                                                                             | Signature                                                                             |
|-------|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1     | Chairman (Principal of the college)                                 | Dr. N.R. Alamelu, M.E., Ph. D.,<br>Sri Ramakrishna Engineering College,<br>Vattamalaipalayam,<br>N.G.G.O. Colony Post,<br>COIMBATORE - 641 022.                                                            |    |
| 2     | Member (Industrial expert in the field of engineering & Technology) | Mr. Binosh Balachandra, B.E. ECE<br>UI Bridge                                                                                                                                                              |    |
| 3     | Member ( Senior faculty member from University / other college)     | Dr. R.N. Uma M.E. Ph.D.<br>Principal<br>Sri Ramakrishna Poytechnic College,<br>Vattamalaipalayam, Coimbatore - 641 022                                                                                     |    |
| 4     | Member (Senior Faculty Member of the College)                       | Dr.P. Karuppuswamy M.E., Ph.D.<br>Prof. & H.O.D. of Mechanical Engineering,<br>Sri Ramakrishna Engineering College,<br>Vattamalaipalayam,<br>N.G.G.O. Colony Post,<br>COIMBATORE -641022                   |  |
| 5     | Member (Senior Faculty Member of the College)                       | Dr. M. Jagadeeswari, M.E., Ph.D.<br>Prof. & H.O.D. of Electronics & Communication Engineering<br>Sri Ramakrishna Engineering College,<br>Vattamalaipalayam,<br>N.G.G.O. Colony Post,<br>COIMBATORE -641022 |  |
| 6     | Member (Architect / Civil Engineer)                                 | Mr. S. Saravana Kumar, B.Tech Civil,<br>Sri Ramakrishna Engineering College,<br>Vattamalaipalayam,<br>N.G.G.O. Colony Post,<br>COIMBATORE -641022                                                          |  |



# SRI RAMAKRISHNA ENGINEERING COLLEGE



[Educational Service : SNR Sons Charitable Trust]  
[Autonomous Institution, Reaccredited by NAAC with 'A+' Grade][Approved  
by AICTE and Permanently Affiliated to Anna University, Chennai]  
[ISO 9001:2015 Certified and all eligible programmes Accredited by NBA]  
Vattamalaipalayam, N.G.G.O. Colony post, Coimbatore – 641 022.

## PLANNING AND MONITORING BOARD

### MINUTES OF THE MEETING

Date: 20.05.2024

Venue: Board Room

Dr.N.R.Alamelu, Chairperson welcomed the members and reviewed the progress of the academic and other development activities as recorded in the minutes of the meeting of the Planning and Monitoring Board conducted on 19.05.2023.

**The followings are the academic and other development activities strengthened further during the academic year 2023-2024.**

#### **1. CONTINUOUS IMPROVEMENT IN ACADEMICS, RESEARCH AND INDUSTRY INTERACTIONS.**

The institution offering B.E. / B.Tech. Programmes in Eleven branches, M.E./M.Tech. programmes with five specializations, MBA and 5 year Integrated M.Tech programme catering to 4500 + students has a vision to be one of the best industry linked institutes preparing the graduates to sustain the growing demands and challenges of the profession.

##### **• Milestones of the institution**

- Two programmes have been, newly accredited by National Board of Accreditation, New Delhi ( 2022-2023 to 2024-2025)
  1. B.E -Aeronautical Engineering
  2. B.E- Civil Engineering
- The Ministry of Education has rated SREC Institution of Innovation Council with Top Star Rating consecutively for 3 years.
- The Ministry of Education - Institution Innovation Council has recognized SREC as a Mentor for 5 schools in Coimbatore.
- The Ministry of Education recognized SREC as a mentor institution to mentor 5 colleges with a funding of INR 2.25 lakhs.
- AICTE fund of INR 16 lakhs received to organize Innovation, Design And Entrepreneurship Bootcamp (Phase II) - 1 out of the 10 institutions in the country. The bootcamp attracted a response of 300 students attending various sessions for 6 days.



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- SREC SPARK INCUBATION FOUNDATION Received top 10 Incubation center award with a grant of INR 5 lakh in Tamilnadu Incubation Maturity Model (TNIMM) assessment among 110 incubators from Startup TN.
- RBG.AI received INR 35 Lakhs through iDEX Challenge collaborating with CDIIC
- Glamsrap Technologies, another Startup by a faculty of electronics and Instrumentation Engineering received Social Impact Startup Award, Coimbatore Vizha for their idea of producing 3D filament from plastic bottles.
- Joint Industry Certifications through Centre for Continuing Education

| S. No | Courses             | Specialization/Minor   | Offering Industry                               |
|-------|---------------------|------------------------|-------------------------------------------------|
| 1.    | Cyber Security      | Specialization         | LTTS                                            |
| 2.    | Sensor Technology   | Specialization / Minor | HTIC                                            |
| 3.    | IoT                 | Specialization / Minor | Bootlabs                                        |
| 4.    | Green Technology    | Specialization         | Augar                                           |
| 5.    | Robotics            | Specialization         | WIPRO PARI                                      |
| 6.    | Electric vehicles   | Specialization         | MTA                                             |
| 7.    | Data Science        | Specialization         | Reliever                                        |
| 8.    | AR/VR               | Specialization         | Zeuron.ai, Bengaluru, a start up by our alumnus |
| 9.    | Drone               | Specialization         | Garuda Aerospace                                |
| 10.   | Intelligence System | Specialization         | RBG.AI, a startup incubated in campus           |

## 2. ESTABLISHMENT OF CENTERS OF EXCELLENCE ALONG WITH INDUSTRIES.

- **Cyber Security**
  - Inaugurated Centre of Excellence
  - Partnered with EC Council for certification of courses in Cyber Security



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- EC Council Certification courses on Computer Hacking Forensic Investigator – (CHFI)- (40 hrs)
- Certified Ethical Hacker (CEH) – (40 hrs)
- Certified Secure Computer User (CSCU) – (15 hr)
- Information Security Audit and Governance (40Hrs) by inhouse experts

## ▪ AR/VR

- Inaugurated Centre of Excellence
- MoU was signed with Zeuron.ai, Bengaluru, a start up by our alumnus, offering specialization on AR / VR. This would also facilitate projects and internship opportunities.

