



EASWARI ENGINEERING COLLEGE

(An Autonomous Institution)

Affiliated to ANNA UNIVERSITY



AUTONOMOUS

ANNUAL REPORT 2022-23



“The future belongs to those who believe in the beauty of their dreams”, with these words of Roosevelt, I am extremely elated and privileged to place before you, the highlights of our college activities and events happened during the Academic year 2022-23.

Easwari Engineering College comes under the SRM group of Institutions, affiliated to Anna University, Chennai and Government of Tamil Nadu. The College was established in 1996. The College is located at Ramapuram, well within the city and 5 kms from Airport. The College has good infrastructure facilities including several multi- storeyed buildings, library, open-air/closed auditoria, sports grounds, hostels, etc.

I am delighted to inform you that a total of 2024 new graduands have undergone a comprehensive academic programme. Amongst them, there are 1732 UG graduands, 278 PG graduands and 14 Doctorates. These young graduands are now enjoying the fruits of their hard work and are ready to serve the nation and world at large.

ACADEMIC PROGRAMS

Our college is offering 19 programmes which include 12 Undergraduate Programmes in “Engineering and Technology” and 6 Post Graduate Programmes. Also, 10 Departments are recognised as Research Nodal Centre. Our institution is affiliated to Anna University, Chennai since 2002. The institution is accredited by NAAC with “A” grade and 7 UG programs are accredited by NBA. Also, the institution is ISO 9001:2015 certified by TUV SUD, South Asia.

The following UG and PG programmes are offered in our College.

UG

Automobile Engineering

Biomedical Engineering

Civil Engineering

Computer Science and Engineering

Computer Science and Engineering

(Artificial Intelligence and Machine Learning)

Computer Science and Engineering (Cyber Security)

Electrical and Electronics Engineering

Electronics and Communication Engineering

Mechanical Engineering

Robotics and Automation Engineering

Artificial Intelligence and Data Science

Information Technology

PG

Computer Science and Engineering

Communication Systems

Embedded System Technologies

Structural Engineering

Engineering Design

Master of Business Administration

Nodal Research Centre

Automobile Engineering

Civil Engineering

Computer Science and Engineering

Electrical and Electronics Engineering

Electronics and Communication Engineering

Mechanical Engineering

Mathematics

Physics

Chemistry

English

INFRASTRUCTURE

The institution provides excellent infrastructure for the execution of academic, co-curricular and extra-curricular activities. The classrooms are equipped with LCD Projectors, Internet and Intranet connectivity. The library is housed in two mezzanine floors and is KOHA enabled.

It is well stocked with 21,480 titles, 79,930 volumes and over 1,614 online e-journals with 114 print journals. It has the space of 2,100 square feet with the seating capacity of 350 students. It has ICT based teaching facility with two audio visual halls with the capacity of 120 students. Our Central library has a registered NDLI Club to facilitate learning among students through activities at national level. Also, it has DELNET membership which has world

e-Book library with sharing of resources among the libraries through the development of a network of libraries.

E-Yantra Lab has been established in collaboration with MHRD, IIT - Mumbai and Texas instruments. Advanced Structural laboratory and Virtual Instrumentation Laboratory has been established at a cost of Rs.66 Lakhs and Rs.19 Lakhs respectively. AI lab is set at the cost of Rs. 1.69 crores and robotics lab at the cost of 1.2 crores.

Industry Supported Lab introduced for UG Civil Engineering Students as a part of curriculum in 6th semester Regulation 2019 as MEP Services Laboratory established with the grant of around Rs.28 Lakhs from 32 companies.

Around 2,500 square feet make up the FAB LAB. Civil construction is finished, and it is being augmented with the necessary infrastructural equipment.

Ambulances, Medical practitioner, multi speciality hospital near campus with 150 beds are in readiness for use as and when the need arises.

Green environment consciousness is ensured with Sewage Treatment Plant, Recycling plants and Rainwater harvesting in all buildings and with more than 700 trees here on campus.

The college campus and hostels are Wi-Fi enabled with excellent internet connection of 1Tbps (1:1) primary service.

