

**Mar Ephraem
College of Engineering and Technology**

It is indeed a great pleasure for me to extend you all a very warm welcome on behalf of Mar Ephraem family and to present the annual report of the academic year 2019-20.

MAR EPHRAEM COLLEGE OF ENGINEERING AND TECHNOLOGY at Malankara Hills, Elavuvilai, Marthandam was blessed and inaugurated by His Beatitude Moran Mor Baselios Cardinal Cleemis Catholicos, The Major Archbishop of Malankara Catholic Church, on September 14, 2009. Mar Ephraem has grown well beyond an ever continuing explorative experience, in quality education, with five U.G Programs, three P.G Programs and one doctoral program. Mar Ephraem is accredited by NAAC with B+ grade in the year 2017.

1. ACADEMICS

- This academic year we secured good results in the Anna University examinations
- 223 under graduates and 22 post graduates have completed their degree and will receive their degrees from Prof. Dr. M. K. Surappa, Honourable Vice Chancellor, Anna University, Chennai in the 7th Graduation Day on 22 February 2020.
- Dr. C P Sherly, School of CSE has completed her doctoral degree under the supervision of Prof. Dr . A. Lenin Fred

Awards and Recognitions:

- Our student team from the School of Mechanical Engineering has designed a race car and participated in the SAE, SUPRA competition held at Formula one track, Noida conducted by Society of Automotive Engineers. Out of 110 Teams Mar Ephraem won the 1st position in the southern Tamilnadu.
- Amrithya Singh of Mechanical Engineering, Sachin of Civil Engineering, Shany of Computer Science and Engineering and Stephy of Electronics and Communication Engineering participated and won third position in South Asia level NICE 2019 organized by IET, Mumbai.
- Mar Ephraem has got the privilege of coordinating Anna University Zone 19 sports events.
- Mar Ephraem won the first prize in Football, second prize in Kho-Kho in Zonal Level and our Athletes have won Eight prizes in Zonal level Athletics Events.

Apart from the above, our students have won many awards in various national co-curricular and extra-curricular events.

Staff Achievement and Recognition

- Dr. A. Lenin Fred received the Intellectual Property Rights Award from Anna University, Chennai.
- Dr. A. Lenin Fred was appointed as the National Jury for India-International Science Festival, Kolkata.
- Prof. Dr. N. Austin, Academic Director is elected as the working president of Kumari Maha Sabha.
- Prof. John Iruthaya Raj is elected as the Managing Committee Member of SAE India, Southern Region.
- Prof.C.Gigin Durai , School of Mechanical Engineering is elected as Vice President of IET KKLN YP, Network.
- 15 faculty members from various schools completed NPTEL/SWAYAM online certification course during the academic year.

Training and Placement:

- Last academic year, we received 105 job offers from various companies which includes 12 international job offers offered by Essel packaging, Poland and 93 multinational company offers from reputed companies like Infosys, UST Global, HCL Technologies, Tata Elxsi, Quest, STUP Consultant, Renault Nissan, ParasCadd, Mumbai, CADD Centre and TVS Sundaram Fasteners with the highest salary package of 9 lakhs/year.
- In this academic year, 2 students have been placed in CTS, 2 students in TCS, 1 student in WIPRO and 5 students in HCL Technologies through the pool drive conducted by Anna University and through Off Campus drives with the salary package of 4 lakhs/annum.

Scholarship:

During this academic year, we provided Rs. 72,41,825 as scholarship for our students from various state and national funding agencies.

Association and Cell Activities:

The School of Mechanical Engineering, School of Computer Science and Engineering and the School of Electronics and Communication Engineering organised national level technical symposiums respectively.

SCIFA 2019 was organized by the school of Science and humanities.

Our students were sent for internships to more than 50 reputed industries to improve their employability skills.

All the schools have organized industrial visits for their students, to gain industrial experience and for practical training.

Workshops were conducted on Arduino processor, Image processing using python and MatLab. Hands-on training workshops were conducted on Computational Fluid Dynamics, Automobile dismantling and Assembling, PCB fabrication, Trouble Shooting and rewinding of Electrical Machines and Product Development

Jesus youth is active in the campus which upholds the spiritual development of our students. The Jesus youth extends the spiritual activities such as regular prayer, fasting, adoration and helping the needy.