## ▪ SREC SPARK INCUBATION FOUNDATION

- Additional incubatees in SPARK Incubation – 5.

## ▪ ESTABLISHMENT OF CENTRE FOR INDUSTRY AND RESEARCH INTERNSHIPS (CIRI)

- This initiative is headed by a senior faculty at the associate professor level supported by a team of two faculty members.

### Objectives

- To identify the students interested in internship opportunities in institutions of eminence and facilitate them towards the same.
- For the industry internship, new industries to be identified through the departments and also with alumni connect to improve the learning experience of the students.

## 3. ESTABLISHMENT OF NEW PG PROGRAMMES.

- Introduction of New PG programme M.E. Robotics and Data Science .
- **Introduction of B.E/ B.Tech Program for Working Professionals with an annual intake of 30 per branch.**

A preliminary discussion was held with the neighbouring industries – Aquasub, Salzer Electronics and Roots Group of Companies. Based on their feedback the following 3 programmes have been presented in the 19th Academic Council.

- B.E – Mechanical Engineering
- B.E – Electrical and Electronics Engineering
- B.E – Electronics and Communication Engineering



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## 4. STRENGTHENING INNOVATION ECOSYSTEM AND DEVELOPING NEW PRODUCTS

- Funded Proposals Completed: 2
  - Grant Received (INR) : 72.71L
- Total Number of Funded Projects : 14
  - Total Grant Received (INR) : 319.75 L

| S.No.        | Department           | Funding Agency                                                                                                    | Cost of Project in INR. |
|--------------|----------------------|-------------------------------------------------------------------------------------------------------------------|-------------------------|
| 1.           | MECH                 | DRDO                                                                                                              | 23.66L                  |
| 2.           | BME / Physics        | DST – TDP                                                                                                         | 41.80L                  |
| 3.           | Nano/ CIVIL          | DST – TDP                                                                                                         | 25.53L                  |
| 4.           | ECE /Nano            | DST – SERB POWER                                                                                                  | 27.10L                  |
| 5.           | MECH<br>(2 Projects) | Ministry of Mines                                                                                                 | 91.46L                  |
| 6.           | MECH/EIE             | Became Mentor Institute (MI) under the Margdarshan Scheme of AICTE to mentor 5 institution for NBA accreditation. | 15.00L                  |
| 7.           | Nano                 | CHANAKYA POST DOCTORAL FELLOWSHIP- iHub Anubhuti- IIITD Foundation                                                | 28.80L                  |
| 8.           | Nano                 | UGC - SJSGC                                                                                                       | 28.67L                  |
| 9.           | Nano                 | MSME                                                                                                              | 15.28L                  |
| 10.          | CSE                  | UGC- Minor Research Project Scheme                                                                                | 0.20L                   |
| 11.          |                      | AICTE & MIC - Innovation, Design and Entrepreneurship (IDE) Bootcamp (Phase II) for Grant-In-Aid                  | 16.00L                  |
| 12.          |                      | Grant-in-Aid under the Mentor-Mentee Program for IIC institutions 2023-24                                         | 2.25L                   |
| 13.          | CSE                  | AU-CFR-Seed Research Grant                                                                                        | 2.00L                   |
| 14.          | EEE                  | AU-CFR-Seed Research Grant                                                                                        | 1.00L                   |
| 15.          | Nano                 | INSA-Summer Research Fellowship Program – 2024                                                                    | 0.403                   |
| <b>Total</b> |                      |                                                                                                                   | <b>319.75 L</b>         |



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- Seminar/Conference Grants received : 12
- Grants Received (INR) : 5.5L

| S.No.        | Department | Funding Agency                                                            | Grant Received in INR. |
|--------------|------------|---------------------------------------------------------------------------|------------------------|
| 1.           | Aero       | Centre for Faculty and professional development, Anna university, Chennai | 35,000                 |
| 2.           | EIE        | DRDO                                                                      | 25,000                 |
| 3.           | EIE        | IETE                                                                      | 5,000                  |
| 4.           | CSE        | TN SEED FUNDING                                                           | 72,000                 |
| 5.           | CSE        | DRDO                                                                      | 75,000                 |
| 6.           | CSE        | INSA                                                                      | 70,000                 |
| 7.           | EEE        | The Institution of Engineers (India)                                      | 50,000                 |
| 8.           | EEE        | IEEE Madras Section                                                       | 7,500                  |
| 9.           | BME        | DHR-ICMR                                                                  | 1,05,000               |
| 10.          | BME        | INSA                                                                      | 35,000                 |
| 11.          | Phy        | DRDO                                                                      | 50,000                 |
| 12.          | Phy        | TNSCST                                                                    | 20,000                 |
| <b>Total</b> |            |                                                                           | <b>5.5L</b>            |

The collaborative innovation cell, the MHRD Recognized Innovation Council conducted a large number of events to motivate the students to contribute more through innovation. The list of events organized is presented below.

- Total number of events organized during for 5.0 Quarter – IV: 10
- Total number of events organized during for 6.0 Quarter – I,II: 26
- Total Number of Beneficiaries : 4633

The SEED fund approved for various departments is to encourage innovative ideas and develop Proof of Concept, showcasing to industries. This initiative is also to be on par with the current trends in technology and industry requirements.

- Seed fund Grant and Utilization total value: **INR. 7, 91,403**



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| S. No | Department       | Outcomes                                                               |
|-------|------------------|------------------------------------------------------------------------|
| 1.    | R&A              | An Autonomous Stock Checking Machine                                   |
| 2.    | IT               | Human Thermal Monitoring using TIAS<br>(Thermal Infrared Array Sensor) |
| 3.    | EEE              | 850W BLDC Motor Drive                                                  |
| 4.    | CIVIL, Chemistry | Corrosion prevention of steel structures in<br>chlorination tank       |

## 5. PATENT WALL, HOSTEL RENOVATION & MAINTENANCE, ADMINISTRATIVE HALL DEVELOPMENT.

The establishment of the following new infrastructure facilities patent wall, hostel renovation & maintenance, administrative hall development is completed.

