

National Institute of Technology Tiruchirappalli - 620 015

Institute Day 2016

25th April, 2016

Annual Report



INSTITUTE D&Y 2016



April 25, 2016





National Institute of Technology Tiruchirappalli-620 015, Tamilnadu, India.

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Report on Academic Excellence

-Dr. S. Arul Daniel

The Chief Guest of the Institute Day 2016, **Shri. S. Gopinath,** Executive Director, BHEL, Tiruchirappalli, **Dr. Srinivasan Sundarrajan**, Director, NIT Tiruchirapplli, Deans, Registrar, Heads of the Department, Faculty, Staff, Mr. Rajat Sanklecha, President, Students' Association, Ms. Hemapriya, Vice President, Invited guests, the Press and the other media representatives

GOOD EVENING AND A WARM WELCOME

National Institute of Technology, Trichy has carved a mark on the National Scene this academic year by being ranked first among all the NITs and 12th among all the technical institutes in the country by the National Institute Ranking Framework of the Government of India. On this occasion we proudly recognize the significant contributions of the faculty members and the students' in taking this Institute forward. NITT also won the prestigious **CII-AICTE best industry linked institute** competing among IITs, NITs and IIITs. The Institute also received national level awards from FICCI for social excellence and from ASSOCHAM for best Institute to use ICT tools.

As a matter of fact, among the top reputed technical institutes of the country, NITT has reached the pinnacle in academic reforms and research. The Academic Conclave conducted during this year has set the Institute on a road to major academic transformation. The Senate of the Institute has approved the deliberations of the Conclave and has endorsed the introduction of flexible curriculum, minor specializations; flipped classrooms based on course plans and new evaluation models.

The Institute this year also undertook a major peer review process by bringing in experts from IITs, leading industries and able educationalists. The critical comments of the reviewers were quite helpful in striving further to reach global standards. Further, NBA accreditation for all post graduate programmes has been sought to ensure that our excellence stands on par with the Institutes worldwide. In the first instance, the NBA teams for accrediting M.Tech. Programmes in Communication Systems, Materials Science and Engineering, Transportation Engineering and Management, Chemical Engineering and Power Systems, visited the Institute during the month of April.

The Institute recognized 30 of its distinguished Alumni this year by conferring Distinguished Alumnus Award on them. A new award Young Alumnus Achievers Award was instituted this year and five Alumnus received this award.

The students of NITT had proved their mettle this year also by sustaining their placement records at higher percentages despite global sluggishness. The overall percentage of placements as on 21.04.2016 for under graduate programme is 94% and Post Graduate Programme is 73%. The placement process is still in progress.

With a commitment to free and open inquiry, the faculty members and students in NITT take an interdisciplinary approach to research that spans from science to engineering. A total of 480 Journals have been published in Scopus and 302 articles are published in Web of Science. The faculty members had organied 44 workshops in emerging research areas.

I now bring out the significant contributions of various departments in taking the Institute to greater heights.

- Dr. N. Anantharaman received the 'Best Engineer Award' for his meritorious services to the Engineering fraternity and the society at large by the Institution of Engineers (India), Tiruchirapalli local Chapter. Meera Sheriffa Begum K.M, and Anantharaman N wrote a book on "Advances in Bio-process Technology" published by Springer.
- Dr. R. Karvembu along with few others wrote a chapter on "Carbon materials supported nanostructures in catalysis", in the book "Chemical Functionalization of Carbon Nanomaterials: Chemistry and Applications", published by Taylor & Francis, CRC Press, USA. Dr. S. Anandan received a project for Rupees 26 Lakhs titled "Medium Band Gap Donor-Acceptor Conjugated Polymers towards fabrication of Bulk Heterojunction Solar cells" from DST.
- Dr. C. Natarajan received ICI- Ultratech Endowment Award- 2015 for "outstanding concrete structure of Trichy District". Dr. G. Swaminathan was awarded a project worth 2 Lakhs to develop Methodologies for Safe Disposal of Missile Canister after Firing by the DRDL.
- Dr. K. Muthukkumaran received Keynote Paper Award from GEOMATE, Japan.

Koppala Guravaiah of the Computer Science Department received the best paper award in the Eleventh International Multi Conference on Information Processing, Bangalore. Amrith Rajagopal Setlur, third year Computer Science and Engineering student received the President Gold Medal for best academic performance (Delhi Region) in 2015.

Dr. M. Venkata kirthiga received the Distinguished Alumnus Award in Academics, from Anjalai Ammal Mahalingam Engineering College, Kovilvenni, Thiruvarur. Dr. Sishaj P Simon,

wrote a book titled "Soft Computing With MATLAB Programming" published by Oxford University Press. Dr. S. Senthilkumar awarded a project for Rs. 21 lakhs to study the dynamic loading of conveyer drive heads in mine from NLC.

Dr.N.P. Gopalan received the prestigious "Eminent Engineer" award from the Institution of Engineers (India).

Seema Tirkey and Nitesh Jha won third prize in poster presentation in the Telemedicine congress.

Dr. Ramkalyan received a project for Rs. 50 lakhs to Model Driven Engineering for Integration Industrial Automation Systems with Application to Water Networks from ABB.

Dr.P.Sathiya was awarded a project for Rs. 29 Lakhs to perform a comparative study on the weldability of high strength aluminium-magnesium alloy from SERB. Dr. S. Prasanna Venkatesan received a project for Rs. 17 lakhs from SERB.

Dr. G. Kannabiran along with other awards also won the Emerald Indian Management Research Fund Award 2016 from Napier University, UK, for a Research proposal on Determinants of Effective Strategic Positioning of University Business Incubators in India.

Dr. K. Murugesan won the Tamil Nadu Scientist Award from the Government of Tamil Nadu.

Prof. S.S.Arulappan won the international best research paper award from the International Journal of Mechanical and Production Engineering Research and Development. Dr. S. Suresh had obtained projects worth Rupees 60 Lakhs from the DST. Dr. R. Anand received a project worth of Rs.17 lakhs from SERB. Dr.S.P.Sivapirakasam and Dr.K.R.Balasubramanian were awarded a project for Rs. 20 Lakhs from DRDO.

Dr. V. Muthupandi won the First prize in the Metallographic contest in the category of 'Light microscope', conducted by Indian Institute of Metals. Dr. S. Natarajan was recognized by Taylor and Francis for his outstanding review of articles. Dr. S. Kumaran and

Dr. S. Muthukumaran received projects for Rs. 14 lakhs and Rs.11 Lakhs respectively from ISRO.

Dr. A. Chandrabose was elected as fellow of the Tamil Nadu Academy of Sciences.

The Computer Support Group headed by Dr. Ramakalyan has internet Bandwidth upgraded to 150 Mbps (1:1) through STPI. The CSG from this year is operating the Pearson/GMAC's authorized online testing center for the GMAT examination for the benefit of

the students from NIT-T as well as students from Trichy and nearby places. So far, 5 students have appeared for the GMAT examination through this center.

Twenty Four NCC cadets appeared 'B' certificate examination on 12th & 13th March, 2016 and Seven cadets appeared for "C' Certificate examination on 26th March 2016, conducted by NCC directorate.

Our sports teams participated in UDGOSH'15,Conducted by I.I.T KANPUR and won lots of prizes. Our athletes won lot of medals in the BOSM'15 Sports Meet At BITS Pilani. Our team also won lot of prizes and medals in the All India Inter NIT Sports Meet.

The presence of Eminent scientists Mr. Abhas Mitra, the Indian astrophysicist and Dr. Archana Sharma, the only Indian Scientist at the LHC project in CERN during Pragyan 2016 made the event very colourful.

The 41st edition of Festember'15 was undoubtedly one of the best of its kind. The fest successfully matched up to the expectations from the previous editions. In addition to this, the publicity and the sponsorships this year were unparalleled. This edition, the fest hosted 63 events, 7 workshops and numerous fun-filled informal events. This culminated into an incredible footfall of over 5000 participants from various colleges across the country. Further, the pro shows and the guest lecture series enhanced the glamour quotient of this 4- day extravaganza.

The Technical Education Quality Improvement Programme (TEQIP II) had also immensely contributed to the development of infrastructure and teaching and learning needs of the Institute.

The institution partner with the neighbouring industries and research institutes through MoU on innovative initiatives to promote collaborative research and consultancies with local benefits and replicable outcomes. NITT is continuously driving to dig deeper, push further, and ask bigger questions - and to leverage the knowledge to enrich all human life.

INSTITUTE DAY PRIZE WINNERS (2016) / B.Tech. / B.Arch.

