



**NATIONAL INSTITUTE OF TECHNOLOGY  
TIRUCHIRAPPALLI**

# **INSTITUTE DAY**

**2021**

**14.08.21**

**A Report on  
Achievements**



**NATIONAL INSTITUTE OF TECHNOLOGY:  
TIRUCHIRAPPALLI**

**Tamil Nadu - 620 015**

The National Institute of Technology, Tiruchirappalli has distinguished itself on the national scene, by being ranked ninth among all the technical institutes in the country and first among the 31 NITs (sixth year in a row) by the National Institutional Ranking framework (NIRF), India Ranking 2021, Government of India. In 'overall' ranking, NIT Tiruchirappalli moved to 23<sup>rd</sup> position and remained in the top 25 Educational Institutions in the country. Established as the Regional Engineering College (REC) in 1964, the salubrious campus became NIT, Tiruchirappalli in 2003 and is an Institution of National Importance under Ministry of Education, Government of India. The President of India is the visitor of the Institute.

The Institute has 17 Academic departments and runs 10 UG Programmes, 31 Masters Programme, MS by Research and Ph.D. Programmes in major fields of Engineering, Sciences, Humanities and Management. The vibrant campus with 7000 + students is a shining example of cultural diversity with students drawn from almost all the states in the country and abroad.

NIT, Tiruchirappalli follows credit based academic programmes with flexible curricula, minor specializations and new evaluation models. The Institute has won prestigious awards for best industry linked institute, best in employability, social responsibility and project governance from FICCI. NIT, Tiruchirappalli has been declared the Best Innovation Club at the Festival of Innovation and Entrepreneurship held at Rashtrapathi Bhawan in 2018, by the President of India. The Institute also bagged the Green Campus Award conferred by TNPCB and is in the top 10 in Swatch Campus ranking.

The Strategic Plan for the Institute released in 2018 aims to propel the Institute to be one of the top 100 Institutions in the world, with systematic review and monitoring in place. NIT Tiruchirappalli has set up the first of its kind Centre of Excellence in Manufacturing, with an investment of 190 Crores is a perfect example of Industry-Academia Partnership. The Institute established ISRO - Space Technology Incubation Centre in 2019 and National Research Development Council (NRDC) Patent Facilitation Centre in 2020 and is part of the National Super Computing Mission with a 650 TF Super Computer being installed. MoE has appointed NIT Tiruchirappalli as National MOOCS coordinator for UG & PG Engineering programs, in the process of setting up Studios and developing courses-2020. NIT Tiruchirappalli is one of the Prime Ministers' Research Fellowship (PMRF) Granting Institution from 2020. NIT Tiruchirappalli has forged links with peer universities and institutes, both at the national as well as international levels, to enhance research and enrich its academic programmes. The alumni have distinguished themselves through their achievements and contributions to the domains of industry, academics, research, business, and governance.

**I. UNDERGRADUATE PROGRAMMES**

**A. Bachelor of Technology (8 Semesters)**

1. Chemical Engineering
2. Civil Engineering
3. Computer Science and Engineering
4. Electrical and Electronics Engineering
5. Electronics and Communication Engineering
6. Instrumentation and Control Engineering
7. Mechanical Engineering
8. Metallurgical and Materials Engineering
9. Production Engineering

**B. Bachelor of Architecture (10 Semesters)**

1. Architecture

**II. POSTGRADUATE PROGRAMMES**

**A. Master of Technology (4 Semesters)**

1. Chemical Engineering
2. Process Control and Instrumentation
3. Transportation Engineering and Management
4. Construction Technology and Management
5. Structural Engineering
6. Environmental Engineering
7. Geotechnical Engineering
8. Data Analytics
9. Computer Science and Engineering
10. Energy Engineering
11. Power Electronics
12. Power Systems
13. Communication Systems
14. VLSI System
15. Industrial Automation
16. Industrial Safety Engineering
17. Thermal Power Engineering
18. Material science and Engineering
19. Industrial metallurgy
20. Welding Engineering
21. Industrial Engineering and Management
22. Manufacturing Technology
23. Non-Destructive Testing

**B. Master of Architecture (4 Semesters)**

1. Energy Efficient and Sustainable Architecture

**C. Master of Science (4 Semesters)**

1. Chemistry
2. Computer Science
3. Mathematics
4. Physics

**D. Master of Business Administration (6 Trimesters)**

**E. Master of Computer Applications (6 Semesters)**

**F. Master of Arts (4 Semesters)**

English Language and Literature

**III. Master of Science (By Research)**

All Engineering Departments

**IV. Doctor of Philosophy**

All Departments

**Vision**

To be a university globally trusted for technical excellence where learning and research integrate to sustain society and industry.

**Mission**

- To offer undergraduate, postgraduate, doctoral and modular programmes in multi-disciplinary / inter-disciplinary and emerging areas.
- To create a converging learning environment to serve a dynamically evolving society.
- To promote innovation for sustainable solutions by forging global collaborations with academia and industry in cutting-edge research.
- To be an intellectual ecosystem where human capabilities can develop holistically.

## Director's Message

### Institute Day 2021



Greetings!

Our Chief Guest Prof. Govindan Rangarajan, Director, IISc Bangalore, Chairperson BoG, Shri.Bhaskar Bhat, Deputy Director, Registrar (i/c), Deans, HoDs, Faculty, Staff, Student Achievers, Parents, Media Representatives, Ladies and Gentlemen.

We have gathered today, most of you virtually, to celebrate the achievements of the NIT Tiruchirappalli community in the Academic year 2020-21. Efforts to combat the pandemic ushered in an altogether new era in the field of education with everything being online: classes, laboratories, exams, project reviews, club activities, important celebrations such as Independence Day, Republic Day, Institute Day, Festember, Pragyan and even Convocation 2020. In the face of the still uncertain future of education in a post-pandemic world, our resilience appears to have only grown stronger.

Over the course of last year, the campus community successfully made a near-seamless transition to virtual teaching and learning environments. We did more than merely adapt to digital learning; we were able to mine the innumerable possibilities offered by digital learning platforms to overcome mobility constraints. Our faculty and students have shown great zeal in adapting to the pedagogical demands and challenges of virtual learning environments.

We continue to make great strides on the academic front, performing well in all the growth markers.

We made an impact yet again, 5<sup>th</sup> year in a row, by moving to the 9<sup>th</sup> position in the Engineering category in the NIRF India Rankings 2020 and retained No. 1 position among all the NITs. The Institute has improved on all the NIRF parameters and in the last 3 years, the score improved from 59.44 to 64.1. In the overall category, we moved to 24<sup>th</sup> position from 34<sup>th</sup>, in two years, with many renowned universities and institutes still behind us. The NIRF Task Force and Data Intelligence Team's co-ordination was instrumental in achieving this recognition - Congratulations!

The strategic plan (2019-24) for the Institute – which was unveiled 3 years ago, delineating a clear road map to move forward – is being implemented effectively, with periodic review and follow up. This has kept us on track and shown results, visible from the improvements in publications, introduction of new courses, establishment of centers of excellence and strengthening of Industry and Alumni relations, ultimately reflecting in our rankings! The strategic plan is already aligned with the National Education Policy 2020 with the

implementation of a flexible curriculum, facilitation of industry collaborations, the enabling of credit transfer from elite Institutions and much more. Through these initiatives, along with the prescient introduction of a Master's programme in English Language and Literature in 2020, NIT Tiruchirappalli has demonstrated that its vision aligns with that of the NEP '20 for the integration of vocational education with general education. As part of NEP implementation, the institute initiated direct Ph.D. admissions for B.Tech./B.Arch. graduates for the first time in 2021-22. Integrated M.Tech./Ph.D. programs are also launched from this year.

We are in the process of aligning our strategic plan to implement more initiatives of NEP 2020, including online courses & programs to increase the gross enrolment ratio.

Amongst our noteworthy achievements in AY 20-21 are the fellowships awarded to our Ph.D. scholars under the Prime Minister's Research Fellows (PMRF) Scheme. By virtue of being the only NIT to feature in the top 25 institutions in the NIRF ranking, we were recently inducted into the pool of premier national institutions eligible for this prestigious fellowship. I am delighted to announce that 13 of the students secured the coveted PMRF fellowship out of the 16 seats allotted to us in 2020-21. This serves as an indisputable demonstration of the quality of research conducted at NIT Tiruchirappalli as well as the national and global relevance of the problems we engage with. I extend my congratulations to the awardees and their supervisors.

**Some of the other highlights of AY 20-21 are:**

1. The Institute, along with CDAC, has invested Rs. 19 Crore and setup a high-performance supercomputing facility as part of the **National Supercomputing Mission (NSM)**.
2. At NIT Tiruchirappalli we encourage multidisciplinary research and to this end we successfully launched the 190 Crore Centre of Dynamic Excellence in Manufacturing in 2018 in partnership with Siemens Industry Software. Moreover, we also launched the Centre for Artificial Intelligence, IOT and Intelligent machines a few months back. In addition, the Centre for Advanced Manufacturing & Automation (CAMA), the Interdisciplinary labs for Energy Harvesting and Storage Technology for Combustion & Emission Studies and for Electronics System Design Calibration & testing are all ready for inauguration, as part of our strategic plan.
3. Being the National MOOCs coordinator for UG and PG Engineering programs, the Institute has initiated the development of new courses for the Swayam platform with an initial funding of Rs. 3 Cr from the Ministry of Education.
4. NIT Tiruchirappalli consistently topped with the highest audit score of 1.03 in TEQIP III phase following its top spot recognition in TEQIP I & II phases earlier.

### **The pandemic did not hinder our growth on the Research & Consultancy front either:**

1. We published an average of ~ 1400 SCI journal papers in 2020- 72 % in Q1 and Q2 Journals indicating the quality of publications—Furthermore, the citations rose to **17000**.
2. The Institute **filed 20 patents, published 6 patents and was granted 4 patents** in AY 2020-21.
3. I am also pleased to announce that our faculty put in efforts to generate a **consultancy revenue of ~ 2.5 crores last year** in AY 20-21, a remarkable feat in these tough times
4. The Department of Mathematics has been selected for **DST FIST funding of 2.5 Crores**. Congratulations!
5. TCS Foundation has in principle agreed to sponsor **10 crores** for setting up a TCS AI Centre at NIT Tiruchirappalli.
6. Our Institute is now closely associated with the Ministry of Small and Medium Enterprises (MSME) design schemes and was recently awarded 3 student projects, which is a good beginning towards innovation for a societal cause.
7. We completed ~ **30 workshops/conferences** in virtual mode and were successful in bagging 5 AICTE - ATAL workshops and 9 FDP/STTPs under the AICTE Margadharshan Scheme. The workshops tackled a diverse range of relevant themes while never losing focus on the most pressing concern that educators today are confronted with: the challenges of delivering quality education virtually.

### **Recruitment and Graduation:**

1. Recruiting the right Faculty and staff is the most challenging assignment of a Director. I am glad we were successful in this endeavour last year too. We recruited 69 new Faculty in March 2020 – including 21 women – who joined during the pandemic. They are contributing immensely to the growth of the Institute.
2. To encourage more women to take up leadership positions, capacity building workshops were conducted for new women faculty and I am elated to state that we have women in many leadership positions in the Institute.
3. For the first time in the history of the Institute, **direct recruitment for Group B & C posts** were conducted and **92 young men & women** were recruited in July 2021. Three of our Non-Muster Roll employees and around 6 of our temporary staff have secured permanent positions in this process. Congratulations! I must compliment Dr.Sathish, Assistant Registrar (Recruitment) and the team for this great effort.
4. A total of 1777 graduates received degrees in Convocation 2020, including **173 Ph.D.** degrees, which is an all-time record.

### **Alumni Activities:**

1. Alumni Relations reached new heights in the last 3 years with the appointment of a new Dean Alumni Relations. I wish to laud the unstinting support offered by RECAL, the Alumni Association of REC/NIT Tiruchirappalli for establishing the RECAL Cares initiative, by raising 2 Crores, to overcome the challenges posed by the Pandemic. This facilitated building an Oxygen Generator, providing Oxygen concentrators, Health-athon Research & Prototype grants, support to students with deceased parents, Medical/grocery kit for ad-hoc staff, etc.
2. **Eleven Distinguished Alumni Awards and Young Achievers Awards** are awarded this year to notable alumni for their remarkable contributions in their fields.
3. In association with RECAL, we launched the NIT Tiruchirappalli USA Alumni chapter initiative called **ALUMNICAST/Fireside chats**, featuring high profile Alumni speakers, to encourage young students and faculty.
4. **The Heritage Centre** – an Institute and RECAL initiative – will soon be a reality showcasing our history & heritage.
5. Our alumnus, Mr. Raj Shanmugaraj, sponsored Rs. 188 lakhs towards the establishment of the **Centre for System On-Chip (SoC) Design and Fabrication** in the Department of Electronics and Communication Engineering.

### **Infrastructure and Green Campus:**

1. We added a golden Jubilee Annexe building for the Department of Chemical Engineering. Furthermore, the construction of 6 Department Annexe buildings has been initiated, a new ladies hostel is nearing completion and work on a new boys hostel is about to commence. 200 Crores is being invested in these structures and facilities adding 60,000 sq M of built space to take the Institute to the next level in terms of infrastructure.
2. NIT Tiruchirappalli bagged the '**One District One Green Champion**' award as part of Swachhta Action Plan 2020-21, awarded by the Mahatma Gandhi National Council of Rural Education.
3. Two **Miyawaki forests were** set up on campus on the occasion of World Forest day in March 2021 with the planting of 6000 saplings. This marks the commencement of an urban afforestation initiative with the aim to encourage the growth of dense forest cover of native plants on campus.
4. A **world class Technogym** was inaugurated for the benefit of the campus community.
5. I wish to reiterate that NIT Tiruchirappalli has been doing exceptionally well in protecting the campus against the spread of the pandemic since March 2020 with consistent support and efforts from all fronts, especially the Medical team and Security

Team. I extend my sincere gratitude to them and to the core administration team// including the Deputy Director, Registrar and Deans.

6. In addition to ensuring the safety of the campus residents, the Institute extended its support to the Trichy Administration by facilitating a **COVID CARE CENTRE** with 500 beds to aid the locality.

Today we are announcing the names of 31 Faculty achievers young and old, 20 budding researchers, UG and PG meritorious award and endowment award winners// along with the Best Departments.

My congratulations to all award winners. Special congratulations to the Festember and Pragyan teams of 2020-21, you did it online with tons of imagination!

This account of our achievements in AY 20-21 is testament to the fact that NIT Tiruchirappalli has proved itself more than capable in confronting and overcoming the manifold difficulties posed by the pandemic on academic and non-academic fronts.

The pandemic has no doubt thrown a wrench in traditional ways of sharing and accruing knowledge. However, in doing so, it has revealed to us our indomitable spirit, our resilience and the boundless capacity we possess to adapt to and overcome unimaginable adversities. This is the spirit that we strive to inculcate and foster in our students; this is the key objective of the education we impart to them.

I can state with immense pride and pleasure that NIT Tiruchirappalli has set a fine example in this respect to educational institutions the world over. NIT Tiruchirappalli is proud of the COVID assistance initiatives we actuated and considers it a privilege to have played a part in fostering a scientific community with a humanitarian outlook, thereby reinforcing the message conveyed in the institute tagline – Locally Relevant, Globally Competitive.

I thank you all for joining me today especially Prof.Govindan Rangarajan and Shri.Bhaskar Bhat in taking stock of NIT Tiruchirappalli's myriad accomplishments last year, despite the seemingly unbeatable odds.

Let us continue working together in this spirit to ensure that we outshine our own achievements in the coming academic year.

Jai Hind!

**Dr. Mini Shaji Thomas**

**Director  
National Institute of Technology, Tiruchirappalli  
August 2021**

## INSTITUTE ADMINISTRATION

Director	Dr. Mini Shaji Thomas
Deputy Director	Dr. M. Umamathy
Dean (Academic)	Dr. Ramakalyan A
Dean (Students Welfare)	Dr. N. Kumaresan
Dean (Faculty Welfare)	Dr. (Mrs). L. Cindrella
Dean (Institute Development & Alumni Relations)	Dr. G. Subaiyan
Dean (Planning and Development)	Dr. M. Duraiselvam
Dean (Research and Consultancy)	Dr. S. Muthukumar
Registrar	Dr. M. Arivazhagan (i/c)
Chief Vigilance Officer	Dr. T. N. Janakiraman
Nodal Officer (SC, ST, OBC, PwD and Minorities)	Dr. M. Punniyamorthy
HoD / Architecture	Dr. K. Thirumaran
HoD / Chemical Engineering	Dr.(Mrs.) P. Kalaichelvi
HoD / Chemistry	Dr. (Mrs).S. Velmathi
HoD / Civil Engineering	Dr. G. Swaminathan
HoD / Computer Applications	Dr. P. J. A Alphonse
HoD / Computer Science and Engineering	Dr. Rajeswari Sridhar
HoD / Electronics and Communication Engineering	Dr. P. Muthuchidambaramanathan
HoD / Electrical and Electronics Engineering	Dr. V. Sankaranarayanan
HoD / Energy and Environment	Dr. M. Premalatha
HoD / Humanities and Social Sciences	Dr. S. Mekala
HoD / Instrumentation and Control Engineering	Dr. G. Uma
HoD / Management Studies	Dr. G. Muruganantham
HoD / Mathematics	Dr. V. Lakshmana Gomathi Nayagam
HoD / Mechanical Engineering	Dr. AR. Veerappan
HoD / Metallurgical and Materials Engineering	Dr. B. Ravisankar
HoD / Physics	Dr. M. Ashok
HoD / Production Engineering	Dr. R. Jeyapaul
HoD / Training Placement	Dr. A. K. Bakthavatsalam
HoD / Computer Support Group	Dr. M. Bhaskar
Associate Dean (Faculty Welfare)	Dr. C. Sathiya Narayanan
Associate Dean (Faculty Welfare)	Dr. V. M. Biju
Associate Dean (Academic / UG)	Dr. V. Mariappan
Associate Dean (Academic / PG)	Dr. P. Srinivasa Rao Naik
Associate Dean (Academic / MS & Ph.D.)	Dr. P. Senthil
Associate Dean (Academic)	Dr. T. Sivasankar
Associate Dean (Academic / UG)	Dr. R. Raghavan
Associate Dean (Hostel Convener / Boys)	Dr. S. Suresh
Associate Dean (OPAL Hostel / Girls)	Dr. R. Manjula
Associate Dean (Students Welfare)	Dr. J. Jerald
Associate Dean (Planning and Development)	Dr. R. Senthilkumar
Associate Dean (Planning and Development)	Dr. M. P. Selvan
Associate Dean (Planning and Development)	Dr. S. Moorthi
Associate Dean (Institute Development & Alumni Relations)	Dr. Nisha Radhakrishnan
Associate Dean (Institute Development & Alumni Relations)	Dr. G.R. Gangadharan
Associate Dean (Research and Consultancy)	Dr. R. Anand
Associate Dean (Research and Consultancy)	Dr. M.C. Santhosh Kumar
Associate Dean (Research and Consultancy)	Dr. V. Sunitha

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## A REPORT ON ACHIEVEMENTS

BY

DEAN (ACADEMIC)

Greetings!

Esteemed Chief Guest, Professor Govindan Rangarajan, Director, Indian Institute of Science Bangalore, Chairperson, Board of Governors, Shri. Bhaskar Bhat, Director, Deans, HoDs, Registrar-in-charge, faculty, alumni, staff, students and guests of honor. It gives me immense pleasure welcoming each one of you to the 58<sup>th</sup> Institute Day celebrations at the National Institute of Technology, Tiruchirappalli. Today, we are virtually assembled to celebrate the Institute Day, an occasion to present some of the laudable achievements and outstanding contributions of NIT Tiruchirappalli. It is indeed fulfilling to report to you that our tradition of academic and research excellence continues and has, in fact, reached newer heights.

In spite of COVID-19 challenges, NIT Tiruchirappalli successfully adapted and ensured continuity in teaching, learning and research activities. Thanks to all the stakeholders who played an important role in ensuring that teaching and learning continued seamlessly.

It's my pleasure to report to you on the accomplishments and milestones of 2020.

### 1. 2020 Convocation

The 16<sup>th</sup> virtual Convocation was held on 7<sup>th</sup> November 2020. The occasion witnessed an insightful convocation address by Padma Vibhushan Azim Premji, founder and former chairman of Wipro. 841 undergraduates, 730 postgraduates, and a remarkable 173 research scholars, totalling to 1744 students were awarded degree during the 16<sup>th</sup> convocation. This is the first time that all the students received their degrees in absentia except a few awardees and medalists.

### 2. Department-wise significant contributions by the faculty & students

Let me now present to you the outstanding achievements and contributions of each department. First, I am excited to report that a total of 13 Ph.D. students out of the allocated 16 students bagged the Prime Minister's Research Fellows (PMRF) award. Second, NIT Tiruchirappalli has witnessed substantial increase in patent filings and grants.

#### Department of Architecture:

The Department of Architecture bagged two PMRF fellowships.

**Department of Computer Applications:**

Funded by NRB-DRDO, Drs. U. Srinivasulu Reddy and S. Dominic received sponsored research funding of Rs. 38 lakhs for the Development of AI Based Weapon Logistics Module.

**Department of Chemical Engineering:**

Former Union Minister of Education, Ramesh Pokhriyal 'Nishank' inaugurated virtually the Golden Jubilee Building of the Department of Chemical Engineering on 20<sup>th</sup> October, 2020. The Department of Chemical Engineering also bagged two PMRF awards. Dr.T.K.Radhakrishnan, Dr. P. Kalaichelvi and Dr.S. Karthika was granted a patent for "Method for preparing Ibuprofen crystals using a green solvent".

**Department of Chemistry:**

The Department bagged one PMRF fellowship. The faculty members of the Department published 77 research articles, 7 book chapters and administered 68 lakhs worth of sponsored projects.

**Department of Civil Engineering:**

Besides winning one PMRF fellowship, the Department of Civil Engineering bagged industrial projects worth 1.5 crores from Tata Steel, Coir Board, and the National Highway Authorities of India.

**Department of Computer Science and Engineering:**

The Department of CSE bagged one PMRF fellowship and has published over 90 research articles in refereed journals.

**Department of Energy and Environment:**

Energy and Environment received DST research grant worth 108 lakhs. One PMRF award was bagged by the department.

**Department of Electronics and Communications Engineering:**

Besides winning one PMRF award, the Department has published 81 research articles, twelve book chapters and has bagged sponsored projects worth 1.55 crores.

**Department of Electrical and Electronics Engineering:**

Shashank Singh bagged Best Master's thesis award from the International Society for Energy, Environment and Sustainability (ISEES) and ISTE-L&T National award for the same. Besides winning two PMRF awards, the Department was granted 03 patents. They are: "S3 Grid Tie

Inverter” by Dr. B. Dastagiri Reddy, Dr. M.P. Selvan and Dr. S.Moorthi; “Single Stage Transformerless Photovoltaic Inverter” by Dr. Ashok Kumar, Dr. Sensarma Parthasarathi; and, “Hybrid control of resonant converter for DC grid applications” by Shelas Sathyan, H. M. Suryawanshi, M. S. Ballal, R. K. Keshri, T. Ajmal. The Department also received funds worth 1.4 crores.

**Department of Humanities and Social Sciences:**

The Department published four books, two book chapters, and nineteen research articles. The department also organized two national conferences.

**Department of Instrumentation and Control Engineering:**

Dr. K. Srinivasan received Distinguished Alumni award from Anna University, Chennai. One patent was granted to “Low voltage electrowetting-on-dielectric (EWOD) actuation using nanocomposite thin film” technology. Students of the Department won Smart India Hackathon.

**Department of Mathematics:**

Dr. Jitraj Saha was selected as a Reviewer for two major Q1 ranked journals, namely, Crystal Growth & Design of American Chemical Society and Journal of Computational Physics, Elsevier.

**Department of Management Studies:**

Department of Management Studies published 27 research articles in refereed journals. Its faculty delivered 13 guest lectures and organized 26 workshops and conferences.