## 6. INTERDISCIPLINARY RESEARCH AND CONSULTANCY WORKS

- **Management Support For Research**
  - Institutional Research Fellowship for the Post-Doc Fellows: **INR. 5 L**
  - Institutional Research Fellowship for the Full time Ph.D research scholars: **INR. 6.82L**
- **Number of Beneficiaries**
  - Post-Doc Fellows : 2
  - Full Time Ph.D Research Scholars: 5
  - Incentives to faculty for publications, fundings and research mobility : 65 faculty members **INR 9.25 L**

## Conferences, Workshops, Symposia And Seminars Organized And Attended

- Total Number of Workshops/Conferences/Seminars/FDPs Organized by the departments: 157
- Total Number of FDPs attended by Faculty: 329
- Total Number of Workshops/Conferences/Seminars attended by Faculty: 242
- Peer Enablement Programmes conducted: 18
- Total number of Faculty attended Industry immersion Programme: 17



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## Technical Publications – Books/ Book Chapters / Manuals

- Book Published : 01
- Chapters Published : 18
- Laboratory Manual Published :03

## Summary of Faculty Publications in National/ International Journals

- Total number of publications in National/International Journals: **147**

| S.No         | Department                                  | Number of Publications in journals |
|--------------|---------------------------------------------|------------------------------------|
| 1.           | Mechanical Engineering                      | 29                                 |
| 2.           | Aeronautical Engineering                    | 04                                 |
| 3.           | Civil Engineering                           | 08                                 |
| 4.           | Computer Science Engineering                | 10                                 |
| 5.           | Electronics And Communication Engineering   | 18                                 |
| 6.           | Electrical And Electronics Engineering      | 09                                 |
| 7.           | Electronics And Instrumentation Engineering | 10                                 |
| 8.           | Bio-Medical Engineering                     | 02                                 |
| 9.           | Information Technology                      | 05                                 |
| 10.          | Artificial Intelligence and Data Science    | 03                                 |
| 11.          | Nanoscience And Technology                  | 11                                 |
| 12.          | Robotics And Automation                     | 16                                 |
| 13.          | MBA                                         | 08                                 |
| 14.          | Physics                                     | 04                                 |
| 15.          | Mathematics                                 | 04                                 |
| 16.          | Chemistry                                   | 03                                 |
| 17.          | English                                     | 03                                 |
| <b>Total</b> |                                             | <b>147</b>                         |



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The following are the details of indices.

| S.No.  | Year |     | Total no. of paper published |      | Total no. of Citations |
|--------|------|-----|------------------------------|------|------------------------|
| Scopus | WoS  |     | Scopus                       |      | WoS                    |
| 1.     | 2024 | 54  | 16                           | 918  | 328                    |
| 2.     | 2023 | 457 | 114                          | 3108 | 1727                   |
| 3.     | 2022 | 444 | 170                          | 2262 | 1376                   |
| 4.     | 2021 | 286 | 143                          | 1224 | 788                    |

## ▪ Intellectual Property Rights / Copy Right Initiatives

### • IPR and Copy rights

1. Patents granted : 21
2. Patents published : 08
3. Copyrights Applied/Granted : 04

## ▪ Industry Consultancy

To bridge the gap between the industry and academia, the institution has set up an Industry Institute Interface cell (IIIC).

## CONSULTANCY PROJECTS

| S. No. | Title of Consultancy Project                                | Organization                                 | Department  | Amount in INR Sanction |
|--------|-------------------------------------------------------------|----------------------------------------------|-------------|------------------------|
| 1.     | 1. Embedded AI Framework<br>2. Next Gen Wearable Technology | L&T Technology Services, Bangalore           | CSE/IT      | 28.79L                 |
| 2.     | Grippers for handling sand core                             | Alpha craft Private Limited, Coimbatore      | RAE         | 6.49L                  |
| 3.     | AI based Vision Inspection System                           | Bimetal Bearings Private limited, Coimbatore | MECH/EIE/IT | 3.42L                  |



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|              |                                                |                                         |      |               |
|--------------|------------------------------------------------|-----------------------------------------|------|---------------|
| 4.           | Pick and Place Robotics system                 | Alpha craft Private Limited, Coimbatore | RAE  | 23.60L        |
| 5.           | Design and Fabrication of digital Laryngoscope | Sri Ramakrishna Hospitals , Coimbatore  | BME  | 3.00L         |
| 6.           | SLB- SREC Elastomer Lab                        | SLB (Schlumberger NV) , Coimbatore      | Nano | 21.66L        |
| <b>Total</b> |                                                |                                         |      | <b>86.97L</b> |

## 7. ENTREPRENEURSHIP AND START-UPS.

The following are the list of students who turned out to be entrepreneurs: 05

| S. No. | Name                                                | Department/ Batch Passed out | Mobile Number/ E-mail ID           | Company Name and Place            |
|--------|-----------------------------------------------------|------------------------------|------------------------------------|-----------------------------------|
| 1.     | N. P. Dhanush<br>M. Nithyashree<br>J. Dhanush Kumar | AI&DS/2021-25                | npdhanush29604@gmail.com           | Spordx.ai , SREC Spark            |
| 2.     | D. Kaviyarasu                                       | EIE /2020 -24                | kaviyarasu.2006017@srec.ac.in      | Glamscrap Technologies Coimbatore |
| 3.     | AS. Sabarigirivasan                                 | EIE/2020 -24                 | sabarigirivasan.2006060@srec.ac.in |                                   |
| 4.     | K. Vaideesh                                         | EIE/2020 -24                 | vaideesh.2006053@srec.ac.in        |                                   |
| 5.     | R.Prabhurajan                                       | EIE/2020 -24                 | prabhurajan.2006059@srec.ac.in     |                                   |