B.Tech. / CHEMICAL ENGINEERING

Batch	Rank	Roll	Name	CGPA
		Number		
	1	102111008	ANIRUDH RAJARAM	9.81
2011	2	102111064	VIKRAM RAGHAVENDHAR R	9.49
	2	102111059	SWATI CHAUHAN	9.49
	3	102111011	DEVESH PATIDAR	9.33
	1	102112041	N HARINI	9.81
2012	2	102112048	PRASHANTHI BALAJI	9.6
	3	102112052	R BHARATH VENKATESH	9.33
	3	102112064	SUNKARA SUSHMA	9.33
	1	102113012	B SOUNDARYA	9.93
2013	2	102113009	ARVIND PARI	9.74
	3	102113056	SHRUTI SINHA	9.54
	3	102113016	CHARULATHA B	9.54

B.Tech. / CIVIL ENGINEERING

Batch	Rank	Roll	Name	CGPA
		Number		
	1	103111057	PIYUSH AGARWAL	9.59
	2	103111044	KAVIN KUMAR R	9.29
2011	3	103111052	NIKITAA SIVAAKUMAR	9.24
	3	103111015	ANURAG SAURAV	9.24
	1	103112092	SIDDHANT CHANDRA	9.76
2012	2	103112083	S GIRISH	9.7
	3	103112071	PAVITHRAA S	9.65
	1	103113030	CHAVA TRIVENI	9.82
2013	2	103113042	KANCHARLA VINUTHA	9.75
	3	103113052	MANEPALLI PRIYUSHA LAKSHMI	9.64

B.Tech. / COMPUTER SCIENCE AND ENGINEERING

Batch	Rank	Roll	Name	CGPA
		Number		
	1	106111029	D PARAMESWARAN	9.86
2011	2	106111015	ANUSHA HOLLA	9.51
	3	106111037	HARISH K	9.49
	1	106112012	ARJUN B	9.93

2012	1	106112033	HARI NARAYANAN S	9.93
	2	106112056	M LAKSHMI	9.86
	3	106112005	AKHILA YERUKOLA	9.7
	1	106113009	AMRITH RAJAGOPAL SETLUR	10
2013	2	106113091	SUBHAM ROY	9.83
	3	106113021	CHALLA BHAVYA	9.56
	3	106113031	HAR SIMRAT SINGH	9.56

B.Tech. / ELECTRICAL AND ELECTRONICS ENGINEERING

Batch	Rank	Roll	Name	CGPA
		Number		
	1	107111029	D SUZITH	9.81
2011	2	107111097	VISHNU NARAYAN V	9.47
	3	107111005	ABILASH G	9.42
	1	107112030	GURU PRAANESH R	10
2012	1	107112031	GURU RAGHAV R	10
	2	107112074	ROUNAK MEYUR	9.87
	3	107112069	RAMITHA SUNDAR	9.5
	1	107113077	ROSHINI DEVI K L	9.63
2013	2	107113032	HIMANSHI YADAV	9.6
	3	107113086	SATRUJIT MOHANTY	9.54

B.Tech. / ELECTRONICS AND COMMUNICATION ENGINEERING

Batch	Rank	Roll	Name	CGPA
		Number		
	1	108111052	PRASANNA R	9.93
2011	1	108111102	VIKAS SAKARAY	9.93
	2	108111017	CHANDRASEKHAR S	9.72
	3	108111014	BARATH J	9.4
	1	108112102	VINAYAK SURESH	10
2012	2	108112027	DASARI BHAVYA SRI	9.82
	3	108112066	REISHI KUMAAR T	9.8
	1	108113045	K VIGNESHRAM	9.59
2013	2	108113059	NEELI SRINIKETHAN	9.55
	3	108113011	AMMINENI BALAJI	9.5

B.Tech. / INSTRUMENTATION AND CONTROL ENGINEERING

Batch	Rank	Roll	Name	CGPA
		Number		
	1	110111064	RAHUL SRIVASTAVA	9.8
2011	2	110111050	P SRILAKSHMI	9.73
	3	110111090	VANAPALLI APARNA LATHA	9.49

2012	1	110112071	S DEEPAK	9.7
	2	110112030	HARISH K	9.6
	3	110112042	KADIRI MANASA	9.56
2013	1	110113064	PRAKASH V	9.51
	2	110113086	SUDHARSHAN SURESH	9.4
	3	110113007	AKHIL CHALLA	9.34

B.Tech. / MECHANICAL ENGINEERING

Batch	Rank	Roll	Name	CGPA
		Number		
	1	111111083	S VIJAY	9.48
2011	1	111111047	KARTHIK VIJAYAKUMAR	9.48
	2	111111043	K SATISH	9.38
	3	111111006	ADYASHA DASH	9.3
	1	111112090	SUBRAMANIAM B	9.64
2012	2	111112103	VIKASH KUMAR	9.53
	3	111112064	PADMEYA PRASHANT INDURKAR	9.49
	1	111113083	SIDDHANT DWIVEDI	9.69
2013	2	111113102	VUPPALA R K SAMPATH SAI	9.48
	3	111113032	I CHILTON FRAZER	9.44

B.Tech. / METALLURICAL AND MATERIALS ENGINEERING

Batch	Rank	Roll	Name	CGPA
		Number		
	1	112111009	APOORVA SARAF	9.93
2011	2	112111008	ANANYA RAJAGOPAL	9.71
	3	112111035	PREETHI S	9.49
	1	112112058	VRINDAA SOMJIT	10
2012	2	112112027	KUNDURU TEJASWINI	9.6
	3	112112032	MUKKA ANUDEEP	9.49
	1	112113001	ADARSH S S	9.94
2013	1	112113062	YASHVI SINGH	9.94
	2	112113015	HARIPRIYA K	9.64
	3	112113037	PAVITHRAA DEVI A	9.53

B.Tech. / PRODUCTION ENGINEERING

Batch	Rank	Roll	Name	CGPA
		Number		
	1	114111047	NACHIAPPAN V	9.71
2011	2	114111052	PONNARASI RANJANA S	9.69

	3	114111056	R ARVIND SRIVATSAN	9.4
	1	114112072	RANGARAJAN P	9.91
2012	2	114112065	PRAVIN NATH J	9.87
	3	114112003	ABHISHEK SHARMA	9.73
	1	114113062	R ARAVIND	9.73
2013	2	114113083	SREENIVAS V	9.63
	3	114113074	S P KANNAN	9.58
	3	114113073	S KARTHIK SUNDARAM	9.58

B.Tech. / I YEAR (2014)

Batch	Rank	Roll	Name	CGPA
		Number		
	1	103114082	S R GIRISH KUMAAR	10
2014	2	112114059	V ARTHI	9.96
	3	107114068	NANDA KISHORE V	9.89

B.Arch. / ARCHITECTURE

Batch	Rank	Roll	Name	CGPA
		Number		
	1	101110018	MONICA S	9.11
2010	2	101110037	DEVIKA PRAKASH	8.22
	3	101110011	VIVEKARASAN M	8.04
	1	101111038	IVANA RAKSHIT	8.94
2011	2	101111048	TANVI MODI	8.83
	3	101111037	ROSHITA SUDHIR	8.58
	1	101112043	SWETHA BHARGAVI A	9
2012	2	101112021	LAKSHMI K AJAYAN	8.61
	3	101112042	SUSAN ANN ABRAHAM	8.43
	1	101113006	ANAGHA D	9.45
2013	2	101113018	JESLU CELINE JACOB	8.86
	3	101113044	SNEHA MARIA VARGHESE	8.59
2014	1	101114023	PRIYA S	9.66
	2	101114006	B AMREETA	9.64
	3	101114038	STEPHY ANN TOMY	9.39

INSTITUTE DAY PRIZE WINNERS (2016) / M.Tech. / M.Sc. / MCA / MBA

M.Tech. / CHEMICAL ENGINEERING

Batch	Rank	Roll	Name	CGPA
		Number		
	1	202113012	TUSHANT GHODE	9.67
2013	2	202113025	TIWARI MOHIT MANOJ	9.16
	3	202113024	MADHU NISHA R	9.06
	1	202114022	MALLURI SAI VIJAYA KRISHNA	9.12
	2	202114003	GAYATHRY L	9.1
2014	3	202114012	ANUPAMA KRISHNAN	8.98
2014	3	202114023	RELANGI	8.98
			VENUGOPALAKRISHNAGOWDA	

M.Tech. / ENERGY ENGINEERING

Batch	Rank	Roll	Name	CGPA
		Number		
	1	202313003	REMYA G	9.88
2013	2	202313015	PISHARODY ASHWIN R	9.47
	3	202313009	ANUPAM KRISHNAN	9.36
	1	202314018	RAGHU KRISHNA MOORTHY	9.79
2014	2	202314009	CHATRAGADDA PRIYANKA	9.57
	3	202314023	SRAVYA VALLU	9.05

M.Tech. / PROCESS CONTROL AND INSTRUMENTATION

Batch	Rank	Roll	Name	CGPA
		Number		
	1	202213018	VIVEK A	9.56
2013	2	202213019	VINOD SHARMA	9.37
	3	202213010	RONISH SIMON	9.29
2014	1	210114024	JIJO BENNI	9.27
2014	2	210114007	SREEDEVI GOPINATH	9.02
	3	210114002	G SRUTHI	8.88

M.Tech. / TRANSPORTATION ENGINEERING AND MANAGEMENT

Batch	Rank	Roll	Name	CGPA
		Number		
	1	203113004	KARTHIK K R	9.27
2013	2	203113029	PRAVEEN S B	9.15
	3	203113026	NOOJILLA SATYA LAKSHMI	9.14