INSTITUTIONAL ACHIEVEMENTS

Institution received “Autonomous” status by UGC in the year 2019.

Easwari Engineering College NIRF Ranking by MHRD, India for the years,

- In 2023-151-200 Band
- In 2022 – 181st Rank
- In 2021 – 189th Rank

Easwari Engineering College has received a fund of Rs. 20 lakhs from AICTE under SAMRIDDHI SCHEME. 9 start-up teams were established through this scheme from various departments.

AICTE has sanctioned a Grant-in aid of Rs. 25 Lakhs to Easwari Engineering College under the Scheme of Share & Mentor Institution (Margdarshan) to improve the quality parameters of Mentee Institutes so that over a period of time, the programs of the mentee institutes will get accreditation by NBA.

We thank AICTE for providing opportunities and funding under various schemes like RPS, MODROBS, SPICES, KARMA, NITTT, PMKVY etc.

Ashok Leyland Limited, Hosur, CREDAI Chennai and SCHWING SETTER PVT LTD provided “One year student on the job training (OJT)”, to the final year students with a stipend.

Many organizations like SANSEL, KEYSTONE, ZOHO also provide long duration Industry engagement. Internships are mandatory in our Regulations. We have implemented Internships very well and rated by Internshala at All India 76th position. In Easwari, Industry connect happens from 1 hour to 1 year.

INSTITUTIONAL ACTIVITIES

The Institution offers opportunities to the students to participate in various professional societies such as ISTE, IETE, IEEE, ISA, CSI, SAE, ACE, ISRAC, MMA, ICI, IE, IET, SECE, ACM, SAIT, ISHRAE, SME and student clubs such as NSS, YRC, ROTARACT, YUGA, Google Student Club, Energy club, Green Energy Club, Free and Open Source Software club, Electronics Hobby club.

The Campus Life of EEC the student body of Easwari Engineering College, actively conducted and organised cultural events and other events like splash, Virtuosity which comprised of competitions, Tamil poetry writing, quiz and many more. Navratri, Pongal, Christmas celebrations also took place in remarkable fashion. Women's Day and International day of Yoga celebration were also conducted.

As a part of Outreach programme, Project Day 2022 & 2023 was conducted.

PLACEMENT AND HIGHER STUDIES

Our placement record is consistently 98%. 350 companies have visited for recruitment. Students received highest placement in leading IT and Core Companies with salary package ranging from 10 lakhs to 44 lakhs per annum.

More than 20% of students graduating from our institution are admitted for Master's programme at prestigious Universities abroad such as

Imperial College, UK

Georgia Tech, USA

University of Florida, USA

Carnegie Mellon University, USA

University of Minnesota, USA

University of Texas, USA

University of Illinois, USA

University of Buffalo, USA

Technical University of Berlin, Germany

Jamescook University, Australia

University of Ottawa, Canada

Deakin University, Australia

National University of Singapore, Singapore

University of Bedford Shire, UK.

Uppsala University, Sweden.

Ecale Centrale DeNates, France.

University of Hertfordshire, UK

University of Cincinnati, USA

University of Maryland, Baltimore County

ALUMNI

A strong Alumni network ensures that frequent interactions take place with Alumni guest on current topics, process of admission for higher studies and placement opportunities. Alumni also conduct mock interviews. Our Alumni are contributing in Defence, Central and State Public Services, Software, Educational and Cultural Core Industries.

MOUs

International MoU's has been signed between SRM Group of Institutions and Foreign Universities in Sri Lanka, Malaysia and France. More than 50 MOUs are in active utilization.