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## 8. PLACEMENT ACTIVITIES

### Total Number of Offers:

| Description                       | 2023 – 2024 |
|-----------------------------------|-------------|
| Total Number of Eligible Students | 775         |
| Total Number of Offers            | 579         |
| Total Number of Student Placed    | 502         |

### Package Range in Lakhs:

| S. No. | Company Type     | Package Range (in Lakhs per annum) |         |
|--------|------------------|------------------------------------|---------|
|        |                  | Minimum                            | Maximum |
| 1      | IT Product       | 3                                  | 10      |
| 2      | IT Services      | 3.5                                | 7       |
| 3      | Core Engineering | 3                                  | 10      |
| 4      | Edu Tech         | -                                  | 6       |

## 9. OUTREACH ACTIVITIES

### ▪ National Service Scheme

- General and Special Camps: 18
- Blood Donation Camps: 02
- Appreciation certificate in recognition of commitment and efforts on Mega Collection Drive, jointly with GOONJ, NGO supporting
- Appreciation certificate received by Sri Ramakrishna Educational Institutions for taking part in “Drug Free Kovai” World Record Campaign for the most number of digital pledges received against drug abuse initiated by The Coimbatore City Police and Park Institutions Coimbatore, (SREC – 2734)

### ▪ Youth Red Cross

- Youth Red Cross club organized 6 events and 2 blood donation camps and 1 Blood donation awareness programme, 1 Safety awareness programme on LPG Gas 551 participants benefited.

### ▪ Uyir Club

- Uyir club organized 16 events on road safety and awareness. 524 students participated.
- Frequent campaign is organized to ensure that all two-wheeler riders from campus wear helmet.



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- Award Received by our Students: Second Prize with the Cash Award of INR.5000 in Uyr Design Hackathon Conducted by Uyr Trust, Tamilnadu Police, DJ Academy, DEENS Academy, and DQ Labs run by IITians.

The members appreciated the efforts taken by the Institution and expressed to further strengthen in the following aspects.

- Continuous improvement in academics, research and industry interactions.
- Establishment of Centers of Excellence along with Industries.
- Strengthening Innovation Ecosystem and developing new products
- Infrastructure renovation, hostel renovation.
- Interdisciplinary research and Consultancy works.
- Entrepreneurship and start-ups.
- Placement activities
- Outreach activities

The Chairperson thanked the members for their presence and suggestions.

*N.R. Alamelu*  
**Dr.N.R.Alamelu**  
(Chairperson)

## **Members present**

1. Dr. N.R. Alamelu, Chairman.
2. Mr.Binosh Balachandra, Member, Ui Bridge Solutions.
3. Dr. R.N Uma, Member, Senior Faculty – University.
4. Dr.P.Karuppuswamy-HOD-Mechanical Engineering, Member.
5. Dr.M.Jagadeeswari, HOD/ECE, Member.
6. Mr. Saravanakumar, Member, Architect/Civil Engineer.



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### MINUTES OF THE MEETING

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**The followings are the academic and other development activities strengthened further during the academic year 2022-2023.**

**1. Continuous improvement in academics, research and industry interactions.**

The institution offering B.E. / B.Tech. Programmes in Eleven branches, M.E./M.Tech. programmes with six specializations, MBA and 5 year Integrated M.Tech programme catering to 4500+ students has a vision to be one of the best industry linked institutes preparing the graduates to sustain the growing demands and challenges of the profession.

- Based on the guidelines provided by AICTE, and in the 17th Academic Council of Anna University, Chennai, the following are implemented for UG candidates admitted from the academic year 2021-2022 onwards.
  - ✓ B.E/B.Tech. (Honors) in the same discipline
  - ✓ B.E/B.Tech. Minor in other specialization
  - ✓ B.E/B.Tech. (Honors)
- **Specialization/ Minor - Vertical From Each Programme**

| S. No | Programmes             | Specialization /Minors | Permitted to offer |
|-------|------------------------|------------------------|--------------------|
| 1     | Mechanical Engineering | Robotics               | Specialization     |

|    |                                           |                                              |                       |
|----|-------------------------------------------|----------------------------------------------|-----------------------|
| 2. | Electrical and Electronics Engineering    | Electric Vehicles                            | Specialization        |
| 3. | Electronics and Communication Engineering | Internet of Things(IoT)                      | Specialization, Minor |
| 4. | Electrical & Instrumentation Engineering  | Sensors Technology                           | Specialization, Minor |
| 5. | Computer Science and Engineering          | Artificial Intelligence and Machine Learning | Specialization, Minor |
|    |                                           | Virtual and Augmented Reality                | Specialization        |
| 6. | Information Technology                    | Data Science                                 | Minor                 |
|    |                                           | Cyber Security                               | Specialization        |
| 7. | Civil Engineering                         | Green Technology                             | Specialization        |

• **Progresses made according to the technology roadmap**

- MoU with Lawrence and Mayo (LYNX) for DGCA approved UAV pilot training and an approved training facility.
  - ✓ 2 faculty members and 1 Non-Teaching staff are DGCA certified drone pilots.
- MoU signed with Capgemini Engineering and Bootlabs a start up in the IoT domain
- Brain Computing Interface – two faculty took up training at IIT, Madras and kits have been procured for projects
  - ✓ 2 students are taking up internship at Brain Computer Interfacing Lab, IIT Madras
  - ✓ AR- VR – specialization introduced, AR / VR Lab is established at a cost of INR.20 Lakhs. It includes vuforia software, design platforms, Oculus Quest 2 and Microsoft Hololens HMDs.
- Elective Vehicles – MoU is signed with Mahindra Technical Academy, Chennai is planned to start an EV Lab facility with Rs. 20 lakhs.
  - ✓ 28 students from EEE department have completed joint certification by MRV in Electric Vehicles and have taken up industry internships with Electra Coimbatore and MRV Chennai.
  - ✓ A central facility on Electric mobility is established at a cost of INR.11 Lakhs.
- Agriculture - signed MoU with Tamilnadu Agricultural University to solve problems in the domain of Agriculture.