The professional bodies in Mar Ephraem, IET, IEEE, SAE and ISTE were active and have conducted various activities in the campus.

2. RESEARCH & CONSULTANCY

Mar Ephraem received Rs.2,26,50,327 for Research and Development from the Ministry of Science and Technology; Government of India, Defence Research and Development Organisation; Government of India and Indian Space Research Organisation; Government of India. We have received Rs.19,25,000 for Consultancy and Rs.67,35,460 for sponsored programs and Workshops from Technology Development and Transfer, Government of India, Nanyang Technological University, Singapore, Wolkite University, Ethiopia, AICTE(All India Council for Technical Education), Southern Railway, Ideal Engineering constructions, P.W.D and Government of Tamil Nadu.

For all the above projects, Principal Prof. Dr. A. Lenin Fred is the Principal Investigator. Prof. I. Jackson Thanga Roy, Prof. Dr. Suresh, Prof. Babin T Praise, Prof. C. Gigin Durai and Prof. R. Leo Bright Singh are the Co-Principal Investigators.

Research Achievements:

- This academic year, one of our candidates from the Computer Science Research centre has been awarded doctoral degree.

- A faculty from our college, Dr. S.N. Kumar has been awarded doctoral degree in this academic Year in his thrust area.
- Our faculty published 30 publications in peer reviewed journals.

3. MoUs:

This academic year we have signed MoU with Kalam Institute of Health Technology, Visakhapatnam (KIHT) for technology transfer.

We have signed MoU with Nanyang Technological University (NTU) Singapore for International Collaborative Research.

4. Entrepreneurship Development Centre:

In order to turn the innovative ideas of students into Business start-ups, The National Science & Technology Entrepreneurship Development Board (NSTEDB) /Department of Science and Technology (DST); Government of India granted 2.87 crores for setting up NewGen IEDC in Mar Ephraem Campus. Ten innovative projects were selected for the grant up to Rs. 2.5 lakhs per project.

Three Entrepreneurship Awareness Camps were conducted to promote entrepreneurial activities in the campus. The camps were sponsored by Government of India. Challenge identification competition and idea scouting competitions were conducted and the best challenges and ideas were rewarded.

5. MAR EPHRAEM INSTITUTIONAL SOCIAL RESPONSIBILITY

PMKVY

Mar Ephraem is also a training partner for implementing Skill India scheme through skill development training under PMKVY scheme of National Skill Development Corporation, Government of India. This year we got sanction for two more new courses. Last academic year, around 250 Diploma and ITI degree holders have been benefited through these courses.

Science Communication for Tribal Students

Mar Ephraem is concerned about the tribal settlement students of our Kanyakumari district. For educating and uplifting the students of tribal community, we are utilizing our faculty and students as resource persons for the social responsibility project “Communicative Science

for Tribal School Students” funded by National Council for Science & Technology Communication (NCSTC), Department of Science and Technology (DST) Govt. of India with a grant of Rs.18 lakhs.

Robotics Training

We have provided robotics training to more than 1200 students belong to 15 schools from Tamilnadu and Kerala .

Inspire Science Camp

This year 400 meritorious students from XI standard were benefited by this camp. District Collector and the Chief Educational Officer visited the campus.13 eminent professors and 2 scientists from all over India visited our campus as experts, among them 2 are Bhatnagar awardees. Government of India has sanctioned 26 lakhs for conducting the Camp.

Career Guidance Program

We have presented around 23 career guidance programs by which approximately 3525 students have got good guidance to set their goals in life.

School Teachers' Training Program

We have also hosted 7 training programs for the school teachers of kuzhithurai and Thiruvattar Educational Districts and around 1140 school teachers have participated in the programs.

From the inception of the Institution, Mar Ephraem College of Engineering and Technology has taken lot of initiatives to uphold its goals for providing value based education, general, specific and soft skills, initiating research activities, participating in community activities, establishing linkages and MoUs.

Successful and fruitful completion of each academic year is the result of dedicated work of everyone in the campus. The management, teaching & non teaching staff and the students have contributed their might unfailingly. All these have been made possible by the grace of the Almighty God who always lead our way Towards Light (ERGA LUMEN)

Let me conclude my report by thanking one and all for your co-operation and efforts.

Thank You.