



# **SARANATHAN COLLEGE OF ENGINEERING**

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

## **ANNUAL REPORT OF THE INSTITUTION**

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## SARANATHAN COLLEGE OF ENGINEERING, TRICHY - 12

### ANNUAL REPORT FOR THE YEAR 2020-21

I take great pride & pleasure in presenting the College Annual report for the year 2020-21.

#### **Infrastructure / Development:**

- New Equipments were purchased to enhance the equipments facilities in the laboratories.
- SCE has signed MoU for centre of excellence with Zentron labs Pvt Limited, Bangalore.
- Requisition for purchasing of DST funded project equipments are submitted to principal and get approval on 19-3-2021.

#### **Admissions:**

- Thanks to the brand image the college has created and sustained and the continued confidence that the parents and students have reposed on our institution, we have been able to meet admission requirements this year also with enviable ease, under pandemic situations to fill more than 85% seats.

#### **Academic performance of the students:**

- I am very pleased to register at this juncture that the college proves to produce good results in the Anna University examinations this academic year also.
- It is again a moment of pride and pleasure to report that many students have brought laurels to the institution by obtaining distinctions and first class in academics.

#### **Co-curricular activities:**

In addition to attaining its mission of providing a quality academic education, the institution encourages and facilitates the students to participate in other co-curricular activities like seminars, symposiums and paper presentations. Due to

paucity of time, we are not able to cover all such achievements but would like to list a few significant student contributions:

- CSE Students from final year Paper presentation at “6th international conference on Advanced computing and communication system (ICACCS)” organised Sri Eshwar Engineering College on 3<sup>rd</sup> November 2020.
- CSE departments students participated in "IEEE 4th International Conference on Computing Methodologies and Communication (ICCMC-2020)" at Surya Engineering College, Erode on 3<sup>rd</sup> November 2020 participate by final year students.
- II, III and IV year students of EEE department has participated and won prizes in various technical events and Non-technical events conducted by other Institutions.
- Final year passed out ICE student G.Krithiga ( 2020 batch )has secured the 2nd rank in the University ranks declared by Anna University.
- Rukmani.N , ICE Final year student certified in CLD exam conducted by National Instruments
- 35 final year students of ICE participated in CLAD training conducted by opt thought from 22-2-2021 to 27-2-2021,1-3-2021 and 20 students had cleared CLAD exam conducted on 2-3-2021.
- As many as 25 first year MBA students (Batch of 2020-2022) enrolled in various online certification courses and successfully completed them to supplement their academic requirements and to upskill themselves.

### **Staff Achievements:**

One of the reasons for such a creditable co-curricular performance of the students would undoubtedly be the effort of the faculty to strive and become role models by constantly upgrading their knowledge and qualifications.

Faculty members have participated in various 117 technical and non-technical programmes like FDP, workshops and conferences etc., The College has organised 13 training programs such as FDP, workshops, conference etc., for teaching and non teaching of various institutions. In addition our faculty members have published 214 articles in reputed Journals, National and International conferences.

### **Research and Development:**

As a fitting reward to the sustained efforts by our faculty members to get consultancy projects and research projects with funding, we have had quite a few successes this year.

- The Department of EEE has established a new lab at KS102 **Renewable Energy Sources Lab** with the total cost of **Rs 23,72,924/-** and under the **AICTE-MODROB Scheme “Modernization of Power Electronics Lab for Integration of Renewable Energy Sources”** received a grant of **Rs.13,76,176/-**.
- **Dr.C.Krishnakumar**, HoD/EEE has received a grant of **Rs.93,000/-** from AICTE to conduct 14 days Online FDP “ Electrical Paradigm shift to Cyber Physical Systems and Contemporary Research in Electrical and Electronics Engineering”. 3<sup>rd</sup> may 21-15 may 21.
- **Dr.C.Krishnakumar**, HoD/EEE has received a grant of Rs.2,79,000/- from AICTE to conduct One week online Short Term Training Programme (STTP) “Novel Design & Control Strategies and Innovative Technical Practices in LV/HV Modern Switch Gear”.
- Mr.P.Thirumurugan of ICE department had got approved for DC meeting for PhD Viva from Anna University on 19/4/2021.