## 2. Establishment of Centers of excellence along with Industries.

- Inaugurated Capgemini Engineering - SREC Innovation Lab in domain of IoT, automotive electronics and industry 4.0.
- Inaugurated SREC-LTTS Embedded AI Laboratory.

## 3. Strengthening Innovation Ecosystem and developing new products

The collaborative innovation Centre, the MHRD Recognized Innovation Council conducted large number of events to motivate the students to contribute more through innovation. The summary of events organized is listed,

- Total number of events organized : 49

The SEED fund approved for various departments is to encourage innovative ideas and develop Proof of Concept, showcasing to industries. This initiative is also to be on par with the current trends in technology and industry requirements.

- Seed fund Grant and Utilization total value: INR. 6,29,685

| S.No | Department | Name of the Project                                                                                 | Seed Fund Requested In (INR) |
|------|------------|-----------------------------------------------------------------------------------------------------|------------------------------|
| 1.   | ECE        | A quicker way to Diagnose and Trouble shoot vehicle Problems (Techgium PoC)                         | 40,000                       |
| 2.   | EEE        | A quicker way to Diagnose and Trouble shoot vehicle Problems (Techgium PoC)                         | 30,000                       |
| 3.   | RA         | QR with Augmented Reality (Techgium PoC)                                                            | 15,000                       |
| 4.   | Chemistry  | Conversion of carbon Dioxide into potential liquid fuel methanol (Techgium PoC)                     | 40,000                       |
| 5.   | ECE        | Grid line artifact removal and evaluation using Altera DE3 (Techgium PoC)                           | 80,000                       |
| 6.   | Mech,IT    | A vision based solution for cognitive quality Inspection In Manufacturing operations (Techgium PoC) | 1,66,862                     |

|     |     |                                                                  |        |
|-----|-----|------------------------------------------------------------------|--------|
| 7.  | RA  | Autonomous Mobile Robot<br>(Techgium PoC)                        | 60,000 |
| 8.  | EIE | 3D Printer filament making<br>machine using waste PET<br>Bottle  | 45,000 |
| 9.  | EEE | Green bengal Innovation<br>Contest                               | 18,000 |
| 10. | CSE | Crop Doc product –TNAU                                           | 69,823 |
| 11. | BME | Smart health Monitor for<br>Covid 19/SmartIV fluid<br>monitoring | 65,000 |

#### **Student Participations in Innovation Contests, Hackathons, Sports and Others**

- AICTE - Smart India Hackathon 2022 – Software Edition, 4 title Winner INR.4,50,000
- AICTE - Smart India Hackathon 2022 – Hardware Edition 1 title Winner INR.50,000
- Siemens Healtheniers, Bangalore-INR. 5,00,000
- Won Special Jury Award, with a cash prize of INR. 1, 00,000 at LTTS-TECHgium hosted by L&T Technology Services.
- TIH IOT Chanakya UG/PG Fellowship Program 2022 Received Funding Amount of INR.2, 40,000 (ECE Students).
- TIH IOT Chanakya UG/PG Fellowship Program 2022 Received Funding Amount of INR.2, 40,000 (Mech Students).
- SAE BAJA Competition 2023, Auto India Racing Championship ,Hackathon MEDINNOVA22, Formula Kart Racing Championship, Mini Dirt Bike Design Challenge - INR.2,00,000

#### **4. Strengthening the Interdisciplinary research and consultancy works.**

##### **Encouragement for Collaborative Research**

Research mobility to prestigious institutions of National eminence for a short period of time through Summer and winter research fellowship, visiting fellowship, faculty on-campus training, research internships, immersion programme, visiting faculty schemes,

faculty exchange, academic exchange, leadership program etc. with financial support for travel and stay.

#### Research Funding Activities

- Total Number of Funded Proposals Completed : 4
- Total Grant Received (INR) : 20,64,643
- Total Number of Seminar/Conference Grants received : 4
- Total Grants Received (INR) : 95,000
- Total Number of Project Proposals Submitted to Funding Agencies : 29
- Number of Project Proposals recommended for funding : 2
- Total Number of Proposals Submitted to Funding Agencies for conducting conferences/ workshops/ seminars/FDP/STTP : 09

#### Consultancy projects

- Consultancy Projects Completed: INR.29.6 L
- Testing Services offered by Mechanical, Nano Science and Civil departments :INR.60,000

| Sl.No | Department    | Client Organization                                              | Title of Project                                                 | Sanctioned Amount in INR. |
|-------|---------------|------------------------------------------------------------------|------------------------------------------------------------------|---------------------------|
| 1.    | Mech/ IT/ EIE | International Aerospace manufacturing Private Limited, Bengaluru | Artificially Intelligent Robotic Vision Inspection System(AIRVIS | 23,60,000                 |
| 2     | IT            | Rane madras limited                                              | Smart Kisok                                                      | 53,100                    |
| 3     | EEE           | Roots Industries India Limited, Coimbatore                       | Design and Simulation of Switched Reluctance Motor               | 4,13,000                  |
| 4     | CSE           | TiaTech Health Technology Private Limited                        | Tia-Rupee-Hospital Management System                             | 1,32,750                  |
| Total |               |                                                                  |                                                                  | 29,58,850                 |

## 5. Entrepreneurship and start-ups.

The following are the list of students who turned out to be entrepreneurs: 04

| S.No. | Name             | Department /Batch<br>Passed out | Company Name                           |
|-------|------------------|---------------------------------|----------------------------------------|
| 1.    | Mr.B.Simuchand   | CSE/2023                        | Heal Tent Media, Coimbatore            |
| 2.    | Ms.D.R.Nivedha   | Nano / 2023                     | Vamil Herbals, Chennai                 |
| 3.    | Mr.B.DineshKumar | Civil/2022                      | Sri Vinayaga Constructions,<br>Gudalur |

The Current Incubatees registered under SREC SPARK INCUBATON FOUNDATION are

- Tectzo Solutions Pvt. Ltd.
- RBG.AI
- Ui Bridge Solutions
- Makelloz Motors
- Hackup Technology Pvt.Ltd.
- Artispec Pvt. Ltd.