			APARNA	
2014	1	203114021	BUSH B THOMAS	9.29
2014	2	203114023	BRAMHESWAR DAS	9.24
	3	203114015	RAJKUMAR A S	9.21

M.Tech. / STRUCTURAL ENGINEERING

Batch	Rank	Roll	Name	CGPA
		Number		
	1	203213023	POTHULA SATYANARAYANA	8.82
2013	2	203213019	MACCHA HEMANTH YADAV	8.64
2013	3	203213015	SABAREESAN M	8.5
	3	203213020	KRIPANJITH V P	8.5
2014	1	203214002	MUNUKUTLA SAIKRISHNA	9.62
	2	203214006	HITESH AGARWAL	8.81
	3	203214003	AMARA SATISHKUMAR	8.57

M.Tech. / ENVIRONMENTAL ENGINEERING

Batch	Rank	Roll	Name	CGPA
		Number		
	1	203413022	DHIVYA S	9.18
2013	2	203413017	ASWATHY P	9.15
	3	203413001	JINISHA R	9.11
2014	1	203414019	KIRTI TAMTA	9.5
2014	2	203414024	NANDHINI S	9.24
	3	203414009	ADDAGADA LAVANYA	9.12

M.Tech. / CONSTRUCTION TECHNOLOGY AND MANAGEMENT

Batch	Rank	Roll	Name	CGPA
		Number		
	1	203514006	SUBRAJA R	9.63
2014	2	203514003	PALLAVI ANAND	9.55
	3	203514015	SACHIN RANA	9.08

M.Tech. / COMPUTER SCIENCE AND ENGINEERING

Batch	Rank	Roll	Name	CGPA
		Number		
	1	206113004	VIDYA T	9.95
2013	2	206113001	ANNAM RAJA SHEKHAR REDDY	9.42
	3	206113020	SANJIV KUMAR	9.18
2014	1	206114004	BORKAR PRAKASH TOLIRAM	9.72

	1	206114006	DHANANJAY KUMAR DUBEY	9.72
	2	206114026	REVATHI UDDARAJU	9.58
	3	206114023	HEMANTHKUMAR S	9.22

M.Tech. / POWER ELECTRONICS

Batch	Rank	Roll	Name	CGPA
		Number		
	1	207213028	HASANAPURAM PRIYANKA	9.24
2013	2	207213007	CHINTHAKINDHI VINAY	9.21
	3	207213002	YALLA VAMSHIDHAR REDDY	9.19
	1	207214006	VIJAYANARAYANAN S	9.24 9.21
2014	2	207214024	AKHIL KRISHNAN M S	9
2014	2	207214002	NIPUN MANIRAJAN	9
	3	207214014	HARI KRISHNAN T	8.84
	3	207214021	KADI BHAGYA SRI	8.84

M.Tech. / POWER SYSTEMS

Batch	Rank	Roll	Name	CGPA
		Number		
	1	207113008	ARAVINDRAJ A	9.71 9.56 9.32 9.84 9.76 9.68
2013	2	207113020	AGILIN PRASANTINI A	
2013			KANDALA NAGA SAI UMA	
	3	207113006	MAHESH	9.32
	1	207114002	S KISHORE REDDY	9.84
2014	2	207114024	PATIL VIRENDRA PRAKASH	9.56 9.32 9.84 9.76
	3	207114019	KONDRAPU ANUSHA	9.68

M.Tech. / COMMUNICATION SYSTEMS

Batch	Rank	Roll	Name	CGPA
		Number		
	1	208113003	P SRIRAM	9.71
2013	2	208113007	K CHAITANYA	9.45
	3	208113024	VINAY KUMAR B	9.3
2014	1	208114009	VEENA K	9.45
	2	208114014	SOURABH SINGH RAJPUT	9.29
	3	208114032	MAHESULA SAMATHA	9.17
	3	200114032	SESHACHALAPATHI	9.17

M.Tech. / VLSI SYSTEM

Batch	Rank	Roll	Name	CGPA
		Number		
	1	208213010	SHAH VIRAG HARESHKUMAR	9.48
2013	2	208213008	RAHUL P R	9.45
	3	208213002	DEVAREDDY MOKSHA	9.21
2014	1	208214018	THODIGOTLA SRINIVASA TEJA	9.71
2014	2	208214023	SANGEETHA M V	9.29
	3	208214012	KOTTAPALLI SUPRAJA	9.26

M.Tech. / INDUSTRIAL SAFETY ENGINEERING

Batch	Rank	Roll	Name	CGPA
		Number		
	1	211213025	SURAJ VERMA	9.67
2013	2	211213012	MINHAJ AHMED ANSARI	9.38
	3	211213009	S SAI KUMAR	9.06
2014	1	211214024	SINGAMSETTY VAMSHI KRISHNA	9.54
2014	2	211214020	BINAZ V	9.46
	3	211214001	ELDHOSE P ALIYAS	9.33

M.Tech. / THERMAL POWER ENGINEERING

Batch	Rank	Roll	Name	CGPA
		Number		
	1	211313029	VEEPURU BHARGAVI	9.56
2013	2	211313027	SATHISHKUMAR J	9.54
	3	211313020	AKASH SHRIVASTAVA	9.41
2014	1	211314010	SARAVANA KUMAR B	9.59
2014	2	211314026	GURDEEP SINGH	9.51
	3	211314028	BOGADI NAVEEN KUMAR REDDY	9.41

M.Tech. / MATERIALS SCIENCE AND ENGINEERING

Batch	Rank	Roll	Name	CGPA
		Number		
	1	212213004	JITHIN THOMAS K	9.38
2013	2	212213005	KOUSIK POLLEY	9.09
	3	212213018	BALACHANDIRAN B	9.06
2014	1	212214003	JAYDEEP SAHA	9.55
2014	2	212214011	NAMBIAR ROHITH RAGHAVAN	9.18
	3	212214013	SIDDI PRASHANTH	9.15

M.Tech. / INDUSTRIAL METALLURGY

Batch	Rank	Roll	Name	CGPA
		Number		
	1	212313005	NUTAN NIHARIKA	9.34
2013	2	212313002	SRIDHARAN G	9.33
	3	212313004	ABHIJITH S	9.06
2014	1	212314015	SUBRAHMANYAM ADABALA	9.47
2014	2	212314019	GARUGU MIDHUN KUMAR	9.3
	3	212314013	SANJAY SINGH	9.19

M.Tech. / WELDING ENGINEERING

Batch	Rank	Roll	Name	CGPA
		Number		
	1	212113010	MORE SACHIN ASHRUBA	9.94
2013	2	212113009	MADIGA NEELAKANTA	9.45
	3	212113017	NISHANTH M V	9.17
2014	1	212114016	KAJVE AMRUT SHAHURAO	9.71
2014	2	212114006	VISHNU S J	9.54
	3	212114026	KESAVAMOORTHY M	9.34

M.Tech. / INDUSTRIAL ENGINEERING AND MANAGEMENT

Batch	Rank	Roll	Name	CGPA
		Number		
	1	214213027	RAMYA C	9.29
2013	2	214213022	N SREEPHANI POOJA	9.03
	3	214213007	SUJITH S	8.98
2014	1	214214019	AGRAWAL RAHUL SUNIL	9.36
2014	2	214214001	WANKHEDE VISHAL ASHOK	9.33
	3	214214014	KANAV MAHAJAN	9.31

M.Tech. / MANUFACTURING TECHNOLOGY

Batch	Rank	Roll	Name	CGPA
		Number		
	1	214113023	RISHABH SHRIVASTAVA	9.32
2013	2	214113032	KRISHNANUNNY S	9.06
	3	214113035	BATTA VISWESWARA	8.98
2014	1	214114029	BOOPATHY S	9.42
2014	2	214114028	CHOCKALINGAM C	9.36
	3	214114015	BADDAM BHASKAR REDDY	9.11

M.Tech. / NON-DESTRUCTIVE TESTING

Batch	Rank	Roll	Name	CGPA
		Number		
	1	213113027	ANISH CHANDRAN	9.52
2013	2	213113023	MANU JOSEPH	9.48
2015	2	213113003	AKHIL B S	9.48
	3	213113029	SUBHASH KONER	9.38
2014	1	213114023	MANAS MISHRA	9.65
2014	2	213114027	RAJEEV J	9.48
	3	213114028	TORANE VAIBHAV VIJAY	9.35

M.Sc. / OPERATIONS RESEARCH AND COMPUTER APPLICATIONS

Batch	Rank	Roll	Name	CGPA
		Number		
	1	216113011	GAYATHRI N	9.6
2013	2	216113017	R SAHITHYA PRIYAMVADHA	9.01
	3	216113016	KARTHIKA S	8.93

M.Sc. / COMPUTER SCIENCE

Batch	Rank	Roll	Name	CGPA
		Number		
2014	1	216214009	MONISHA DEVI M	9.39
2014	2	216214011	JAYASURYA S	9.13
	3	216214015	SARVIKA SPJ	8.55

M.Sc. / CHEMISTRY

Batch	Rank	Roll	Name	CGPA
		Number		
	1	204113001	SWAMINATHAN SRIVIDYA	9.12
2013	2	204113018	VINAYBHARADWAJ B S	9.07
	3	204113013	KALPANA P	9.03
2014	1	204114008	R HARITHA	9.39
2014	2	204114005	TANYA MARIA D' ROZARIO	9.03
	3	204114003	M KEERTHANA	8.79

