

ANNUAL REPORT

2021-22



SRI MUTHUKUMARAN INSTITUTE OF TECHNOLOGY

Chikkarayapuram, Mangadu, Chennai-600069.

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ANNUAL REPORT

ACADEMIC YEAR 2021-22

1. Brief introduction about the Institution.

- Sri Muthukumaran Institute of Technology was established in the year 1996
- No of UG programs offered: 11
- No of PG programs offered: 6(Engineering), 2 (Professional)
- NAAC accredited with B+ grade
- Established Institution Innovation Council in the Campus during the Calendar year 2018-19
- Participated in NIRF ranking every year

2. Number of students enrolled and completed certificate/value added courses.

- 876 students have attended certificate/ value added courses and successfully completed.

3. Number of students undertaken project work/ fieldwork/ internship.

- Students have undertaken project work/ fieldwork/ internship in companies through MOUs and Alumni.

4. Number of Grants received for research projects in the institution.

- 2 research projects worth 5.5 lakhs each have received financial grants from non-government agencies.

5. Number of students benefited by scholarships and free ships provided by the institution, government and non-government bodies.

- 702 students were benefited by various scholarships provided by the institution, government and non-government bodies.

6. Support of Alumni to the development of institution.

- 25 Alumni have significantly contributed towards development of institution through placements, donating books, seminars/ workshops for students.

7. Non-teaching staff attended various training programs for skill upgradation.

- 35 faculty attended various programs related to “Fire Safety Measures”, “Institutional Development and Administration”, “Emergency Lamp Wiring”, “Ceiling Fan Wiring”, “Analog and digital Circuit Design using ORCAD”,
- “Management capacity Enhancement Training Program”, “Soft skills”, “Maintenance, Testing and Usage of Electronic and Measuring Instruments/

Machines and Computers”, “Block Chain Technology and its Applications” at various location of different states.

8. Various training programs for skill upgradation organized for non-teaching staff.

15 faculty attended various programs organized in the Institution

9. Faculty attended Professional Development Programmes, Orientation /Induction Programs, Refresher Course, Short Term Course.

- **60 faculty** attended various programs related to “Industry 5.0- Opportunities & Challenges” , “ Digital Transformation in Business World” , “ Intellectual Property Rights and its Applications” , “ Building the Future: Applications in Civil Engineering” , “ Emerging Trends in Science, Engineering and Technology” , “Physics and Sustainable Development” , “Teaching Professional English and Developing Critical Thinking amongst Engineering Students” , “Advance in Mathematical Theory and Practical Applications” , “ Recent Advances in Mathematics” , “ Research Challenges in Electrical Engineering and the Solution with Software” , “E- Mobility and Associated Power Electronics in Hybrid mode” , “ Future of Pharmaceutical& Nutraceutical Industries” , “ AICTE NITTTR Mentor Orientation Training Program” , “ IoT & Applications (Smart systems)” , “Artificial Intelligence and Machine Learning with Data Science” , “ Robotics” , “ Data mining and Analytics” , at various location of different states.

10. Financial supporting given to teaching staff or attending various programs.

- 45 faculty attended various programs at various location of different states and faculty have been given financial support towards registration and transportation charges.

11. Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course organised for faculty.

- Faculty members are encouraged to attend Online/offline/NPTEL Faculty Development Programmes, Management Development Programmes & Professional development / administrative training Programmes. 65% of the teaching and technical faculty have attended training programs for the career advancement. The topics includes Research Methodology, Mentoring

Entrepreneurship & Innovation Skills, Unlocking the Power of MS-Word and technical topics related to domain.

12. Number of Faculty and non - teaching staff received reward/award/incentives based on the performance appraisal.

- 50 Faculty and 30 non-teaching staff received awards and incentives based on their academic performance and institute contribution

13. Number of Faculty and non-teaching staff benefitted against to welfare schemes provided by the Institute

- 68 faculty and 44 non-teaching staff were benefitted against various welfare schemes provided by the Institute

14. Anna University Results/Rank Holders

- 99 % of students of batch 2017- 21 passed with First class with higher grades and placed in reputed companies. Few students are pursuing higher studies.

15. Awards and Ranking

- Our Institution achieves all India ranking 20 among Top Engineering colleges under NIRF Engineering ranking 2022.
- Students received TNSCST award for the project developed with financial grant under student project scheme.
- Received awards for extension activities organized and implemented by the Institution for the benefit of neighborhood community.

16. Number of students attended Career advancement Programs organized by the Institute

- 892 students attended Programs related to Guidance for competitive examinations and career counselling

17. Number of students attended Capacity Building and Skills Enhancement programs organized by the Institute

- 860 students attended Capacity Building and Skills Enhancement programs arranged by the Institute.