## 6. Infrastructure development.

The establishment of the following new infrastructure facilities is under progress to inculcate research, innovation and entrepreneurial activities.

### SREC- SPARK Incubation Foundation

- ✓ SREC- SPARK Incubation Foundation, Coimbatore, registered as Section 8 Company for nurturing innovation by encouraging, supporting, promoting technology-based start-ups and providing an ecosystem for their growth by Incubating in the Centre.
- ✓ SREC- SPARK Incubation Foundation is established with a built up area of 18505 Sq.ft. at a total cost of INR. 205 Lakhs.

## 7. Placement activities

### Pre Placement Training Initiatives

The activities carried out by the Career Development and Placement Division (CDPD) is as follows.

| S.No | Course/Activity                                        | Duration | Resource                                                |
|------|--------------------------------------------------------|----------|---------------------------------------------------------|
| 1.   | Advance Problem Solving and Programming                | 150hrs   | 1. Amphisoft Technologies/E-Box<br>2. ILearn<br>3. Terv |
| 2.   | Company Specific Training                              | 150hrs   | Six Phrase/My Slate                                     |
| 3.   | Project Readiness Personnel (Talent Next Training-TNT) | 150hrs   | SREC Wipro Certified Faculty members                    |

### Total Number of Offers

| Description                       | 2022-2023 |
|-----------------------------------|-----------|
| Total Number of Eligible Students | 815       |
| Total Number of Offers            | 801       |
| Total Number of Student Placed    | 643       |

### Salary Package

| Batch | Median Salary | Maximum Salary |
|-------|---------------|----------------|
| 2023  | 4.8L /Annum   | 15 L/Annum     |
| 2022  | 4.52L/Annum   | 25 L/Annum     |

## 8. Outreach activities

IBM Volunteer Excellence Award – 2021 of USD 10,000 was granted for outreach activities.

- Career Guidance Program for school students.
  - ✓ Total number of beneficiaries: 1022
- Career Guidance Program for Polytechnic students.
  - ✓ Total number of beneficiaries: 235
- Outreach Program for School Students “Build the First Robot” at Government Higher Secondary School, Adhigaratty, Nilgiris.

- Basic Robot building kits was presented to the same school.
- ✓ Total number of beneficiaries: 45

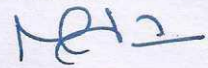
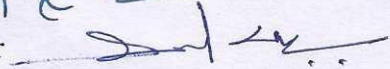
The members appreciated the efforts taken by the Institution and expressed to further strengthen in the following aspects

- Continuous improvement in academics, research and industry interactions.
- Establishment of Centers of excellence along with Industries.
- Establishment of new PG programmes.
- Strengthening Innovation Ecosystem and developing new products
- Patent wall, Hostel renovation & Maintenance, Administrative hall development.
- Interdisciplinary research and Consultancy works.
- Entrepreneurship and start-ups.
- Placement activities
- Outreach activities

The Chairperson thanked the members for their presence and suggestions.

  
Dr.N.R.Alamelu  
(Chairperson)

**Members present**

1. Dr. N.R. Alamelu, Chairman
2. Mr.Binosh Balachandra, Member, Ui Bridge Solutions 
3. Dr. R.N Uma, Member, Senior Faculty – University 
4. Dr.P.Karuppuswamy-HOD-Mechanical Engineering, Member 
5. Dr.M.Jagadeeswari, HOD/ECE, Member 
6. Mr. Saravanakumar, Member, Architect/Civil Engineer 



## **SRI RAMAKRISHNA ENGINEERING COLLEGE**

[Educational Service : SNR Sons Charitable Trust]

[Autonomous Institution, Re-accredited by NAAC with 'A+' grade][Approved by

AICTE and Permanently Affiliated to Anna University, Chennai]

[ISO 9001:2015 Certified and all eligible programmes Accredited by NBA]

Vattamalaipalayam, N.G.G.O. Colony post, Coimbatore – 641 022.



### **PLANNING AND MONITORING BOARD**

#### **MINUTES OF THE MEETING**

Date: 17.05.2022

Venue: Board Room

Dr.P. Karuppuswamy, Vice Principal (Principal In-charge) has welcomed the members and reviewed the status of the academic and other development activities as recorded in the minutes of the meeting of the Planning and Monitoring Board conducted on 10.05.2021.

**The followings are the academic and other development activities strengthened further during the academic year 2021-2022.**

#### **1. Continuous improvement in academics, research and industry interactions.**

- The institution offering B.E. / B.Tech. Programs in Eleven branches, M.E. /M.Tech. programs with seven specializations and MBA and catering to 4500+ students has a vision to be one of the best industry linked institutes preparing the graduates to sustain the growing demands and challenges in the profession.
- SREC is getting prepared for a number of initiatives that aim to achieve academic excellence and quality improvement in line with its mission on providing quality technical education in domain knowledge, including both theory and practice.

#### **Starting of new program at PG level**

Introduction of a new program 5 year integrated M.Tech Computer Science and Engineering to cater the needs in emerging technology.

#### **B.E/B.Tech with Honours / Degree with a Minor**

- Departments are offering specialization/minor courses in the EMERGING AREAS viz., Artificial Intelligence (AI), Internet of Things (IoT), Blockchain, Robotics, Quantum Computing, Data Sciences, Cyber Security, 3D Printing and Design, Augmented Reality/ Virtual Reality (AR/VR) with industrial partners as listed. The minimum additional Credits for such Courses will be in the range of 18-20.

| S. No | Specialization/Minor | Collaborating Industry                              |
|-------|----------------------|-----------------------------------------------------|
| 1     | Cyber Security       | L&T Technology Services, Bengaluru                  |
| 2     | Sensor Technology    | Healthcare Technology Innovation Centre, IIT Madras |
| 3     | IoT                  | Capgemini Engineering and Bootlabs, Bengaluru       |
| 4     | Green Technology     | GRIHA. New Delhi                                    |
| 5     | Robotics             | Wipro, PARI, Bengaluru                              |
| 6     | Electric vehicles    | Mahindra & Mahindra. Chennai                        |
| 7     | Data Science         | Revealer Global solutions, Bengaluru                |

### Universal Human Values Course

- A mandatory course on Universal Human Values is offered to all B.E/B.Tech students as per the recommendations of AICTE.

