

Annual Report 2020 – 21

“Education is the most powerful weapon which you can use to change the world” – Nelson Mandela

Good morning and a warm welcome to you all. Today is a important day in the history of our college, at the 11th Graduation day is being celebrated after the hardship because of the pandemic. On behalf of the management, staff and students of Loyola Institute of Technology and Science, I take immense pleasure in welcoming everyone to the Graduation Day Celebrations on 16th October, 2021. The year 20—21 was a very very tough year for all of us, due to the outbreak of the deadly COVID 19 virus. The worst affected field has been the educational sector. Even after the resume of regular classes, the normalcy could not be brought because of the change in mindset of the students. I feel very much exited to present the brief report of our college for the academic year 2021-21. Admist the abnormal situation experienced, the year 2020-21 was marked with many remarkable events and success stories which are the outcome of the dedication and team spirit of the members of the management, staff and students.

Let me begin my report with felicitating the most wonderful person Dr. M.T Nicholas the founder of the Loyola Institute of Technology and Science. Who was the former DGM of ISRO and the former Principal of Karunya Institute of Technology, Coimbatore. By the Grace of the Almighty God our Saviour Jesus Christ and with the blessings from our Heavenly Patron “**Saint Ignatius of Loyola**”, along with the Guidance and support of our beloved Chairman, we are steadily marching forward towards excellence.

Presently, the College is functioning with 9 UG courses and 4 PG courses. Dr. J. D. Darwin M.E., Ph.D for the past 6 years has been leading and scaling the institution to explore, enhance, excel and enrich multi dimensionally. The college has 86 members in the teaching departments and 41 in the ministerial pool. The student strength of the college is 1350. They are excelling in the field of academics, culture, arts, sports and other extensive works.

MAJOR ACCOMPLISHMENTS DURING 2020-21 ACADEMIC YEAR:

➤ LAUNCH OF NEW COURSE

It is the need of the hour to focus on Inter disciplinary courses, for aligning the students towards the current trend and by reducing the gap between colleges and industries. On rising to the occasion this year, we have started up two new courses namely B.E - **Bio medical and BE -Robotics and Automation Engineering.**

➤ ONLINE PLATFORM FOR CLASSES

The COVID 19 has put us into a situation that we cannot conduct the regular classes, at the same time the interest of the students cannot be neglected. The Government also has directed us to connect through online for the conduct of online classes. All our faculty members are enriched with this new technology and became expert in connecting through Google classroom, Webex, Teams etc....

HIGHLIGHTS of 2020-21/ Major Institutional Happenings and Activities:

➤ MEMORANDUM OF UNDERSTANDING

✓ INCUBATION HUB

Incubation and Start up Industries Hub is opened along with i-Loesis Solution Bangalore to train our students from the starting of II year towards start –up initiatives.

✓ ATHENAPANDIAN Private Limited

The Institution has signed an MOU with Athenapandian Private Limited on 12th August 2020 for Industry ready training on medical equipments for Bio medical students.

✓ **Gerdi Gutperle Agasthiyar Muni Children Maternity Hospital & MOU
WITH Dr. Jeyasekharan Medical Trust, Kanyakumari**

A Memorandum of Understanding has been signed with Gerdi Gutperle Agasthiyar Muni Children Maternity Hospital and Dr.Jeyasekharan Medical Trust Kanyakumari, with the goal of providing our Biomedical students with all advancements in the medical field. Beginning from their first year, students will work hand in hand with medical associates and gain a wealth of knowledge.

✓ **IM Robotics and Automation Limited**

A memorandum of understanding was signed with Mr. Iyyappan, Director of IM Robotics and Automation Limited, to enable our students to build their own automated equipment.