18. Training and Placement

- 150 Students have placed in various reputed companies and MNCs such as INFOSYS, TCS, CTS, AMAZON, MINDTREE, WIPRO, TVS, L&T Infotech, HCL Technologies, L&T, TATA Communication, VOLTEC Engineers PVT. Ltd, etc.

- Many students are pursuing higher studies in reputed Institutions in India and abroad.
- We have signed 30 MOUs with various companies to transfer knowledge and skills to and from our staff with many companies BSNL, MAVEN SILICON, VI Microsystems, J-Tech Instruments, CADD Livewire, RSHELL which helps students to do Internships/ Fieldtrips/ Project work and for job recruitments.

19. Number of Journals/ Conference publications

- 40 faculty have published papers in International/ National Conferences and Journals.

20. Number of Extension and Outreach programs conducted in Collaboration with external organizations through NSS.

- 15 programs conducted towards awareness for various issues such as Health, Hygiene, Environmental etc.

21. Number of Students participated in Extracurricular and Co-curricular activities organized in the Institute

- 150 students attended cultural events and 1000 students attended various sports events organized in the Institute.
- 100 students participated in Co-curricular activities such as Paper Presentations, Design Contests, Circuit Debugging, project expo, Learnathon/Hackathon etc. organized in the Institute.

22. Number of Students participated in Extracurricular and Co-curricular activities in other Institutions.

- 15 students participated in Cultural and 250 students participated in Sports events organized in other Colleges and got prizes.

23. Implementation of e-governance in institution operations.

- The ERP software has been implemented for effective monitoring of administration, finance, student admissions & support, result analysis, examinations, syllabus coverage and students' attendance.

24. Initiatives and campus facilities.

- Initiatives and steps have been taken to maintain green campus, energy/water conservation, waste management etc.

25. Institution efforts for conduct of events towards gender audit, cultural, regional,

linguistic and communal diversity.

- Various events such as women's day celebration, competitions were conducted to promote gender equity.
- Various celebrations such as Gandhi Jayanthi, International Yoga Day, Tamil New year, Pongal celebration and awareness programs were organized to create an inclusive environment for everyone with tolerance and Harmony towards cultural, regional, linguistic, communal socio-economic and other diversities

26. Department Activities

- **The Department of Civil Engineering** organizes Guest Lectures, Workshops & Seminars on various topics such as 'Career Opportunities for Civil Engineers', 'An Innovative Project-Future Thinking & Start up Policy & Intellectual Property Rights 'in association with reputed companies
- **The Department of Computer Science and Engineering and Artificial Intelligence & data Science** has organized various workshops, Seminar related to "Cyber Security", "Mobile Application Development", "How to write and publish in the SCI, SCIE & SCOPUS indexed journal in association" with HCL technologies, Hexaware, Anna University etc.
- **The Department of Electronics and Communication** organized workshop on the topics like "Social Entrepreneurship, API Automation using Soap UI, Seminars on recent topics like IOT and Embedded Systems, Python Programming & Applications delivered by eminent speakers from reputed companies like Maveric Silicon Systems, L&T Infotech, Ecotechnologies etc. E- Conference titled "Recent Advances in Engineering and Technology "was organized and papers were presented in emerging areas
- **The Department of Electrical and Electronics** have organized Various Seminars, Hands on training, Workshops are arranged in association with reputed companies on topics related to Power system simulation using ETAP, Electric circuit design and simulation using Electrical CADD, Arduino & Porteous Software, PLC Automation, Power electronics circuit design, Design of PCB board circuits. E- Conference titled "Smart Innovation in Electrical Engineering"
- **The Department of Information Technology** has organized many

workshops, seminar and faculty development programs on topics VLSI Design, Python programming, Machine Learning in association with Hyper Technology, Phoenix Systems etc.

- **The Department of Mechanical Engineering, Mechatronics and Robotics Automation** has organized guest lectures delivered by experts in Composite Structure for Light weight Structures; Future Technology in Automobile Sector, and Automation Studio for Industrial Automation Services. The Workshops conducted on Ansys Linear and Non-Linear Study, Hyper mesh and ANSA Overview, SolidWorks -The Future of Optimization, and 7 Axis CNC Machining by Mastercam provides hands-on experiences that allowed students to explore new software and techniques.
- **The Department of Biomedical Engineering and Pharmaceutical Technology** has organized seminars and workshops in association with reputed companies
- **The Department of Science and Humanities** has organized seminars in association with reputed companies. Technical Expo was conducted and various innovative projects and prototypes were displayed by students.
- **The Department of Management and Business Administration and Master of Computer Application** has a membership in MMA chapter and they are conducting workshop and seminars in various occasions.