**Department of Mechanical Engineering:**

The Department published 4 books, 16 book chapters and record 133 research articles in refereed journals. 1 patent was granted and consultancy work close to 40 lakhs were administered in 2020.

**Department of Metallurgical and Materials Engineering:**

The Department bagged one PMRF award. Besides publications, funded projects worth 1.25 crores was received from various agencies. One patent was granted during this period.

**Department of Physics:**

Department of Physics published 85 research articles in refereed journals and bagged one PMRF award.

**Department of Production Engineering:**

Department of Production published 42 articles and 3 book chapters. 2 patents were published during this period.

**Student and Other related activities:**

Our cultural festival, Festember and, our ISO certified technical festival, Pragyan were hosted virtually with customary fanfare. We hosted distinguished guests such as 5-time World Champion Vishwanathan Anand; social activist, Medha Patkar; celebrity psychologist, Dr.Nishi Khanna; sports psychologist and mental condition coach, Badri Narayanan; playback singer, Shweta Mohan among others. The Sports Council conducted the Sports Day 2021 via YouTube on April 29<sup>th</sup> 2021. The Chief Guest was Indian Athletics and Olympics Chief Coach, Mr. P. Radha Krishnan Nair. NSS organized 6 talk series.

International Women's Day was celebrated from 1<sup>st</sup> March to 8<sup>th</sup> March. Cultural and sports activities and invited lectures were organized as part of the program. In continuation of our efforts to make NIT Tiruchirappalli more desirable place for our fraternity, a Miyawaki model forest is raised.

My heartiest wishes to all the achievers, both faculty and students, who will receive medals and awards today. I also take this opportunity to thank all of you for your role in making last year a great year for NIT Tiruchirappalli. I am sure that NIT Tiruchirappalli would grow leaps and bounds under the able leadership of the Chairperson, BOG and our Director. Let us all transform challenges into a great opportunity and make NIT Tiruchirappalli a global centre of learning.

Jai Hind!

**Prof. Ramakalyan Ayyagari**

**Dean, Academic**

### ACHIEVEMENTS BY FACULTY

#### a. Publications (Scholarly Output and Publications in Q1 Journal Quartile by SJR)

S. No.	Name of the Faculty	Publications (CY: 2020)		Publications in Q1 Journal Quartile by SJR*
		Web of Science	Scopus	
1.	Architecture	7	6	0
2.	Chemical Engineering	70	63	50
3.	Chemistry	72	59	39
4.	Civil Engineering	68	86	30
5.	Computer Applications	49	72	12
6.	Computer Science Engineering	55	83	17
7.	Electrical and Electronics Engineering	41	68	25
8.	Electronics and Communication Engineering	87	123	17
9.	Energy and Environment	13	15	8
10.	Humanities and Social Sciences	17	25	8
11.	Instrumentation and Control Engineering	26	48	17
12.	Management Studies	21	18	8
13.	Mathematics	32	30	4
14.	Mechanical Engineering	69	102	31
15.	Metallurgical and Materials Engineering	67	69	28
16.	Physics	74	87	31
17.	Production Engineering	78	113	24
<b>Total</b>		<b>846</b>	<b>1067</b>	<b>349</b>

\*(Note: SJR: Scimago Journal & Country Rank) Q1 to Q4 refer to journal ranking quartiles within a sub discipline using the SJR citation index. Thus, a first quartile journal (i.e., Q1) has an SJR in the top 25% of journals for at least one of its classified sub disciplines. SCImago Journal Rank (SJR indicator) is a measure of scientific influence of scholarly journals that accounts for both the number of citations received by a journal and the importance or prestige of the journals where such citations come from.

**b. Sponsored projects, Consultancy projects and Short-term courses for the Financial year 2020-21**

S. No.	Departments	Sponsored Projects		Consultancy (in Lakhs)	Revenue through short term courses (in Lakhs)
		Nos.	Values (in Lakhs)		
1.	Chemical Engineering	1	9.10	11.80	1.07
2.	Chemistry	-	-	-	0.73
3.	Civil Engineering	1	72.31	166.95	0
4.	Computer Applications	-	-	35.87	1.31
5.	Computer Science Engineering	2	28.27	-	0.03
6.	Electrical and Electronics Engineering	3	157.5	-	1.42
7.	Electronics and Communication Engineering	3	48.12	1.35	0.01
8.	Energy and Environment	-	-	3.3	0.18
9.	Instrumentation and Control Engineering	1	14.54	-	-
10.	Management Studies	-	-	-	2.81
11.	Mathematics	-	-	0	0.67
12.	Mechanical Engineering	-	-	1.80	0.28
13.	Metallurgical and Materials Engineering	3	141.93	0.09	0.26
14.	Physics	0	0	0	0.32
15.	Production Engineering	-	-	6.02	0.75
16.	Siemen Centre of Excellence	-	-	29.17	-
<b>Total</b>		<b>15</b>	<b>471.77</b>	<b>256.34</b>	<b>9.84</b>

**C. Details of Sponsored projects for the Financial year 2020-21**

S. No.	Name of PI/Co-PI	Department	Title of the Project	Funding Agency	Sanctioned amount (Rs.)	Sanctioned Date
1.	Dr. Ezhilarasi D	Instrumentation and Control Engineering	Design of sliding mode controller for biped walking	DRDO - CARS	1453930	13.03.2020
2.	Dr. N. Ramesh Babu	Metallurgical and Materials Engineering	'Development of high strength and low young modulus, bioactive and antibacterial porous titanium structure for orthopedic implants'	DST	3645062	14.10.2020
3.	Dr. C. Mala	Computer Science Engineering	Design and development of algorithms for underwater target classification employing data augmentation and incremental learning	DRDO - CARS	997000	30.01.2020
4.	Dr. Sudharsan P	Electronics and Communication Engineering	Analysis of aerial intelligent reflecting surfaces for application in 6G wireless system	SICI-SICRG	1000000	27.11.2020
5.	Mentor Dr. K. Sivaprasad PI Dr. Prabhukumar	Metallurgical and Materials Engineering	SERB-TARE Grant	SERB-TARE	1830000	02.12.2020
6.	Mentor Dr. G. Saravana Ilango PI Dr. Kamalesh MS	Electrical and Electronics Engineering	SERB-TARE Grant	SERB-TARE	1830000	07.12.2020
7.	Mentor Dr. D. Sriram Kumar PI Dr. Balamurugan	Electronics and Communication Engineering	SERB-TARE Grant	SERB-TARE	1830000	04.12.2020
8.	Dr. S. Senthil kumar	Electrical and Electronics Engineering	MEITY	--	8376000	28.05.2020

9.	Dr. V. Sunitha	Civil Engineering	Evaluation of pavement performance of coir reinforced rural roads in Tamilnadu	COIR BOARD	7231000	05.02.2021
10.	Dr. E. S. Gobi	Electronics and Communication Engineering	Hunting representative sensors and constructing regression model between sensor outcomes using ML	GTRE-DRDO	1982068	10.02.2021
11.	Mentor Dr. C. Mala	Computer Science Engineering	SERB-TARE Grant	SERB-TARE	1830000	03.12.2020
12.	Dr. S. Kumaran	Metallurgical and Materials Engineering	Development of oxide dispersion strengthened tungsten heavy alloys: study their structure-property relation	DRDO	8717744	26.02.2021
13.	Dr. S. Moorthi	Electrical and Electronics Engineering	"Wireless sensor node for online data transfer of parameters from electrical machines and drives"	MEITY	5544000	28.05.2020
14.	Dr. N. Samsudeen	Chemical Engineering	Development of Graphene based nanomaterials for bioelectricity generation through tannery wastewater treatment using microbial fuel cell	DST	910000	05.11.2020

**d. Patents Published in the calendar year 2020**

S. No	Title of the Invention	Inventors	Department	Patent No.
1.	Thermomagnetic temperature Indicator and Method Thereof	Dr. R. Justin Joseyphus	Physics	202041005420
2.	System For Thermal Response Enhancement of Phase Change Materials of Energy Storage and Method Thereof	Dr. Sivan Suresh	Mechanical Engineering	202041028529
3.	A Mold For Casting Previous Concrete and Method Thereof	Dr. K. Muthukkumaran	Civil Engineering	202041011873
4.	An Elasto plastic Deformation Processing Tool and Method Thereof	Dr. S. Muthukumaran	Metallurgical and Materials Engineering	202041006504

**e. Patents (Granted) in the year 2020 - 2021**

S. No.	Title of Invention	Inventors	Department	Patent No.
1.	Method for Preparing Ibuprofen Crystals using a Green Solvent and Product Thereof	Dr. T. K. Radhakrishnan Dr. P. Kalaichelvi	Chemical Engineering	201741033366
2.	A method to prevent synergetic action of erosion and corrosion in storm water control pumps	Dr. S. Natarajan Dr. S. P. Kumaresh Babu	Metallurgical and Materials Engineering	5145/CHE/2014

**f. Faculty Awards for the year 2020-2021:****Best Performance in Teaching, Research and Institutional Development**

<b>ARCHITECTURE</b>			
<b>S. No.</b>	<b>Category</b>	<b>Name of the Faculty</b>	<b>Department</b>
1.	<b>Associate Professor</b>	Dr. K. Thirumaran	Architecture

<b>CIRCUIT BRANCHES</b>			
<b>S. No.</b>	<b>Category</b>	<b>Name of the Faculty</b>	<b>Department</b>
1.	<b>Professor</b>	Dr. P.J.A. Alphonse	Computer Applications
2.		Dr. P. Palanisamy	Electronics and Communication Engineering
3.		Dr. C. Mala	Computer Science and Engineering
4.	<b>Associate Professor</b>	Dr. S. Domnic	Computer Applications
5.	<b>Assistant Professor (Grade I)</b>	Dr. B. Janet	Computer Applications
6.		Dr. U. Srinivasulu Reddy	Computer Applications
7.		Dr. S. Sangeetha	Computer Applications
8.		Dr. M. Brindha	Computer Science and Engineering
9.	<b>Assistant Professor (Grade II)</b>	Dr. Shiraz Sohail	Instrumentation and Control Engineering
10.		Dr. P. Sudharsan	Electronics and Communication Engineering
11.		Dr. A. Santhana Vijayan	Computer Science and Engineering

<b>NON-CIRCUIT BRANCHES</b>			
<b>S. No.</b>	<b>Category</b>	<b>Name of the Faculty</b>	<b>Department</b>
1.	<b>Professor</b>	Dr. S. T. Ramesh	Civil Engineering
2.		Dr. S. P. Sivapirakasam	Mechanical Engineering
3.		Dr. M. Durai selvam	Production Engineering
4.	<b>Associate Professor</b>	Dr. S. Suresh	Mechanical Engineering
5.		Dr. N. Siva Shanmugam	Mechanical Engineering
6.		Dr. S. Vinodh	Production Engineering
7.	<b>Assistant Professor (Grade I)</b>	Dr. V. Sunitha	Civil Engineering

8.	<b>Assistant Professor (Grade II)</b>	Dr. S. Marisamynathan	Civil Engineering
9.		Dr. R. Senthil Kumar	Civil Engineering
10.		Dr. K.S.S. Harish	Mechanical Engineering

<b>SCIENCES</b>			
<b>S. No.</b>	<b>Category</b>	<b>Name of the Faculty</b>	<b>Department</b>
1.	<b>Professor</b>	Dr. S. Anandan	Chemistry
2.		Dr. N. Gopalakrishnan	Physics
3.	<b>Associate Professor</b>	Dr. S. Manivannan	Physics
4.		Dr. A. Sreekanth	Chemistry
5.	<b>Assistant Professor (Grade II)</b>	Dr. Ganesh Chandra Nandi	Chemistry

<b>MANAGEMENT STUDIES &amp; HUMANITIES AND SOCIAL SCIENCES</b>			
<b>S. No.</b>	<b>Category</b>	<b>Name of the Faculty</b>	<b>Department</b>
1.	<b>Professor (HAG)</b>	Dr. M. Punniyamoorthy	Management Studies
2.	<b>Associate Professor</b>	Dr. V. Sathyaraj	Humanities and Social Sciences
3.	<b>Assistant Professor (Grade II)</b>	Dr. B. Janarthan	Management Studies
4.		Dr. Malolan Sundararaman	Management Studies

**g. Budding Researcher Award for the year 2020-2021:**  
(Ph.D. Research scholars)

<b>S. No</b>	<b>Name</b>	<b>Roll Number</b>	<b>Department</b>
1.	A. Sethupathy	402115053	Chemical Engineering
2.	M. Krishnaveni	404117053	Chemistry
3.	M. Musthafa	404114051	Chemistry
4.	P. Vasanthakumar	404115010	Chemistry
5.	P. Chandru	403117002	Civil Engineering
6.	V. Anusudha	403117006	Civil Engineering
7.	Gerard Deepak	406118007	Computer Science and Engineering
8.	Madichetty Sreenivasulu	406116004	Computer Science and Engineering
9.	E. Silambarasan	405116005	Computer Applications
10.	B. Pradeep Kumar	407115001	Electrical and Electronics Engineering

11.	Gadipudi Amaranageswarao	408117004	Electronics and Communication Engineering
12.	Chinmay Murali	409117004	Humanities and Social Sciences
13.	Sudhir Singh	416117005	Mathematics
14.	Cyril Reuben Raj	411117051	Mechanical Engineering
15.	A. Rajesh Kannan	411116056	Mechanical Engineering
16.	Anoop Sunny	413117002	Physics

#### **h. Best Department Award**

Based on NIRF Parameters (Teaching Learning Resources, Graduation Outcome, Research & Professional Practice, Outreach & Inclusivity), the departments were evaluated for the “Best Performing Department” Award.

Based on Overall score, the following Departments were awarded under best Department category.

#### **Engineering Discipline:**

Department of Metallurgical and Materials Engineering

#### **Non-Engineering Discipline:**

Department of Physics

**In addition, Department of Chemical Engineering (in engineering discipline) has been acknowledged for their consistent Top Performance.**

#### **i. Dr. P. S. Manisundaram Endowment Award (Non-Teaching Staff) for the year 2020 - 2021**

<b>S. No.</b>	<b>Name</b>	<b>Section/Department</b>	<b>Designation</b>
1.	Shri.P.R. John Kennedy (Late)	Security Office	Senior Security Guard
2.	Smt. C. Valarmathy	Stores and Purchase Section	Superintendent (SG-II)
3.	Smt. S. Vairamani	Hospital	Pharmacist (SG-I)

**RANK HOLDERS (UG & PG)****INSTITUTE DAY PRIZE WINNERS (2021) / B.Arch. / B.Tech.****B.Arch. / ARCHITECTURE**

Batch	Rank	Roll Number	Name	CGPA
2015	1	101115008	CHIRASMITA DAS	9.41
2015	2	101115021	MD HASEEN AKHTAR	9.39
2015	3	101115024	NIKHIL SAINI	9.30
2016	1	101116009	BODAKUNTI SUNIL KUMAR	8.98
2016	2	101116040	SWEATHA R	8.88
2016	3	101116001	AARATI ANIL	8.72
2017	1	101117037	SRI AAKASH S	9.28
2017	2	101117026	R.ASHRUTHA HARSHINI	8.76
2017	3	101117046	V K JEEVAN KUMAR	8.74
2018	1	101118015	HRIDHAYA SUBRAMANIAM	9.26
2018	2	101118029	PRATYAY GHOSH	9.14
2018	3	101118033	R SNEHA	9.10
2018	3	101118036	SHIKHA PEGU	9.10
2019	1	101119036	NIHARIKA SAINI	9.50
2019	2	101119004	A NAVILAN	9.40
2019	3	101119031	MANAVI	9.26

**B.Tech. / CHEMICAL ENGINEERING**

Batch	Rank	Roll Number	Name	CGPA
2016	1	102116002	AKASH DHARSAN U S	9.79
2016	2	102116026	S KOUSHIK	9.35
2016	3	102116049	SHANTHI BHUSHAN S	9.26
2017	1	102117016	DEEPTI KANNAN	9.91
2017	2	102117048	SHANKHA SUBHRA PAUL	9.62
2017	3	102117062	SUYASH SACHIN DAMIR	9.60
2018	1	102118008	ANUJ DASGUPTA	9.80
2018	2	102118037	MAYANK JHA	9.48
2018	3	102118030	JAYDEEP CHAWDA	9.33

**B.Tech. / CIVIL ENGINEERING**

Batch	Rank	Roll Number	Name	CGPA
2016	1	103116094	VISHAL KUMAR	9.69
2016	2	103116035	KEDARISSETTI ASHRITHA	9.41
2016	3	103116098	YASHWANT	9.37
2017	1	103117031	C M K RAJSHRI	9.72
2017	2	103117097	TRISHLA VATS	9.71
2017	3	103117061	NANDINI GOPAN	9.27
2018	1	103118012	ASHUTOSH VERMA	9.46
2018	2	103118095	SUDHARSAN RATHNAKUMAR	9.40
2018	3	103118010	APARNA P	9.35

**B.Tech. / COMPUTER SCIENCE AND ENGINEERING**

Batch	Rank	Roll Number	Name	CGPA
2016	1	106116084	SHIVANI CHANDER	9.84
2016	2	106116016	BENEDICT FLORANCE A	9.45
2016	3	106116088	SHUBHENDRA PAL SINGHAL	9.37
2017	1	106117053	MOGALAPALLI HARSHIT	9.89
2017	2	106117043	L HARI NARAYANAN	9.84
2017	3	106117093	SNEHA SREEDHARA	9.74
2018	1	106118103	V AANANTH	9.62
2018	2	106118091	S PAVITHRA	9.49
2018	3	106118014	A PRANAV SHRIRAM	9.40
2018	3	106118036	HARSHIT AGRAWAL	9.40
2018	3	106118044	KHUSHALI ANIL PATEL	9.40
2018	3	106118083	R V S SATYANAND	9.40

**B.Tech. / ELECTRICAL AND ELECTRONICS ENGINEERING**

Batch	Rank	Roll Number	Name	CGPA
2016	1	107116001	AARYAN S SHAH	9.43
2016	2	107116019	CHARULATHA N	9.23
2016	3	107116008	AMRITHA S B	9.09
2017	1	107117106	VISHESH BIYANI	9.57
2017	2	107117012	ANJULA MARY ANTONIS	9.31
2017	2	107117069	PAWAR SATYAM JAGDISH	9.31
2017	3	107117095	SHUBHABROTO MUKHERJEE	9.27
2018	1	107118025	CHAKRADHAR SAU	9.50
2018	2	107118100	S P SRINIDHI	9.49
2018	3	107118084	SANDIPAN ROY	9.48

**B.Tech. / ELECTRONICS AND COMMUNICATION ENGINEERING**

Batch	Rank	Roll Number	Name	CGPA
2016	1	108116107	YASHVANTH.L	10
2016	2	108116093	SWATTHI VIJAY SANKER	9.88
2016	3	108116067	RAJIV RAMACHANDRAN	9.85
2017	1	108117093	SHARAN CHANDRA	9.73
2017	2	108117079	RAMAPRAGADA KRISHNA SAI TARUN	9.65
2017	3	108117064	M PRANAV	9.63
2018	1	108118084	SAI MITHERAN J	9.94
2018	2	108118061	L P PRATHIK REDDY	9.78
2018	3	108118017	ARVINATH S	9.76

**B.Tech. / INSTRUMENTATION AND CONTROL ENGINEERING**

Batch	Rank	Roll Number	Name	CGPA
2016	1	110116031	G VISHAAL	9.05
2016	2	110116066	RAGHAV BALAJI	9.00
2016	2	110116068	RAJU DEVANG BALRAJ	9.00
2016	3	110116074	SAKTHIVEL PALANI	8.97

2017	1	110117025	C SANJAY	10
2017	1	110117078	SHASHVAT JAYAKRISHNAN	10
2017	2	110117083	SIVASANGARAN V	9.57
2017	3	110117029	DHWANI SHAH	9.51
2018	1	110118043	MADHAVAN B S	9.76
2018	2	110118049	MIRIAM SANTHOSH KADAVAN	9.65
2018	3	110118066	R ARVIND	9.41
2018	3	110118104	V K VIEKASH	9.41
2018	3	110118097	VARRUN PILLAI S P	9.41

**B.Tech. / MECHANICAL ENGINEERING**

Batch	Rank	Roll Number	Name	CGPA
2016	1	111116089	SRIDHARSAN K S	9.71
2016	2	111116046	M NAARENDHARAN	9.51
2016	3	111116002	ADHITYA K	9.15
2017	1	111117064	PREMKUMAR S	9.41
2017	2	111117028	DARSHAN SONI	9.37
2017	3	111117013	ANMOL PANDA	9.33
2018	1	111118091	R SURYANARAYAN	9.94
2018	2	111118031	GIRISH A N	9.81
2018	3	111118017	BODDEDA NOOKA SATYA MUKESH PRANAY KUMAR	9.65

**B.Tech. / METALLURGICAL AND MATERIALS ENGINEERING**

Batch	Rank	Roll Number	Name	CGPA
2016	1	112116045	R DEVI JANANI	9.76
2016	2	112116051	SHUBHAM GUPTA	9.71
2016	3	112116049	SAMEER AMAN SALMAN	9.67
2017	1	112117034	PRAHNAOV A	9.62
2017	2	112117016	B.SUBISHA	9.55
2017	3	112117006	AKHILESH KUMARAN S	9.40
2018	1	112118004	ARCHITA V	9.87
2018	2	112118058	SURYARAO KIMAYA	9.85
2018	3	112118047	SATYAM	9.76

**B.Tech. / PRODUCTION ENGINEERING**

Batch	Rank	Roll Number	Name	CGPA
2016	1	114116075	SHWETHA S KUMAR	9.71
2016	2	114116039	K THANUSHREE	9.68
2016	2	114116061	REO PAUL JACKSON	9.68
2016	3	114116045	M NIVEDITA	9.62
2017	1	114117064	POLA VAMSI RAHUL	9.68
2017	2	114117022	BODDEPALLI MANASA	9.62
2017	2	114117085	TAMIRI SURYA PRAKASH	9.62
2017	3	114117083	SUNANTHA M	9.59
2018	1	114118046	K MUTHU NARAYANAN	9.85
2018	2	114118030	C.SIVASUBRAMANIAN	9.61
2018	3	114118025	BALAKRISHNA T S	9.59

**B.Tech. / I YEAR (2019)**

Batch	Rank	Roll Number	Name	CGPA
2019	2	107119056	J SOUNDARYA	9.85
2019	1	111119011	ANIRUDH S	9.87
2019	3	114119036	GREESHWAR R.S.	9.80

**INSTITUTE DAY PRIZE WINNERS (2020) / M.Tech. / M.Arch. / M.Sc. / MCA / MBA****M.Tech. / CHEMICAL ENGINEERING**

Batch	Rank	Roll Number	Name	CGPA
2018	1	202118005	GANDI SATISH	9.31
2018	2	202118001	AMRUTHA SATHYAN K	9.12
2018	3	202118002	ASHIK B S	9.08
2019	1	202119023	VADLANA DAVID RAJU	9.05
2019	2	202119010	GOLLAPALLI MANI VEERA SANTHOSHI	8.88
2019	2	202119011	JAGANATHAN J	8.88
2019	3	202119002	AMRUTHA C	8.76

**M.Tech. / PROCESS CONTROL AND INSTRUMENTATION**

Batch	Rank	Roll Number	Name	CGPA
2018	1	202218010	PRABHU P	9.55
2018	2	202218009	MUTHU KRISHNAN C	8.48
2018	3	202218014	SIDHARTH	8.47
2019	1	202219010	HONRAO SHUBHAM NANDKUMAR	9.45
2019	2	202219012	KESAVKUMAR A	8.98
2019	3	202219003	AZEETH KUMAR M	8.85

**M.Tech. / ENERGY ENGINEERING**

Batch	Rank	Roll Number	Name	CGPA
2018	1	202318012	NIJIN V P	9.86
2018	2	202318013	PRAFFUL AGRAWAL	9.68
2018	3	202318014	RAHUL R	9.27
2019	1	202319016	SANDEEP M	9.64
2019	2	202319001	ADHIL MUHAMMED A	9.19
2019	3	202319023	VASURAJAN B	9.07