International MoU in collaboration with Sri Lanka Technological Campus (SLTC), Ministry of Sri Lanka on 02.09.2020

International MoU has been signed between SRM Group of Institutions and Putra Inteltek International College, Malaysia

International MoU has been signed between SRM Group of Institutions and SEGi Group of Colleges

International MoU has been signed between SRM Group of Institutions and Crew Lounge, Malaysia

Memorandums of Understanding (MoU) have also been signed with leading industries like Ashok Leyland Ltd, International Skill development Corporation, Internshala

MOU signed with Regional Directorate of Skill Development and Entrepreneurship, Chennai, Voltech Engineers Private Ltd., Padmavahini Transformers Private Ltd., Indian Green Building Council, National Highway Authority of India (NHAI), Edgate Technologies Private Ltd., Copper Cloud, Redhat, Ophel Computing, Prag Robotics Private Limited, Sansel Instruments and Controls Keystone Automations Solutions Pvt. Ltd.

Signed MoU with Indian Skill Plumbing Council (ISPC), for Training Students in MEP (Mechanical Electrical Plumbing) Services.

Tie-up with NSDC approved training institutions.

STUDENT ACHIEVEMENTS

P.R.I.D.E (Project Research Internship Design Entrepreneurship)

Activities: A group formed to exchange ideas on concepts to encourage students to participate in national level technical competitions, do innovative design projects and to promote entrepreneurship, thereby improving the overall caliber of students.

More than 5500 students participated in various National and International level Hackathons, Marathons, Codathons and Innovative Project competitions. Students won more than 750+ Awards and Prizes.

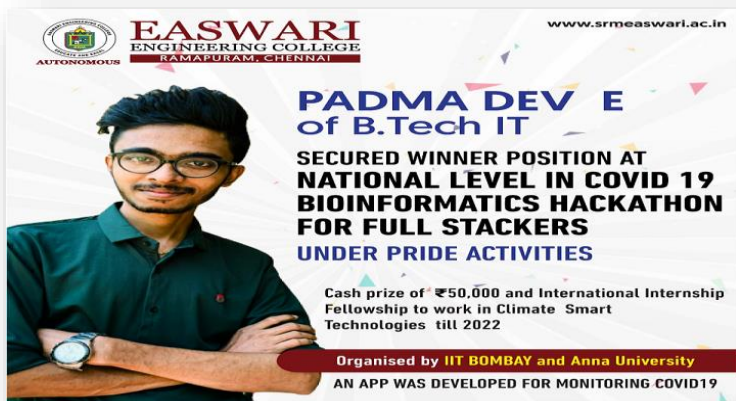
Three consecutive years (2020, 2021 and 2022) 9 of our students won Excellent award in e-SIM MARATHON-using SKYWATER 130nm Technology.

Two Batches of our students won Winning awards in SMART INDIA HACKATHON -2022

Ten batches Won First Prize in PALS ANALYZE, PAL INNOVA, and in PALS NEXO -Project competition in IIT MADRAS.

One batch won first prize in CIVILIZATION 2022 –
Conducted by Anna University, Chennai.

In IIT Aakaar – National Symposium-2023, students won five awards: Project Display, Paper Presentation, MSE Wall Construction competition, Best College Representative Award



EASWARI
ENGINEERING COLLEGE
RAMAPURAM, CHENNAI
AUTONOMOUS

www.srmeaswari.ac.in

PADMA DEV E
of B.Tech IT

**SECURED WINNER POSITION AT
NATIONAL LEVEL IN COVID 19
BIOINFORMATICS HACKATHON
FOR FULL STACKERS
UNDER PRIDE ACTIVITIES**

Cash prize of ₹50,000 and International Internship Fellowship to work in Climate Smart Technologies till 2022

Organised by IIT BOMBAY and Anna University

AN APP WAS DEVELOPED FOR MONITORING COVID19

Padma Dev E of B.Tech IT secured winner position at National Level in COVID 19 Bioinformatics Hackathon for Full Stackers ” Organized by IIT Bombay and Anna University in 2021. Awarded cash prize of Rs.50,000 and International Internship Fellowship to work in Climate Smart Technologies till 2022.