M.Sc. / PHYSICS

Batch	Rank	Roll	Name	CGPA
		Number		
	1	213213006	V M M SAIPAVITRA	9.72
2013	2	213213004	VISHAL K JOSE	9.43
	3	213213007	R PRIYANKA	9.22

	1	213214004	RAJANI K GANGADHARAN	9.42
2014	2	213214011	ABHINAV ANAND	9.16
	3	213214005	KAVYA MUKUNDAN	9.13
	3	213214002	BANGOLLA HEMANTH KUMAR	9.13

MBA / MANAGEMENT STUDIES

Batch	Rank	Roll	Name	CGPA
		Number		
	1	215113056	RAJESHWARI R	9.24
	1	215113092	REMYA G RAJAN	9.24
2013	2	215113009	BHATTARAM SAI DEEPIKA	9.18
	2	215113013	CHANNA N K CHAITANYA	9.18
	3	215113034	PARVEEN CHOUDHURY	8.94
2014	1	215114001	SHILPA SANKAR	9.7
2014	2	215114002	PRAMODH K P	9.05
	3	215114071	MADHUL JAIN	9.03

MCA / COMPUTER APPLICATIONS

Batch	Rank	Roll	Name	CGPA
		Number		
	1	205112011	VIKAS MEGHWANI	9.78
2012	2	205112018	PRANAY HIWASE	9.59
	3	205112004	POOJA DANGI	9.37
	1	205113003	SHOBHAN GARG	9.95
2013	2	205113019	DIVYA MEHTA	9.66
	3	205113024	NEETU DHIMAN	9.21
	1	205114001	SRISHTI GUPTA	9.68
2014	2	205114048	CHANCHAL CHOUHAN	9.5
	3	205114059	MONIKA LALWANI	9.21

ENDOWMENT AWARDS

S.	Name of the award	Roll No	Name
No.			
1.	Smt. G. S. Rajalakshmi memorial award presented to First three Rank holder upto	102112041	N HARINI
	VII Semester in Chemical Engineering.	102112052	R BHARATH
	v ii semestei m enemieai ziigmeering.		VENKATESH
		102112048	PRASHANTHI BALAJI
2.	Dr. M. Shanmugam award for the First	103112083	S GIRISH
	Rank holder upto VII Semester in Civil		
	Engineering.,		
3.	Sri. Karchae Endowment award for the	101110040	DEEPAK SIVADASAN
	best project in the Department of		
	Architecture		

_			T
4.	Sri. M.S. Balakumaran award for the best outgoing student of M.Tech. NDT	213114023	MANAS MISHRA
5.	Prof. S. Muthukaruppan Endowment award	107112074	ROUNAK MEYUR
J.	for the second Rank holder in EEE Branch	10/1120/4	ROOMAK WILTOK
	up to VII Semester.		
6.	Sri. Janardhana Iyengar memorial Award	107112030	GURU PRAANESH R
	for the best Academic Performance in just	10/112030	GURU FRAANESH K
	concluded academic year.	107112031	GURU RAGHAV R
7.	Smt. Seethamma memorial award for the	108112102	VINAYAK SURESH
	First Rank holder upto VII Semester in the		
	ECE Branch.		
	Dr. Sargurudoss memorial award for the	106114101	VEDURUPAKA
8.	Best performance in Mathematics in I Year		NAVEEN KUMAR
	B.Tech.		
9	Sri. Avinash memorial award for the best	110112030	HARISH K
10	outgoing male student of ICE branch	11011200	II DENHIICA
10	Sri. Avinash memorial award for the best	110112092	V RENUKA
11	outgoing female student of ICE branch	215114001	CHILDA CANIZAD
11.	Prof. Ibrahim / Dr.Sittaraman Award for the	215114001	SHILPA SANKAR
4.0	best outgoing student of DoMS	015111001	CHILD F C FAMILES
12.	Prof.Thirumalaiarasan Award for the	215114001	SHILPA SANKAR
	Topper in HR and OB Subjects in MBA		
13.	Srimathi Neela Balasubramanian Memorial	108112102	VINAYAK SURESH
	Award for best out-going student in ECE		
1.4	branch	114112065	DD A MAN NA THE I
14.	Karthik S Memorial Award	114112065	PRAVIN NATH J
	For the First Rank Holder upto VII semester in B.Tech Production		
	semester in B.Tech Production Engineering.		
15.	Smt. Vijayalakshmi Kannan Memorial	108112102	VINAYAK SURESH
13.	Award For the First Rank Holder upto VII	100112102	VIIVATAK SUKESIT
	semester in B.Tech. ECE		
16.	Late S.Doraiswamy Memorial Award	211214024	SINGAMSETTY
-0.	For the First Rank Holder upto III semester		VAMSHI KRISHNA
	M.Tech. industrial safety Engineering.		
17.	Sri. Ramanujam and Smt. Sundari	108114086	SHANKARI S
	Ramanujam Memorial Award for the first		
	rank holder in English in B.Tech.		
18	Mr.Subash Chandrabose Endowment	112112058	VRINDAA SOMJIT
	Award for the Best Outgoing in B.Tech.		
	MME		
19	Dr.T.Balasubramaniam Endowment Award	213214004	RAJANI K
	for the First Rank Holder in M.Sc Physics		GANGADHARAN
	in I and II Semester		
20	Dr.A.L.Abdus Sattar, Memorial Award for	108113045	K VIGNESHRAM
	the outstanding student in III year ECE	108113058	NANDHINI KUMAR
		<u> </u>	l

21.	Mr.Oisik Adak Endowment Award f "Best Creative Designer" in the Department	-	10111103	33 LINDA REEBA KOSHY
22	of Architecture		10111200)1 A LOUDIN
22.	1	or	10111300	
	excellence in the study and documentation	on	10111300	
	of vernacular architecture		10111300	
			10111300	
			10111301	0 ANWIN P S
			10111301	2 ASHISH RANJAN
			10111301	4 CHANDU SAI TARUN
			10111302	23 LIMI SURESH
				ENGOOR
23.	S J Chainulu Medal of Excellence (For the	e Fi	rst Rank H	older in First Year)
	1. Chemical Engineering		02114054	SHIBASHISH
				DEVIDUTTA JAYDEV
	2. Civil Engineering	1(03114082	S R GIRISH KUMAAR
	3. Computer science and Engineering	1(06114101	VEDURUPAKA NAVEEN
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			KUMAR
	4. Electrical and Electronics	1(07114068	NANDA KISHORE V
	Engineering		,, ,	
	5. Electronics and Communication	1(08114015	ARVIND NATARAJ S
	6. Instrumentation and Control		10114091	TINU HAREESSWAR R
	Engineering	1	10111071	III (O III II LEES WIII II
	7. Mechanical Engineering	1 1	11114055	KARTIK PRAKASH
	8. Metallurgical and Materials		12114059	V ARTHI
	Engineering	11	12117037	7 1111111
	9. Production Engineering	1 1	14114083	SNIGDHA NAGARAJAN
24.	Prof. J. Raja award (highest CGPA in all		15114001	SHILPA SANKAR
∠ 4 .	Accounting and Finance subjects in		13114001	SIILI A SAINKAK
	First Year MBA)			
	riist teaf MBA)			

25. Best NCC Cadet 111112106 VISHAL ASOKAN
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ALUMNI AWARDS (B.Tech. / B.Arch.)

Sl.	Department	Roll No.	Name	CGPA
No.				
1.	Architecture	101111038	IVANA RAKSHIT	8.74
2.	Chemical Engineering	102112041	N HARINI	9.78
3.	Civil Engineering	103112083	S GIRISH	9.61
4.	Computer Science and	106112012	ARJUN B	9.84
	Engineering			
5.	Electrical and Electronics	107112030	GURU PRAANESH R	9.97
	Engineering	107112031	GURU RAGHAV R	9.97
6.	Electronics and	108112102	VINAYAK SURESH	9.92
	Communication Engineering			

7.	Instrumentation and Control	110112030	HARISH K	9.69
	Engineering			
8.	Mechanical Engineering	111112064	PADMEYA PRASHANT	9.51
			INDURKAR	
9.	Metallurgical and Materials	112112058	VRINDAA SOMJIT	9.88
	Engineering			
10.	Production Engineering	114112065	PRAVIN NATH J	9.72

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

S.No.	Dept./Specialization	Roll. No.	Name	CGPA			
1.	Chemical Engineering						
	Chemical Engineering	202114003	GAYATHRY L	9.31			
2.	Energy and Environmental E	Energy and Environmental Engineering					
	Energy Engineering	202314018	RAGHU KRISHNA	9.83			
			MOORTHY				
3.	Civil Engineering						
	Transportation Engineering	203114021	BUSH B THOMAS	9.22			
	and Management						
	Structural Engineering	203214002	MUNUKUTLA SAIKRISHNA	9.26			
	Environmental Engineering.	203414024	NANDHINI S	9.19			
	Construction Technology and	203514006	SUBRAJA R	9.48			
	Management						
4.	Computer Science and Engin						
	Computer Science and	206114004	BORKAR PRAKASH	9.79			
	Engineering		TOLIRAM				
5.	Electrical and Electronics En			T			
	Power Systems	207214019	KONDRAPU ANUSHA	9.76			
	Power Electronics	207214006	VIJAYANARAYANAN S	9.22			
6.	Electronics and Communicat						
	Communication Systems	208114009	VEENA K	9.35			
		208114032	MAHESULA SAMATHA	9.35			
			SESHACHALAPATHI				
	VLSI System	208214018	THODIGOTLA SRINIVASA	9.56			
			TEJA				
7.	Instrumentation and Control			1			
	Process Control and	210114024	JIJO BENNI	9.43			
	Instrumentation						
8.	Mechanical Engineering			I			
	Thermal Engineering.	211314010	SARAVANA KUMAR B	9.69			
	Industrial Safety Engineering.	211214024	SINGAMSETTY VAMSHI	9.65			
			KRISHNA				
9.	Metallurgy and Materials En						
	Welding Engineering	212114016	KAJVE AMRUT	9.55			
			SHAHURAO				
	Materials Science and	212214003	JAYDEEP SAHA	9.65			
	Engineering.						