- Dr.Winowlin and Dr.Arshad from Kalasalingam University gave our staff members a one-day FDP training on NBA orientation under the AICTE - Marghadharson program.
- 25 of our staff members attended a One-week online workshop on Universal Human values organized by AICTE during 21st to 25th September 2020.
- An Academic Excellence program was tied up with Comorin International Institute of Management and Entrepreneurship Development to support in research, training, and skill development.
- An FDP program was conducted by Dr. V. Jaya Kumar, Head of Department, Chemical Engineering in National Nehru Polytechnic College, Pudhucherry on Integrating Google online Tools into Google Classroom” on 15th July 2020.
- Induction program for the first year was given for 15 days in which of orientation about Human Values, engineering, which included communication Training, basic training on math's & Science, fine arts and sports.

Departmental Activities:

- Three days of webinar was arranged by Mechanical department on Technical Transformation in Mechanical Engineering from 1st to 3rd July 2020. The speakers were Dr.N.Selva Kumar, Sr Professor from Mepco Schlek Engineering, sivakasi; Prof.Dr.Azad , Registrar BSARCIIST, Chennai and Dr.J.M Jafferson, Associate Professor VIT,Chennai.
- Dr.Latha Nagendran, Professor (Retd, AU –FRG) Institute of CAD/CAM, Anna university gave a lecture on “Application of finite element method to solve Engineering problem” to the students in a webinar organized by Mechanical department on 8th July 2020. Around 125 students actively participated in the webinar.
- Department of Computer Science and Engineering and Department of Information Technology organized a three days webinar on “Advanced topics in computer science” The speakers are Dr.Arul Valan, Assistant Professor from NIT, Nagaland; Dr.S.Vinila Jinny, Associate Professor, Noorul Islam Centre of Higher Education,Kumaracoil and Dr.K.praghash, Assistant Professor, KL University, Andhra Pradesh. Around 250 students actively participated in the webinar.
- Two days webinar was arranged by the department of ECE & EEE on 29 and 30th July 2020, Where Dr.P.Aruna Jeyanthi, Professor, EEE department in Kalasalingam University gave a lecture on “Stability Analysis and challenges in Electrical Networks” and Mr.Joel Livin, Lecturer. IBRA college of Technology Omen lectured on “Evolution of wireless technologies”. Around 150 members from various areas joined the webinar.
- E-quiz was conducted by the Department of Management studies from 21st to 23rd July 2020 around 250 members actively participated and awarded with e-certificate.
- Webinar on PCM based Thermal Management for solar and building application by the speaker Dr.R.Velraj, Vice Chancellor, Anna university Chennai was organized by the Department of Mechanical Engineering on 8th August 2020.

- Department of Civil Engineering organized a two days webinar on August 10th & 11th 2020 and Dr.Prakash Arul Jose, Professor & Head, Civil Department in Asoka Institute of Engineering & Technology , Hyderabad gave a talk to the students on “Sustainable structure and Rating”

Faculty Accomplishments:

In LITES we encourage the students and faculty to have their orientation towards research. As an outcome of this mission, many students and faculty have presented and published papers, and a number of faculty members are pursuing research programmes for their Ph.D degree.

Staff Members Awarded Phd

Dr.Deepa has been awarded with a doctoral degree from M.S university under Computer Application on Brain Tumor Segmentation using Mixture Model

The members of Faculty who are pursuing research are as follows,

CSE –Mrs.Sahaya Jeniba, Mr.Amala Dhaya & Mrs.Shakeela Joy.

ECE - Mrs.Ferlin Deva Sahila , and Mr.Ajin

S&H –Mrs. Jeba Starling, Mr.Thiruvazhi & Mr.Nandha kumar.

MBA – Mrs.D.Amutha

- ❖ DR.J.D.Darwin gave a guest lecture on “Engaging Generation Z Students” in an online FDP program organized by Kalasalingam University.
- ❖ Dr.M.Shunmuga Priyan has participated in various AICTE ATAL FDP and also attended technical workshops conducted by ITM university, Mepco and Hindustan college.
- ❖ In bringing more laurels to our institution, he has also successfully completed the journal citation report (JCR) certification series – 2021, presented by Calivate Journal citation.