EASWARI
ENGINEERING COLLEGE
RAMAPURAM, CHENNAI

Achivement under PRIDE Activities

for Winning

3rd Prize

among 107 Teams from India & Abroad in

INNOVATIVE FURITISTIC PRODUCT PROTOTYPE INTERNATIONAL CHALLENGE

Conducted by Sikkim Manipal Institute of Technology

A product Titled

"Accidents preventing Smart Helmet using EEG Sensor" was developed

• (Pre) Incubation Facility at AIC-SMUTBI / IIC-SMIT

Benefits of the Award

• Prototype Adoption for pilot implementation at SMU/SMIT

• Seed Funds & Cash Prize

@SRMEaswariOfficial @srmeaswari srmeaswari.ac.in

Congratulations

Team members:



Amudha M
EEE IIIA



Akila RB
EEE IIIA



Darshini S
EEE IIIA



Indhuja KS
EEE IIIA



Ishwariyaa R
EEE IIIA

Guided by Dr.D.Fathema Farzana (AP/EEE)

Amudha M, Akila R B, Darshini S, Indhuja KS, Ishwariya R of EEE Department won of 3rd Prize among 107 Teams from India and Abroad in Innovative Futuritic Product Prototype International Challenge conducted by Sikkim Manipal Institute of Technology.



CERTIFICATE

THIS IS TO CERTIFY THAT

ANJANA SURESH

Is Amongst The Top 9 Finalists

Of the National Design Challenge: 'Design for a Sustainable India' organized by NASSCOM in association with Adobe.



15/02/2021

Date of Issue

Garima Babbar
Head
Education Initiatives
Adobe

Amit Aggarwal
CEO
IT-IT-ES Sector Skills Council
NASSCOM

Ms Anjana Suresh of III year IT dept. secured a position among the Top 9 Finalists of the National Design Challenge "Design for a Sustainable India" organized by NASSCOM, in association with Adobe.

EASWARI ENGINEERING COLLEGE
(AUTONOMOUS)
(A Unit of SRM Group of Educational Institutions)
Approved by AICTE | Affiliated to Anna University, Chennai | NAAC - Accredited 'A' Grade | 2(F) & 12(B) Status (UGC)
ISO 9001:2015 Certified | NBA Accredited programmes | FIST Funded (DST) | SIRO Certified (DSIR)

P.R.I.D.E ACHIEVEMENTS 2022-23
AICTE SMART INDIA HACKATHON' 2022



Team from **CSE DEPARTMENT** won the **INSPIRATION AWARD** with a cash prize of **Rs. 25,000** for the innovation of new technology under the **Student Innovation Category**

MENTOR
Mr. K. P. K. Devan
Asst. Prof. / CSE



AICTE SMART INDIA HACKATHON 2022



Team from **ECE DEPARTMENT** received the **CERTIFICATE OF PARTICIPATION** with consolation prize for **Best Competency**

SH COORDINATOR
Mrs. Bindu Babu
Asst. Prof. / ECE

CSE team "Hack 'N' Whack" participated in Finals Smart India Hackathon in Mumbai and won the "We School Inspiration Award" with cash prize of Rs. 25,000/- . ECE team received the Best Competency Award.

ISHRAE AQUEST TEAMS

Two of our **ISHRAE AQUEST TEAMS** got **SECOND PRIZE** and **THIRD PRIZE**
Chapter level Quiz competition and qualified for **National level Quiz**.



Anandharamakrishnan
III Mech A



Lokesh R
III Mech B



Rakan
IV Mech B



Aparna
II Civil

Two of our ISHRAE AQUEST Teams received 2nd and 3rd Prize in Chapter Level Quiz Competition and qualified for National level Quiz.

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AFFILIATED TO ANNA UNIVERSITY
RAMAPURAM, CHENNAI

25
ANNIVERSARY

TNEA CODE 1304

G20
INDIA 2023

CONGRATULATIONS
Department of AI & DS
brought into Professional Chapter

Google Developer Student Clubs
to **EEC CAMPUS**

Ms. Indusha M
Final year/ AI & DS
GDSC LEAD 2023-2024

DEPARTMENT OF
ARTIFICIAL INTELLIGENCE
& DATA SCIENCE

SRMEaswari Official
smeaswari
smeaswari.ac.in

Department of AI&DS brought into a Professional chapter - Google Developer Student Club to EEC Campus.