**M.Tech. / TRANSPORTATION ENGINEERING AND MANAGEMENT**

Batch	Rank	Roll Number	Name	CGPA
2018	1	203118018	PRIYADHARSHNI B	9.67
2018	2	203118011	JYOTHIS V LAL	9.52
2018	3	203118016	PELLAKURI SARATH CHANDRA	9.27
2019	1	203119001	ARDRA V H	9.71
2019	2	203119022	SUSAN FRANCIS	9.64
2019	3	203119002	AROHI MALVIYA	9.24

**M.Tech. / STRUCTURAL ENGINEERING**

Batch	Rank	Roll Number	Name	CGPA
2018	1	203218027	SNEHA LIYA GEORGE	9.45
2018	2	203218023	RAMKUMAR S	9.44
2018	3	203218008	DIVYA ROY S	9.29
2019	1	203219009	CHINNU S NAIR	9.60
2019	2	203219011	KUMMARIKUNTLA YASHWANTH	9.31
2019	3	203219018	SATULURI TARAKA RAMA KALYAN	9.14

**M.Tech. / ENVIRONMENTAL ENGINEERING**

Batch	Rank	Roll Number	Name	CGPA
2018	1	203418023	SHRADHA NAIR	9.61
2018	2	203418012	LEKSHMI MOHAN B	9.35
2018	3	203418001	AFEENA GULAM	9.33
2019	1	203419002	ANJU ANTONY	9.31
2019	2	203419013	K S SREELAKSHMI	9.26
2019	3	203419023	REVATHY SURESH	9.12

**M.Tech. / CONSTRUCTION TECHNOLOGY AND MANAGEMENT**

Batch	Rank	Roll Number	Name	CGPA
2018	1	203518028	V V G SAI ADITYA	9.55
2018	2	203518021	RAMACHANDRAN A	9.36
2018	3	203518007	BHAVANA LEKSHMY M V	9.23
2019	1	203519012	GAMINI SRI VALLI	9.68
2019	2	203519004	ALOK KUMAR	9.05
2019	3	203519020	PRAGYA SAINI	8.95
2019	3	203519030	THIRUVASAGAM A	8.95

**M.Tech. / DATA ANALYTICS**

Batch	Rank	Roll Number	Name	CGPA
2018	1	205218015	RALLABANDI PHANI RAJ	9.72
2018	2	205218006	CHEEDELLA UPENDRA	9.50
2018	3	205218020	RONANKI SWAMY SRIHARSHA	9.39
2019	1	205219027	YAZHMOZHI V M	9.92
2019	2	205219003	ALLA VINEELA SAI	9.38
2019	3	205219012	DHARMESH SINGH	8.92

**M.Tech. / COMPUTER SCIENCE AND ENGINEERING**

Batch	Rank	Roll Number	Name	CGPA
2018	1	206118004	CHITHRA	9.83
2018	2	206118025	SUSHMITA KUMARI NISHAD	9.50
2018	3	206118016	NISHANT SWARUP	9.24
2019	1	206119017	SHREYA NARASIMHAN KL	9.60
2019	2	206119008	LEENA SINHA	9.07
2019	3	206119001	AMAN MAHANSARIA	8.76

**M.Tech. / POWER SYSTEMS**

Batch	Rank	Roll Number	Name	CGPA
2018	1	207118006	DEVARAJ S	9.44
2018	2	207118027	VINNAKOTA PAVANI	9.27
2018	3	207118007	DEVARALA ROMIKA	9.25
2019	1	207119004	BHARATHY KANNAN M	9.42
2019	2	207119011	MULIK PRAFULKUMAR SANJAY	9.32
2019	3	207119002	BALWANI MAYURKUMAR RAJKUMAR	8.90
2019	3	207119014	PATIL GANESH ANIL	8.90

**M.Tech. / POWER ELECTRONICS**

Batch	Rank	Roll Number	Name	CGPA
2018	1	207218015	NAMAN AGRAWAL	9.73
2018	2	207218001	ADAPA SAI SIVANI	9.34
2018	3	207218022	SINCHITA MAITY	9.33
2019	1	207219016	RAYUDU SUPRIYA	9.20
2019	2	207219009	GUDHIPELA VEERANALLAIAH	9.15
2019	3	207219010	KODAVATI SAI CHARAN	8.88

**M.Tech. / COMMUNICATION SYSTEMS**

Batch	Rank	Roll Number	Name	CGPA
2018	1	208118009	KADIMI VINAY KUMAR	9.61
2018	2	208118005	CHINTALA JYOTHIRMAI	9.59
2018	2	208118026	THOTA SASIREKHA	9.59
2018	3	208118004	CHEEMALA NAVEEN	9.33
2019	1	208119010	KALAVAGUNTA DILIP KUMAR	9.57
2019	2	208119013	MAMILLA VAASANTHA THUSHAARA	9.45
2019	3	208119017	PALLAPINTI TARAKESWARI	9.43

**M.Tech. / VLSI SYSTEM**

Batch	Rank	Roll Number	Name	CGPA
2018	1	208218018	NITHIN K S	9.79
2018	2	208218012	KARRE NARESH	9.44
2018	3	208218003	ANUMULA TEJASWI	9.26
2019	1	208219010	KANDUKURU GOUSULU	9.52
2019	2	208219007	GUMPINA RAMA KRISHNA CHAITANYA	9.45
2019	3	208219006	GANNAVARAPU VENKATESWARA RAO	9.31

**M.Tech. / INDUSTRIAL SAFETY ENGINEERING**

Batch	Rank	Roll Number	Name	CGPA
2018	1	211218008	JIDHIN. A	9.66
2018	2	211218005	C NIKITHA	9.05
2018	3	211218021	SANJU SUNDAR R	8.98
2018	3	211218022	SARATH M	8.98
2019	1	211219024	VIGNESH G	9.26
2019	2	211219001	AJIN C R	9.08
2019	3	211219017	PRABHALA KRISHNA BHARADWAJ	8.95

2019	3	211219018	PRAJWAL I NAIK	8.95
2019	3	211219022	SOORAJ SABU	8.95

**M.Tech. / THERMAL POWER ENGINEERING**

Batch	Rank	Roll Number	Name	CGPA
2018	1	211318015	MORE BHAVESH RAJA	9.23
2018	2	211318013	MANEESH PATEL	9.22
2018	2	211318016	NITIN SHARMA	9.22
2018	3	211318028	VISHVA DEEPAK	9.20
2019	1	211319005	ASWIN S KUMAR	9.42
2019	2	211319011	MOHAMMAD ARSHAD RAZA	9.22
2019	3	211319004	ARAVIND DINESH P	8.98

**M.Tech. / WELDING ENGINEERING**

Batch	Rank	Roll Number	Name	CGPA
2018	1	212118019	SALAPU SIREESHA SAI	9.31
2018	2	212118015	NITESH BORKAR	9.08
2018	3	212118008	BIBISH B ANTONY	8.95
2019	1	212119012	MURUGAN E	9.37
2019	2	212119001	ADARSH A K	9.15
2019	3	212119007	FAZAL IBRAHIM	8.98

**M.Tech. / MATERIAL SCIENCE AND ENGINEERING**

Batch	Rank	Roll Number	Name	CGPA
2018	1	212218007	KARUMURI RATNA PRIYANKA	9.22
2018	2	212218012	RAMJI R	9.09
2018	3	212218002	DEEPAK V PILLAI	9.00
2019	1	212219004	ASHWIN M	9.49
2019	2	212219007	GADHAVAJHALA SRI SAI SAMHITHA	9.22
2019	3	212219014	PATALE RESHMA RAOSAHEB	9.12
2019	3	212219019	VANKAYALA SATYAM	9.12

**M.Tech. / INDUSTRIAL METALLURGY**

Batch	Rank	Roll Number	Name	CGPA
2018	1	212318001	AMAL C ABRAHAM	9.26
2018	2	212318003	BHASKARAN K	9.00
2018	3	212318006	KRISHNAN S	8.91
2019	1	212319009	PEELA LASYA	9.39
2019	2	212319003	E C KARTHIKEYAN	9.22
2019	3	212319013	SRIGURU B	9.20

**M.Tech. / NON DESTRUCTIVE TESTING**

Batch	Rank	Roll Number	Name	CGPA
2018	1	213118024	SUSHEEL PATIL	9.55
2018	2	213118006	ASHOKKUMAR T	9.50
2018	3	213118015	MUHAMED MUSTHAFA PULIKKAL	9.30
2019	1	213119021	SUDHANSHU PANDEY	9.70

2019	2	213119017	SAMARJIT NATH MAZUMDER	9.22
2019	2	213119024	VISHNU V GUPTHAN	9.22
2019	3	213119004	ASHWIN. N.P	9.05

**M.Tech. / MANUFACTURING TECHNOLOGY**

Batch	Rank	Roll Number	Name	CGPA
2018	1	214118010	KARTHIKEYAN R	9.73
2018	2	214118019	RAGUNATHAPRABHU S	9.67
2018	3	214118012	MATHEW JOHN	9.48
2019	1	214119010	KUMARESH D	9.56
2019	2	214119015	NIRMAL SHARMA	9.24
2019	3	214119018	PUTSALA VENKATA RAMANA	8.93
2019	3	214119020	RITESH ANAJEKAR	8.93

**M.Tech. / INDUSTRIAL ENGINEERING AND MANAGEMENT**

Batch	Rank	Roll Number	Name	CGPA
2018	1	214218011	JAGDHANE SAHIL PRAMOD	9.62
2018	2	214218005	DEEPAK TYAGI	9.55
2018	3	214218018	PALAKOLLU VENKATA SAI ANURAG	9.48
2019	1	214219010	MOHAMMED SANJID	9.80
2019	2	214219019	SAURAF N	9.58
2019	3	214219017	SANDEEP P NAIR	9.27

**M.Arch. / ENERGY EFFICIENT AND SUSTAINABLE ARCHITECTURE**

Batch	Rank	Roll Number	Name	CGPA
2018	1	201118015	SANJANA R	9.58
2018	2	201118016	SINDHYA MEGNATH	9.18
2018	3	201118018	VIGNESH SAJEEV	9.15
2019	1	201119013	NUTHANA MANOHARAN	9.39
2019	2	201119006	JYOTI LUTHRA	9.36
2019	3	201119023	VEENA V DESHPANDE	9.06

**MBA / MANAGEMENT STUDIES**

Batch	Rank	Roll Number	Name	CGPA
2018	1	215118047	SHAARIKA JOANNA P	9.67
2018	2	215118059	VIJAYALAKSHMI N	9.06
2018	3	215118027	MIRIAM ANN PHILIP	9.00
2018	3	215118075	SUSHREE SUPRIYA PRIYA DARSINI	9.00
2019	1	215119096	VASANTHA G	9.60
2019	2	215119052	NAVYA KAUL	9.20
2019	3	215119042	KARTHICK M	9.16

**M.Sc. / CHEMISTRY**

Batch	Rank	Roll Number	Name	CGPA
2018	1	204118020	V VIDHYA	9.90
2018	2	204118004	ASWIN CHANDRAN	9.17
2018	3	204118014	PALI MEHTA	9.03

2019	1	204119016	PRIYA GARG	9.39
2019	2	204119017	RENNY LOUIS ANTO M	9.11
2019	3	204119007	GAYATHRIDEVI S	8.92

**M.Sc. / COMPUTER SCIENCE**

Batch	Rank	Roll Number	Name	CGPA
2018	1	216218015	PAVITTHIRAA P	9.76
2018	2	216218025	UTSA CHATTOPADHYAY	9.24
2018	3	216218001	AKSHAYA E	9.21
2019	1	205319014	TRIPTY DUBEY	9.05
2019	2	205319004	CHESHTA KESHARI	9.00
2019	3	205319005	CHETNA SHARMA	8.92

**M.Sc. / PHYSICS**

Batch	Rank	Roll Number	Name	CGPA
2018	1	213218013	M LAXMAN	9.57
2018	2	213218004	ASHUTOSH KUMAR SINGH	9.50
2018	3	213218016	RAVI KUMAR	9.39
2019	1	213219015	RISHABH KUMAR	9.16
2019	2	213219008	FADIYAH M	8.97
2019	3	213219012	MANISHA PATRO	8.92

**M.Sc. / MATHEMATICS**

Batch	Rank	Roll Number	Name	CGPA
2019	1	216119019	VIMAL KUMAR M	9.56
2019	2	216119015	SONU KUMARI	9.24
2019	3	216119016	SOURABH SINGH	9.03

**MCA / COMPUTER APPLICATIONS**

Batch	Rank	Roll Number	Name	CGPA
2017	1	205117002	SHAIKHA KHAN	9.86
2017	2	205117024	KAMNA BUNDELA	9.55
2017	3	205117019	JITENDER YADAV	9.52
2018	1	205118079	SWEEKRITI SINGH	9.37
2018	2	205118032	KUNDAN THAKARE	9.21
2018	3	205118062	SAHIL GOEL	9.18
2019	1	205119063	NITISH KUMAR RATHOUR	9.47
2019	2	205119019	ARIHANT BANTHIA	9.37
2019	3	205119106	TWINKLE AGARWAL	9.29

### ENDOWMENT AWARDS

Sl. No.	Name of the award	Roll No	Name
1.	Smt.G.S.Raja Lakshmi memorial award presented to First three Rank holder upto VII Semester in Chemical Engineering.	102117016	DEEPTI KANNAN
		102117062	SUYASH SACHIN DAMIR
		102117066	UPAMANYU PATNAIK
2.	Dr. M. Shanmugam award for the First Rank holder upto VII Semester in Civil Engineering.	103117031	C M K RAJSHRI
3.	Sri. Karchae Endowment award for the best project in the Department of Architecture	101116009	BODAKUNTI SUNIL KUMAR
4.	Sri. M. S. Balakumaran award for the best outgoing student of M.Tech. NDT	213119021	SUDHANSHU PANDEY
5.	Prof. S. Muthukaruppan Endowment award for the second Rank holder in EEE Branch up to VII Semester.	107117069	PAWAR SATYAM JAGDISH
6.	Sri. Janardhana Iyengar memorial Award for the best Academic Performance in just concluded academic year.	108116107	YASHVANTH.L
		110117078	SHASHVAT JAYAKRISHNAN
		110117025	C SANJAY
7.	Smt. Seethamma memorial award for the First Rank holder upto VII Semester in the ECE Branch.	108117064	M PRANAV
8.	Dr. Sargurudoss memorial award for the Best performance in Mathematics in I Year B.Tech.	106119089	NITIN GUPTA
9.	Sri. Avinash memorial award for the best outgoing male student of ICE branch	110117078	SHASHVAT JAYAKRISHNAN
10.	Sri. Avinash memorial award for the best outgoing female student of ICE branch	110117029	DHWANI SHAH
11.	Prof. Ibrahim / Dr.Sittaraman Award for the best outgoing student of DoMS	215119096	VASANTHA G
12.	Prof. Thirumalaiarasan Award for the Topper in HR and OB Subjects in MBA	215119042	KARTHICK M
13.	Srimathi Neela Balasubramanian Memorial Award for best out-going student in ECE branch	108117064	M PRANAV
14.	Karthik S Memorial Award for the First Rank Holder upto VII semester in B.Tech. Production Engineering.	114117064	POLA VAMSI RAHUL
15.	Smt. Vijayalakshmi Kannan Memorial Award For the First Rank Holder upto VII semester in B.Tech. ECE	108117064	M PRANAV
16.	Late S. Doraiswamy Memorial Award for the First Rank Holder upto III semester M.Tech. Industrial Safety Engineering.	211219001	AJIN C R
17.	Sri. Ramanujam and Smt. Sundari Ramanujam Memorial Award for the first rank holder in English in B.Tech.	111119005	ABHISHEK S SHARMA

18.	Mr. Subash Chandrabose Endowment Award for the Best Outgoing in B.Tech. MME	112117034	PRAHONAOV
19.	Dr.T. Balasubramaniam Endowment Award for the First Rank Holder in M.Sc. Physics in I and II Semester	213219015	RISHABH KUMAR
20.	Dr. A. L. Abdus Sattar, Memorial Award for the outstanding student in III year ECE	108118084	SAI MITHERAN J
21.	Mr. Oisik Adak Endowment Award for "Best Creative Designer" in the Department of Architecture	101116009	BODAKUNTI SUNIL KUMAR
22.	Joseph Martin Fernando trophy for excellence in the study and documentation of vernacular Architecture	101118006	DHANYASRI SAKTHIVEL RAJA
23.	S J Chainulu medal of Excellence (For the First Rank Holder in the First year)		
	1. Chemical Engineering	102119057	PRANAV SRIDHAR K
	2. Civil Engineering	103119004	ABHISHEK VIJAYAN
	3. Computer science and Engineering	106119041	G PAVITHRA
	4. Electrical and Electronics Engineering	107119056	J SOUNDARYA
	5. Electronics and Communication	108119010	ANIKET KAMAL BHATIA
	6. Instrumentation and Control Engineering	110119002	AATHITHYAN.K.K
	7. Mechanical Engineering	111119011	ANIRUDH S
	8. Metallurgical and Materials Engineering	112119033	HARSHINEE MURALI
9. Production Engineering	114119036	GREESHWAR R.S.	
24.	Prof. J. Raja award (highest CGPA in all Accounting and Finance subjects in First Year MBA)	215120066	NIVEDHA RACHEL SAJU
25.	Prof.K.S.Pandey memorial Outstanding Student Award (The student should be within the top 10% of the class or within top 10 ranks of the class based CGPA at the end of 7 <sup>th</sup> Semester and also be active in sports activities)	112117057	VENONSHYA
26.	Prof. K. S. Pandey memorial Academic Achievement Award for the academically best student based on CGPA at the end of five semesters of the B.Tech. (MME) programme	112118058	KIMAYA SURYARAO
27.	Best outgoing student of MME M/s.Chennai Metco Pvt. Ltd Chennai.	112117016	SUBISHA
28.	Anjali Surendran Endowment Award for the best out-going undergraduate student from Production Engineering Department	114117064	POLA VAMSI RAHUL
29.	Best NCC Cadet	110117069	RISHABH VERMA

30.	Dr.S.H. Ibrahim memorial award for the Best Outgoing student in B.Tech. Chemical Engineering	102117069	TEJA VENKATESA PERUMAL
31.	Dr.S.H. Ibrahim Memorial Award For Best Student in the Field of 'Mass Transfer' in Chemical Engineering for the year 2020-2021	102117016	DEEPTI KANNAN
32.	RECT'78 Alumni Medal For The Best Outgoing Girl Student	111117013	ANMOL PANDA

### ALUMNI AWARDS (B.Arch. / B.Tech.)

Sl.No.	Department	Roll No.	Name	CGPA
1.	Architecture	101116040	SWEATHA R	8.71
2.	Chemical Engineering	102117016	DEEPTI KANNAN	9.77
3.	Civil Engineering	103117031	C M K RAJSHRI	9.66
4.	Computer Science and Engineering	106117043	L HARI NARAYANAN	9.78
5.	Electrical and Electronics Engineering	107117106	VISHESH BIYANI	9.78
6.	Electronics and Communication Engineering	108117064	M PRANAV	9.74
7.	Instrumentation and Control Engineering	110117078	SHASHVAT JAYAKRISHNAN	9.94
8.	Mechanical Engineering	111117058	MANU AATITYA R P	9.40
9.	Metallurgical and Materials Engineering	112117034	PRAHNAOV A	9.58
10.	Production Engineering	114117064	POLA VAMSI RAHUL	9.66

### ALUMNI AWARDS (M.Arch. / M.Tech. / M.Sc. / MCA / MBA)

S.No.	Dept./Specialization	Roll No.	Name	CGPA
1.	<b>Architecture</b>			
	Energy Efficient and Sustainable Architecture	201119013	NUTHANA MANOHARAN	9.54
2.	<b>Chemical Engineering</b>			
	Chemical Engineering	202119023	VADLANA DAVID RAJU	9.04
	Process Control and Instrumentation	202219010	HONRAO SHUBHAM NANDKUMAR	9.35
3.	<b>Energy and Environment</b>			
	Energy Engineering	202319016	SANDEEP M	9.52
4.	<b>Civil Engineering</b>			
	Transportation Engineering and Management	203119022	SUSAN FRANCIS	9.72
	Structural Engineering	203219009	CHINNU S NAIR	9.69
	Environmental Engineering.	203419003	APARNA VS	9.26
	Construction Technology and Management	203519012	GAMINI SRI VALLI	9.75

5.	<b>Computer Science and Engineering</b>			
	Computer Science and Engineering	206119017	SHREYA NARASIMHAN KL	9.46
6.	<b>Electrical and Electronics Engineering</b>			
	Power Systems	207119004	BHARATHY KANNAN M	9.56
	Power Electronics	207219016	RAYUDU SUPRIYA	9.38
7.	<b>Electronics and Communication Engineering</b>			
	Communication Systems	208119010	KALAVAGUNTA DILIP KUMAR	9.67
	VLSI System	208219010	KANDUKURU GOUSULU	9.63
8.	<b>Mechanical Engineering</b>			
	Industrial Safety Engineering	211219001	AJIN C R	9.29
	Thermal Power Engineering	211319005	ASWIN S KUMAR	9.33
9.	<b>Metallurgy and Materials Engineering</b>			
	Welding Engineering	212119012	MURUGAN E	9.51
	Materials Science and Engineering	212219004	ASHWIN M	9.38
	Industrial Metallurgy	212319009	PEELA LASYA	9.30
10.	<b>Production Engineering</b>			
	Manufacturing Technology	214119010	KUMARESH D	9.63
	Industrial Engineering and Management	214219010	MOHAMMED SANJID	9.67
11.	<b>Physics</b>			
	Non Destructive Testing (M.Tech.)	213119021	SUDHANSHU PANDEY	9.54
	Physics (M.Sc.)	213219015	RISHABH KUMAR	9.11
12.	<b>Chemistry</b>			
	Chemistry (M.Sc.)	204119016	PRIYA GARG	9.54
13.	<b>Mathematics</b>			
	Mathematics (M.Sc.)	216119015	SONU KUMARI	9.25
14.	<b>Management Studies</b>			
	Master of Business Administration	215119096	VASANTHA G	9.45
15.	<b>Computer Applications</b>			
	Data Analytics (M.Tech.)	205219027	YAZHMOZHI V M	9.94
	Master of Computer Applications	205118079	KM SWEEKRITI SINGH	9.44
	Computer Science (M.Sc.)	205319014	TRIPTY DUBEY	9.12

**OTHER AWARDS (INSTITUTED BY RECAL)**

Sl.No.	Name of the award	Roll No.	Name
1.	Overall Outstanding Student of the Year	111117102	VENKA SUBRAMANIAN RM
2.	Anand Chidambaram Memorial Award	102117005	ANANTHANARAYANAN POTTI S
3.	Outstanding Sportsman	110117037	JAYENDHRA SHIVA
4	Outstanding Sportswoman	107117078	PURNIMA UNNIKRISHNAN

**ENDOWMENT AWARDS****Smt.G. S. Rajalakshmi Award:**

This award was instituted by Mr. G. S. Ranganathan, a student of Chemical Engineering between 1986 and 1990, in memory of his mother who passed away in the U.S. in a car accident. This award is given to the first three rank holders in the department of Chemical Engineering based on their performance up to VII semester.

**Dr. M. Shanmugam Endowment award for I rank holder in Civil Engineering:**

Dr. M. Shanmugam a former Professor and Head of the Civil Engineering Department of this college was a specialist in the area of Structures. He took voluntary retirement to concentrate on consultancy. This award goes to the topper in Civil Engineering. The endowment is currently worth Rs. 4,00,000/-. This award carries a gold medal and a Citation and is presented to a student for his/her outstanding performance from I to VII semesters.

**Architect Kharche Endowment Award:**

Architect Kharche Endowment award is given for the best project work carried out in Architecture branch. The endowment carries a Citation and a cash award.