- Mr.P.Aravind of ICE department had successfully completed his final viva voice and received doctrol degree under the Guidance of Dr.S.M.GiriRajKumar,HOD/ICE.
- In mechanical department, six research scholars have successfully completed their Ph.D programme in our research centre, recognized by Anna University, Chennai.
- Dr. R. Sumathi Professor and Head Department of IT has received **Rs.1,00,000** from **AICTE** for organizing **STTP** on “Big Data Analytics”

### **Placement:**

- We have an impeccable campus placement record during this academic year 2020-2021. The important companies in which our students have offers include Infosys Ltd, Tech Mahindra, TCS, CTS, E-Con Systems, Zentron, Zoho, WIPRO, Siemens, yokogawa, etc. I am very proud to record here that this year was the 15<sup>th</sup> consecutive year for Infosys as our Day-1 hirer
- I feel very happy to report that more than 70 % eligible students of final year have been selected during campus interviews in **80 different software and core industries** for 2021 batch.

### **Training:**

- In our efforts to prepare the students to be ready for the real life corporate world we bring in resource persons from the corporate world to share with our students their experience and their view points on the various cutting edge technologies.
- A special online lecture titled “Essence of learning and development in a dynamic work scenario” was organised on 08<sup>th</sup> February 2021. Sri. Prasanth Govindaraj, Training Manager, Learning and Development, Flex was the resource person.

### **Extracurricular Activities:**

- We believe that our students must get an all round education as engineering graduates to become responsible members of the society that they will become a part of. As an institution we encourage the students to participate in various inter-collegiate events where they can exhibit and imbibe extra-curricular education. That our students are socially well received is evident from the fact that I am almost flooded with requests from students who have been invited to participate in some event or the other conducted by other colleges. Just to ensure that my report does not stand between you and the cultural that would follow I am not listing the meritorious achievements of our students in all such extra-curricular fields.

### **Sports:**

- As mentioned by our Physical Director, we encourage and facilitate the students to participate in many inter collegiate and University level tournaments.
- Hemanth.K.K and Bharath samvel.D from second year participated and Anna University zonal tournaments held on 19-3-2021 and secured as Runners in Chess competition

The success story of our institution makes us remember the two important personalities – our founder secretary Vidya Seva Ratnam, Guru Seva Mani Auditor K Santhanam and our Bhishmacharya late director Prof. V. Nagarajan who led the path in which we are successfully marching towards Silver Jubilee after relishing the taste of bi-decennial achievements. Experiencing the showers of their blessings, our respect and gratitude will be for them ever and ever.

I would like to thank the Management of our institution in general and our Secretary in particular for giving me this opportunity to be part of our joint efforts to elevate the status and Brand image of this noble Educational Institution.

I must also thank the students, the biggest stakeholder here, for maintaining discipline and for the love and respect that they shower on me. The members of the staff both teaching and non-teaching deserve my sincere thanks for their unstinted support.

I am sure with all your support I can safely assure all the stake holders that we would certainly enhance the premium position that the institution currently enjoys.

**Thank you**



**Principal**





## SARANATHAN COLLEGE OF ENGINEERING, TRICHY - 12

### ANNUAL REPORT FOR THE YEAR 2019-20

I take great pride & pleasure in presenting the College Annual report for the year 2019-20.

#### **Infrastructure / Development:**

- New Equipments were purchased to enhance the equipments facilities in the laboratories.

#### **Admissions:**

- Thanks to the continued confidence and high regard that the parents and students have reposed on our institution, we have been able to fill all the seats this year also.

#### **Academic performance of the students:**

- I am very pleased to register at this juncture that the college proves to produce good results in the Anna University examinations this academic year also.
- It is again a moment of pride and pleasure to report that many students have brought laurels to the institution by obtaining University ranks, distinctions and first class in academics.