	_			
	Industrial Metallurgy	212314015	SUBRAHMANYAM	9.58
			ADABALA	
10.	Production Engineering	•		
	Manufacturing Technology	214114029	BOOPATHY S	9.54
	Industrial Engineering and	214214019	AGRAWAL RAHUL SUNIL	9.46
	Management			
11.	Physics	•		
	Non-Destructive Testing	213114023	MANAS MISHRA	9.5
	(M.Tech.)	213114028	TORANE VAIBHAV VIJAY	9.5
	Physics (M.Sc.)	213214004	RAJANI K GANGADHARAN	9.45
12.	Chemistry	•		
	Chemistry	204114008	R HARITHA	9.25
13.	Management Studies			
	Master of Business	215114001	SHILPA SANKAR	9.72
	Administration			
14.	Computer Applications			
	Master of Computer	205113003	SHOBHAN GARG	9.87
	Applications			
	Computer Science (M.Sc.)	216214003	SANTHIYA R	8.84

OTHER AWARDS (INSTITUTED BY RECAL)

Sl.	Name of the award	Roll No.	Name
No. 1.	Overall Outstanding Student of the year	111112064	PADMEYA PRASHANT INDURKAR
2.	Anand Chidambaram Memorial Award	102112012	ATMURI DATTA SAI HAREESH
3.	Outstanding Sportsman	111112016	ATHIP T
4.	Outstanding Sport Woman	112112024	KARTHEEPANA PAYAM
5.	Best Batsman of the year	110112006	AKSHAY P ROY
6.	Best Bowler of the year	111113054	NIKHIL CHAUDHARY

DEPARTMENT: ARCHITECTURE

1. Notable Achievements

1.1 Faculty Members: NIL

1.2 Students

S. No.	Name	Details of Prizes	Organization
		/ Awards	
1.	Nishant, Gokul	Hockey Gold	Sportsfete 2016
2.	Mariganka	Discuss Throw	Sportsfete 2016
		Gold	
3.	Biswajit Das	Powerlifting	Sportsfete 2016
		Gold	
4.	Nishant, Gokul	Swathkal Silver	Inter NIT
		medal	
5.	Second year and Third year	HUDCO and	Annual NASA 2015 Convention
	batch	Louis I Kahn	held in GCPIA, Surat
		Citation	
6.	Julian Divakar (3rd Year)	3rd Position in	Pragyan 2015
		L&T Ideation	
		Contest -	
		ScapeiOT	
7.	Jeslu Celine Jacob (3rd	1st Position in	Pragyan 2016
	Year)	Aakriti, the	
		Resilient Design	
		Competition	
8.	Ashish Ranjan, Sidharth	2st Position in	Pragyan 2016
	Kizhakkiveetil(3rd Year)	Aakriti, the	
		Resilient Design	
		Competition	
9.	Amit Kumar(3rd Year)	Best Player of	Inter NIT Sports Meet 2016
		the Tournament	
10.	Madam Mallikarjun (3rd	Honours position	Autodesk powered by Mindusmo
	Year)	at Autodesk	
		Product design	
		competetion	
11.	2 nd Year	Winner	Horizons 2015
12.	Stephy (2 nd Year)	3 rd place Girls	Sportsfete 2016
		Foodball	
13.	Stephy, Priya, Ritu (2 nd	1 st place Girls	Sportsfete 2016
	Year)	throwball	
14.	Yogesh, Jayakumar, Vimal	3 rd place Boys	Sportsfete 2016
	(2 nd Year)	Khokho	
15.	Jayakumar (2 nd Year)	2 nd Place Power	Sportsfete 2016
		lifting	_
16.	Jayakumar (2 nd Year)	3 rd Place Shotput	Sportsfete 2016
17.	Vimal (2 nd Year)	1 st place Mens'	Sportsfete 2016

		hockey	
18.	Aishwarya, Nanditha, Ankitha (2 nd Year)	3 rd place Girls Khokho	Sportsfete 2016
19.		1 st place Girls Basketball	Sportsfete 2016
20.	Alwin Mathew	Basketball	IIT kanpur (basketball tournament) Part of nitt basketball team Saastra (basketball tournament) Inter nit (basketball tournament) Aaveg Solo singing Solo dance Band Basketball Sportsfete Marathon(completed in time) Basketball Jhankaar
			Solo singing Group dance (1st place)
21.	Ashutosh Shukla	1st	Chakravyuh Aayam
		2nd	FESTEMBER Chakravyuh
		2nd	Aaveg Triple Tackle
		1st	Pragyan Design Challenge
			Aaveg Organiser
			Orientation Core for 2016 Batch
			Flight Cadet In N.C.C
22.		1st	NITTFEST Best Male Model
			NITTFEST Nukkad
			NITTFEST Extempore
			Festember Ambience
			Trichy Marathon
			Pragyan Ambience
23.	Chittari Tarun Kumar		Pragyan ambience,
			Archcult ambience,
			Archcult hospitality
			Archcult Publicity,
			Nittfest
24.	Dhruv Shah		Aaveg
		1st	Terribly Tiny Tales -
		1st	Basketball-
		1st	Movie making-
			Sportsfete
			Basketball and football (
			participation)

			Nittfest Manoranjan
25.	Ganesh Kumar	1st	Painting Competition Bangalore
26.	Himanshu Mewara		Nittfest Quizes
			Trichy Marathon
			Sportfete – Marathon
			Sportsfete - Kabaddi
			Nittfest – Qawali
			Nittfest Nukkad Natak
			Pragyan Labyrinth challenge
			AF Certified Ethical Hacker
27.	Ishaan Singhala		Sportfit cricket
	_	Bronze Medal	Sportfit kho-kho
			Nittfest quizzes
28.	M.Gowtham	1st	Aaveg Filmmaking
		2nd	Niitfest Tamil Play
29.	M.Gowtham Arvintham	1st	Pragyan Design Challenge
30.	Mavuduru Sukanya		Fashion Show
31.	Nirmal B. Pillai		Aaveg movie making
			Photography
			Athletics team Udgosh 2015
			The Thespian Society
			Member of Pixelbug
32.	Oishe Ghosh		Festember wall painting
			Dramatics for nittfest
		1st	Participated in collage,
33.	Rajneesh Kumar	2nd	Pragyan Design Challenge (Inhott)
		1st	Aaveg Bollywood Quiz
		3rd	Aaveg Movie Spoof
			Aaveg Shoot At Sight
			Organising Committee of Aaveg 2016.
			Aaveg Talk to Hand
			H.R for CORAL HOSTEL
34.	S.Joy Gloria	1st	Aaveg Tal To Talk
35.	S Varun Prasanth	1st	Painting Competition Bangalore
36.	Sahib Singh Chawla	2nd	Aaveg Band Wars
		1st	Channel Surfing
			Aaveg OC
37.	Sarath Muralidharan	1st	Aaveg Solo Dance
		1st	Nittfest Group Dance
38.	Shajitha Gajendran	1st	Jhankar group dance
		1st	Aaveg group dance
39.	Shirin Hussain		Flight Cadet In N.C.C

		1st	Aaveg group dance
40.	Snehal Nagras	1st	Aaveg Group Dance
		3rd	Sportfete Football
			Fashion Show
41.	T Srinivas Sarath		Athletics team Udgosh 2015
			IIT kanpur (Athletic Tournament)
			Flight Cadet In N.C.C
42.	Venkatlaxmi	1st	NITTFEST-Villupaattu
		2nd	Eastern Duet
		2nd	Aaveg Solo singing
43.	Vevin Nikhil Subhash	1st	Aaveg group dance
			Part Of Dance TROUP NITT
		2nd	Aaveg Solo Dance
44.	Viyyapu Jaya Surya	1st	Pragyan Design Challenge

2. Conference

2.1. Organised

International: NIL

National: NIL

2.2. Papers presented by the Faculty / Students

International

micina	i Olimi	
S. No.	Author(s)	Details
	D.Kannamma and A. Meenatchi Sundaram,	1. Empirical study on the interaction between vegetation and street geometry elements towards ambient urban microclimate. Presented in International Conference on Sustainable Technologies in Building & Environment (ICSTBE-2015) held at Satyabhama University, Chennai, India, during 15 th to 17 th July 2015.