**Shri. M. S. Balakumaran Endowment award for the 1<sup>st</sup> rank holder in M.Tech. Non Destructive Testing:**

Shri. M. S. Balkumaran, a former student of M.Tech. Non Destructive Testing has created an endowment to honour the 1<sup>st</sup> rank holders. This award carries a Citation and a cash prize and is presented to a postgraduate for his / her excellent performance throughout the M.Tech. NDT Programme.

**Prof. S. Muthukaruppan Endowment award for the 2<sup>nd</sup> rank holder in Electrical and Electronics Engineering:**

Prof. S. Muthukaruppan was a faculty in the Electrical and Electronics Engineering department for more than 3 decades and retired from service 10 years ago. He has instituted an award for the 2<sup>nd</sup> rank holder in Electrical and Electronics Engineering branch. This award carries a Citation and a cash award.

**Sri. Janardhana Iyengar Memorial Award:**

This award was instituted by Prof. M. J. S. Rangachar, a former Professor of Electronics and Communication Engineering, with an endowment of Rs. 10000/- in memory of his father. He retired from service in 1998. This award goes to the student with the best academic performance in the immediately concluded Academic year. This award carries a Citation and a cash purse.

**Seethamma Memorial award for the best Electronics and Communication Engineering student:**

This award was also created by Dr. M. J. S. Rangachar with an endowment of Rs. 10000/- in memory of his mother. This award is given to the topper in Electronics and Communication Engineering for his/her outstanding performance up to the VII semester. The award carries a Citation and cash prize.

**Dr. Sargurudoss Memorial award for the Best Mathematics Student in B.E. / B.Tech.**

This award has an interesting background. It is instituted in memory of the (Late) Dr. Sargurudoss, a Professor from Bishop Heber College, Tiruchirappalli. This award that comes with a citation and cash prize goes to the student for the best performance in Mathematics in the 1<sup>st</sup> year.

**Sri. Avinash memorial Award:**

The Avinash memorial award honours the best outgoing student of Instrumentation and Control Engineering branch. The award is given, separately, to the best outgoing Male student as well as the best outgoing female student of Instrumentation and Control Engineering branch. It carries a Citation and a cash award.

**Prof. Ibrahim – Dr. Sitaraman Award:**

Prof. Ibrahim, a former Head of Chemical Engineering Department, was the Professor-in-charge of the Management Programme in this Institute when this programme was introduced in 1978. He continued to head the department till he left the college in 1984.

Dr. Sitaraman was a visiting faculty to the Management department since the program was introduced in this Institute. He was instrumental in giving a proper direction to the programme listing out objectives, updating the syllabus till he settled abroad in late 80s. In appreciation of the efforts of both the worthies during the formative years of the department, an endowment has been created by its Alumni which is given to the best MBA student. The endowment carries a Citation and a Cash award.

**Prof. Thirumalaiarasan Award:**

This award is in memory of Prof. Thirumalaiarasan. He joined the Management studies department in mid 80s. He was an expert in the area of HR and came to NIT, Trichy with a very rich experience of working in Industry before turning to academics. In his memory, the

award is given to the topper in HR & OB Subjects in MBA. It carries a Citation and a Cash award.

**Smt. Neela Balasubramanian Memorial Award:**

This award is instituted by Prof. Sekar, an alumnus and, currently, a Professor in IIM Bangalore in memory of his mother. This award is given to an Electronics and Communication Engineering student based on his performance from III to VII semesters and also based on his/her co-curricular activities. This award, that recognizes all-round excellence, carries a Citation and a cash purse.

**Karthik S Memorial Award:**

This award has been instituted by the Parents of S. Karthik whose career was nipped in the bud due to an accident. He was a student of Production Engineering department. This award is given to the topper in Production Engineering Department. Incidentally, the father of the late Karthik is a senior professor in the department of Civil Engineering, Dr. G. Swaminathan. The endowment carries a Citation and a Cash award.

**Smt. Vijayalakshmi Kannan Award:**

This is an award Instituted by Mr. Kannan, a senior office Staff of this Institution in memory of his wife. This award is given to the topper in Electronics and Communication Engineering department based on the performance from I to VII semesters. This award is presented to a student for his/her outstanding performance up to the VII semester. It carries a Citation and a Cash award.

**Late S. Doraiswamy memorial Award:**

This award is instituted by Prof. T.S. Rajan in memory of Sri. Doraisamy DGM (safety) BHEL, Trichy. The Mechanical Engineering department, was the first in the country to introduce, in 1984, a Postgraduate programme to highlight the importance of safety. This award is given to the topper in M.Tech. Industrial safety Engineering programme

**Sri Ramanujam and Smt. Sundari Ramanujam memorial Award:**

Sri Ramanujam and Smt. Sundari Ramanujam memorial award recognizes the best performance in English in I year B. Tech. during the academic year. This award is instituted by R. Gururaj, Associate Professor, Department of Humanities and Social Sciences, in memory of his parents. It carries a Citation and a cash prize.

**Mr. Subash Chandrabose endowment award for the Best Outgoing Student in B.Tech. Metallurgical and Materials Engineering:**

This was instituted by Mrs. Saraswathi, a former senior superintendent at our Institute. This award is presented to the topper in Metallurgical and Materials Engineering branch.

**Prof. T. Balasubramanian Award:**

This award is instituted by Prof. T. Balasubramanian, Professor of Physics, and formerly Dean (academics) and Head of the Physics department. He joined this Institution in 1998 as

Professor. This award, on completing 40 years of service as Physics teacher, is presented for the best academic performance in I year M.Sc. Physics.

**Dr. A. L. Abdus Sattar Memorial Award:**

This award is instituted in memory of Prof. Abdus Sattar, one of the ECE Professors instrumental in developing the department during its formative years. Dr. Sattar genuinely cared for his students. As a professor, mentor, friend and guide, he was always available. Simple and unpretentious, Dr. Sattar led by example inspiring everyone who was fortunate enough to have worked with him to collaborate, and support one another undeterred by challenges. In his memory his students have instituted an award. The award is given to the outstanding student in the third year of Electronics and Communication Engineering, who best exemplifies the spirit of the late Dr. A.L. Abdus Sattar. It carries a citation and cash award.

**Mr. Oisik Adak Endowment Award for “Best Creative Designer” in the Department of Architecture:**

This award is instituted by Mr. Adak, a senior executive with BHEL, whose multi-talented son, Oisik, a promising painter and poet, passed away while he was a student at NIT, Trichy. This award recognizes creativity among the students of Architecture. It carries a cash prize and a certificate

**Joseph Martin Fernando trophy for excellence in the study and documentation of Vernacular Architecture:**

This unique endowment was instituted by Prof. Fernando, formerly Professor in the department of Architecture to recognize work in the area of Vernacular Architecture.

**S J Chainulu Medal of Excellence (For the First Rank Holder in First year) - 10 Awards:**

This award with an endowment of Rs. 4 lakhs has been instituted by the parents of S J Chainulu, who was earlier our student. This award is given to the toppers in the 1<sup>st</sup> year B.Tech. programme in each branch. The award carries a Medal and a certificate.

**Prof. J. Raja award (Highest CGPA in all Accounting and Finance subjects in First Year MBA)**

This was instituted in memory of Prof. Raja, formerly, HoD of the Management department. He joined the Institute in 1987 after completing his MBA programme in our Institute. After serving the Institute for close to 2 decades, he took up an assignment abroad. In order to honour his memory, the award was instituted to recognize the outstanding performance in Accounting and Finance subjects in the First Year MBA.

**Dr. K.S. Pandey memorial Awards:**

A sum of Rs. 1.17 lakh endowment was created in 2016 for this award by Dr.(Mrs.) S. K. Pandey, formerly Professor of Chemical Engineering, NIT-T and, later, Director of NIT, Srinagar, Sant Longowal Institute, Punjab and NIT Karaikal, Puducherry.

**❖ Dr. K.S Pandey memorial outstanding student award**

Dr. K. S. Pandey memorial goes to the outstanding student award for a final year Metallurgical and Materials Engineering student. The student should be within top 10% of the class or within 10 ranks based on CGPA at the end of the 7<sup>th</sup> semester. Moreover, the awardee should be active in sports. The student is also given weightage for co-curricular and extra-curricular activities. The award carries a citation and a cash prize of Rs. 5000/-

**❖ Dr. K.S. Pandey memorial academic achievement award**

This is based on CGPA at the end of five semesters in B.Tech. Metallurgical and Materials Engineering programme. The award carries a citation and a cash prize of Rs. 3000/-

**M/s. Chennai Metco (P) Ltd award for the Best outgoing student in MME and Metallographic contest winners.****Anjali Surendran Endowment Award**

Anjali Surendran was a student of B.Tech. (Production Engineering) of 2017 - 2021 batch and she passed away during third year of her study at NIT Tiruchirappalli. She was an extremely talented student not only in academics but also in extracurricular activities especially in Music and Dance. This award is instituted in her memory and awarded to the best outgoing student from B.Tech. Production Engineering branch.

**Dr.S.H. Ibrahim memorial award**

Dr.S.H. Ibrahim (01.07.1930 - 12.03.2008) was the founder Head of Chemical Engineering department at NIT-T (REC-T) Tiruchirappalli and played a key role in developing the department as a prestigious department in the country. Dr.Ibrahim joined NIT, Tiruchirappalli after an illustrious career at University of Madras and IISc Bangalore in 1968 and continued till 1984.

**Best outgoing student in B.Tech. (Chemical Engineering)**

In his memory the students of NIT-T (REC-T) created an endowment to honour the best out-going B.Tech. Chemical Engineering student with Dr.S.H. Ibrahim memorial award for the best outgoing student for showing excellence not only in academics but also in co-curricular and extra-curricular activities in the Institute.

**Best Student in the Field of 'Mass Transfer' in B.Tech. (Chemical Engineering)**

In his memory the students of NIT-T (REC-T) created an endowment to honour the best student in the field of Mass Transfer in B.Tech. (Chemical Engineering). This award is given to students who score highest mark put together in Mass Transfer I and Mass Transfer II.

**The following awards are Instituted by the REC Alumni (RECAL):****Overall Outstanding Student of the year:**

The outstanding student of the year is based on achievements in Academic / Sports / Cultural spheres besides Participation in social and voluntary organizations. This award carries a Citation and a Gold medal.

**Anand Chidambaram Memorial Award (Cash) / Tenth Rank Holder in Chemical Engineering:**

Anand Chidambaram was a student of chemical engineering department from 1985 – 1989. He was a sweet and charming personality, admired not only by his classmates but also by faculty. He was the 10<sup>th</sup> rank holder when he graduated from this Institute. In his memory his parents have instituted an award for the 10<sup>th</sup> rank holder of Chemical Engineering branch based on the performance from I to VII semesters. This award carries a Citation, Cash prize and a memento.

**Ramesh Sampath Memorial Award for outstanding cricketer of the year:**

Mr. Ramesh Sampath was an old student of this college, and graduated in Electronics and communication Engineering branch in 1972. He had represented Trichy district cricket association & Madras University while he was a student of this college. Subsequently he joined ISRO and played for Kerala state. He was a prolific scorer against famous spinners likes EAS Prasanna, B.S Chandrasekhar and S. Venkatragavan. It was no surprise when he was selected to represent south zone in Duleep trophy matches. He met with a tragic accident while he was holidaying at Goa and passed away in 1992. In his memory RECAL honours the best REC cricketer every year. This award carries a citation, memento and a cash award of Rs 500/-.

**Praveen Kumar memorial award for the best performance in I year “E” section 2003-04:**

This award was instituted by the 1<sup>st</sup> year “E” section students of 2000-01 academic year for the best performance in 1<sup>st</sup> year E section.

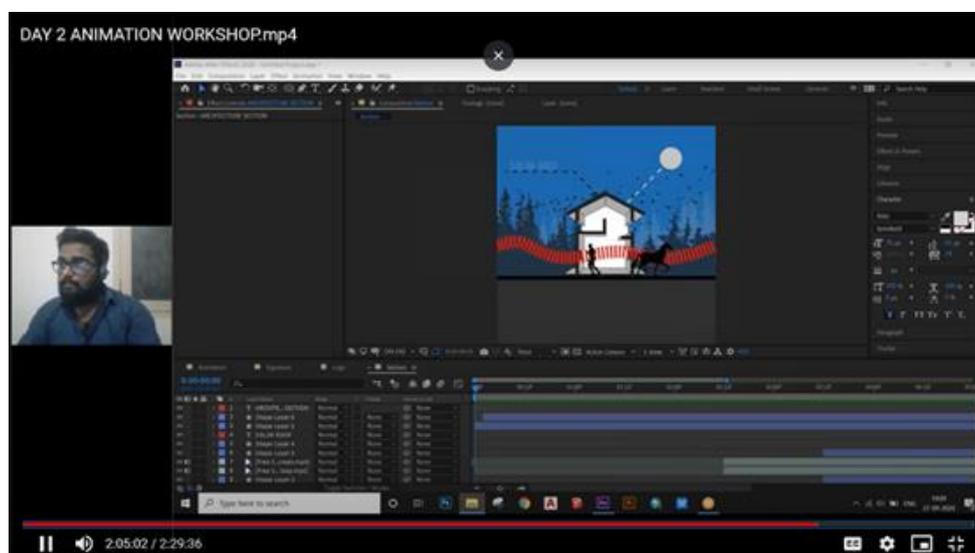
## PROFILE OF DEPARTMENTS

### Department: Architecture

The Department of Architecture was started in the year 1980, offering B.Arch. with an intake of 15 students. At present, the department offers one UG programme (B.Arch.), one PG programme (M.Arch. in Energy Efficient & Sustainable Architecture), & research programme (Ph.D.) in Architecture & allied fields. The department is well recognized as one of the top institutions offering Architecture education & ranked 8<sup>th</sup> position in the NIRF. The facilities of the department include a separate computer lab for UG & PG students with all required software, Building science laboratory, Model making workshop, Department library, Construction yard & Materials museum. The faculty members are carrying out architectural consultancy works, and involved in research & published research papers in national & international journals as well as presented papers in international conferences. Even during the pandemic situation, academicians, practicing architects, & industry experts as guest faculty & external reviewers were invited through virtual platforms to impart practical knowledge to the students. With the efforts, dedication, & tremendous hard work by the internship batch of B.Arch. students, all of them placed in very reputed firms all over India. Archcult 2021 has transformed into a fantabulous event that was conducted virtually due to the prevailing pandemic situation. The students along with the faculty advisor, Prof. Amalan Kaushik had planned a unique series of workshops. As it was an online event, this allowed International students to attend & be part of the workshop. Around 1000 participants attended the workshop & made it a great success & a memorable event.

### Summary (AY 2020 - 21)

S.No.	Details	Total Nos.	
1.	Articles (WoS / Scopus)	<b>6 / 7</b>	
2.	No. of books / books chapters published	Books	Book chapters
		<b>1</b>	<b>1</b>
3.	Sponsored Projects	Numbers	Amount (in Lakhs)
		<b>1</b>	<b>2</b>
4.	Consultancy work carried out	Numbers	Amount (in Lakhs)
		<b>1</b>	<b>300</b>
5.	Conference / Seminar / Symposia / Workshops Attended by the faculty	National	International
		-	<b>3</b>
6.	Guest Lectures	Delivered	Organized
		<b>1</b>	Nil
7.	Ph.D. graduation details	Regular	Part Time
		<b>1</b>	<b>3</b>



**ARCHCULT 2021 from 01.10.2021 to 03.10.2021**

## Department: Chemical Engineering

The Department of chemical engineering was established in the year 1967. Our department has grown up in all possible directions over the period of 50 years. In connection with our golden jubilee celebration, an annexure building has been newly constructed with two floors to accommodate the increased student strength and also to expand the research facilities. The faculty strength of our department is 19 and having wide range of specializations to strengthen the teaching learning and research activities of the department. Apart from teaching and research, most of our faculty are supporting the Institute Administration through various administrative roles. The department in-house a well-established Process Simulation lab with softwares ASPEN PLUS, CFD and Matlab. The Department is supported by research funding through various schemes including DST-FIST. The department has been involved in in-house sanitizer production. The department conducted an International conference funded by SICI through mixed mode. One of the patents filled by our faculty got granted this year. The department is honored by PMRF awarded to M.A.Sundaramahalingam of our department. Students have been actively participating in various online conferences through presentations even during this pandemic period. The faculty of chemical engineering department have been interacting with research community of national and international levels through various invited talks. The department is proud to share that Mr.Shivam Nagi and Mr.Ananthanarayanan Potti of final year B.Tech. (Chemical Engineering) secured AIR 8 and 220 respectively in GATE 2021.

### Summary (AY 2020 - 21)

S. No.	Details	Total Nos.		
1.	Articles (WoS / Scopus / Q1 journals)	70 / 63 / 50		
2.	No. of books / books chapters published	Books	Book chapters	
		-	5	
3.	Sponsored Projects	Numbers	Amount (in Lakhs)	
		1	9.10	
4.	No. of Patents	Filed	Published	Granted
		1	-	1
5.	Conference / Seminar / Symposia / Workshops organized by the Department	National	International	
		-	1	
6.	Conference / Seminar / Symposia / Workshops Attended by the faculty	National	International	
		16	39	
7.	Guest Lectures	Delivered	Organized	
		43	----	
8.	Ph.D. graduation details	Regular	Part Time	
		8	---	



**Inauguration of Golden Jubilee Building at Chemical Engineering Department on 20<sup>th</sup> October 2020**



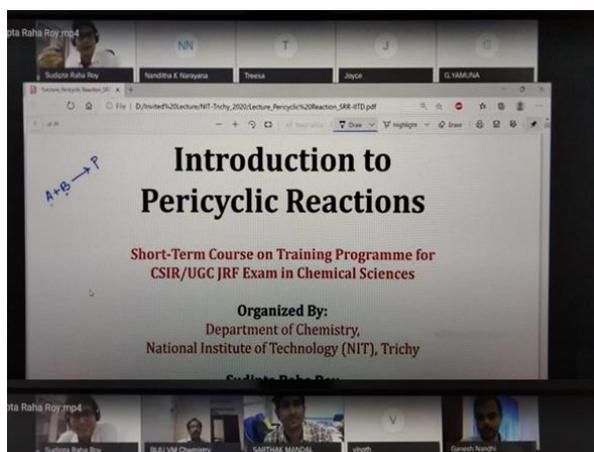
**International Conference on RTAMGESE Sponsored by Shastri Indo-Canadian Institute (SICI) during March 12<sup>th</sup> & 13<sup>th</sup>, 2021**

## Department: Chemistry

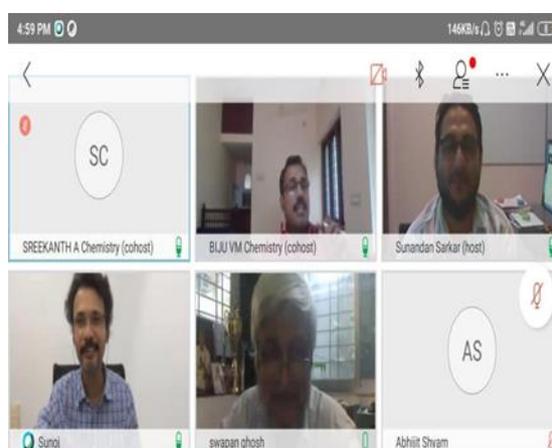
Department of Chemistry trains about 1000 B.Tech. students per Year in branch specific Engineering Chemistry course. About 58 M.Sc. students and 60 research scholars specializing in Chemistry benefit from the advanced and varied research facilities available in the Department. The Department has the state of art Research labs (9 Nos), M.Sc. Labs (4 Nos.) and B.Tech. Labs (2 Nos.). The faculty members and the research scholars regularly publish their research findings in high impact journals. In the current year, 77 research papers, 7 book chapters are published and 4 research scholars have successfully defended their thesis. A National level students' symposium titled, "HORIZON" is conducted annually by the Post graduate students of Chemistry Department showcasing the academic, extracurricular and event managerial talents of the students, providing valuable platform for the students from other Institution to interact with the subject and research experts. Lot of foreign professors visit department of chemistry often.

### Summary (AY 2020 - 21)

S. No.	Details	Total Nos.	
1.	Articles (WoS / Scopus / Q1 journals)	72 / 59 / 39	
2.	No. of books / books chapters published	Books	Book chapters
		-	7
3.	Conference / Seminar / <b>Symposia / Workshops</b> organized by the Department	National	International
		1	1
4.	Conference / Seminar / Symposia / Workshops Attended by the faculty	National	International
		3	2
5.	Guest Lectures	Delivered	Organized
		33	
6.	Major Equipment (more than Rs. 5.00 lakhs)	Number	Amount (in Lakhs)
		3	260 Lakhs
7.	Ph.D. graduation details	Regular	Part-Time
		4	-



**Short term course On training programme for CSIR/UGC JRF exam in chemical sciences**  
14<sup>th</sup> – 18<sup>th</sup> September 2020



**International E-workshop on Electronic structure theory and application to chemical system** 2<sup>nd</sup> – 6<sup>th</sup> November, 2020

### Department: Civil Engineering

Civil Engineering is one of the oldest departments started along with the inception of the then Regional Engineering College Tiruchirappalli during the Year 1964. The department offers 1 UG & 4 PG regular programmes. The department also offers L&T sponsored M.Tech. programme on Construction Management & Technology under Build India Scholarship programme of L & T Ltd, Chennai. At the moment more than 80 research scholars are carrying out Ph.D. & MS research studies. The department is backed by highly qualified & experienced faculty & our faculty members are very active in Teaching, research, industrial projects, & consultancy activities. The Wave Flume Facility in the department was inaugurated on 26<sup>th</sup> January 2021 celebrations which would facilitate world-leading research & innovation in the field of offshore & coastal engineering. The department has excelled with prestigious awards & fellowships received by the faculty & students. Many faculties received sponsored research projects for over 1.5 crores from various agencies such as TSAMRC, Coir Board, Govt. of India, NHAI, etc. The consultancy services are rendered by various government agencies such as CIAL, AAI, Indian Railways & state government organizations. Our Students are able to get internship in leading Indian Institutes such as IIT's, IISc, & other prominent industries, & also received prestigious fellowships.

#### Summary (AY 2020 - 21)

S. No.	Details	Total Nos.		
1.	Articles (WoS / Scopus / Q1 journals)	<b>68 / 86 / 30</b>		
2.	No. of books / books chapters published	Books	Book chapters	
		-	<b>12</b>	
3.	Sponsored Projects	Numbers	Amount (in Lakhs)	
		<b>1</b>	<b>72.31</b>	
4.	Consultancy work carried out	Numbers	Amount (in Lakhs)	
		<b>47</b>	<b>166.95</b>	
5.	No. of Patents	Filed	Published	Granted
		<b>1</b>	<b>1</b>	<b>-</b>
6.	Conference / Seminar / Symposia / Workshops organized by the Department	National	International	
		<b>8</b>	<b>2</b>	
7.	Conference / Seminar / Symposia / Workshops Attended by the faculty	National	International	
		<b>22</b>	<b>14</b>	
8.	Guest Lectures	Delivered	Organized	
		<b>81</b>	<b>2</b>	
9.	Fellowships (Faculty) / Internship in Abroad (Student)	Faculty	Students	
		-	<b>2</b>	
10.	Major Equipment (more than Rs.5.00 lakhs)	Number	Amount (in Lakhs)	
		<b>5</b>	<b>70.89</b>	
11.	Ph.D. graduation details	Regular	Part Time	
		<b>6</b>	<b>-</b>	



**Inauguration of Wave Flume Facility on 26<sup>th</sup> January 2021**



**Dr. Darshana O Receiving Young Women Engineer Award on 11<sup>th</sup> March 2021**

**Department: Computer Applications**

The Department of Computer Applications, since its inception has pioneered in Information Technology by offering courses such as Master of Computer Applications (MCA), Master of Science (M.Sc.) in Computer Science and M.Tech. in Data Analytics. With fourteen regular faculty members the department is actively involved in research through funded research projects like NRB-DRDO, DRDO, CDAC Trivandrum, Project Management Consultancy, etc. The faculties have conducted eight workshops. Organized three guest lectures and have published seven book chapters.