- ❖ 12 papers were published by our staff in various journals including Surface Engineering and Applied Electrochemistry, Multimedia tools and application – Springer Publication, International Journal of Advanced Research Trends in Engineering and Technology, International Journal of Advanced Research etc, by Dr.M.Shunmuga Priyan, Mr.Subbaiah Jeeva , Mrs.Shakeela Joy, Mrs.Ferlin Deva Sahila and Mrs.Merry Ida.
- ❖ Mrs. D. Amutha of Department of Management studies has attended an one day FDP ON 20.03.2021 IN XIBA on “DATA ANALYSIS AND INTERPRETATION”.
- ❖ Mrs. Sherlin received an APPRECIATION **CERTIFICATE** as part of NPTEL from TEXAS INSTRUMENTS for enrolling the Students in receiving 48 MSP740 MICROCONTROLLER KITS for our COLLEGE.
- ❖ Dr.Gladrene Sheena Basil , Mr.Arulrex, Mrs.Shakeela Joy, Mrs.Merry Ida and Bijusha of computer Science Engineering Department has attended various FDP programs and webinars in computer applications.
- ❖ Mrs.Ferlin Deva Sahila, Mr.Vino Ruban, Mrs.Shiny, Mr.Ajin, Mr.Sherlin and Ms. Sathya Bala of ECE department has actively participated in various webinars.
- ❖ Mr.Samson from Civil Engineering; Dr.Shunmuga priyan and Mr.Subbaiah Jeeva of Mechanical Department has also participated in Various webinars.
- ❖ Dr.Ranjitham, Dr.Vijaya Kumar, Mrs.Amutha and Mrs.Evangelin of Management studies has actively participated in various webinars.

Student Activities and Achievements:

Due to COVID 19 students were restricted inside their houses. In those days also many of our students participated in many online webinars thus amplifying their knowledge.

They are,

CSE

- ✓ Ms.N.Akalya and Ms.M.Sukisha has received ELITE – Silver certificate from NPTEL in Problem Solving through Programming in C under the guidance of Ms.Merry Ida.
- ✓ Ms.R.Maharani, P.Arul Pandi, Ms.M.Maheeswaran, P.Jai Bhavani has received certificates from NPTEL for Problem Solving through Programming in C.
- ✓ 6 of the students from CSE has attended various workshops conducted through online in the Pandemic period.

IT

- ✓ 16 students from IT has attended various workshops conducted through online in the Pandemic period.

Mech

- ✓ Alen George and Rahul Rajan of III mechanical has received Kalam Award from Bengaluru Professional and Best project award from Kalasalingam Academy of Research and Education for their project on “Wall Climber using Vacuum”.
- ✓ Mr.Prem Kennedy, Mr.Nishanth, Mr.shanjai and Mr.Ajith Tisho has presented a paper on “Experimental Investigation on Banana Fiber Reinforced Phenol Formaldehyde Composite for Automobile Application in an International Reseach Journal on Advanced Science Hub on August 2020.

ECE

- ✓ Mr. AATHEESWARAN R S of III ECE has made a model on “Make remote to control hydraulic excavator “ and presented in Kalasalingam University.
- ✓ Ms. Shruthi S Prasad; Ms. Jeena S A has presented a paper on “Smart Security and Home Automation using IOT” at SCAD College of Engineering.
- ✓ Ms. Nithya. S, Ms.Reashma.D has presented a paper on “SPINTRONICS” a a national level symposium organized by Cape Institute of Technology.