National: NIL

3. Workshops / Seminars

3.1. Organised: NIL

3.2. Attended: NIL

- 4. Invited / Guest Lectures Delivered by the Faculty NIL
- 5. Sponsored Projects undertaken NIL
- 6. Major Equipment / Software Purchased (More than Rs. 5.00 lakhs.) NIL
- 7. Research papers Published in National / International Journals

7.1. Faculty

International Journal

S. No.	Title	Author(s)	Journal	Year Vol. (No.)
				Page
1.	Implications of	D.Kannamma and	Key Engineering	2015, Vol 650
	Building Material	A. Meenatchi	Materials, Trans	(2015) pp 82-90
	Choice on	Sundaram,	Tech Publications,	
	Outdoor		(ISSN: 1662-	
	Microclimate for		9795)	
	Sustainable Built			
	Environment,			

National Journal

S. No.	Title	Author(s)	Journal	Year Vol. (No.)
				Page
1	Significance of	D.Kannamma and	Journal of	Vol. 3, No. 1, June
	Microclimatic	A. Meenatchi	Today's Ideas	2015 pp. 95–109
	Study in Urban	Sundaram,	Tomorrow's	
	Canyons towards		Technologies	
	Ambient Urban		,(ISSN Print: 2321	
	Space Design		– 3906 , ISSN	
			Online: 2321 –	
			7146)	
2	Empirical study	D.Kannamma and	Indian Concrete	July 2015,
	on the interaction	A. Meenatchi	Journal	Volume 89 pp 20-
	between	Sundaram,	(ISSN: 00194565)	27,
	vegetation and			
	street geometry			
	elements towards			
	ambient urban			
	microclimate			

7.2. Students International Journal NIL

National Journal NIL

8. Ph.D. Awarded NIL

- 9. Details of Books authored by faculty NIL
- 10. Patent if any obtained by faculty NIL
- 11. Other Important Points NIL

12. Summary

S.No.	Details	Total Nos.			
1.	International Journals	1			
2.	National Journals	2			
3.	International Conference Publications	1			
4.	National Conference Publications	nil			
5.	Sponsored Project	No's:	NIL	Amount:	NIL
6.	No. of Ph.D. Produced	NIL			
7.	No. of Patents obtained	NIL			
8.	No. of books published	NIL			

DEPARTMENT: CHEMICAL ENGINEERING

1. Notable Achievements

1.1 Faculty Members:

Dr.N.Anantharaman received the 'Best Engineer award' from Institution of Engineers (India) Tiruchirappalli local centre during the 48th Engineers' day celebrations on 15.09.2016 inview of his meritorious services to the Engineering fraternity and the society at large.

1.2 Students

SPECIAL ACHIEVEMENTS (B Tech, IV YEAR)

- **Bharath Venkatesh** final year B Tech , Chemical Engineering has got a GRE score of 340/340 .
- V Mahesh final year B Tech, Chemical Engineering has got 99.2 percentile in CAT.

M.Tech (Chemical Engineering)

S.No	Name	Details of Prizes/Awards	Organisation
1.	Mr.Vinit Nair	internship as a part of	Bosch ,Banglore
		dissertation work	
2.	Mr.SrinivasKuchibotla	internship as a part of	Bosch ,Banglore
		dissertation work	
3.	Mr.AniketBhate	internship as a part of	Genral Electric
		dissertation work	Banglore
4.	Mr.Ram Bilas	internship as a part of	Genral Electric
	Dhakkad	dissertation work	Banglore
5.	Mr.Krupa Krishna	internship as a part of	Praxair, Banglore
		dissertation work	
6.	Mr.ArjunRavikumar	internship as a part of	Petroleum Institute,
		dissertation work	Abu Dhabi.
7.	Mr.Vikas Kumar	internship as a part of	University
		dissertation work	Technology
			Malaysia

B.Tech (Chemical Engineering) INTERNSHIPS (III YEAR)

S.No	Name	Details of Prizes/Awards	Organisation
1.	Amrutha Raghu	Summer Intern and Winter Intern	NUS, IISc, TATA Chemicals, Gujarat.
2.	Arvind Pari	Summer Intern and Winter Intern	JNCASR, MITACS, DAAD
3.	Anushka Mishrra	Summer Intern and Winter Intern	CSIR, Bhubaneshwar,

			IIT Bombaby, 2016
4.	B Soundarya	Summer Intern and Winter Intern	SN BOSE,
			MITACS, DAAD,
			IAS SRFP, IIT-D,
			IIT-G
5.	Sruti Dammalapati	Summer Intern and Winter Intern	Dr Reddy's, 2016
			*Summer Intern, IIT
			Madras.
6.	Neeraj Kumar	Summer Intern and Winter Intern	ITC
	Jaligam		
7.	Lekshmi Unnithan	Summer Intern and Winter Intern	NTU, COIM Asia
			Pacific, Singapore
8.	Shruti Sinha	Summer Intern and Winter Intern	MITACS
			IAS
			IIT-D
9.	Souvik Mondal	Summer Intern and Winter Intern	Sterlite Tech.,
			ESSAR Steel India
10.	Sushmita Preetu	Summer Intern and Winter Intern	P&G, CSIR-NAL
	Binil		
11.	Vadapalli V.S.	Summer Intern and Winter Intern	IIT Madras,
	Akhila		IIT Bombay
12.	Yatharth Srivastava	Summer Intern and Winter Intern	PT. Gunnunh
			Garuda, Indonesia

AWARDS/ACADEMIC ACHIEVEMENT (III YEAR)

S.No	Name	Awards/Academic Achievement
1.	Amrutha Raghu	*2 nd , Solo Eastern Singing, NITTFest
2.	Arvind Pari	*Paper submitted for book chapter, Elsevier Journal
3.	Anushka Mishrra	*Poster presentation, CRSI, 2015
4.	B Soundarya	*Paper submitted for book chapter, Elsevier Journal *Cargill Global Scholaeship Award *All India Rank 1, Indian Engineering Olympiad, 2016 *IET Regional Round Runner Up
5.	Sruti Dammalapati	*Paper submitted for book chapter, Elsevier Journal
6.	Shruti Sinha	*All India Rank 21, Indian Engineering Olympiad, 2016
7.	Souvik Mondal	*Paper submitted for book chapter, Elsevier Journal, 2016 *1st, Sangam, 2015
8.	Yatharth Srivastava	*1 st , Delta-T, Pragyan, 2016

	*2 nd , Model Making, Alchemy, 2015

SPORTS ACHIEVEMENTS (III YEAR)

S.No		
1.	Aman Kumar	*2 nd , Powerlifting, IIT Kanpur, 2015
	Bakolia	*3 rd , Powerlifting, NIT Trichy, 2015
		*3 rd , Powerlifting, Inter NIT, 2016
		*1 st , Powerlifting, Sportsfete, 2016
2.	Anushka Mishrra	*2 nd , Throwball, Sportsfete, 2015
		*2 nd , Basketball, Sportsfete, 2015
		*1 st , Basketball, Sastra, 2016
3.	B Soundarya	*1st, Badminton, Sportsfete, 2014
		*2 nd , Badminton, Sportsfete, 2016
		*3 rd , Freestyle, Sportsfete, 2015
4.	Sruti Dammalapati	*1st, Basketball, Udhgosh 2015
	_	*1st, Basketball, Sastra, 2015
		*1 st , Basketball, Sportsfete, 2015
5.	Ganti Lavanya	*3 rd , Freestyle Relay, Sportsfete, 2015
6.	Lekshmi Unnithan	1 st , Football, Sportsfete, 2015
		1 st , Basketball, Sportsfete, 2015
		1 st , Marathon, Sportsfete, 2015
		2 nd , Throwball, Sportsfete, 2015
		2 nd , Tennis, Sportsfete, 2015
		1 st , Basketball, Udghosh, 2015
		1 st , Basketball, Sastra, 2016
		1 st , Football, Sportsfete, 2015
		1 st , Marathon, Sportsfete, 2015
		2 nd , Discus throw, Sportsfete, 2015
		2 nd , 1500m relay, Sportsfete, 2015
		3 rd , Throwball, Sportsfete, 2015
		3 rd , 800m run, Sportsfete, 2015
7.	Sushmita Preetu	*3 rd , Freestyle relay, Sportsfete, 2015
	Binil	*1 st , Football, Sportsfete, 2016
8.	Vadapalli V.S.	*2 nd , Throwball,Sportsfete, 2015
	Akhila	

INTERNSHIPS (IV YEAR)