AZADI KA AMRIT MAHOTSAV, Arteries of New India - Highways & Roads to the Future, “Tree Plantation Drive” organized by Project Implementation Unit (PIU-Chennai) under National Highways Authority of India (NHAI) Regional office, Chennai on 17th July 2022 (Sunday) near Vanagaram Toll Plaza, Chennai Bypass (17/200 Km).



27 students from 3rd year & 4th year participated in Aakaar 2023 Organised by IIT Bombay on 18th-19th March, 2023 and secured 5 different prizes and awards, First Prize in Paper presentation, Second Prize in CENEX (Project Display), Second Prize & Third Prize MSE Wall Construction (on spot Technical Event) and received Best College Representative Award.

SPORTS & GAMES

Our students have won Silver & Bronze Medal in 8th National Drop Roball Tournament held at Shirdi, Maharashtra organized by Drop Roball Association of Maharashtra.

Our students represented Korf Ball World Championship held at Morocco from 19-08-2022 to 23-08-2022 secured 5th Position.

Our student represented Anna University in KHELO India Swimming Championship held at Jain University, Karnataka Secured Silver medal in 4x100mts Men freestyle

relay and Bronze medal in 50mts Men Breaststroke.



Dharun Praveen.S of 3rd Mechanical Department student represented Korf Ball World Championship held at Morocco from 19-08-2022 to 23-08-2022 secured 5th Position.

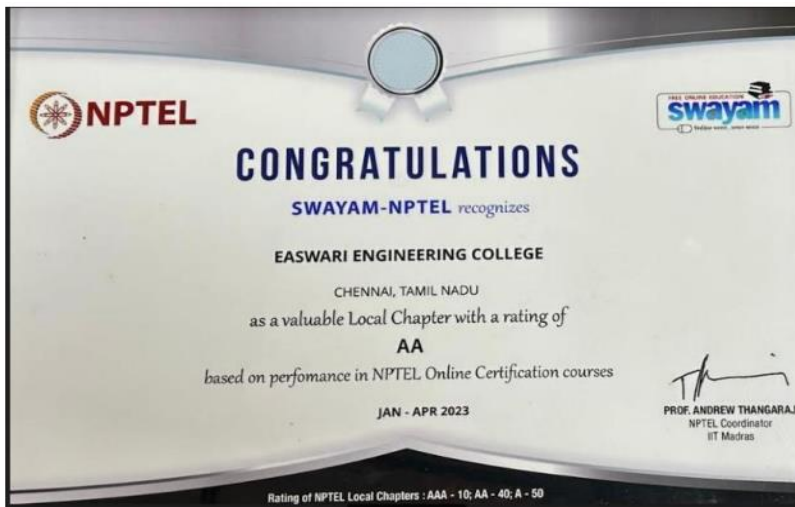
A promotional graphic for the KHELO India Swimming Championship. On the left, there is a logo for Anna Engineering College, Autonoma, and the KHELO India logo. The text reads: "M. S. Yadesh Babu, 1st year Civil Engg, Represented Anna University in KHELO India Swimming Championship held at Jain University, Karnataka. Secured SILVER MEDAL in 4x100mts Men freestyle relay and BRONZE MEDAL in 50mts Men Breaststroke". On the right, there is a circular inset image of a young man with glasses, wearing a white and blue tracksuit, holding a large silver trophy and a smaller bronze medal. A gold medal icon with the number 25 is also visible in the top right corner of the graphic.

M.S.Yadesh Babu of 1st year Civil Engg. student represented Anna University in KHELO India Swimming Championship held at Jain University, Karnataka. Secured Silver medal in 4x100mts Men freestyle relay and Bronze medal in 50mts Men Breaststroke.

E-LEARNING

A total of **2092** NPTEL courses were completed by the students between July2021-April 2023 .In addition to this, **348** NPTEL courses were successfully completed by the

faculty of Easwari Engineering college including, **40** student toppers and **31** faculty toppers, **16** certification with Gold Medal, **371** certification with Silver Medal. Easwari Engineering College is recognized as a Valuable Local Chapter with a rating of “**AA**” Easwari has ranked All India **48** in NPTEL Certification.