### 2. Establishment of Centers of excellence along with Industries.

- MoU with Lawrence and Mayo (LYNX) for DGCA approved UAV pilot training and an approved training facility.
- Artificial Intelligence – Specialization introduced and established the Center of Excellence in the campus by GE Healthcare, Bengaluru
- MoU signed with Capgemini Engineering -SREC research centre in the domain of aeronautical engineering.
- Electric Vehicles – MoU is signed with Mahindra Technical Academy, Chennai to offer a set of courses for 20 credits with contents jointly developed by SREC and M&M.

### 3. Strengthening Innovation Ecosystem by establishing new facilities.

The collaborative innovation cell (CoIN), the MHRD Recognized Institution Innovation Council (IIC) conducted large number of events to motivate the students to contribute more through innovation.

| S. No | Event Name                                                                               | Nos. of Beneficiaries |
|-------|------------------------------------------------------------------------------------------|-----------------------|
| 1.    | Workshop on Prototype/Process Design and Development                                     | 62                    |
| 2.    | How to plan for startup and legal ethical steps                                          | 60                    |
| 3.    | Report on Awareness Session on Intellectual Property Rights (IPR)                        | 1500                  |
| 4.    | Demo day /Exhibition /Poster Presentation of Business Plan/prototype developed &/linkage | 60                    |
| 5.    | Session /Workshop on Business Mode Canvas                                                | 54                    |

|                                      |                                                                                     |             |
|--------------------------------------|-------------------------------------------------------------------------------------|-------------|
| 6.                                   | Seminar On Startup Incubation                                                       | 72          |
| 7.                                   | Webinar on IPR & patent search tool                                                 | 15          |
| 8.                                   | Workshop on 'Green and Sustainable Building Technology for Today and Tomorrow'      | 70          |
| 9.                                   | Innovative Parametric Modeling Techniques Using 3D Experience Solid Works"          | 21          |
| 10.                                  | Session on 'Impact of Technological advancements and Social changes on Environment' | 120         |
| 11.                                  | National Intellectual Property Day Celebrations                                     | 50          |
| 12.                                  | Session on accelerating /incubations opportunities for women entrepreneurs          | 50          |
| 13.                                  | Learn to Start up &Minimum viable Product /Business                                 | 85          |
| 14.                                  | Innovation and Prototype validation                                                 | 143         |
| 15.                                  | Design Thinking ,Critical thinking and Innovation Design                            | 150         |
| 16.                                  | Out of the Box thinking for Problem Solving                                         | 90          |
| 17.                                  | Innovation in Virtual Reality /Augmented Reality                                    | 60          |
| <b>Total number of beneficiaries</b> |                                                                                     | <b>2662</b> |

- A new facility of area 5000 sq.ft under construction to house AICTE – IDEA lab to disseminate innovation culture to schools, colleges, MSME's etc.

#### **4. Strengthening the Interdisciplinary research and consultancy works.**

To stabilize the research and innovation ecosystem, to nurture human resources and to foster rigorous domestic research, our Institution established the institutional Post Doctoral Fellowships (PDF) to the cumulative tune of Rs. 12 Lakhs per annum, wherein, each fellow would receive a monthly fellowship of Rs. 30,000/- and an annual contingency grant of Rs. 40,000/-. These fellowships will be for an initial period of two years and can be extended to the third year depending on the annual research performance and outcomes.

#### **Statistics on progress in research and Development**

No of Scholars : Full time: 23; Part time: 128

No of full time with institutional fellowship: Six

No of full time with Government fellowship: Five

- Maulana Azad National Fellowship For Minority Students
- DST Women Scientists Scheme-A
- CSIR Senior Research Fellowship (SRF-Direct)
- DST Waste Management Technologies

#### **Funding**

Unnat Bharat Abhiyan Rs. 5,00,000

INSA Visiting Scientist Rs. 60,000

Ministry of mines Rs. 34,81,000

DST WOS(A) Rs. 10,00,000

Applied

DST – TDP Rs. 99,59,198

DST – AMT Rs. 41,18,400

The horizontal integration of Science, Technology and Innovation goals into our institutional policies helps to achieve sustained Research, Innovation and Extension (RI&E) accomplishments. The key parameters that govern the RI&E ecosystem are: research investment and funding, research promotion policies, researcher density, publication output, IPR and technology transfer, and congenial environment (for products & startups). Certain elements are crucial in developing RI&E as a culture and they are robust strategies for promoting RI&E, innovation ecosystem, nurturing human resources and domestic research, reducing brain drain, and synergizing research activities. The following are the key highlights in alignment with the research and innovation as a culture. (i) Ecosystem for sustained research and congenial environment for synergizing research activities (ii) Institutional research fellowship of Rs. 15,000 per month (iii) Annual contingency grant of Rs. 20,000 for the purchase of consumables, books, conferences etc. (iv) SEED money to the scholar-supervisor team for POC developments and TRL progressions (v) Decentralized access to the nominal recurring grants on a monthly basis (vi) Collaborative Innovation Centre facilitating ideas to prototype and subsequent technology transfer (vii) Campus Innovation Incubation Foundation and Innovation Council for the research that stimulates innovation and has relevance to the entrepreneurship (viii) IP Cell network for innovative and inventive project/product /process. Our institution has received fellowships for research scholars as well as faculty. The Government funding agencies and the schemes are summarized: Maulana Azad National Fellowship for Minority Students, DST-INSPIRE, DST-WOSA, CSIR-SRF (Direct), DST-WMT, INSA-visiting scientist, SERB-TARE and several other researcher mobility and collaborative schemes of Govt. of India and institutes of eminence such as IITs, NITs and IISERs.