S.No	Name	Details of Prizes/Awards	Organisation
1.	N Harini	Summer Intern and Winter Intern	MITACS
2.	Manan Dosi	Summer Intern and Winter Intern	MITACS
3.	R Bharath Venkatesh	Summer Intern and Winter Intern	MITACS
4.	Pranav Sundaram	Summer Intern and Winter Intern	MITACS
5.	Manas Nigam	Summer Intern and Winter Intern	IN GEAR
6.	S Sanjuna	Summer Intern and Winter Intern	NUS
7.	Sushma Sunkara	Summer Intern and Winter Intern	Reliance Industries LTD
8.	Ads Hareesh	Summer Intern and Winter Intern	Reliance Industries LTD
9.	Abhinav Ramachandran	Summer Intern and Winter Intern	Reliance Industries LTD
10	Athanu Ashokan	Summer Intern and Winter Intern	SRF Limited
11	Anjana Rajmohan	Summer Intern and Winter Intern	SRF Limited
12	Tanaya Devi Choudhury	Summer Intern and Winter Intern	Procter and Gamble
13	K Vijaya Durga	Summer Intern and Winter Intern	Hindustan Unilever
14	J Sai Priyanka	Summer Intern and Winter Intern	Schlumberger
15	Raghavi K	Summer Intern and Winter Intern	Dow Chemicals
16	A Rohith Chaitanya	Summer Intern and Winter Intern	DRDL
17	Ashwin G	Summer Intern and Winter Intern	IIT Madras
18.	Vishal S Balashankar	Summer Intern and Winter Intern	IIT Madras
19.	Nandalal G	Summer Intern and Winter Intern	IIT Madras
20.	B Badrinath	Summer Intern and Winter Intern	Tebodin Middle East LTD. (Abu Dhabi)

SPORTS ACHIEVEMENTS (IV YEAR)

S.No	Name	Sports Achievements
1.	Naveen Kumar	CBSE South zone School tournaments: Gold, 2012
1.	T (d v con Trainer	CBSE national tournament : Bronze, 2012
		Aita National Men's maindraw qualified, 2012
		IIT karaghpur : bronze, 2012
		Inter NIT gold medallist, 2012
		Inter NIT Most valuable Player for Tennis, 2012
		Trichy District Third division Gold, 2012
		Named as Trichy district Tennis Team Captain, 2012
		IIT Kanpur udgosh tournament : Gold,2013
		IIT Kanpur udgosh Most valuable Player,2013
		Sastra colloseum national sports meet : silver,2013
		Inter NIT Sports meet : Gold,2013
		Inter NIT sports meet most valuable player,2013
		IIT Udgosh National sports fete: SILVER, 2015
		Sastra Colosseum national sports meet : Bronze, 2015
		Cm trophy District tournament second division : Gold, 2015
		Inter NIT National Tournament Tennis : Gold, 2015
		Inter NIT national tournament handball : Gold, 2015
		Inter NIT tennis 2015 Most valuable player Sports fete:
	Prabhuram	ALUMNI Institute day award for outgoing sportspersons(best
2.		bowler of the institute cricket team)
	Mohammed	3 rd place Inter NIT Calicut
3.	Wahajuddin Siddiqui	1 st Place IIT Kanpur Udghosh 2014
		Best Goal keeper in IIT Kanpur Udghosh 2015

2. Conference2.1 OrganisedInternational: Nil

National

S.No	Name	Programme	Period
1.	Dr.(Mrs.).P.Kalaichelvi	Women Entrepreneurship	27 th October 2015
		Ecosystem- Present and Future.	

2.2 Papers presented by the Faculty/Students

Faculty International

S.No	Authors	Details
1.	Sathishkumar,K., V.	"Real Time Modeling and Control of Three Tank
	Kirubakaran and	Hybrid System". International Conference on New
	T.K.Radhakrishnan	Frontiers in Chemical, Energy and Environmental
		Engineering (INCEEE-2015), March 20-21, 2015,
		National Institute of Technology, Warangal.
2.	Kranthikumar,M.,	"Control of Temperature in Cement Clinker Process
	V.Kirubakaran,	using Least Squares SVM Modeling", International
	K.Murugesan and	Conference on New Frontiers in Chemical, Energy and
	T.K.Radhakrishnan	Environmental Engineering (INCEEE-2015), March
		20-21, 2015, National Institute of Technology,
		Warangal.
3.	S.Karthika,	"Use of ionic liquids as alternate solvents for
	T.K.Radhakrishnan,	crystallization", CHEMCON-2015, Dec 27-30, IIT,
	P.Kalaichelvi	Guwahati.
4.	A.K.Shukla and	"Fuzzy aggregated Multilinear Internal Model based PI
	T.K.Radhakrishnan	controller design for non linear Continuous Stirred
		Tank Reactor, CHEMCON-2015, Dec 27-30, IIT
		,Guwahati.
5.	M.Kranthi Kumar,	"Control of temperature in Pre-Calciner of cement
	V.Kirubakaran,	manufacturing process using CBA based least squares"
	Murugasen, and	CHEMCON-2015, Dec 27-30, IIT ,Guwahati.
-	Dr.T.K.Radhakrishnan,	
6.	Powar,S.T., K.	"Comparative Study of Heat Transfer and Flow
	Muthamizhi, P.	Friction in Plate Heat Exchangers with Carboxymethyl
	Kalaichelvi and A.	Cellulose and Sodium Alginate", 4th International
	Arunagiri	Conference on Chemical and Biological Processes, 22-
7	D' 1 CW 1	24 November 2015, Dubai (UAE).
7.	Dinesh,G.K. and	"Synthesis and Sonophotocatalytic Activity of Fe(0)
	T.Sivasankar,	Doped TiO2Nanocatalyst on BB1 Dye Degradation",
		International Conference on New Frontiers in
		Chemical, Energy and Environmental Engineering
		(INCEEE-2015), March 20-21, 2015, Department of
		Chemical Engineering, National Institute of
0	Norimudhaar C and	Technology Warangal, (India). "Ultrasound Protrectment for Diamethonogenisis of
8.	Nazimudheen,G. and T.Sivasankar	"Ultrasound Pretreatment for Biomethanogenisis of
	1.Sivasaiikar	Landfill Leachate", International Conference on New
		Frontiers in Chemical, Energy and Environmental
		Engineering (INCEEE-2015), March 20-21, 2015,

	Department of Chemical Engineering, National Institute of Technology Warangal, (India).

National

S.No	Authors	Details	
1.	Shukla, A.K., K.Vedi,	"Fuzzy Aggregated Multilinear Linear Quadratic	
	V.Kirubakaran and	Regulator Nonlinear CSTR", Recent Trends in	
	T.K.Radhakrishnan .	Instrumentation and Control (RTIC 2015), March 13-14,	
		2015, MIT, Chennai.	
2.	Divyesh, V.R., H.K. Vedi,	"Adaptive explicit model predictive controller for coupled	
	V.Kirubakaran and	continuous stirred tank reactor using least squares support	
	T.K.Radhakrishnan ,	vector machines", Proceedings of Indian Control	
		Conference, 304-309, January 5-7, 2015, Indian Institute of	
		Technology Madras, Chennai, India.	
3.	Begum,K.M.M.S.,	"Modified chitosan: Synthesis, Characterization and	
	K.Sriram,	application towards biological activities" 17 th Chemical	
	P.Umamaheshwari,	Research Society of India (CRSI) symposium in	
	A.Ezhilarasu and	Chemistry, Pune, 2015.	
	G.Arthanareeswaran		
4.	Nazimudheen,G. and	"National conference "Innovations and New Horizons in	
	T.Sivasankar,	Algal Technology and Biotechnology" at Kamaraj college	
		of Engineering & Technology, Virudhunagar, (India).	

Students

International

S.No	Authors	Details
1.	ArathiBhaskaran, K.N.Sheeba Determination of thermal degradation kind	
		coal dust and sugar dust using thermogravimetric
		analysis in the conference proceedings of the
		International conference on energy efficient
		technologies for automobiles (EETA'15)
		organized by Anna University, Trichy campus
		during 20-21 st March 2015.
2	John Indulekha,	"Characterization of Citrus Peels for Bioethanol
	M.S.G.Siddarth and	Production" Accepted for Oral Presentation in
	A.Arunagiri	International Conference on Advances in
		Chemical Engineering (ICACE – 2015),
		NITKSurathkal, India – Dec20-22, 2015.

National

Authors(s)	Details
R. V. G. K. Gowda, M. S. Seshasayee and	A Review on Liquid to Air Membrane Energy
A. Arunagiri	Exchangers and Flow mal-distribution in
	LAMEE at Seminar on Heat Transfer and Fluid
	Flow-2015 organized at Asia Pacific Centre for
	Energy and Environment and IIT Madras during
	11 th February, 2016.