**Summary (AY 2020 - 21)**

Sl.No.	Details	Total Nos.	
1.	Articles (WoS / Scopus / Q1 journals)	49 / 72 / 12	
2.	No. of books / books chapters published	Books	Book chapters
		-	6
3.	Consultancy work carried out	Numbers	Amount (in Lakhs)
		-	35.87
4.	Conference / Seminar / Symposia / Workshops organized by the Department	National	International
		8	-
5.	Conference / Seminar / Symposia / Workshops Attended by the faculty	National	International
		-	18
6.	Guest Lectures	Delivered	Organized
		29	3
7.	Fellowships (Faculty) / Internship in Abroad (Student)	Faculty	Students
		-	-
8.	Major Equipment (more than Rs. 5.00 lakhs)	Number	Amount (in Lakhs)
		-	Lakhs



**Work Shop on “Effective Online Teaching Learning Strategies” during 26<sup>th</sup> to 31<sup>st</sup> May 2020**

**Department: Computer Science and Engineering**

The Department of Computer Science and Engineering, NIT, Tiruchirappalli was started in the year 1983. It offers one Under-Graduate programme (B.Tech.), one Post-Graduate programme (M.Tech. in Computer Science and Engineering) and research programmes (M.S. and Ph.D.) in the various fields of Computer Science and Engineering. Five faculty members joined the department in the academic year 2020 – 2021 at the Assistant Professor Grade II level and making the total faculty strength of the department as 21. The department has proven its excellence in research by publishing 90 papers in reputed journals and conferences that are indexed in prestigious databases like SCI, Scopus, IEEE, etc for the year 2020 - 2021. Besides publications, the department faculty has also filed patents. The faculty and students of the department have received awards and fellowships. The department association (CSEA) has conducted VORTEX, a technical symposium and has arranged workshops and guest lectures from reputed industries and organizations.

**Summary (AY 2020 - 21)**

S. No.	Details	Total Nos.		
1.	Articles (WoS / Scopus / Q1 journals)	55 / 83 / 17		
2.	No. of books / books chapters published	Books	Book chapters	
		3	6	
3.	Sponsored Projects	Numbers	Amount (in Lakhs)	
		2	28.27	
4.	No. of Patents	Filed	Published	Granted
		-	1	-
5.	Conference / Seminar / Symposia / Workshops organized by the Department	National	International	
		4	-	
6.	Guest Lectures	Delivered	Organized	
		10	-	
		-	-	
7.	Ph. D graduation details	Regular	Part Time	
		4	3	



**Technical session by Prof. K.Chandrasekaran during the Online Faculty Development Programme on Smart Grid Features and Blockchain Technology for Smart Grid on 9<sup>th</sup> November 19, 2020 (WebEx Meetings)**



**Presidential address by Prof.N. Kumaresan, IEEE SB Advisor & Dean (Student Welfare), at Inaugural Ceremony of IEEE Computer Society Chapter on 29<sup>th</sup> June 2020**

**Department: Electrical and Electronics Engineering**

The Department of Electrical and Electronics Engineering, NIT, Tiruchirappalli was started in the year 1964. It offers one Under-Graduate programme (B.Tech.), two Post-Graduate programmes (M.Tech. in Power Systems and Power Electronics) and also research programmes (M.S. and Ph.D.) in the various fields of Electrical and Electronics Engineering. The department has proven its excellence in research by publishing papers in the highly reputed journals and transactions and also filing patents in the new findings. The reputed POSOCO award is received by our students every year right from its inception and also the Prestigious Prime Minister’s Research Fellowship (PMRF) was received by one student this year. The sponsored projects are obtained for over 1crore and several project proposals are in pipeline for approval.

**Summary (AY 2020 - 21)**

S. No.	Details	Total Nos.	
1.	Articles (WoS / Scopus / Q1 journals)	41 / 68 / 25	
2.	No. of books / books chapters published	Books	Book chapters
		-	5
3.	Sponsored Projects	Numbers	Amount (in Lakhs)
		3	157.5
4.	Conference / Seminar / Symposia / Workshops organized by the Department	National	International
		12	-
5.	Conference / Seminar / Symposia / Workshops Attended by the faculty	National	International
		-	9
6.	Guest Lectures	Delivered	Organized
		23	
7.	Ph.D. graduation details	Regular	Part Time
		2	1



**EEE Association Inauguration 20-21 by Mr.Saji S, Senior Vice President, HVDC Manager India at Hitachi-ABB Power grids on 30<sup>th</sup> December 2021**



**Currents' 21 with Chief guest Dr.Nambi Seshadri, Professor of Electrical and Computer Engg., University of California, San Diego on 26<sup>th</sup> February 2021**

**Department: Electronics and Communication Engineering**

The ECE Department which is well established, continued its elegance and mastery in Academic, Research and all other co-curricular activities in this year also. The first International ONLINE workshop (Conference) at National Institute of Technology Tiruchirappalli was organized by Department of Electronics and Communication Engineering, National Institute of Technology Tiruchirappalli. The Scheme for Promotion of Academic and Research Collaboration (SPARC) Sponsored Two Weeks Workshop on “Recent Trends on Metamaterial Antennas for Wireless Applications and Deep Learning Techniques” was also conducted. One Indian Patent was Published and One US patent filed in the current academic year. The sponsored projects to the tune of Rs.151.11068 Lakhs has been sanctioned.

**Summary (AY 2020 - 21)**

S. No.	Details	Total Nos.	
1.	Articles (WoS / Scopus / Q1 journals)	<b>87 / 123 / 17</b>	
2.	No. of books / books chapters published	Books	Book chapters
		-	<b>12</b>
3.	Sponsored Projects	Numbers	Amount (in Lakhs)
		<b>3</b>	<b>48.12</b>
4.	Consultancy work carried out	Numbers	Amount (in Lakhs)
		-	<b>1.35</b>
5.	Conference / Seminar / Symposia / Workshops organized by the Department	National	International
		-	<b>2</b>
6.	Conference / Seminar / Symposia / Workshops Attended by the faculty	National	International
		<b>5</b>	<b>33</b>
7.	Guest Lectures	Delivered	Organized
		<b>35</b>	-
8.	Fellowships (Faculty) / Internship in Abroad (Student)	Faculty	Students
		-	<b>1</b>
9.	Major Equipment (more than Rs.5.00 lakhs)	Number	Amount (in Lakhs)
		<b>5</b>	<b>35.71315</b>
10.	Ph.D. graduation details	Regular	Part Time
		<b>11</b>	<b>1</b>

SCREEN SHOTS TAKEN DURING THE VIRTUAL EVENT MDCWC 2020 CONDUCTED DURING 22 to 24 OCTOBER 2020

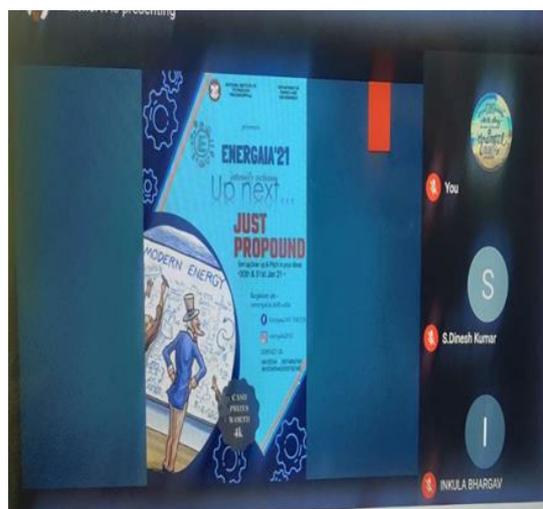
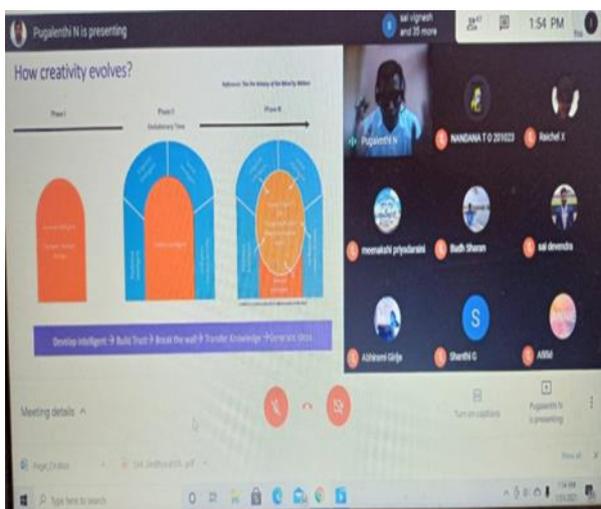


**Department: Energy and Environment**

Department of Energy and Environment (DEE), formerly, Centre for Energy and Environmental Science and Technology (CEESAT) was established at Regional Engineering College (present-day NITT) in 1995, under the auspices of UK – India RECs Project: Energy Theme. DEE is housed in an energy efficient building with least carbon foot print for both its building and operation. DEE harbours an NABL accredited calibration lab and testing laboratories equipped with sophisticated instruments accredited with ISO: IEC 17025:2017 (CC-2553) for the period of two years from 04.06.2020. Our potential customers for calibration services offered by DEE include BHEL, HAPP, OFT, IOCL, TVS, Precise sensor, Pure Tech India Ltd., Joseph eye hospital etc. DEE offers water testing services for Trichy Municipal Corporation and others. The department is well equipped with energy auditing instruments and expertise for carrying out energy audit. The current research areas pursued by the department includes organic spirulina cultivation, biodiesel from micro algae, solar desalination, hybrid treatment of water and waste water, energy storage materials, thermo-chemical conversion of biomass, 3D printing in energy applications and solar passive cooling techniques using advanced software’s such as TRNSYS, ANSYS, SOLIDWORKS, Matlab, F-Chart Solar Systems Analysis and PV F-Chart Photovoltaic Systems Analysis. Our recent project activities include, (1) A consultancy project to FL Smidth Germany to estimate biomass potential for cement industry worth Rs. 2.00 lakhs and (2) DST project under the scheme of Science for Equity Empowerment and Development Division worth about Rs.108 Lakhs to implement biomass driven trigeneration system to improve the livelihood of ST people at Yelagiri Hills, Tamilnadu.

**Summary (AY 2020 - 21)**

S. No.	Details	Total Nos.	
1.	Articles (WoS / Scopus / Q1 journals)	<b>13 / 15 / 8</b>	
2.	Consultancy work carried out	Numbers	Amount (in Lakhs)
		2	3.3
3.	Conference / Seminar / Symposia / Workshops organized by the Department	National	International
		<b>3</b>	-
4.	Guest Lectures	Delivered	Organized
		<b>6</b>	<b>3</b>



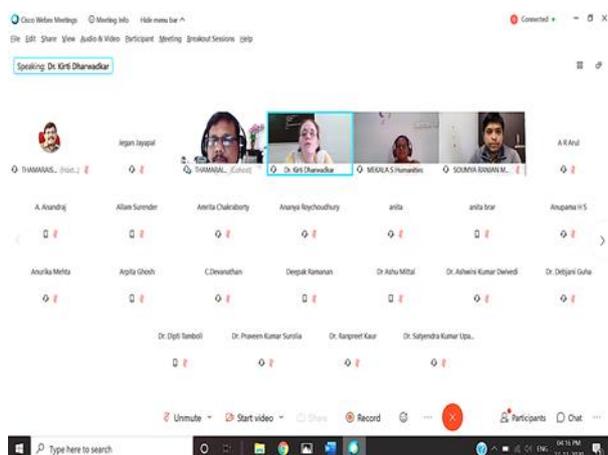
**Energia'21 during 30<sup>th</sup> to 31<sup>st</sup> January 2021**

**Department: Humanities and Social Sciences**

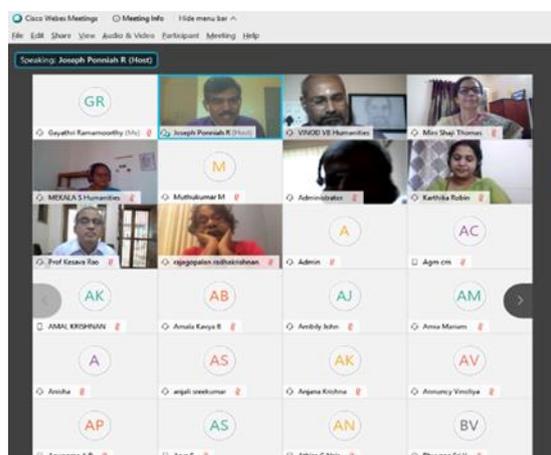
The Department of Humanities and Social Sciences (formerly, the Department of Humanities) has been in existence since 2004. To meet the existing demands of industry, business, public and private organizations, academic and human services, the Department has constantly striven for a practical curriculum with a high degree of professional relevance, enabling students to face real time challenges. Accordingly, the Department has been offering a wide range of core and elective courses to undergraduates and graduates. The Department has been offering a full-fledged M.A. and Ph.D. program and has produced quality research work in newer areas of Humanities and Social Sciences. Recognizing the growing demand for humanities-based courses, the Department also offers Minor Degree Courses in Economics and in Language/Literature

**Summary (AY 2020 - 21)**

S. No.	Details	Total Nos.	
1.	Articles (WoS / Scopus / Q1 journals)	17 / 25 / 8	
2.	No. of books / books chapters published	Books	Book chapters
		4	2
3.	Conference / Seminar / Symposia / Workshops organized by the Department	National	International
		2	-
4.	Conference / Seminar / Symposia / Workshops Attended by the faculty	National	International
		2	5
5.	Guest Lectures	Delivered	Organized
		19	-
6.	Fellowships (Faculty) / Internship in Abroad (Student)	Faculty	Students
		1	-
7.	Major Equipment (more than Rs.5.00 lakhs)	Number	Amount (in Lakhs)
		-	-
8.	Ph.D. graduation details	Regular	Part Time
		5	1



**Five-day online Faculty Development programme on “Academic Leadership and Team Building for Educational Excellence” sponsored by ATAL (23.11.2020 – 27.11.2020)**



**Inauguration of new PG programme M.A. (English Language & Literature) 2020 -21 on 20.09.2021**

## Department: Instrumentation and Control Engineering

Established in the year 1993 to cater the needs of control and instrumentation engineers in industry, R&D organization and for other service sectors in the country. Apart from B. Tech program in Instrumentation & Control, the department offers M. Tech program in Industrial Automation and M.Tech. in Process Control and Instrumentation (jointly with Chemical engineering department), as well as Doctoral & MS by research programme. The department activities are focussed into three major areas namely, Instrumentation & Sensor Technology, Control & Industrial Automation and Biomedical Engineering. The department is equipped with nine state-of-the-art labs and fifteen faculties, with the facilities available in the department and Centres of Excellence of the institute, students have an opportunity to pursue their research in AI, Automation, Networked Control System, Predictive Analytics, Intelligent Control, Sensor Development, Advance Control Strategies, Biomedical Instrumentation and Signal Processing. Students have exposed to both academia and industry through courses, industrial lecture, internship and course project at outside organisations

### Summary (AY 2020 - 21)

S. No.	Details	Total Nos.		
1.	Articles (WoS / Scopus / Q1 journals)	<b>26 / 48 / 17</b>		
2.	No. of books / books chapters published	Books	Book chapters	
		-	<b>03</b>	
3.	Sponsored Projects	Numbers	Amount (in Lakhs)	
		<b>1</b>	<b>14.54</b>	
4.	No. of Patents	Filed	Published	Granted
		<b>01</b>	-	-
5.	Conference / Seminar / Symposia / Workshops organized by the Department	National	International	
		10	-	
6.	Conference / Seminar / Symposia / Workshops Attended by the faculty	National	International	
		-	Conference - <b>17</b>	
7.	Guest Lectures	Delivered	Organized	
		<b>08</b>	<b>04</b>	
8.	Fellowships (Faculty) / Internship in Abroad (Student)	Faculty	Students	
		-	<b>05</b>	
9.	Major Equipment (more than Rs.5.00 lakhs)	Number	Amount (in Lakhs)	
		<b>05</b>	<b>32.62</b>	
10.	Ph.D. graduation details	Regular	Part Time	
		<b>07</b>	<b>02</b>	

## Department: Management Studies

The Department of Management Studies (DoMS), NIT Trichy has been nurturing students to manage with indelible expertise and skills for nearly four decades. Since its inception from 1978, the mission of DoMS is focused towards enriching the society through education, research and consultancy. The department has a strong industry connect and the vast source of alumni network which is the biggest asset of DoMS. The department also capitalizes resources of other engineering departments of NITT in terms of resource pooling and sharing for various academic and research activities. Our pedagogy emphasizes on application of management concepts and techniques in contemporary business world through extensive industrial interactions. We constantly strive to deliver the MBA programme with a stern focus on bridging the gap between academics and industry expectation. DoMS, NIT Trichy has been ranked 35<sup>th</sup> position under management category in NIRF rankings 2020 by Government of India.

### Summary (AY 2020 - 21)

S. No.	Details	Total Nos.	
1.	Articles (WoS / Scopus / Q1 journals)	21 / 18 / 8	
2.	No. of books / books chapters published	Books	Book chapters
		-	1
3.	Conference / Seminar / Symposia / Workshops organized by the Department	National	International
		3	-
4.	Conference / Seminar / Symposia / Workshops Attended by the faculty	National	International
		2	-
5.	Guest Lectures	Delivered	Organized
		13	26
6.	Ph.D. graduation details	Regular	Part Time
		5	3



**Inauguration of NISADYA'2020 – Annual Business Fest on 19<sup>th</sup> December 2021**



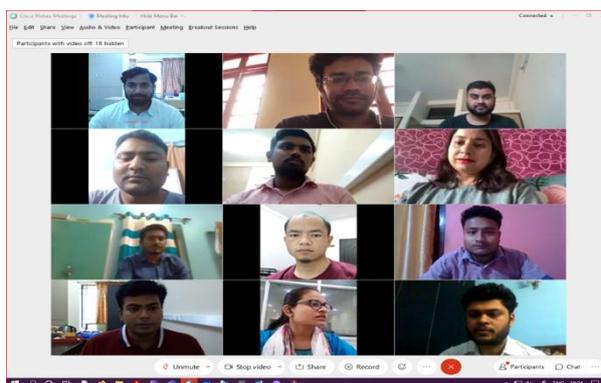
**National Sustainable Business Conference on 10<sup>th</sup> March 2021**

**Department: Mathematics**

The Department of Mathematics is one of the pioneering departments of the institution that offers assistance to many Information Technology & Engineering courses of the Institution. It is committed to the cost of quality education in Mathematics that forms the basis for all the other fields and IT, a field growing in leaps & bounds. The department provides a good theoretical foundation through high quality teaching complemented by extensive practical training. The department is dedicated to the mission of providing honest, sincere principled & highly skilled professionals trained to adapt to the dynamic requirement of the IT industry. This department comprising 17 faculty members, all with doctorate degrees, actively involved in research and in carrying out projects besides teaching. The persistence of the dedicated faculty in preserving the standards is manifest in the successful placement & in the production of Ph.D.s. To keep in touch with trends in growing technology, the faculty members participate regularly in refresher courses & symposium by various universities & research institutions. This department has been sanctioned Rs.50L under DST-FIST Level 1 Programme. Presently, there are 31 research scholars pursuing research work in various fields. The Department of Mathematics is offering **M. Sc. (Mathematics)** from 2019 in which students are admitted through Joint Admission Test (JAM). There are 19 students in the academic year 2019-2021 & 23 students in the academic year of 2020-22.

**Summary (AY 2020 - 21)**

S. No.	Details	Total Nos.	
1.	Articles (WoS / Scopus / Q1 journals)	32 / 30 / 4	
2.	Conference / Seminar / Symposia / Workshops organized by the Department	National	International
		2(workshop)	-
3.	Conference / Seminar / Symposia / Workshops Attended by the faculty	National	International
		-	5
4.	Guest Lectures	Delivered	Organized
		27	-



**National Level Online Workshop on Functional Analysis & Numerical Analysis, 5<sup>th</sup> – 9<sup>th</sup> April 2021**



**AICTE Training and Learning (ATAL) FDP on advances in Fuzzy Logic and Neural Network in Artificial Intelligence, 28<sup>th</sup> December 2020 to 1<sup>st</sup> January 2021**

**Department: Mechanical Engineering**

The Department of Mechanical Engineering is one among the first three departments established in 1964. With a team of 27 faculty members which includes 6 newly joined highly qualified young faculties, the department consistently strives to be a globally renowned Department in Mechanical Engineering where the best of teaching, learning and research synergize to fulfil the requirements of industry and society. As a feather in its cap, the department has been ranked within 500 consecutively for the past four years in the QS world ranking which makes the department unique among all NITs in the country. The Department offers an undergraduate level programme in Mechanical Engineering, postgraduate level programmes in Thermal Power Engineering and Industrial Safety Engineering and research programme in M.S and Ph.D. The department keeps itself up to date with the state of art laboratories in order to nurture collaborative and cutting edge research activities.

**Summary (AY 2020 - 21)**

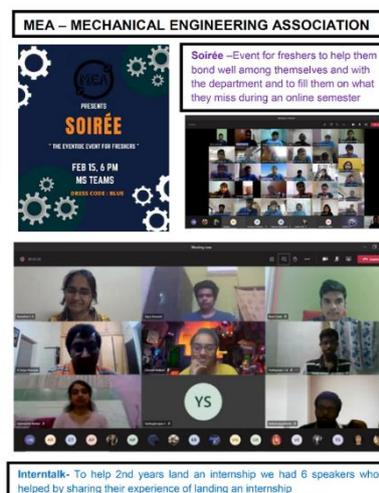
S. No.	Details	Total Nos.		
1.	Articles (WoS / Scopus / Q1 journals)	69 / 102 / 31		
2.	No. of books / books chapters published	Books	Book chapters	
		4	16	
3.	Consultancy work carried out	Numbers	Amount (in Lakhs)	
		3	1.8	
4.	No. of Patents	Filed	Published	Granted
		4	1	1
5.	Conference / Seminar / Symposia / Workshops organized by the Department	National	International	
		NIL	1	
6.	Conference / Seminar / Symposia / Workshops Attended by the faculty	National	International	
		NIL	5	
7.	Guest Lectures	Delivered	Organized	
		31	11	
8.	Fellowships (Faculty) / Internship in Abroad (Student)	Faculty	Students	
		NIL	4	
9.	Major Equipment (more than Rs.5.00 lakhs)	Number	Amount (in Lakhs)	
		4	42.14	
10.	Ph.D. graduation details	Regular	Part Time	
		15	7	



**SPARC Sponsored Online Workshop on “Environmental and Energy Impacts of Biomass Thermochemical Process”**  
25<sup>th</sup> – 29<sup>th</sup> January 2021



**Mechanical Engineering Association (MEA) – 2021 Events**



## Department: Metallurgical and Materials Engineering

The department of MME have contributed to the institute significantly at various levels, both nationally and globally in the year 2019-20. A total of 109 Scopus journals, 71 Web of Science indexed journals and 16 Q1 Journal papers were published by the faculty members and their research scholars during the year 2019 -20. The Department faculty members have obtained 5 sponsored projects worth 243 lakhs from government agencies such as SERB, DST (INT-RUSSIA, ISRO – RESPOND and SERB – TARE). Consultancy works worth 33.4 lakhs was done. A revenue 19.56 lakhs was generated through short term courses. Dr. S. Muthukumaran had published 4 patents. In addition to this faculties and students have participated in various conferences both at national and international level.