#### **Co-curricular activities:**

In addition to attaining its mission of providing a quality academic education, the institution encourages and facilitates the students to participate in other co-curricular activities like seminars, symposiums and paper presentations. Due to paucity of time, we are not able to cover all such achievements but would like to list a few significant student contributions:

- The 24 hr Hackathon Contest was organized by Ramco Systems, Chennai on the 4<sup>th</sup> and 5<sup>th</sup> jan 2020. 4 students from Final year CSE students have participated.
- Students from final year Paper presentation at "6th international conference on Advanced computing and communication system (ICACCS)" organised Sri Eshwar , Engineering College on 3<sup>rd</sup> November 2020.



- "IEEE 4th International Conference on Computing Methodologies and Communication (ICCMC-2020)" at Surya Engineering College, Erode on 3<sup>rd</sup> November 2020 participate by final year students.
- A team of Second year, Third year and Final year students participate on various technical events such as Technical Fests -Coimbatore Institute of Technology, Coimbatore on 28<sup>th</sup> August 2019, SMARTERA2K19 - K.Ramakrishnan College of Engineering, Trichy, on 28<sup>th</sup> August 2019, Technical Symposium - Excel Engineering on 21<sup>st</sup> September 2019, TeK Cluster 19 - Kongunadu College of Engineering and Technology on 8<sup>th</sup> September 2019, National Techno Management Fest was conducted by SASTRA Deemed University, Thanjavur ,on 4<sup>th</sup> and 5<sup>th</sup> Jan. 2020.
- Final year CSE students participate on Impact Workshop & Project Expo organized by Saranathan College of Engineering on 16<sup>th</sup> and 14<sup>th</sup> September 2019.
- Nagimma Begam.M,Varshinee R,Santhoshini R from final year had secured 3rd,5th,7th university ranks in April/May 2019 Examinations
- Anna University Results declared on 29.1.2020(2nd yr-42% pass,3rd yr-71.43% pass,4th yr-40.35% pass)
- The first year students, Ms. R. Hemaltha, Ms. P. Harini, Ms. V. Gayathri and Ms. R. Yogeshwari emerged winners in the event "Management Games" as part of TIECOONS 2K19 organised by Jamal Mohamed College,Trichy on 16<sup>th</sup> and 17<sup>th</sup> October 2019.
- The following first year MBA students, were runners-up in the Ad zap event of PROGYAN 2K19 conducted by SASTRA University,Tanjore on 20<sup>th</sup> September 2019.
  - Mr.D.S.PrasathKumar
  - Mr.S.Roshan
  - Mr.B.S.RajKumar
  - Mr.K.YuvanShankar
- Two students, Mr.S.Santosh and Ms.A.Doney Anglisha emerged runners-up in the Stock War event of TIECOONS2K19 organised by Jamal Mohamed College, Trichy on 16<sup>th</sup> and 17<sup>th</sup> October 2019.

- Fifty seven students of our third year underwent training on Digital Prototyping using Autodesk Inventor Series organized in collaboration with ICTACT.
- Our student team, 'TEAM STEALTH' was one among the 80 teams that participated in the Dynamic Event hosted by SAEISS and organized by SRM University, Kattakulathur, Chengalpattu District. Won 1st Prize for Best Technical Presentation out of 80 teams that participated from all over India with a cash prize of 10,000/-.
- Our students designed and fabricated AVION "The wind Flutterer". This car was presented at the event, NSVC 2019-2020 held (from 28/02/2020 to 03/03/2020) at Visvesvaraya National Institute of Technology, Nagpur where they secured the Overall runner up award with a cash prize of Rs.40, 000/-, AUTO CROSS WINNER with a cash prize of Rs.10, 000/-, BATTERY ENDURANCE RUNNER UP with a cash prize of Rs.7, 500/-.
- Our student team SHARIK 3.0 (39 students) excelled in SUVVC 2019-2020 (Saur Urja Vehicle Challenge) organized by RSTE held at Hindustan College of Engineering and Technology, Coimbatore and secured Overall runner up award with a cash prize of Rs.50,000/-, Best steering control award winner with a cash prize of Rs.5,000/-, Best suspension and traction award winner with a cash prize of Rs.5,000/-, Best Innovation award winner with a cash prize of Rs.4,000/- and Team spirit Trophy. The same car was awarded overall 2nd runner up award with a cash prize of Rs 20,000/-, Auto cross A and B winner with a cash prize of Rs 10,000/-, Team spirit award with cash prize of 2500/- in NSVC 2019 held at REVA University at Bangalore.