### Consultancy projects

| S.No | Names of the teacher-consultants                                    | Name of the consultancy project                                    | Consulting/Sponsoring agency with contact details                | Revenue generated in (INR) |
|------|---------------------------------------------------------------------|--------------------------------------------------------------------|------------------------------------------------------------------|----------------------------|
| 1.   | Dr.J.Yoganandh (Mech)<br>Dr.C.Ranjeetkumar(IT)                      | Automated Material Test Report(MTR) Data Extraction and Validation | Cameron Manufacturing India Private Ltd.                         | 2,00,000                   |
| 2.   | Dr.J.Yoganandh(Mech)<br>Dr.C.Ranjeetkumar(IT)<br>Mr.R.Raveen (Mech) | AI Powered Manufacturing                                           | International Aerospace manufacturing Private Limited, Bengaluru | 3,06,800                   |
| 3.   | Dr.J.Yoganandh(Mech)<br>Dr.C.Ranjeetkumar (IT)                      | Artificially Intelligent Robotic Vision                            | International Aerospace manufacturing Private Limited, Bengaluru | 6,00,000                   |

|                                |                                                                                                                                                     |                                                          |                                                    |                  |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------|------------------|
|                                | Mr.N.R.Karthik(Mech)<br>Mr.R.Raveen(Mech)<br>Mr.Y.Dharsan(EIE)                                                                                      | Inspection<br>System(AIRVIS)                             |                                                    |                  |
| 4.                             | Dr.S.Allirani(EEE)<br>Mrs.H.Vidhya(EEE)                                                                                                             | Design and Simulation<br>of Switched Reluctance<br>Motor | Roots Industries India<br>Limited, Coimbatore      | 2,57,250         |
| 5.                             | Dr.R.Anuradha(CSE)<br>Dr.C.Ranjeetkumar(IT)<br>Dr.J.Anitha(IT)<br>Mrs.N.Saranya(IT)<br>Mrs.P.Sugantha<br>Priyadharshini(CSE)<br>Mrs.S.Birundha(CSE) | SREC-GE Innovation<br>lab Research Project               | GE Healthcare,<br>Bangalore                        | 12,00,000        |
| 6.                             | Mr.N.R.Karthik(Mech)<br>Dr.V.Srinivasan(Mech)<br>Mr.Y.Dharsan(EIE)                                                                                  | Machine Vision System                                    | Bimetal Bearings<br>Private Limited,<br>Coimbatore | 73,693           |
| 7.                             | Mr.N.R.Karthik(Mech)<br>Dr.V.Srinivasan(Mech)                                                                                                       | Gang inspection system<br>for detecting Blockage         | Indo Shell Cast Private<br>Limited, Coimbatore     | 34,200           |
| Total revenue generated in INR |                                                                                                                                                     |                                                          |                                                    | <b>26,71,943</b> |

#### Other collaborative projects

| Sl.<br>No. | Title of the Project                                                                                                      | Domain                      | Name of the Industry |
|------------|---------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------------------|
| 1.         | Identification of Equipment in ICU,<br>Gesture recognition . in ICU<br>Room, Voice/Video Data Ingestion                   | Health care                 | GE Health Care       |
| 2.         | X-Ray Image Viewer Tool Design<br>Automatic Segmentation of Liver and<br>Perform Volumetric assessment Using<br>CT Images | Medical Image<br>Processing | LTTS                 |
| 3.         | Net Zero Sustainability GHG<br>Reporting                                                                                  | Sustainability              | IAMPL                |
| 4.         | Water Audit                                                                                                               | Green Audit                 | Southern Railways    |

#### 5. Entrepreneurship and start-ups.

- Initiatives for establishing SREC – SPARK Incubation Foundation, as section – 8 company to incubate fresh entrepreneurial initiatives and startups.
- RBG-AI, UI Bridge solutions, Tectzo solutions private limited currently incubated under SREC-SPARK.
- An incubation facility in Aluminum Recycling with the funding of about Rs. 3 crores from the Ministries of Science and Technology and Mines is under progress with the management fund of Rs. 80 lakhs.

#### 6. Infrastructure development.

The establishment of the following new infrastructure facilities is under progress to inculcate research, innovation and entrepreneurial activities.

| New Facilities Created |                                               |               |                 |
|------------------------|-----------------------------------------------|---------------|-----------------|
| S. No                  | Description                                   | Built up area | Total Cost      |
| 1.                     | AICTE - IDEA LAB                              | 5,000 Sq.ft.  | INR 1,46,90,507 |
| 2.                     | Aluminium Recycling Center                    | 6,000 Sq.ft.  | INR 80,00,000   |
| 3.                     | Robotics and Automation Laboratory facilities | 3,000 Sq.ft.  | INR 88,00,000   |

The members appreciated the efforts taken by the Institution and expressed to further strengthen in the following aspects

- Continuous improvement in academics, research and industry interactions.
- Establishment of Centers' of excellence along with Industries.
- Strengthening Innovation Ecosystem and developing new products
- Interdisciplinary research and Consultancy works.
- Entrepreneurship and start-ups.
- Infrastructure development.
- Placement activities
- Outreach activities

Dr.P. Karuppuswamy, Vice Principal recalled guidance and support extended by the Management and Dr. N R Alamelu, Principal. He thanked all the members for their presence and suggestions.

**Dr.P. KARUPPUSWAMY**  
**Principal In-Charge**  
**(Chairperson)**

#### Members present

1. Dr.P.Karuppuswamy-HOD-Mechanical Engineering, Member
2. Mr.Binosh Balachandra, Member, Pricol Technologies
3. Dr. R.N Uma, Member, Senior Faculty – University
4. Dr.M.Jagadeeswari, HOD/ECE, Member
5. Mr. Saravanakumar, Member, Architect/Civil Engineer