### Summary (AY 2020 - 21)

S. No.	Details	Total Nos.		
1.	Articles (WoS / Scopus / Q1 journals)	<b>67 / 69 / 28</b>		
2.	No. of books / books chapters published	Books	Book chapters	
		-	02	
3.	Sponsored Projects	Numbers	Amount (in Lakhs)	
		03	141.93	
4.	Consultancy work carried out	Numbers	Amount (in Lakhs)	
		01	0.09	
5.	No. of Patents	Filed	Published	Granted
		00	01	-
6.	Conference / Seminar / Symposia / Workshops organized by the Department	National	International	
		02	-	
7.	Conference / Seminar / Symposia / Workshops Attended by the faculty	National	International	
		03/00/01/02	-	
8.	Guest Lectures	Delivered	Organized	
		07	02	
9.	Major Equipment (more than Rs.5.00 lakhs)	Number	Amount (in Lakhs)	
		04	60	
10.	Ph.D. graduation details	Regular	Part Time	
		11	2	



**Guest Lecture on “Basics of Metallography” by Dr. George Vander Voort, Consultant, Buhler, on 29<sup>th</sup> December 2021**



**Dr.K.G.Prashanth, Head, Additive Manufacturing Laboratory, Tallinn University, Estonia given lectures in SPARC sponsored National Workshop on Additive Manufacturing - 02.11.2020 to 07.11.2020**

**Department: Physics**

The Department of Physics has seventeen faculty members and more than eighty Ph.D. students. We offer **M. Sc. (Physics)**, **M. Tech. (Non-Destructive Testing)** and **Ph. D (Physics)** courses. In addition, the department offers Physics for all B.Tech. programmes. The Department has meritorious R & D activities, actively carried out by seventeen research groups, with research funding from agencies like DRDO, DST, DBT and CSIR. The Department is sponsored under “Fund for Improvement of S & T Infrastructure in Higher Educational Institutions (FIST) of Department of Science & Technology (DST), Government of India. The Department has active **student chapters of OSA** (Optical Society of America) and **SPIE** (Society of Photo-Optical Instrumentation Engineers), which motivate and nurture the fundamental understanding on physics amongst the school children of remote neighborhood, by demonstrating eye-catching experiments.

**Summary (AY 2020 - 21)**

S. No.	Details	Total Nos.		
1.	Articles (WoS / Scopus / Q1 journals)	<b>74 / 87 / 31</b>		
2.	No. of books / books chapters published	Books	Book chapters	
		-	<b>1</b>	
3.	No. of Patents	Filed	Published	Granted
		-	1	-
4.	Conference / Seminar / Symposia / Workshops organized by the Department	National	International	
		<b>2</b>	<b>2</b>	
5.	Conference / Seminar / Symposia / Workshops Attended by the faculty	National	International	
		<b>1</b>	<b>85</b>	
6.	Guest Lectures	Delivered	Organized	
		<b>16</b>	-	
7.	Fellowships (Faculty) / Internship in Abroad (Student)	Faculty	Students	
		-	<b>1</b>	
8.	Ph.D. graduation details	Regular	Part Time	
		<b>14</b>	<b>3</b>	



**International Workshop on Advanced Materials and Applications (IWAMA'21) by NITT-OSA and NITT-SPIE during 1<sup>st</sup> – 2<sup>nd</sup> March 2021**



**International Conference on Novel engineering materials for Biomedical, Energy, Environmental Sensing, and other application (ICON BEES 2021), 11<sup>th</sup> - 13<sup>th</sup> March 2021**

## Department: Production Engineering

Production Engineering is a professional practice of manufacturing technology with management science. The goal is to accomplish the manufacturing processes effectively and efficiently. The curriculum of Production engineering encompasses the contents with engineering materials, casting technology, machining technology, physical & mechanical joining processes, tool engineering, metrology, manufacturing systems, automation & Rapid manufacturing. In a typical industry, once the design is realized, production engineering concepts regarding work-study, ergonomics, operation research, tooling, manufacturing management, materials management, production planning, transportation etc., play important roles in efficient production processes. These deal with integrated design & efficient planning of the entire manufacturing system, which is becoming increasingly challenging with the emergence of sophisticated production methods & control systems. The Department offers B.Tech., M.Tech. in Manufacturing Technology and Industrial Engineering & Management, M.S. & Ph.D. programs. State-of-the-art laboratories are available in the areas of Machining, Forming, Welding, Casting, Robotics, CIM, CNC, Mechatronics, Modeling, Simulation, Ergonomics, Tribology, Composite materials & Operations Management. More than 138 Ph.D. degrees were awarded from the department & it offers engineering consultancy in of design, manufacturing & resource management.

### Summary (AY 2020 - 21)

S. No.	Details	Total Nos.	
		78 / 113 / 24	
1	Articles (WoS / Scopus / Q1 journals)		
2	No. of books / books chapters published	Books	Book chapters
		-	3
4	Consultancy work carried out	Numbers	Amount (in Lakhs)
		1	6.02
5	No. of Patents	Filed	Published
		2	-
6	Conference / Seminar / Symposia / Workshops organized by the Department	National	International
		4	-
7	Conference / Seminar / Symposia / Workshops Attended by the faculty	National	International
		-	1
8	Guest Lectures	Delivered	Organized
		14	-
9	Fellowships (Faculty) / Internship in Abroad (Student)	Faculty	Students
		-	1
10	Major Equipment (more than Rs.5.00 lakhs)	Number	Amount (in Lakhs)
		1	7.48
11	Ph.D. graduation details	Regular	Part Time
		2	2

The screenshot shows a Zoom meeting interface with a slide titled "Takt time and Cycle time". The slide content is as follows:

**Takt time and Cycle time**

Takt time is the rate at which a product is to be produced to meet customer demand.

A dealer desires to take delivery of eight refrigerators after a shift of eight hours duration from a company. The takt time of this refrigerator is  $8 \text{ hours} \div 8 \text{ refrigerators} = 1 \text{ hour}$ .

Cycle Time is the time consumed in the company to produce one unit of the product.

### Short Term Course on Lean Manufacturing and Industry 4.0 conducted during 4<sup>th</sup> – 8<sup>th</sup> January 2021

## Computer Support Group

The OCTAGON - Computer Center is the sterling hallmark of this campus was opened with the theme of "Dare to Dream". This center serves the campus-wide LAN in close association with the user departments. This LAN caters to about 7500 users across the campus (using Wired connection and through Wireless). It has a 10 Gbps fiber optic backbone interconnecting the departments/buildings. It also acts as a resource centre to supplement classroom instructions with laboratory sessions.

The OCTAGON & TwinNet (Annex1) and Third i (Annex2) buildings accommodates the central computing facilities, it has a server room with 40 high-end servers and there are 9 laboratories (5 labs in Octagon building, 2 labs in the TwinNet (Annex1) and 2 labs in the Third i (Annex2) building) with totally 600+ high-end computers. The centre is maintained by the department of Computer Support Group (CSG).

### **Summary (AY 2020-21):**

- Supported online classes and Video Conferences through MS Teams and Cisco WebEx software during Covid-19 Lockdown period.
- Supported for uploading the study material documents received from Institute Faculty. A dedicated portal (<https://studymaterial.nitt.edu/login.php>) has been developed for uploading the same.
- Developed a portal for first online semester examinations due to Covid-19 Lockdown period. The first online semester examinations were conducted successfully with the help of CSG.
- An online e-resources server ([idp.nitt.edu](http://idp.nitt.edu)) has been configured for central library journal access.
- UG and PG Admission Processes were conducted successfully with the help of CSG during Covid-19 Lockdown period.
- Due to Covid-19 Lockdown period, all the meetings / events were conducted through Video Conference mode. These large number of VC requests were handled by CSG with minimum man power.
- Independence Day and Republic day events were Live Streamed for the outside users.
- Shri. K. Srinivasan, Sr. Technical Officer, CSG has received Covid-19 warriors award on behalf of CSG.
- Supported for the first Virtual Convocation which was conducted fully online mode.
- Procured SMS API for enabling OTP Authentication for Online classes.
- Supported for various recruitment process through the recruitment portal.
- Taken over the control of MIS Software after completing the knowledge Transfer successfully from M/s. Tata Consultancy Services, Ltd.
- Developed a portal for UG / PG Students No dues based on the request received from Dean Academic office.
- New Moodle Server has configured by CSG.
- A portal has been developed for alumni achiever award.
- Currently developing a new MIS module for CPDA.
- New Income Tax Regime has been implemented successfully in the MIS HR Module.

**Central Library**

Central Library is the institute's heart to cater the learning resource and knowledge to the bonafide students, research scholars, faculty members, and staff. It has more than two and a half lakhs of books and other documents consisting of Reference books, Handbooks, Technical books, Reports, Journals, and Standards. The Library holds multimedia resources such as CD-ROMS, Audio Visual Educational Cassettes. It subscribes 118 periodicals (print), 8000+ e-Journals, and 915 e-books and archived 17690 back volume journals. Book Bank scheme facilitates UG and PG students with 16,750 textbooks. Digital Knowledge Centre has 70 terminals with DVD-RW Drive to browse multimedia and eResources. Wi-Fi facility has enabled for walk-in users. Most of the stacks and reading area of Library is covered under CCTV camera surveillance. Library Security system of issue-return of books and other documents are empowered through RFID Technology. Indian Research Information Network System (IRINS) was maintained and updated by the Library, such as faculty publications. Central Library provides scholarly publications through plagiarism verification (Turnitin and Original) and advising to find suitable journals in the era of Open Access and predatory journals. All the eResources subscribed by the Library are linked in the Library webpage for easy access by the researchers. Due to the rise of the pandemic period Library also initiated the remote access facility for the students and research scholars resides out of the campus.

**Summary (AY 2020 - 21)**

S. No.	Details	Total Nos.		
		Scopus	-	Others
1.	Conferences			1
2.	Workshops organized by the Department	1		



**IEEE Webinar Poster**



**Prize Distribution among Quiz Winners participated in the IEEE webinar**



**Prof. Mini S. Thomas, Director releases the Current Awareness Bulletin of latest addition of books and other documents both hard copy and electronic version On the occasion of Saraswati Pooja at Library.**

## Training and Placement Office

### Notable T&P related achievements:

During the year under report (2020 -21), the students' placement record continues to be maintained at reasonably high percentages considering the pandemic driven global slowdown and lockdown. The entire process for about 209 Organizations has been happening on remote mode with the **students and the recruiting panel on remote, demanding extreme levels of seamless coordination**. The overall percentage of placements as on 31.05.2021 for under graduate programme is **83.3%** and Post Graduate Programme is **67.9%**. The placement process is still in progress. Summary details are given below:

Notable Achievement: (As on 31.03.2021)

No. of Companies participated	No. of Students Placed	Percentage (registered)
209	UG : 519 PG : 351	UG : 83.3 PG : 67.9

With the placement process still in progress, the Institute is expected to end the year with close to near normal placements, despite extreme unfavorable global factors.

### Summary (AY 2020-21)

S. No.	Details	Total Nos.			
1.	Journals / International*	<b>3</b> (Under Department of Energy and Environment) "Impact of condensate cooled air purging on indoor air quality in an air conditioned laboratory" Building and Environment 188 (2021) 10751 DOI: doi.org/10.1016/j.buildenv.2020.107511  "Experimental investigation on thermophysical properties of coconut oil and lauryl alcohol for energy recovery from cold condensate" Journal of Energy Storage, Volume 31, October 2020, 101639 DOI: doi.org/10.1016/j.est.2020.101639  "Performance analysis of 1-Sun and 2-Sun ridge concentrator PV system with various geometrical conditions" International Journal of Energy Research DOI: doi.org/10.1002/er.6706			
2	Conference / National	Organized webinar on NEP'20			
3	Sponsored Projects (Boeing)	No's:	1	Amount:	\$13,200

## TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME PHASE-III

The Third phase of Technical Education Quality Improvement Programme (referred to as TEQIP-III) is a key component for improving the quality of Engineering Education in existing institutions. The project is implemented through the Ministry of Human Resource Development (MHRD) of the Government of India as a Central Sector Scheme (CSS). One of the main objective of **TEQIP – III** is twinning arrangements to build capacity and improve performance of institutions and ATUs participating in focus states. NIT Tiruchirappalli is the Mentor Institute for Dr.B.R. Ambedkar Institute of Technology, Pahargaon, Port Blair, Andaman & Nicobar Islands (Mentee Institute).

NIT Tiruchirappalli was sanctioned an amount of Rs.7.70 Crores under TEQIP-III. Out of this, Rs. 3.25 Crores is utilised for purchasing equipment as part of modernization of laboratories in various departments. An expenditure of Rs. 375.00 Crore is booked for Soft Components head (Faculty Staff Training, Student learning Activities, Institute reforms, Mentoring activities to Mentee Institute, Graduates employability-Finishing School, Start-up Cell, Industry Institute Interaction cell related activities, Research Development activities) and an amount of Rs.70 Lakhs is earmarked for the Operating cost.

### Activities under TEQIP-III

1. Seed money to the faculty members (student projects) - 139 faculty members claimed under Research & Development Head worth Rs. 26 Lakhs.
2. BRAIT team visits NIT, Trichy under Twinning Arrangements during Dec 2017.
3. Selection of Asst. Prof. (TEQIP Institutions) MHRD, NPIU was successfully completed under TEQIP-III
4. Financial support to the Departments for conducting BoS/Academic Audit meeting under TEQIP-III 2017-18 & 2018-19
5. Order placed for Equipment worth Rs. 54 lakhs in various department laboratories
6. Stanford University - NPIU MHRD survey was conducted during December 2017 for two departments (EEE and CSE)
7. Three programmes were conducted under the start up-cell:
  - a) A programme for Technical Education in National Context to NIT Faculty members & NIT's Director was held from 5<sup>th</sup> to 7<sup>th</sup> October 2017. This was organised by Dr. G Kannabiran from Management Studies Department.
  - b) Business Plan Competition was conducted on 16<sup>th</sup> -18<sup>th</sup> Feb 2017, for NIT Faculty members and students. This was organised by Dr. G Kannabiran from Management Studies and Dr. N. Sivakumaran, the start-up Cell Coordinator.

- c) A one day workshop on “Faculty Startups & Entrepreneurship” was held on 24<sup>th</sup> March, 2018. This was organized by Dr. G Kannabiran from Management Studies and Dr. N. Sivakumaran, the start-up Cell Coordinator.
8. A workshop on “Capacity Building of Women managers in Higher Education” was held from 4<sup>th</sup> to 9<sup>th</sup> December 2017 at NITT. This was organised by Dr.G. Uma and, Dr.D.Ezhilarasi from ICE Department and Dr. S. Mekala from Humanities Dept.
  9. 54 students have visited canada under R&D head during May to July 2019 as part of the Student Mobility Programme by MITACS Canada & MHRD, NPIU New Delhi.
  10. Conducted a short term course on “ Computer Skills” to non-teaching staffs during 4<sup>th</sup> June to 22<sup>nd</sup> June 2018. This was organised by the Computer Support Group, NITT (154 numbers).
  11. Two International conferences were conducted by the Chemical Engineering and EEE Department during December 2018.
  12. Four International Conferences were permitted for the year 2019 under TEQIP-III for ECE, MME, CSE and Mechanical Departments.
  13. Conducted a workshop on “Faculty Induction Training Programme” during 21<sup>st</sup> to 23<sup>rd</sup> June 2018 for the newly joined faculty members (37 numbers). This was organized by the Dean Faculty Welfare Office and IITM.
  14. Dean Students Welfare Office conducted an Orientation Programme for the first year B. Tech Students of all branches under TEQIP-III during 31<sup>st</sup> July, 2018 to till date.
  15. Employability skill test was conducted for 469 first year B.Tech. Students during 4<sup>th</sup> to 6<sup>th</sup> Dec 2018.
  16. Gate training was conducted for 150 Final year B. students during Feb 2019.
  17. The GATE 2019 registration fee for 221 Final year B. Tech students were reimbursed.
  18. The GATE 2020 trained and appeared for 231 Final year B. Tech students.
  19. Seed money to the faculty members (student projects) - 201 faculty members claimed under Research & Development Head worth Rs. 38 Lakhs.

**The following officials attended various training programmes:**

- a) Dr. Radhakirishnan T. K., Coordinator, TEQIP and Dr. Sastikumar D., Dean (ID) attended the workshop on “TEQIP-III Implementation – Orientation” which was held on 21<sup>st</sup> July 2017 at New Delhi
- b) Dr.A.V. Reddy, Dean (Students Welfare) attended the workshop on “Induction programme for sensitization” which was held on 24<sup>th</sup> August 2017 at New Delhi
- c) Dr.M. Arivazhagan, Asso. Dean, Dr. U. Srinivasalu Reddy, Asso. Dean, and Dr.T. Ramesh, Asso. Dean attended the workshop on “Faculty-Mentors on induction programme for New Students” at Govt. Engg. College, Raipur which was held during 4<sup>th</sup> to 6<sup>th</sup> September 2017

- d) Eight Faculty members attended the Management Capacity Programme conducted by IIM.
- Dr. M. Arivazhagan, Chemical Engg. - IIM Trichy
  - Dr. K. Bhaskar, Civil Engg. - IIM Raipur
  - Dr. Karvembu, Chemistry – IIM Trichy
  - Dr. M. Murugewsan, Mathematics - IIM Calicut
  - Dr. Vinod Balakrishnan, Humanities - IIM Vizag
  - Dr. Sarthak Mandal, Chemical Engg. - IIM Trichy
  - Dr. A. Ramakalyan, ICE - IIM Trichy
  - Dr. S.Arul Daniel, EEE - IIM Trichy
- e) Dr.N.Sivakumaran, Start-up Cell Coordinator attended the workshop on “Start-up Activities’ & preparation of mini-action plan” held on 16<sup>th</sup> & 17<sup>th</sup> January, 2018 at BIT, Mesra, Ranchi
- f) Shri. R. Narayanan EE, Shri. R. Ravishankar AR (Stores and Purchases) and Shri.R. Karthikeyan A.R. (Accounts) attended a training programme on “Public Procurement” which was held during 8<sup>th</sup> to 13<sup>th</sup> Jan 2018 at NIFM, Faridabad.
- g) 54 faculty members attended three programmes on “Introduction to Machine learning with applications for engineering systems and Advanced deep learning”. Two programmes were organized by IIT Bombay and one was organized by NIT Trichy (Dec 2018, Feb 2019 and April 2019).

#### **Twinning Activities:**

1. DBRAIT team visited NIT, Trichy under the Twinning Arrangements programme during 6<sup>th</sup> to 8<sup>th</sup> December 2017.
2. Mentee Institution (DBRAIT) Short term & Long term plan was prepared on 31<sup>st</sup> January 2018.
3. Two Officials of NIT, Trichy team; Dr. S. Senthil Kumar, Nodal Officer Academic TEQIP-III & Dr. V. Sunitha, Nodal Officer Procurement TEQIP-III visited DBRAIT under Twinning Activities during 14<sup>th</sup> & 15<sup>th</sup> May 2018.
4. Dr. J. Karthikeyan, Asso. Prof., Civil Engineering, NIT,Trichy delivered lectures on the topic “Advanced Structural Analysis” under Twinning Arrangement activities held on 13<sup>th</sup> & 17<sup>th</sup> September 2018 at DBRAIT.
5. Performance Auditor - Prof. N.C. Shivaprakash, IISc, Bangalore & NIT Trichy TEQIP team of Dr. M.Udayakumar, TEQIP Coordinator, Dr. N. Sivakumaran, Start-up cell coordinator and, Dr. S. Senthilkumar, Nodal Officer Academic TEQIP-III attended the “Twinning Arrangement activities” held on 12<sup>th</sup> & 13<sup>th</sup> October 2018 at DBRAIT, Andaman.

NAME	DESIGNATION	TOPICS OF LECTURES DELIVERED
Dr. M. Udayakumar	Co-ordinator, TEQIP-III, Professor Dept. of Mechanical Engineering, NIT-T	Special Lecture on Electric Vehicle Technology- Indian Scenario.
Dr. N.C. Siva Prakash	NIT-T Performance Auditor, TEQIP-III, Professor, Dept. of Electronics and Instrumentation Engineering, IISC Bangalore	Motivational Discussion with TEQIP Officials / HoDs / Faculty/ Staff and students.
Dr. S.Senthil Kumar	Nodal Officer (Academic), TEQIP-III, Associate Professor, Dept. of Electrical and Electronics Engineering, NIT-T	Special Lecture on Electric Machines in Wind Energy Electric Conversion System.
Dr. N.Sivakumaran	Start-up cell co-ordinator, Professor, Dept. of Instrumentation and Control Engineering, NIT-T	<ul style="list-style-type: none"> <li>• Overview of Start-up cell activities at DBRAIT</li> <li>• Case Studies on intelligent system design</li> </ul>

6. Dr. S. Moorthi, Asso. Prof., Dr. M. Venkatakrithiga, Asso. Prof. & Dr. P.Raja, Asso. Prof. of EEE Dept. attended a programme for finalizing the SAR preparation under "Twinning Arrangement activities" which was held from 7<sup>th</sup> to 11<sup>th</sup> November 2018 at DBRAIT, Andaman.
7. The DBRAIT team of 5 Officials (Dr. V. Alagusundaram, HoD (Computer), Shri. Arun Srivastava, HoD (Electrical), Dr. Jenson Daniel, HoD (Civil), Shri B.K. Jena, HoD (Mechanical), Shri. Harsabardhan Barik, Assistant Prof, CSE, N.O. (Procurement)) visited NIT Trichy under TEQIP-III Procurement plan preparation which was held on 29<sup>th</sup> & 30<sup>th</sup> January 2019.
8. Prof. S. Raghavan, ECE Dept. attended DBRAIT as a BoG nominee on 15<sup>th</sup> April 2019 & also as a Viva voce Project Examiner of final year B.Tech. students on 16<sup>th</sup> April 2019 at DBRAIT.
9. Three NITT students (CSE, Civil, ECE) of Campus Interview committee visited DBRAIT, Andaman & Nicobar during 22<sup>nd</sup> and 23<sup>rd</sup> April 2019 to accelerate the student activity (Company Data base, Placement brochure, JEE Mock test for aptitude etc.).
10. Dr. Utpal Sharma, Principal, DBRAIT, Port Blair, A & N visited to NITT on 17.04.2019 to interaction with the Director and TEQIP team to achieve the target.
11. Mr. Sourav Debnath, Assistant Librarian visited to DBRAIT as resource person for 2 days workshop on Integrated Library Management System(ILMS) for 11<sup>th</sup> & 12<sup>th</sup> May 2019.
12. Internship is arranged for 10 students of DBRAIT from 3<sup>rd</sup> June to 3<sup>rd</sup> July 2019.
13. Faculty and students (1+7) from DBRAIT visited NITT during 27<sup>th</sup> to 31<sup>st</sup> Aug, 2019.

14. 7 students and a faculty member visited NIT Trichy during 27<sup>th</sup> to 31<sup>st</sup> August 2019. They visited SEM center and SCIENT.
15. DBRAIT Team met Dean (S/W), Dean(ID), TEQIP Officials, various Dept. visit, Placement Officer and discuss with various students clubs and general facility visited.
16. DBRAIT 12 students participated in Festember 2019 at NITT during first week of October 2019.
17. Shri Sukhvinder Singh, CSE faculty visited NITT related to video conference arrangements NITT & DBRAIT on 23<sup>rd</sup> August 2019.
18. Many faculty attended Ph.D. written test and interview during admissions 2019.
19. Shir Altamash Mustafa, AP Civil regarding conformation of rate reasonabilty of procurment visited 3<sup>rd</sup> to 5<sup>th</sup> Nov 2019.
20. Dr. K. R. Balasubramanian, Nodal Officer(Finance), Dr. K. Panneerselvam, Nodal Officer (Academic) and Dr. S. Jerome, EAP Coordinator, TEQIP-III of NIT trichy team along with Prof . N.C. Shivaprakash, IISc, Bangalore to accelerate the Twinning arrangement activities held on 19<sup>th</sup> and 20<sup>th</sup> Aug 2019.
21. Dr. Kunwar singh and Dr.E. Sivashankar, CSE Dept faculty of NIT Trichy faculty delivered the guest leacture and attended B.Tech students viva exam held 15<sup>th</sup> & 16<sup>th</sup> October 2019.
22. The Director, NITT and TEQIP Team accelerate the twinning activities held January 7 & 8, 2020.
23. The Director NITT delivered a lecture, "Women Empowerment" on 7<sup>th</sup> January 2020 for all students and faculty of DBRAIT.
24. Student Council member and Hostel convener (8 members team) to participate PRAJANA 2020 happened 30<sup>th</sup> and 31<sup>st</sup> January 2020.