### **STAFF ACHIEVEMENTS:**

One of the reasons for such a creditable co-curricular performance of the students would undoubtedly be the effort of the faculty to strive and become role models by constantly upgrading their knowledge and qualifications. Faculty members were participated in various 516 technical and non-technical programmes like FDP, workshops and conferences etc., The College has organised 15 training programs such as FDP, workshops, conference etc., for teaching and non teaching of various institutions. In addition our faculty members have published 110 articles in reputed Journals, National and International conferences. Two research scholars have successfully completed

their Ph.D program in our research centre, recognized by Anna University, Chennai.

### **Research and Development:**

As a fitting reward to the sustained efforts by our faculty members to get consultancy projects and research projects with funding, we have had quite a few successes this year.

- **Dr.C.Krishnakumar**, HoD/EEE & **Dr.S.Thamizharasan** Associate Professor/EEE have received a grant of Rs.30,000/- from The Institution of Engineers (IEI) for” Design and Fabrication of Power Electronic Interface for Fixing and Removal of Bearing and Coupling in Mechanical System using Induction Heating”.
- **Dr.S.Vijayalakshmi** Associate Professor/EEE has received a grant of **Rs.5,00,000/-** from AICTE to conduct a Two days International Conference on “Cutting Edge Technology on Electrical Communication Embedded System and Soft Computing Techniques”.
- **Dr.C.Krishnakumar**, HoD/EEE & **Dr.K.Kalyanakumar**, Professor/EEE has received a grant of Rs.30,000/- from Anna University to conduct a Five Days FDP on “**EE8602-Protection and Switchgear**” .
- **Dr.C.Krishnakumar**,HoD/EEE (1-Team), **Mr.P.RameshBabu** AP/EEE (4-Teams), **Ms.N.Gayathri** AP/EEE (1-Team) and **Mr.S.Sivakumar** AP/EEE (1-Team) mentored 9 Teams for National Level Competition on :Innovation Challenge Design Contest IICDC-2019” organized by DST & Texas Instruments and each team is sponsored with USD 200(Approximately 1,36,800INR cumulatively) for successful completion of their project.
- **Dr.K.Kalyanakumar**, Professor/EEE is a certified Energy Auditor and plays a vital role in consultancy works.
- **Mr.S.Ramprasath** AP/EEE & **Ms.R.Shiva Ranjani** AP/Mech mentored a team name **PHEONIX 3.O** of 40 students( 20 students from EEE+18 students from Mech+2 students from ICE) participated in **NSVC (2019)** National Solar Vehicle Challenge conducted by Dynamist Motor Sports and Won the **overall Runners up award** with a cash prize of **Rs.40,000/-** , **AUTO CROSS**

**WINNER** with a cash prize of **Rs.10, 000/-** and **BATTERY ENDURANCE RUNNER UP** with a cash prize of **Rs.7, 500/-** .