- ✓ Ms. Nandhini iswarya.R has presented a paper on “IOT based home automation using Rasberry pi” at Cape Institute of Technology.
- ✓ Ms. M.Maheshwari, R.shyni has presented a paper titled “6G Technology” and Ms.Devika K,M and Ms. Iswarya.M has presented a paper titled “Arduino based automatic plant watering system” at SCAD College of Engineering.
- ✓ Ms.Gomathi and B Ishwarya M has presented a paper titled “Underwater Wireless Communication Network” at a national level symposium in SCAD College
- ✓ Ms.Bubsha P has presented a paper on “IOT based home automation using rasperry Pi” at Stella Maris college of Engineering
- ✓ Ms. Lingakani S and Ms. Sunitha V has presented a paper on “Artificial Hand Using Embedded System” at Cape institute of technology and Stella Maris college
- ✓ Ms.Sumithra and Ms. Soundaravalli has presented a paper on “Harvesting Robotics” at V V college of Engineering.
- ✓ 43 students from ECE has attended various workshops conducted through online by various colleges during the Pandemic period.

EEE:

- ✓ Ms.Aji Gold, Ms. Helan Santhiya Arul R, Ms. Madhumitha M, Ms. Preethi M And Ms. Saice Rani M of III EEE has undergone a Internship on “Electrical design for commercial and Residential buildings” at Optimal MEP consultants, Chennai from 25th Nov to Dec 11th 2020.
- ✓ Mr. Nagamuthu T of III EEE underwent his Internship on Electrical Transformer Manufacturing at GOSATECH Power Transformers Pvt. Ltd, Vellore from 15th Oct to 16 Nov 2020
- ✓ Mr. Mohaideen Arshath M, Mr. Nishek Premnath P, Mr. Ragul R L and Ranjith P has underwent Inplant Training at INDO Tech Lab Products, Chennai from 22nd to 26th February 2021.

- ✓ Ms.Ananthi, Ms.Lakshmanan and Mr.Sujith has actively participated in various online workshops and webinars hosted by different college during the pandemic period.

CIVIL

- ✓ Mr.Pasumathi and Ms.Subha has participated in various online workshops and webinars hosted by various colleges during the pandemic period.

MBA

- ✓ 10 students from the department of management studies have participated in various online workshops and webinars hosted by different college during the pandemic period.

Placement Training

The LITES Placement Training comes under the Skill Development Department, it is concerned with the professional placement of students graduating from LITES. The students are grouped under 9 categories of Jobs according to their desire and various relevant training were given to the students like Quantitative Aptitude, NPTEL, Gate, Current Affairs, TNPSC, Soft Skills and CST. It is our endeavour to provide quality education & employability skills to each and every student. In order to develop the employability skills we conducted various certification courses and training programmes by the industrial personnel. These courses will boost the students to get into a suitable and desired career. As the courses are conducted by industrial personnel, it will act as a bridge between the Institution and the Industry. As training partners we have SPMR technology, CADD Centre, Trio, My Inception and Talent ease.

Placement:

The ultimate aim of the placement cell is to facilitate a win – win situation to the students and the industries to expose and allow the students

to identify the suitable jobs and to let the companies identify the suitable candidates for jobs in their company. This year, Out of 367 students 266 students are placed with offers in companies like CTTI, HITESS, PHA India Private Limited, Elmac Heaters, Vecton Mobiles and V3 Hyundai etc....

NEWSPAPER READING:

This year newspaper reading practice was introduced to help students and staff members to gain a better understanding of what is going on around them. Ten students were paired with a staff member and given 30 minutes to read newspapers aloud in rounds. This also aided the students in improving their communication abilities.

Product Development cell of Loyola:

In addition, we have introduced product development, where for Second year students, dismantling and grouping of 10 different products was introduced. For the III years new products were designed and tested. As a part of product development activity totally 47 batches of students are working to develop their innovative ideas into new products. Some such products are,

- ✓ **ECE** - Obstacle avoiding robot, Voice controlled robot, Microprocessor based 4 way traffic controllers, Magnetic sensor door opening system etc.
- ✓ **EEE** - Pre-energy generator, Mobile signal jammer and detector, Water level indicator, Voice controlled car, Water sensor etc.
- ✓ **Mechanical** - Catalytic converter for automobiles, Intelligent braking system, Magnetic power system, Crank shaft operated multi-blade hacksaw, Zero friction magnetic braking system etc.
- ✓ **Civil** - constructional work inside the campus which involves: Step construction, Tank decoration and plastering, Reinforcement of column caging, Construction of slabs etc.
- ✓ **CSE** - involved in their web based development at their final stage. One batch of students are developing a software based program to generate an autonomous vehicle movement track using MATLAB software.