NIT Tiruchirappalli consecutively top performed in TEQIP III similar to TEQIP I and II. Based on the recently conducted performance audit by Prof.N.C. Shivaprakash, Professor, IISc Bangalore, the audit score obtained was 1.03 for a scale of 3.0 (1.00 being the highest score) which is top among all NITs and all Govt. Institutes which participated in TEQIP III .



**Visit by NITT TEQIP team along with Director (NITT) to Dr. B. R. Ambedkar Institute of Technology, Andaman & Nicobar Islands**

## **CENTRE FOR ENTREPRENEURSHIP DEVELOPMENT AND INCUBATION**

**(Established as Section 8 Company under Companies Act, 2013)**

Ideas and innovations are no longer geographically or politically confined. An invention made today somewhere takes no time to find its market thousands of miles away. The expansion of information and communication technology and the convergence of technological tools are structuring new world knowledge, where problems of one part of the world can be solved by multiple experts based at different points of the globe.

### **SIGNIFICANCE OF BUSINESS INCUBATORS**

CEDI NIT Tiruchirappalli supports very early stage start-ups for a period ranging from six months to two years whereas accelerators provide short intensive time based support for early revenue start-ups. Both, in essence, aim to increase the survival rate of start-ups and subsequent commercial success. Business incubation provides a nurturing, instructive and supportive environment for entrepreneurs during the critical stages of starting up a new business. The goal of an incubator is to increase the chance that a startup will succeed, and shorten the time and reduce the cost of establishing and growing its business.

CEDI NIT Tiruchirappalli can help to nurture the companies that will emerge as the wealth creators and employment providers of the nation. Incubators serve as a launching pad for young and small businesses. Start-ups, which are innately dynamic entities, need access to support, and incubators are a means of providing this. For entities that are already in existence, the incubator will function as an accelerator to scale up its operations to economic levels and beyond.

Incubators help start-ups survive in their very early stages by providing:

- A. Physical resources such as office space, communication facilities, conference rooms, library access, etc.
- B. Business oriented aid like legal services, marketing support, fund raising, business planning, strategic direction, technical assistance and networking support.
- C. A unique ecosystem of resources, inspiration, and opportunities to grow and have a positive impact on society at large.

Building blocks of incubation

- I. Business Modeling
- II. Technology Support
- III. Office Space R & D Laboratories
- IV. Consultant support
- V. Commercial & Legal Support
- VI. Organisation & Management
- VII. Marketing

## VIII. Funding

## IX. Coaching, Mentoring &amp; Monitoring

CEDI-NIT Tiruchirappalli has been recognized the startup Ecosystem for initiating technology led and knowledge driven enterprises. Studies also show that such mechanisms help not only in the growth of technology based new enterprises but also in improving their survival rate substantially (from 30% to over 70%). CEDI also facilitate speedy commercialization of research outputs from the Host Institution NIT Tiruchirappalli. CEDI usually provide various services namely; market survey/ marketing assistance, business planning and training, organizing management/ technical assistance, assistance in obtaining statutory approvals, information dissemination on product ideas/ technologies, syndicating finances, arranging legal and IPR services etc. Thus, besides providing a host of services to new and existing enterprises, CEDI also facilitate an atmosphere congenial for their survival and growth. Through mentoring incubatees in an incubator environment by providing both scientific and entrepreneurship/business expertise, providing state-of-the-art working laboratories, cutting-edge technology platforms and strategically “nucleating” incubators in existing technology advancement, an ecosystem that nurtures and supports discoveries is created and which puts budding entrepreneurs with exciting discoveries on the path towards commercialization or productization.

**FLAGSHIP initiative: FACULTY STARTUP at NITT**

<b>Registered: NIT Tiruchirappalli Faculty Start-up Category</b>			
<b>Sl. No.</b>	<b>Name/Designation</b>	<b>Proposed Idea</b>	<b>Results/ Recommendation</b>
1)	Dr.-Ing. M. Duraiselvam Professor, Dept. of Production Engg.	Portable multi-functional smart ventilator	Start-up Identity: Mentoring and Rental
2)	Dr. R. Periyasamy Assistant Professor Dept. of ICE	Low Cost diagnostic device, to measure Transcutaneous Bilirubin	Mentoring, Rental, Funding support
3)	Dr. R. Senthilkumar Assistant Professor Dept. of Civil Engg.	Seismic resistant composite ready-made building components.	Start-up Identity: Mentoring and Rental
4)	Dr.S. Domnic Associate Professor Dept. of CA	Face recognition surveillance system	Mentoring, and Funding Support

### Alumni and Open Category Startups at NIT Tiruchirappalli

Registered Start-ups: (Start-up India / Open category)			
Sl. No.	Name/Company	Proposed Idea	Category
1)	Manoj MS Ettenly Petrochemicals (P) Ltd.	Application. Procuring Fuel Dispenser and Fuel Vehicle Fabrication design completed	Mentoring Category
2)	Varun Gawarikar V2RT Insuretech solutions (P) Ltd.	Insurance: Claim App: Virtual Survey With Real- Time Prevention And Mitigation Help	Mentoring, Student interns
3)	Gopi Mani/Vinoth Mani Taizo Technologies (P) Ltd.	India's Personalized Job Platform	Mentoring, Rental Space, Funding Support
4)	Shrinath Honnovalli, Manoj Pandey Trawello Hearth Care services (P) Ltd.	Wellness products	Mentoring, Rental Space, Funding Support

### CEDI Incubatee Company's 2020 – 2021

Sl. No.	Company Name	Sector
1.	Trawello Healthcare Services Pvt. Ltd.	Service
2.	Ramani Educational and Charity Trust Pvt. Ltd. (REACT) (Women Entrepreneur)	Manufacturing
3.	Switch Mobility Pvt. Ltd.	Manufacturing
4.	GreenerG Mobility Solutions Pvt. Ltd.	Manufacturing
5.	EEKAI Innovations Pvt. Ltd.	Manufacturing
6.	PHOTEJ	Manufacturing
7.	Aqualyzer	Manufacturing
8.	Social Welfare Integral Trust (SWIT)	Manufacturing
9.	SAWBON	Service
10.	Prognostik Healthcare Instruments (P) Ltd.	Service
11.	Aid Vision Solutions (P) Ltd.	Manufacturing
12.	Inventglo Technologies Solutions (P) Ltd.	Manufacturing
13.	Taizo Technologies (P) Ltd.	Manufacturing
14.	Senvira Engineering (P) Ltd.	Manufacturing
15.	Edge Tree – Intelligent Transportation Engineering	Manufacturing
16.	Ettenly Petrochemicals (P) Ltd.	Manufacturing
17.	V2RT Insuretech Solutions (P) Ltd.	Manufacturing

## Siemens Centre of Excellence in Manufacturing

The Siemens Centre of Excellence in Manufacturing, established in 2018 at National Institute of Technology, Tiruchirappalli, operates with a primary focus of creating a robust technical education eco-system through its experience in industrial products and services. There are 12 sophisticated Laboratories for Design and Validation, Advanced Manufacturing, Test and Optimization, Automation, Electrical and Energy savings, Process Instrumentation, Mechatronics, CNC Machines, CNC Controller, Robotics, Rapid Prototyping and Internet of Things which provides opportunity for promising innovations. This multi-faceted unique centre offers skill development courses, Internships, Research and Development assistance and Industrial consultancy services across various sectors.

The objective of Siemens Center of Excellence is to build a self-sustainable, interactive, industry-relevant, and cyber-physical learning platform to bridge the Technical Skill Gap that exists between academia and industry today. With the Make in India initiative launched by the Government of India, many modern Industry 4.0 factories will come up and need a huge pool of engineers trained and made industry-ready in Advanced Manufacturing Technologies.

Siemens Centers of Excellence achieve just that: engineers trained to match industry needs and employment-ready, also include helping the institution in training the trainers on emerging technologies and also it can be fine-tuned to suit the requirements of specific industries such as Automobile, Aerospace, Defense, Energy and General Industry.

### 1. Training/E Learning

The centre had extended its services to the society with **Self learning Interactive modules through pod.works** at nominal cost. The centre had successfully organized e-Learning courses in iloT, CNC programming and NX which are used for both self-study as well as for blended learning with robust consulting with industry experts. The centre had develop e-Learning courses at par with international standards, not only in its technical aspects, but also in its user-friendliness and interactive teaching format.

As a part of NIT Tiruchirappalli Curriculum, Siemens CoE had supported for conducting Laboratory Experiments to various departments.

During the nationwide lockdown, Siemens CoE has been effective in organizing 10(+) webinars on emerging technologies and trained 100(+) students and faculty members. Also, the centre had supported as resource persons by delivering 10(+) AICTE and ATAL sponsored guest lectures to various institutes and 200(+) participants have benefited.

### 2. Our Partners

Siemens CoE was also associated with many universities and technical organizations for providing skill training programs in CNC, Robotics, and Automation etc. It also explored in signing MoU with various associations related to industries for self-sustaining of the CoE. During 2020-21, it had collaborated with 10 organizations. Over the past two years, the CoE had signed MoU with 55 organizations and 15(+) are in pipeline.

### 3. Consultancy Projects

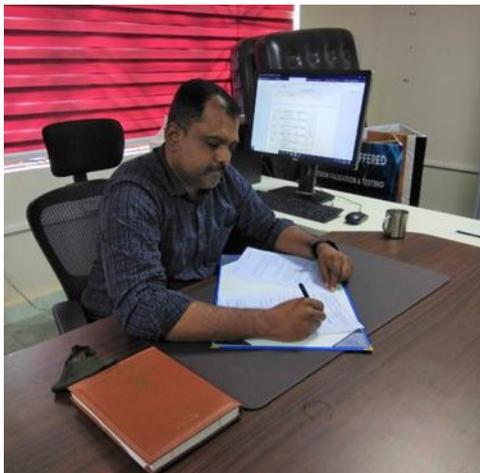
The Siemens CoE in Manufacturing provides skill excellence through Training, R & D, and Consultancy for a robust Industry relevant technical education ecosystem.

Ongoing Consultancy Projects organization are BHEL (Trichy), Tanoti (Bangalore), Ceeyes Engineering private Ltd., Simco industries, DIQU Tech., GTRE DRDO and Regent group, Kolkata.

### 4. Other Events and News

- As a part of Industry Institute Interaction meet, Shri.T.S. Murali, GM & Head, and Delegates of BHEL Trichy visited the Siemens CoE in Manufacturing, NIT Tiruchirappalli on 12.03.2021.

- Siemens CoE in Manufacturing, NIT Tiruchirappalli in association with Department of Women's studies, Bharathidasan University and Women Entrepreneurs Association of Tamil Nadu had organized a webinar on Entrepreneurial and MSME Opportunities on Emerging Technologies.
- Shri. Bhaskar Bhat Chairperson, Board of Governors, National Institute of Technology, Tiruchirappalli visited the Siemens CoE in Manufacturing, National Institute of Technology, Tiruchirappalli on 06.11.2020.
- Siemens CoE in Manufacturing, National Institute of Technology, Tiruchirappalli organized an online High End Workshop on CNC-SINUMERIK Advanced Technology with the support of Science and Engineering Research Board (SERB) under Accelerate Vigyan Scheme of KARASHALA.



**MoU with the Siemens CoE in Manufacturing, NIT Tiruchirappalli and K S R Institute for Engineering and Technology, Tiruchengode virtually on 23.12.2020**



**BHEL Trichy delegates visit to Siemens CoE in Manufacturing, National Institute of Technology, Tiruchirappalli**

## Centre of Excellence in Artificial Intelligence

Centre of Excellence in Artificial Intelligence (CoE-AI), NIT Tiruchirappalli has been established at the cost of 1.10 Crores and was inaugurated on 8<sup>th</sup> September 2020. CoE-AI is dedicated to facilitate targeted and predominantly AI based capacity-building programmes in areas that benefit the sector at large. It will also serve as a focal point for sharing of best practices in the areas that benefit the students, institute, industry and other related organization. There are Six AI Workstations and one AI Super Computer in the Centre.

NIT Tiruchirappalli has signed MoU with NVIDIA to perform server intensive computations in the CoE-AI Lab. The computing services of COE-AI can be rendered by all the participants and open to the research communities. The Centre has obtained the Research Projects from different R & D organizations including DRDO, ISRO.



**Inauguration of Centre of Excellence in Artificial Intelligence (CoE-AI)**

### 1. Computing facilities at the CoE-AI

- AI Super computer – DGX-1 server for AI models training
- GPU based AI System – 6 nos.



**Shri. Bhaskar Bhat, Chairperson BoG visiting the CoE-AI along with the Director**

## 2. Workshops/Training programs organized at CoE-AI

The CoE-AI has organized an online workshop on “Artificial Intelligence and Machine Learning Techniques for Data Analytics (AIMLT-2021)” from February 15, 2021 to February 20, 2021 and was inaugurated by the Dr.S. Muthukumaran, Dean (R & C), NIT Tiruchirappalli. The inauguration ceremony started with the welcome note by Dr.S. Dominic, Computer Applications, NIT Tiruchirappalli. Dr.M. Umopathy, Registrar (I/C), NIT Tiruchirappalli delivered the thematic address and highlighted the key features of CoE-AI. The inaugural ceremony was concluded with Vote of Thanks by Dr. E. Sivasankar, CSE, NIT Tiruchirappalli. The number of participants attending the workshop across the globe was 47. Two training programmes and one workshop have been organized in Dec 2020 and March 2021 respectively.



**Inauguration of online workshop on AIMLT-2021**

## 3. Research and Consultancy Projects taken at CoE-AI

The research and consultancy projects worth of 60.22 Lakhs have been taken in the period 2020-2021. The details are given below:

- Artificial Intelligence based Integrated Logistics Management System (ILMS) for Indian Navy (Air) Funding Agency: NRB-DRDO, 2020-2022, 22.22 Lakhs.
- Development of AI based Weapon Logistics Module, Funding Agency: DRDO, 2020-2021, 38 Lakhs.

## 4. Computing services rendered at CoE-AI

Research scholars from various departments such as ECE, CA and CSE are utilizing the DGX-I server to train their AI models for conducting cutting-edge research in the area of Artificial Intelligence.

## STUDENTS' ACTIVITIES

### FESTEMBER

The 46<sup>th</sup> edition of Festember, Festember'20 themed "The Fantasy Realm", was an extravagant spread of events which spanned several weeks.

Festember was held entirely online this year as a consequence of the ongoing pandemic. However, it proved to not be a significant hurdle but an opportunity for Festember to showcase its merits to a wider, more accessible audience online.

One of the greatest hallmarks of any edition of Festember is its line of speakers for the illuminating Guest Lecture series, Carpe Diem and Vox Populi – and the 46<sup>th</sup> edition has only soared higher. The first guest of this edition's Carpe Diem series was the director of the highly acclaimed TV series "Money Heist", Alex Rodrigo. He talked about his experiences filming the pop culture phenomenon that Money Heist is, and its journey to fruition and relevance today. The second guest for the series was the stunning playback singer Shweta Mohan. She spoke about her journey through the colourful world and India's music scene, both as a playback singer and an independent artist. She also touched upon her experiences of working with icons like the stalwart Ilayaraja, AR Rahman, Anirudh, and many others while interspersing her speech with snippets of her songs.

In continuance with the Carpe Diem series, Festember hosted the five-time world chess champion and India's first grandmaster, Viswanathan Anand, as its third guest, on the 3<sup>rd</sup> of February. He delivered a speech on his journey, from his early days to his championships to where he stands today, the thrill of victories, and the joy in strategising and battling the opponents' wits.

The next guest was the distinguished cinematographer Julio Macat, who has led the camera department on Hollywood favourites such as Pitch Perfect and Home Alone. He elucidated on his experiences working along with Hollywood maestros, directors Tom Shadyac and Adam Shankman, and offered a peek into his way of conveying stories through his lenses. In the conclusion to this edition's Carpe Diem series, Festember invited two celebrated authors - Cathy Cassidy and Christopher C Doyle - to an enchanting talk on the 22<sup>nd</sup> of February. The two prolific novelists took the stage to allow us a glimpse into their enchanting world of writing, fiction and blurbs from their lives.

In the first week of February, Festember also hosted its first guest in the Vox Populi guest lecture series. The advocate, columnist, author of three books, and former resident editor of NDTV 24x7, Sanjay Pinto, was invited to deliver a speech on 8<sup>th</sup> February. He talked about the causes close to his heart, his endeavours in life, and him being a voice of the people.

A multitude of sponsors made the entire roster of events possible. Festember was associated with Skillbox, City Union Bank, Bank of Baroda, Shopclues and DHL. Festember

was also associated with several media sponsors who shone the light of mainstream media and publicity on the fest - Suryan FM, Fever FM & Radio One, Film Companion South, Shortfundly, Filmibeat, NewsGlitz & IndiaGlitz, Strate School of Design and Awesong, and Glitters Film Academy.

Festember's biggest attraction has always been its four nights of immense fun - the ProShows, and it vowed to make this year's performances the benchmark for years to come. The ProShows have always boasted of performers who set the stage and the night ablaze with their intensity, and this edition was no different. First in line was the Fusion Night on the 19<sup>th</sup> of February, headlined by the renowned veena player Rajhesh Vaidhya. He gave an absolutely scintillating performance, with the audience swaying to the tune of his magical veena. The day after, Festember had the quick-witted comic Naveen Richard bring his "One Night Stand-Up" to an eager audience. With his charming performance, Naveen Richard had the audience in splits and howling with laughter.

Next in line was Icon Night on the 27<sup>th</sup> of February, boasting of the soulful Vijay Yesudas as its performer. He swept the audience off their feet with his impeccable renditions and his mellifluous tone, wooing the audience with his stunning display of talent. Not to be outdone by the other impressive performances, the penultimate ProShow, on the 28<sup>th</sup> of February - Popular Night - had the captivating Shilpa Rao as its headliner. She took the stage and left everybody spellbound with her euphonious voice, with a thorough candid interaction with the viewers that's bound to have left lasting memories.

The final bow on the present that was the ProShows was Finale, with two multifaceted artists adorning the virtual stage - singer Maalavika Manoj and keyboardist Stephen Devassy. They kept the pulse racing throughout their exhibit that served as a fitting end to the amazing year Festember has had.



**Events of Festember' 20**

## PRAGYAN

Pragyan, the international techno-managerial organisation of NIT Trichy, which came into being in 2005, achieves just that by providing a platform for a multitude of students to showcase their technical ingenuity and prowess. With its annual self-titled fest, Pragyan has come a long way since its inception. It basks in the limelight with the London Olympics and Manchester United, the football club, as one of the three organisations to have ever achieved the ISO 20121:2012 Certification for Sustainable Event Management. Pragyan also holds the coveted honour of being the only student-run organisation amongst the three. In addition, Pragyan has the ISO 9001:2015 Certification for Quality Management Systems. Moreover, it has been registered as a case study in The Case Centre, London.

This year, Pragyan has had many online sessions with renowned speakers, businessmen, scholars, and personalities on our Pragyan Talks and Backstage Q & A sessions. With online events, podcasts, and articles spreading awareness and information, Pragyan has not lost its zeal during these tough times.

With “Metaverse” as its theme, this edition of Pragyan aims to bring together all the virtual worlds together and celebrate technology. The events conducted by Pragyan required the students to think out of the box and develop innovative solutions, thus adhering to the theme. The Panel Discussion, the Guest Lecture Series, and the Exhibition series provided a golden opportunity for students from all over the country to interact with the nation’s brightest minds. The Guest Lecture series included eminent luminaries like Dr. Vandana Verma, Dr. Rishikesh T. Krishnan, Dr. Ken Yeang, Philip Rosedale, Yogesh Gupta, Dr. Ramanan Laxminarayan, Dr. Duvvuri Subbarao, Mr. Navdeep Suri, Dr. Ashok Seth, Dr. Soumitra Dutta, Dr. B. N. Suresh and many more. Exhibitions were another main attraction, including Prosthesis- a gargantuan two-story-tall tetrapod exoskeleton, learning how woven art in the form of sculpture and science are, Manufacturing of Guns by the Ordnance Factory, Tiruchirappalli.

The infotainment shows in the evening eased the competing minds through shows like Pete Michels sharing his experience as the award-winning animation director and explaining the nook and corners of animation. Wahid Ibn Reza shared his experience as the production manager and gave insights into the world of technologically oriented modern films. Gaurav Sundararaman shed light on the role of analytics in cricket and how the sport has evolved over a short period with the help of data-driven technology.



Pragyan'21 Inauguration on 28<sup>th</sup> March 2021



Pragyan'21 Valediction on 12<sup>th</sup> April 2021

### CLUBS AND SOCIETY

Sl. No.	Clubs	Activities
1.	AAYAAM	Hindi Literature Club
2.	AIASEC	International Youth Leadership Organization
3.	AKSHARA	Telugu Literature Club
4.	AMRUTHAVARSHINI	Classical music club
5.	APEKSHAA	Non-profit organization to perform social work
6.	ATHENÆUM	Model United Nation
7.	BALLS BY PICASSO	English Literary Club
8.	BUILDERS' HIVE	Providing Construction Solutions
9.	DANCE TROUPE	Dance Team of NITT
10.	DATA BYTE	Data Science and Business Analytics club
11.	DELTA FORCE	Central Technical Team
12.	DESIGNERS' CONSORTIUM	Product Designing Club
13.	DHRUVA CLUB	Spirituality and Life Style Club
14.	E-CELL	Entrepreneurship and Innovation Club
15.	FILM SOCIETY	Film making Club
16.	FINE ARTS SOCIETY	Arts and Ambience Club
17.	IGNITTE	Teaching Group for under privileged
18.	INCREDIBLE NITT	Nature Club
19.	LEAP	Environmental Awareness and Protection Club
20.	MARINE TECHNOLOGY SOCIETY	Marine Technology Enthusiasts
21.	MAXIMUS	Mathematics interest and teaching group
22.	MUSIC TROUPE	Music Team of NITT
23.	NAKSHATRA CLUB	Astronomy and Space Science club
24.	OMEGA SCIENCE AND SPIRITUALITY CLUB	Science and Spirituality
25.	PIXELBUG	Photography Club
26.	PSI RACING	Motorsports Team of NITT
27.	PHYXION	Physics Interest and Teaching Group
28.	PUPIL FOR PUPIL COMMITTEE (PPC)	Post Graduate Social Service Club
29.	ROBOTICS AND MACHINE INTELLIGENCE CLUB (RMI)	Robotics enthusiasts; research in allied fields
30.	ROTARACT CLUB	College Chapter of Rotary International
31.	RSFNITT	Research Scholars' Forum
32.	SPIDER	R&D Club of NITT
33.	TAMIL MANDRAM	Tamil Literature Society
34.	THE THESPIANS' SOCIETY	English Dramatics Club
35.	THE THIRD DIMENSION	Aeromodelling Club
36.	TOASTMASTERS NITT	College Chapter of Toastmaster International

## STUDENTS' ACHIEVEMENTS

Name of the Student	Prize Won
Saimothish	<b>Designers' Consortium:</b> Designed an attachment device to a tractor to remove fallen silt from side barriers in paddy fields to help farmers of Thirunedungulam village along with NSS as part of Unnat Bharath Abhiyan initiative. 17 <sup>th</sup> Nov 2020.
Rohit Surya	
Niranjana Kumar	
Vishnu M H	
Saimothish	
Kushagra Kandapal	Selected for Cuvette Tech Business Strategy Internship on 1 <sup>st</sup> October 2020
Sabrina Paul	
Samir Shaikh	
Gokul Kannan	First Place in National P&G Technical Games Case Study Competition on April 2020
Nishant Chandan	
Sunil Sadhasivam	
S M Deepsikha	<b>Designers' Consortium:</b> Second place in Industrial Design Problem at VIT Vellore on. 12 <sup>th</sup> Oct 2019
Navneeth Rajiv	
Kevin Mathew Thomas	
Madhav Aggarwal	<b>Spider R&amp;D:</b> Tezos India fellowship 16 <sup>th</sup> July 2020
Abhilasha Nagpal	<b>Spider R&amp;D:</b> Smart India Hackathon (SIH) – Winner Date: 3 <sup>rd</sup> August 2020
Ark Srivastava	
Goutham CM	
Nitin More	
Vaibhav Bairagi	
Ayush Singh	
Soma Karthik	<b>Spider R&amp;D:</b> Project Bee Bots got selected in ICCAR Conference 2020, Singapore - 23 <sup>rd</sup> April 2020
Akil M	
N Praveen Chandhar	
M Akil	
Shivani Chander	
J Amogh	
R Aditya	
Senthur Raj	<b>Spider R&amp;D:</b> Project Shadow Bot got selected in ICRA Conference 2020, France - 31 <sup>st</sup> Aug 2020
Jack Samules	
Manu Aatitya	
Veejay Karthik	