Easwari Engineering College is recognized as a valuable Local Chapter with a rating of “AA, 2023.

RESEARCH

Our institution is certified by SIRO and funded by FIST. The institution has received more than 5.5 crores of research funds from various funding agencies such as DST, DRDO, AERB, AICTE. Rs.3 crores worth funded projects have been successfully completed. Research proposals worth 1 crore is in pipeline.

Dr. S. Vanaja of CSE (AIML) department has received a research grant worth Rs. 28.6 Lakhs from department of Science and Technology titled “Biocompatible Conductive Inks for Cost-Effective Fabrication of Microfluidic Wearable Sensors for Analyzing Glucose Level from Sweat”

Dr. Karpagam has received a research grant of Rs. 17.0 Lakhs from Science and Engineering Research board under SERB TARE scheme for the research project titled “Condition monitoring of Power apparatus for Smart Grid”.

Ms. Sandhia has received a research grant of Rs. 4.44 Lakhs from Indian council for Medical research for the research project titled “An association based deep learning framework for detecting COVID-19 disease patterns from bimodal clinical data”.

Ms. P. Deepika and Ms. M. Sowmya has received a research grant of Rs. 4.1 Lakhs from Indian council for Medical research for the research project titled “Deep Learning Based Detection for COVID 19 Disease spread and Forecasting”.

Dr. S. Kanaga Suba Raja of AIADS department has received a funded project of 17 Lakhs from MSME titled “AI-based Vehicle Parking System for Smart Cities”.

Dr. S. Sathiyamurthy, Department of Automobile Engineering has ongoing funded project of Rs.52.83 Lakhs fund from DST-WMT, for the project titled, “Development and Characterization of Paddy Straw and PALF (Pineapple Leaf Fibre) reinforced with Natural nano fillers added (GroundNut Shell and Boiled Egg shell) Polyester composites for Automobile and Structural applications”.

Dr R. Ramadoss, Department of Mechanical Engineering has an ongoing funded project of Rs. 3.4 lakhs fund from TNSCST, for the project titled, “Formability study of titanium alloy TI-6AL-7NB at elevated temperatures for biomedical applications”.

Dr. G. Rajkumar of Physics department has an ongoing funded project of Rs. 35.24 lakhs from SERB for the collaborative research project titled “Development of MinDenT® using Bioactive glass and Phytosphingosine for Dental Remineralisation Applications”.

Central Research Facility

The following research labs are set up to facilitate Central Research.

1. Synthesis and Characterization Lab
2. Advanced Structures Lab
3. Advanced Composites Lab
4. Advanced Electrical Characterization Lab



Advanced Composites Lab



Advanced Structures Lab



Advanced Electrical Characterization lab



Synthesis and Characterization Lab

Research publications for the year 2023 in Scopus indexed journal is **327**, SCI/WOS indexed journal is **102**, Total Scopus Citations is **2127**.

The scopus h-index of the institution is **40**, google h index is **46**, scopus i10 index is **177** and google i10 index is **284** in the year 2023.

Several awards have been presented to our faculty members.

“Certificate of Appreciation by The Academic Council of uLektz as one of the Top 50 Distinguished HoDs CSE / IT Department in Higher Education Across India”.

“Best performing Zonal Chair for Student activities under ISHRAE Student Chapter”.

“Recognized Senior Welding Inspector by American Welding Society”.

“Best Women Engineer award form Institutions of Engineers (IEI)”.

“Young Achiever Award 2022 from Institute of Researchers”.

“Certificate of Recognition Award for Publishing research paper in Anna University annexure listed Q1 journal from Centre for Research, Anna University”.

I sincerely thank each and every one for their contributions, encouragements, support and guidance.

I would like to conclude by saying that, we at Easwari Engineering College will continue to dream big and continue to be products of great thoughts and ambitions. We will grow from strength to strength. I would like to quote the words of Mahatma Gandhi that, “Champions are made from something they have deep inside of them - a desire, a dream, a vision” and wish all success for our forth coming year.