Journal of Lites:

To publish the outcome of the research team, the college has published a journal - Journal of LITES. It is published once in six months.

Extracurricular Activities:

Sports Academy of LITES:

The university did not hold a sports event this year owing to the COVID outbreak. Still Our sports team's accomplishments are still engraved in gold letters.

- Mr.Karthiba Raja, PED has received a trophy from Anna University for placing our college in the 3rd Position with 230 points among 560 affiliated colleges.
- 11 of our students have represented Anna University in various events.
- Our college won the Overall first in Anna University Zone-19 with 320 points.

Many Our sports persons who have represented the university has received **form 3** certificates and Our students has participated in various Anna University level competitions.

In Anna University Zone-19 competitions our students were Winners in Athletics for men and women, Football – men, Volleyball – men, Kabbadi – men, Handball – men.

CULTRUAL ACTIVITIES OF LITES:

This year, the Loyola Cultural Centre was established, and it has been actively posting various short videos on social media in which young talents are found and their potentials are showcased.

This year student committee members are identified from the PG courses and the UG – BE (II Year) students are trained and nourished under their exceptional leadership and direction.

As a part of it under the guidance of P.T.Selvakumar , Director Perasu and dance choreographer Ms.Radhikha trained our students on different job opportunities in media field by staying inside our campus for one week.

Awareness Club of Loyola -SACL Activities:

The Social Awareness Club of Loyola (SACL) was founded with the goal of engaging our students in a holistic act of charity. Many drivers and daily wage labourers in Alagapuram were provided with essential supplies during the second wave of Covid outbreak.

Future Plans/ Road Map Ahead

LITES was conceived to be one of the best Institutions, of Academic Excellence. In eleven years a solid foundation is built with a good standing in AU academics, sports and cultural activities. We look for a new beginning with a change over from moderate to excellent position.

- 10% of the I BE students shall be given special training to clear JEE exam.
- Based on their score they may get admission in IIT or NIT. Alternatively they will become sound in science subjects and take up IIT courses like NPTEL and GATE. And get employment in government.
- After their 1st year of Engineering, these **High Performing** young Loyolites will be divided into 15 groups of 20 students each. The first team of 20 students will orient themselves to prepare for the **Central Services Exam** like IAS, IPS, IFS, and IRS etc... They may take one more year (5th year) either in **LITES** or in a most **Competitive Exam Preparation Centre**. They will become a **Central Administrative Officer** one day.
- The next set of 20 high performing LITES students will become the **Central Scientific Officers** working in **ISRO** and **DRDL** type of Institutions. After tasting success, ISRO is likely to develop electric vehicles to become world pioneers. Our students will be participating in such national programmes.
- The next set of 20 students will be given 5 semesters of **International Certification Training** to man the Multinational Companies throughout the world.
- Another 20 students will be trained exclusively to develop a useful Innovative product. They will be starting their own start-up companies.
- In 3 years, **LITES** will be accredited by NBA & NAAC
- Within another 3 years **LITES** will be Autonomous.

- The students after 7th semester should be doing their projects where they are placed. This process is already started.
- **LITES** will be participating in many area of Research specially Biomedical.
- Naturally, this opens the eyes of Loyolites and they will see the vast opportunities around them which will propel them to the national and International level

Conclusion:

It is obvious that LITES has left no stone turned to rise to the requirements as per the new guidelines of the AICTE,AU and the International Standards.

I take this opportunity to thank our visionary leader Dr.M.T.Nicholas; without him all these things might not have been possible.

I thank all my colleagues for their cooperation and support.

I thank all my student friends for their wholehearted involvement in all the endeavors.

With the blessings of our almighty, let us all strive together to take LITES to new heights.

We wish you all a Bright future

Thank you