Gokul Krishna	<b>Athenaeum:</b> <b>GECB MUN</b> - Gokul Krishna, (Online Competition - June 2020)
Surya Sridhar	<b>Athenaeum:</b> <b>MEC e-MUN</b> - 1 award (Online Competition - June 2020) <b>UYS e-MUN</b> - 1 award (Online Competition - June 2020) <b>CUKCC e-MUN</b> - 1 award (Online Competition - June 2020) <b>Pressing Matters</b> - (Organized Competition Online - July 2020) <b>QCON e-MUN</b> - 1 award (Online Competition - July 2020) <b>Cognizant e-MUN</b> - 1 award (Online Competition - August 2020) <b>Vision e-MUN</b> - 1 award (Online Competition - August 2020)
Adithya Sriram, ICE	Top 4 in HSBC India Case competition
Nithin Balaji DV, CSE	
Swesha V, PR	
Shravan R, CE	
Achyut Ramkumar, ICE	AIR 1 in IIM Case Study competition
Vijay Kiran, ICE	AIR 1 in IIM Case Study competition
Kailash Jagadeesh, ME	Won over 17 Intercollege robotics event including at IIT Rourkee, IIT BHU and BITS Pilani
Balaji Jayashrri, CSE	Ethereum India Fellowship 2.0 and Winner of Etherpunk Hackathon
Arvinth S, ECE	Etherpunk '21 Winner
Abhishek L, ECE	Winner MIT Bitcoin Expo Hackathon
V.K.Viekash, ICE	Publications - 'CAD Sketch Net' by Elsevier
Saloni Rakholiya, CSE	Generation Google Scholarship, Asia Pacific Region
Priyanshu Dangi, CSE	Tezos India Fellowship 2.0 and Winner of Etherpunk Hackathon
Rishab Nahar, CSE	Google Kickstart 2021 AIR 4 and Global Rank 27
Satyarth Pandey, CSE	Google Hashcode 2021 AIR 8 and Global Rank 97
Sobhagya Singh Dewal, CSE	Google Codejam AIR 2 and Global Rank 138
Arunesh, CSE	Winners - Medihack Hackathon @ University of Lodz (Poland)
Vaasu, CSE	
KR JaiKeshav, ME	Eyantra robotics competition 2020 First place
Aswin Sreekumar, ECE	
K Girish, ECE	
Greeshwar R S, PR	
Madhav Aggarwal, CSE	IUSSTF Viterbi India Program

**NATIONAL CADET CORPS (NCC)**

A-Flight NCC organized 30 official meetings in the year 2020-2021. The meetings were conducted in MS Teams. The first-year cadets were trained by the second-year cadets with the guidance of the third-year cadets in foot drill. The meetings were taken by the second year and third year cadets as they wholeheartedly taught the commands by showing the videos, pictures and explaining the specifications of each command and giving live demonstration to the junior cadets to ensure they had understood the command completely. The meetings ended with the senior cadets giving motivational talks to the junior cadets. Apart from the normal meetings, theory classes were also conducted for the cadets, where the cadets were taught about NCC and the IAF and about moral values which made them responsible citizens.

**The NCC cadets have organized the following events in 2020 – 21:**

The torch bearers (online series)	03/06/2020 - 25/06/2020
Trailblazers	02/07/2020
Independence Day (Poster and Video)	15/08/2020
AIM, CLICLK, CAPTURE (Photography contest)	20/08/2020 - 01/09/2020
Breast Cancer Awareness Programme	22/10/2020 - 02/11/2020
Webinar on Civil Services Examination	07/11/2020
Online Quiz Contest	16/01/2021
Online Treasure hunt contest	14/02/2021



**UDAAN RAKSHAK Series**



**Breast Cancer Awareness Programme**

**NATIONAL SERVICE SCHEME (NSS)**

National Service Scheme (NSS) is a permanent youth programme under the Ministry of Youth Affairs and Sports, Government of India. The motto of NSS is "Not me but you". Although, due to the prevailing pandemic situation the NSS had restriction in performing regular activities and this didn't stop the motto of the NSS. This year NSS had organized series of SOCIO talks through online mode with well-known personalities serving the society. These SOCIO talks had got overwhelming response in terms of participation and discussion.

**1. SOCIO-TALK SERIES**

This socio-talk series interviews guests who are involved in works for the well-being of the society, the interview is then released on NSS- NITT Facebook, IGTV and YouTube.

**SOCIO TALK - 1**

The 1<sup>st</sup> talk was held on 12<sup>th</sup> August 2020 given by Dr. Nishi Khanna, a Celebrity Psychologist, a renowned TEDx speaker, radio and TV panelist, Depression Counsellor. On account of International Youth Day she addressed on mental health issues faced by the youth of today an interactive interview with 244 participants. With 20 years of experience she addressed the problems and provided suggestions for the students.

**SOCIO-TALK - 2**

On 6<sup>th</sup> September 2018, government of India read down the section 377 of the Indian Penal code, decriminalising gay sex. LGBTQ + inclusion of this etiquette, which should be adopted seriously by the people mainly students irrespective of the community which they live in. To overcome this challenge and to commemorate the 2<sup>nd</sup> year celebration of the community acknowledgement, NSS-NITT conducted an interactive session with the renowned LGBTQ+resource group, Harishchandra Ramdas, Kumaresh and Priya Sharma (Founding and Leading members of SAATHI), of IIT Bombay which was streamed over IGTV, Facebook and You tube with 754 participants.

**SOCIO-TALK - 3**

Periferry is a socially inclusive organisation, which works as a ferry for the people struggling at the periphery of the society. It is very important for the student community to know about the problems the LGBTQ community face which this session spoke about. An Interactive Socio-Talk with Neelam Jain, the Founder and CEO of PeriFerry, and an active worker in the well-being of Transgenders was organized which attracted 330 participants.

**SOCIO-TALK - 4**

A Nation's wealth is hidden in it's natural wealth; Tribal community is the hidden backbone of a country's wealth. This Socio talk had 3 highlighted the hidden wealth of our country along with Right Livelihood Awardee - Medha Patkar, who has actively participated in Narmada Bachao Andolan, and also contributed a lot in uplifting the lives of the North-East tribal community with 313 participants.

**SOCIO-TALK - 5**

The NSS-NITT interviewed Aditi Gupta, a social entrepreneur, women's health activist, and the co-founder of Menstrupedia. The company works towards helping people understand about puberty in women and men by publishing both entertaining and informative content on various media. This session had taught us how important it is to talk about puberty and not to consider it as an embarrassing topic.

## SOCIO-TALKS - 6

On the occasion of Autism Awareness Day, a session with the Dr. Merry Barua, Director of National Centre of Autism was interviewed. She spoke about the disease Autism which is an inability to communicate and how Autism patients should be treated. Dr. Merry Barua informed the participants about the basic manners to be followed while approaching autism patients and how they take care of them.



Series of SOCIO Talks

## 2. CLASS QUIZ

On account of Ek Bharath Shreshtha Bharath Scheme, a class quiz was organised for Computer Science and Engineering department volunteer on 20<sup>th</sup> April 2021. The quiz was conducted in four rounds. Students learnt about the varied diverse culture of Indian subcontinent and the necessity of Unity among the states.

## 3. COVID AWARENESS QUIZ

To increase the awareness among students regarding COVID conditions around the world and necessary precautions to be taken, a quiz titled "COVID AWARENESS" was conducted among NSS volunteers to increase the awareness about COVID and its safety. It was conducted on MS Teams where 236 students actively participated. Students came to know new information, safety precaution, and overall condition of COVID around the globe.

## SPORTS ACTIVITIES

In an unprecedented year that was marred with many difficulties, everyone in NIT Tiruchirappalli has adapted. For the Sports Council and Contingent, it was no different and it have tried its best to keep the contingent and the rest of campus involved through the various events that are conducted throughout the year. It had to overcome several obstacles and has been a great learning experience for all involved. The council could conduct interesting events through online and also contributed to the campus development.

### 1. Online events conducted

#### **Sportsfete Fantasy – IPL Auction and Fantasy League**

Sportsfete along with Delta conducted an online fantasy league which gave cricket fans a chance to experience a live auction and put all their knowledge to use in selecting the best team to win the fantasy league. The participants could register in teams of three members. A total of 50 teams participated putting the total number of participants at 150.

#### **Sports Quiz**

Sportsfete in association with Balls by Picasso conducted a Sports Quiz exclusive to the students of NIT Tiruchirappalli to test their knowledge in sports for a chance to win exciting prizes. It was conducted from the 19<sup>th</sup> to 21<sup>st</sup> of February 2021. A total of 150 students participated in the quiz.



**Posters of Sportsfete Fantasy and Sports Quiz**

#### **Pitch Prophet by Sportsfete**

Sportsfete organized the Pitch Prophet event on the Dream11 platform, which was a knock-out based event that gave the participants a chance to put their IPL knowledge to use

by picking their teams on match days and competing against each other. The top 3 teams won merchandise of their favorite IPL teams. It was conducted from 5<sup>th</sup> to 10<sup>th</sup> November 2020 and had a total participation of 120 students.

### **Sports Day'21**

The sports Council conducted the Sports Day 2021 via YouTube on 29<sup>th</sup> April 2021. The Chief Guest was Indian Athletics Team Chief Coach, Mr.P. Radha Krishnan Nair. It involved the Report Presentation for the years 2019-20 and 2020-21 as well as the announcement of winners. In terms of participation, it has been viewed by 590 people in total.



**Sports Day 2021**

## **2. Campus Development Initiatives**

### **Synapse Webinar Series – ‘Careers in Sport after Graduation’**

The Sports Council in collaboration with NITTSAC organized the Synapse Webinar series to help students understand the opportunities and careers available to them in sports and fitness and learn from the experiences of the alumni of our college who are professionals in their chosen fields.

**Webinar 1** – by Badri Narayanan, Sports Psychologist and Mental Condition Coach, Batch of 1998, ECE. It was conducted on 28<sup>th</sup> March 2021 with a live audience of about 70 people and has been viewed by 200 people in total

**Webinar 2** – by Harish Balachandran, Founder and Fitness Coach at HarrysFMS, Batch of 2008, EEE. It was conducted on 1<sup>st</sup> May with a live audience of about 60 people and has been viewed by 160 people in total.



**Webinar by Badri Narayanan,  
Sports Psychologist and Mental Condition Coach**

**Techno Gym**

The Sports Council was involved in assisting the administration with the opening of the Techno Gym on campus. With the opening of the new gym, students will have access to high quality equipment, once they return to campus, which will definitely help them train and achieve their fitness goals.



**NITT Techno Gym Inauguration**

SPORTS COUNCIL MEMBERS (2020 - 21)	
Manikhandan M S	Chairman
Jayendhra Shiva	Secretary
TL Vaishnavi	Associate Secretary
Mridhul Subash	Organizing Head
Isaac M Varghese	Overall Coordinator
Sanjay Anand	Treasurer

### Activities in Pictures



**Greening of NIT Campus**



Capacity Building Programme



Chemical Engineering Department Golden Jubilee Building Inauguration by Shri.Ramesh Pokhriyal 'Nishank', Union Minister of Education (Govt. of India) on 20<sup>th</sup> October 2020



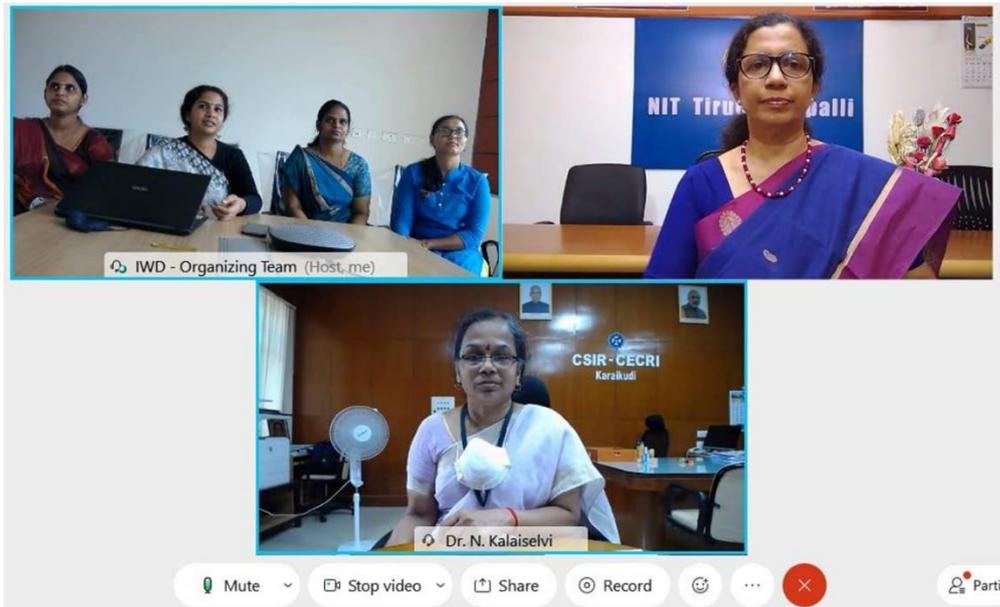
16<sup>th</sup> Convocation (First ever in blended mode) held on 7<sup>th</sup> November 2020



Director honoring the Chairman, BOG - 16<sup>th</sup> Convocation



President Medal Winner – 16<sup>th</sup> Convocation



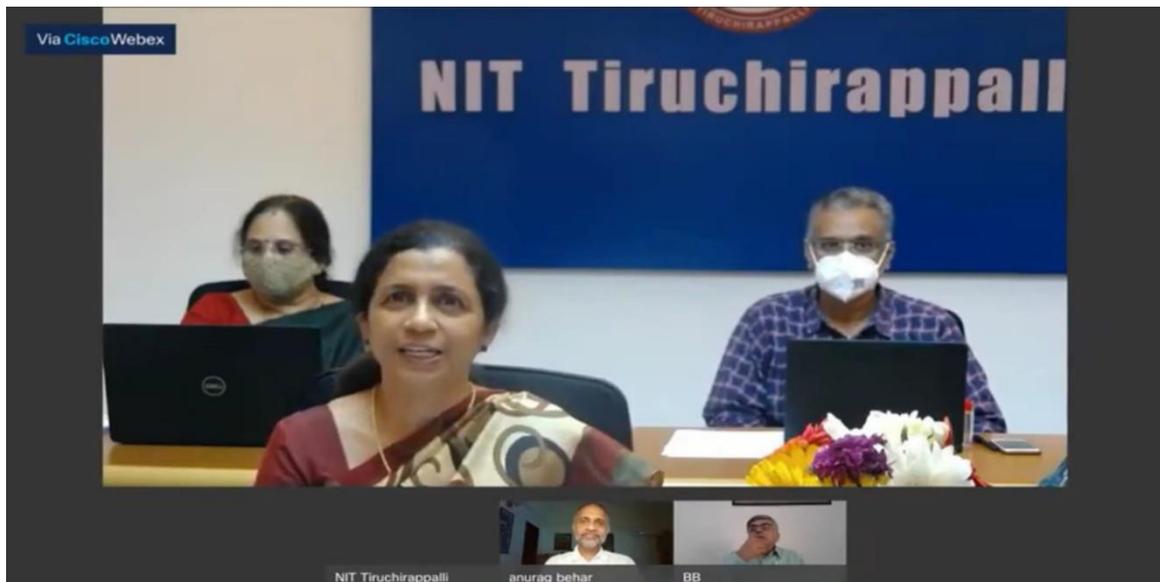
**Women's Day Celebration**



**72nd Republic Day Celebration**



**Honoring COVID Warriors during 74th Independence Day Celebration**

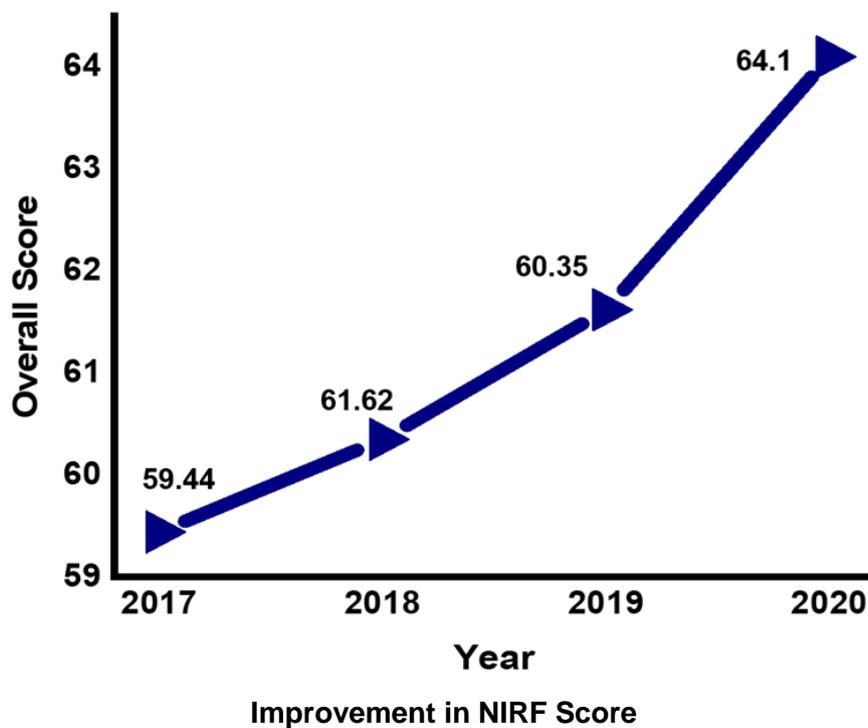
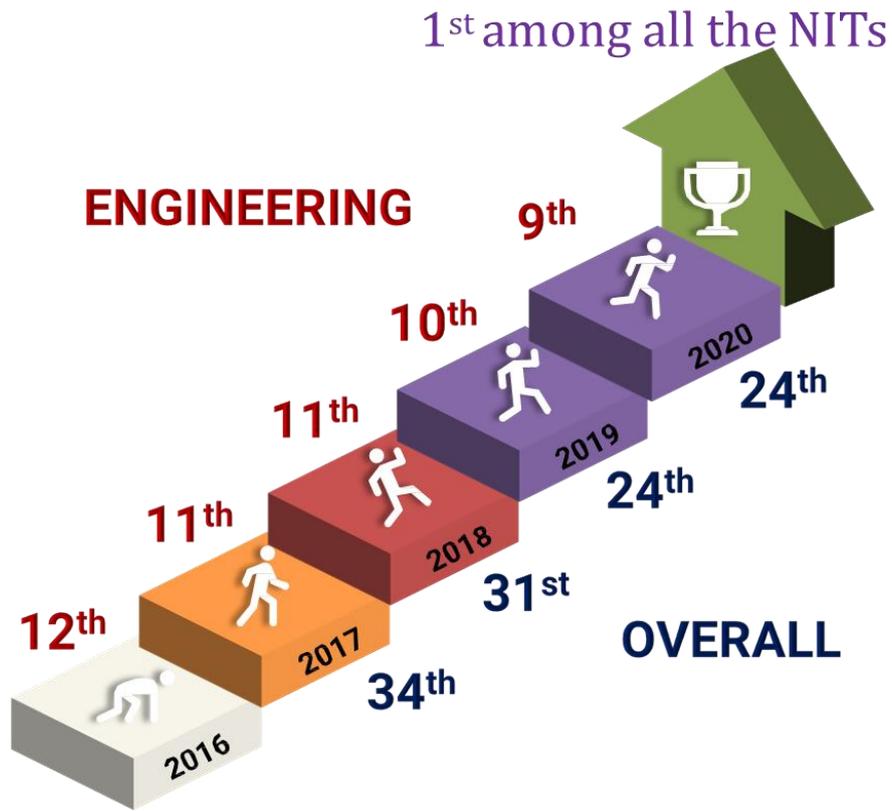


**Webinar on NEP 2020 with Shri. Anurag Behar, CEO of Azim Premji Foundation as the keynote speaker on 7<sup>th</sup> August 2020**



**Institute Day 2020**

### NIRF INDIA RANKINGS 2020





**COVID Vaccination Camp at NIT Tiruchirappalli**



**NIT Tiruchirappalli extended its support to Trichy Administration by facilitating a COVID CARE CENTRE with 500 beds to aid the locality**



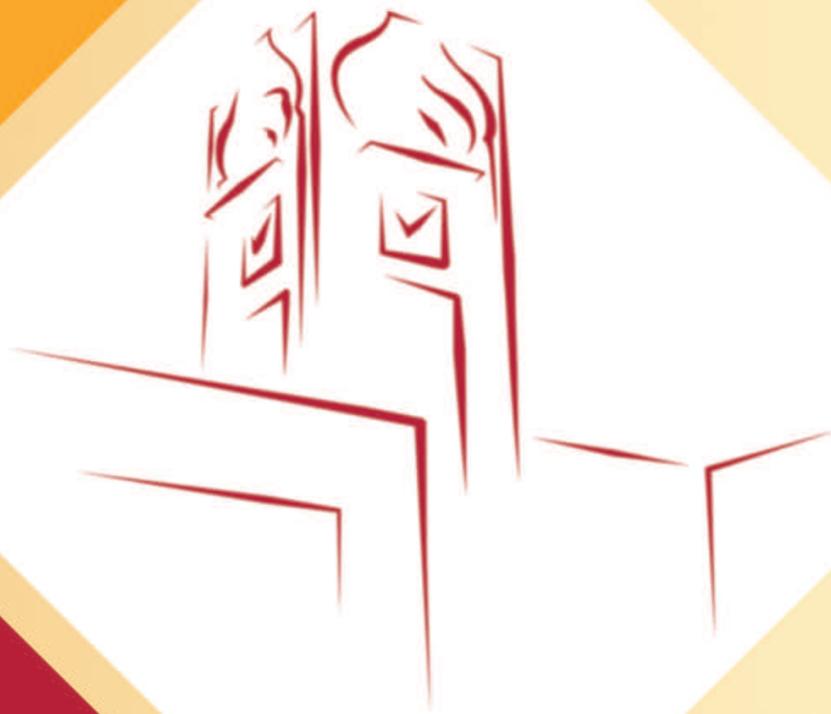
**RECAL The Alumni Association of REC/NIT Trichy supported the needy due to pandemic through RECAL Cares initiative**

## MEMBERS OF STUDENTS' COUNCIL

<b>President</b>	<b>: Kamalesh Khanna</b>
<b>Vice President</b>	<b>: Fathima Maha</b>
<b>General Secretary</b>	<b>: Rahul Ramesh</b>
<b>Joint Secretary</b>	<b>: Arunesh Arulkumar</b>
<b>Secretary (PG)</b>	<b>: Rishabh Mohan Tripathi</b>
<b>Secretary (PG / Girls)</b>	<b>: Sruthi P M</b>
<b>Secretary (MS/Ph.D.)</b>	<b>: Nivedha B</b>
<b>Social Secretary</b>	<b>: S Sanjay Kumar</b>
<b>Technical Secretary</b>	<b>: Kishore V</b>
<b>Sports Secretary</b>	<b>: Jayendhra Shiva</b>
<b>Cultural Secretary</b>	<b>: Saicharan Kalyanaraman</b>

## EDITORIAL TEAM

**Dr. Mini Shaji Thomas, Director**  
**Dr. Ramakalyan Ayyagari, Dean (Academic)**  
**Dr. T. Sivasankar, Associate Dean (Academic)**  
**Dr. R. Gandhimathi, Associate Professor, Civil Engineering**  
**Dr. B. Janet, Assistant Professor, Computer Applications**



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