- **Mr.P.Ramesh Babu** ,AP/EEE and **Mr. P.Vigneshwar**, (AP /Mech) team name **SHARIK 3.O** of 39 students (26 students from EEE,13 students from Mech) participated in **SUVC (2019)** Saur Urja Vehicle Challenge organized by RSTE (Refrangible Society of Technophile Engineers) ,Bangalore and Won the **Overall runner up award** with a cash prize of **Rs.50,000/-** , **Best steering control award** winner with a cash prize of **Rs.5,000/-** , **Best suspension and traction award** winner with a cash prize of **Rs.5,000/-**, **Best Innovation award** winner with a cash prize of **Rs.4,000/-** , **Team spirit Trophy** and also **Guru Dhronacharya Trophy** (Mentor award).
- **Ms.N.Gayathri** AP/EEE, mentored a team of 4 students participated in **E-Yantra 2019** a National Level competition conducted by IIT Bombay, Splnsored by MHRD and won Regional Level.
- **Ms.N.Gayathri** AP/EEE, mentored a team of 25 students participated in **BAJA- 2019** a National Level competition organized by SAE India and cleared the Technical Round.
- **Ms.K.Ezhilarasi**, AP/ICE, had received Rs.7500/- from TNSCST for the project titled “Artificial Intelligence based Smart Building Controller” under Student Project Scheme
- **Ms.K.Ezhilarasi**, AP/ICE - Ph.d admission got confirmed and received a letter from Anna University on 3.1.2020 and conducted First DC meeting on 10.1.2020
- **Dr. R. Sumathi** Professor and Head Department of IT has received Rs.20,000 from IEI for organizing a workshop on “Machine Learning Techniques using PYTORCH.
- **Dr.V.Mahalakshmi**,Assistant Professor of MBA received Rs 40,000/- grant from Department of Science and Technology, New Delhi to conduct Entrepreneurship Awareness Camp.

### **PLACEMENT:**

- We have an impeccable campus placement record during this academic year 2019-2020. The important companies in which our students have offers include Infosys Ltd, Tech Mahindra, TCS, CTS, E-Con Systems, Zentron, Zoho, WIPRO, etc. I am very proud to record here that this year was the 15<sup>th</sup> consecutive year for Infosys as our Day-1 hirer
- I feel very happy to report that more than 70 % eligible students of final year have been selected during campus interviews in **80 different software and core industries** for 2021 batch.

### **Training:**

- In our efforts to prepare the students to be ready for the real life corporate world we bring in resource persons from the corporate world to share with our students their experience and their view points that will help students to be updated on the latest happenings in business, industry and to act as academia-industry synapse.
- The Department of Management Studies organised a flagship programme “Mudivedu Munneru” anchored by Dr. K.Karthikeyan HoD/MBA on 29<sup>th</sup> February 2020. Mr. H. Ashok Kumar, Managing Director, Indar Electricals, Trichy was the Chief Guest. The esteemed entrepreneur shared his insights about the business.
- On 06<sup>th</sup> March 2020, the Department of Management Studies organized the eighth edition of their flag ship programme, “Lakshya” under the banner “Lakshya2k20”-an inter-college level Management Meet for under graduates.

### **Extracurricular Activities:**

- We believe that our students must get an all round education as engineering graduates to become responsible members of the society that they will become a part of. As an institution we encourage the students to participate in various inter-collegiate events where they can exhibit and imbibe extra-curricular education. That our students are socially well received is evident from the fact



that I am almost flooded with requests from students who have been invited to participate in some event or the other conducted by other colleges. Just to ensure that my report does not stand between you and the cultural that would follow I am not listing the meritorious achievements of our students in all such extra-curricular fields.

**Sports:**

- As mentioned by our Physical Director, we encourage and facilitate the students to participate in many inter collegiate and University level tournaments.

**Alumni Meet:**

- To bridge the gap between the industry and academia, the college arranges a branch wise Alumni Meet with very encouraging results.
- The alumni regularly visit the campus, address and motivate the present final and pre-final year students and keep them informed of the industry expectations and developments.
- Such alumni meets have also generated potential corporate hirers for the institution.

The success story of our institution makes us remember the two important personalities – our founder secretary Vidya Seva Ratnam, Guru Seva Mani Auditor K Santhanam and our Bhishmacharya late director Prof. V. Nagarajan who led the path in which we are successfully marching towards Silver Jubilee after relishing the taste of bi-decennial achievements. Experiencing the showers of their blessings, our respect and gratitude will be for them ever and ever.

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staff both teaching and non-teaching deserve my sincere thanks for their unstinted support.

I am sure with all your support I can safely assure all the stake holders that we would certainly enhance the premium position that the institution currently enjoys.

**Thank you**



**Principal**