3. Workshops/ Seminars

3.1 Organised

S.No	Coordinator	Title	Period
1.	Dr.(Mrs.).P.Kalaichelvi	1.Conclave on "Strengthening	March 13 & 14,
		chemical Engineering curriculum	2015
		for the Present and Future	
		scenario"	
		2. Entrepreneurship Development	
		Programme on Women	15th – 20th
		Entrepreneurship	December 2015
2.	Dr.A.Arunagiri	Conclave on "Strengthening	March 13-14, 2015
		chemical Engineering curriculum	
		for the Present and Future	
		scenario"	

3.2 Attended

S.No	Faculty	Details
1.	Dr. P.Sivashanmugam	Experimental and Theoretical aspects of sonochemical effects in food emulsions, Moscow state University, Technologies and Management, Russia, 15 th -30 th Sep, 2015
2.	Dr. M.Arivazhagan	1. Waste and wastewater treatment: Recent advances, IITRoorkee, Jul 21-25, 2015 2. Nano-biotechniques (I WiSHNanoBio:2016) at IITRoorkee, Feb 9-14, 2016
3.	Dr.A.Arunagiri	1. Academic Reforms, Conclave ,April 28 – 29, 2015 2. Nano-biotechniques (I WiSHNanoBio:2016) at IITRoorkee, Feb 9-14, 2016

4.	Dr.N.Samsudeen	Electrochemical technologies in hydrogen production and utilization for electrical energy, Department of chemical engineering, IIT Delhi, 8 th & 9 th October 2015
5.	Dr M. Matheswaran	1. Electrochemical Technologies in Hydrogen Production and Utilization for Electrical Energy Oct 2015 2. Nano-biotechniques (I WiSHNanoBio:2016) at IITRoorkee, Feb 9-14, 2016
6.	Dr.T.Siva Shankar	Drinking water purification and industrial wastewater treatment, March 2015

Students: Nil

4. Invited /Guest Lectures delivered by the Faculty

4. Invited / Guest Deett	4. Invited / Guest Lectures derivered by the Faculty				
Faculty	Topic	Programme	Place & date		
Dr. P.	1.Curriculum	Conclave on	NIT, Trichy 14.03.2015 to		
Sivashanmugam	development for	Strengthening	15.03.2015		
	Chemical	chemical			
	Engineering	Engineering			
	2. Overall view				
	of Process				
	Instrumentation	Curriculum for the	Anna University, Trichy		
	Dynamics and	present and Future	14.12.2015 to 20.12.2015		
	control	Scenario			

5. Sponsored projects undertaken

Coordinator	Title of the Project	Sponsor	Amount(Rs
Dr. P. Sivashanmugam	Experimental and Theoretical aspects of Ultrasound in Food Emulsion	Indo-Russia	20 lakhs
Dr. N. Anantharaman	Miniaturized compact solar concentrators for water desalination/purification	DST-UKIERI	13.86 Lakhs
Dr.T.K.Radhakrishnan	Developing suitable pedagogical methods for	MHRD- NMEICT	28 lakhs

	various classes, intellectual calibers and research in e-learning		
	2. Instrumentation and Process Control	MHRD- NMEICT	7 lakhs
Dr. J. Sarat Chandra Babu	Experimental and Numerical Investigation of Gas - solid Reaction in a Tubular reactor,	BARC	
Dr. P. Kalaichelvi	Business and Management Capacity Development of Rural Women Entrepreneurs of India and Sri Lanka	The Asia Foundation	US\$ 55000
Dr. M. Matheswaran	1.Novel Energy Production from Distillery Effluent Treatment by Bio- electrochemical Method	Department of Biotechnology	22.80 lakhs

6. Major equipment/ Software purchased (more than RS. 5.00 lakh)

S.No	Equipment /Software	Amount (Rs. In lakhs)
1.	Shear Tester	30.00
2.	Servers	23.60
3.	pH control system	14.00
4.	Particle size Analyser	35.00
5.	Aspen one 5 years License	US\$10000
6.	Design Expert software (10 User license)	2.9 Lakhs

7. Research papers published in National/International journals

7.1 Faculty

International Journal

S.No	Authors	Title	Journal	Year Vol, (No)
				Page
1.	Hariharan, N.M., P.Siv	Studies on Performance of	Experimental Heat	2015, 28, 267–
	ashanmugam and S.	Thermoacoustic Prime	Transfer	281.
	Kasthurirengan	Mover.		
2.	Arun,C.	Investigation of bio	Journal of Process	2015, 94, 471–
	and P.Sivashanmuga	catalytic potential of	Safety and	478.
	m	garbage enzyme and its	Environmental	
		influence on stabilization	Protection,	
		of industrial waste		
		activated sludge.		

3.	Arun,C.	Solubilization of waste	RSC Adv	2015, 5,
3.	and P.Sivashanmuga	activated sludge using a	KSC Auv	,51421-51427.
	Q			,31421-31421.
	m	garbage enzyme produced		
		from different		
		preconsumer organic		
		waste		2017 11 20
4.	Arun,C.	Identification and	Waste management	2015, 44, 28-
	and P. Sivashanmuga	optimization of parameters		33.
	m	for the semi-continuous		
		production of garbage		
		enzyme from pre-		
		consumer organic waste		
		by green RP-HPLC		
		method		
5.	Mohammed,S., A.	Formation of polycyclic	Chemical Engineering	2015, 137, 91-
	Raj, A. A.Shoaibi and	aromatic hydrocarbons in	Science	105.
	P. Sivashanmugam	Claus process from		
		contaminants in H2S feed		
		gas.		
6.	Arulmozhi;M.,	Continuous Foam	Desalination and Water	2015, <u>53</u> (6),
	K.M.M.S.BegumandN	Fractionation of	Treatment	1664-1674.
	.Anantharaman	Chromium (Vi) Ions from		
		aqueous and Industrial		
		Effluents.		
7.	Begum, K.M.M.S.,	Preparation of Biodiesel	Env. Prog. &Sust.	2015, 34(1),
	S.Nijuand N.Ananthar	from Waste Frying Oil	Energy	248-254.
	aman	Using a Green and		
		Renewable Solid Catalyst		
		derived from Egg Shell		
8.	Begum, K.M.M.S.,	Preparation of Biodiesel	Env. Prog. &Sust.	2015, 34(1),
	S.Nijuand N.Ananthar	from Waste Frying Oil	Energy	248-254.
	aman	Using a Green and		
		Renewable Solid Catalyst		
		derived from Egg Shell.		
9.	Niju,S., M.Niyas,	KF-impregnated clam	Env. Prog. &Sust.	2015, 34(4),
	K.M.M.S.BegumandN	shells for biodiesel	Energy	1166–1173.
	.Anantharaman	production and its effect		
		on a diesel engine		
		performance and emission		
		characteristics		
10.	Mahesh,S.E.,	Biodiesel production	Energy Conversion and	2015, 91, 442-
	A.Ramanathan,	from waste cooking oil	Management	450.
	K.M.M.S.Begum and	using		
	N.Anantharaman	KBrimpregnatedCaO as		
		1 70	1	1

		catalyst.		
		j		
11.	Thuyavan,Y.L.,	Preparation and	Desalination	2015, <u>365</u> (1),
	N.Anantharaman,	characterization of TiO ₂ -		355–364
	G.Arthanareeswaran',	sulfonated polymer		
	A.F.Ismail and	embedded polyetherimide		
	R.V. Mangalaraja	membranes for effective		
		desalination application		
12.	Dhanuskodi,R.,	Artificial Neural Networks	Applied Thermal	2015, 90, 749–
	R.Kaliappan,	model for predicting wall	Engineering	775.
	S.Suresh,	temperature of		
	N.Anantharaman _. A.	supercritical boilers.		
	Arunagiri and			
	J. Krishnaiah			
13.	Kirubakaran,V.,	Energy efficient model	Ecotoxicology and	2015, 121,
	C.Sahu,	based algorithm for	Environmental Safety	236–243.
	T.K.Radhakrishnan	control of building HVAC		
	and N.Sivakumaran	systems.		
14.	Seban,L., V.	GOBF-ARMA based	Ecotoxicology and	2015, 121,
	Kirubakaran, B.K.Roy	model predictive control	Environmental Safety	110–115.
	and	for an ideal reactive		
	T.K.Radhakrishnan	distillation column.		
15.	Samsudeen,N.,	Performance comparison	Environmental Progress	2015, 34(2)
	T.K.Radhakrishnan	of triple and dual chamber	& Sustainable Energy	589-594.
	and M.Matheswaran	microbial fuel cell using		
		distillery wastewater as a		
		substrate		
16.	Subathra,B.,	A comparative study of	Systems Science &	2015, 3, 412–
	S.Sesahadri and	neuro fuzzy and recurrent	Control Engineering	426.
	T.K.Radhakrishnan	neuro fuzzy model-based		
		controllers for real-time		
15		industrial processes	T	2015 10 155
17.	Sivasankari, S. and	Exergy and Energy	International journal of	2015,18, 157-
	J.S.C. Babu	analysis of a	Exergy	175.
		100kWpmulticrystalline		
		solar photovoltaic array		
		system in a tropical		
10		savanna climate in India	.	2015 0 1 11
18.	Sivasankari, S. and	Theoretical prediction and	Frontiers in Energy	2015, 9, 1-11.
	J.S.C. Babu	validation of global		
		horizontal solar irradiance		
		for a tropical climate in		
1.0		India		2017100 150
19.	Sivasankari, S. and	Performance analysis and	Energy Conversion and	2015,100, 429-

	J.S.C. Babu	validation of 5MWp grid connected photovoltaic plant in south India	Management	439.
20.	Sivasankari, S., K.N.Sheeba and J.S.C. Babu	Grid connected photovoltaic systems: Challenges and Control solutions –A potential review	International Journal of Electronics and Electrical Engineering	Accepted
21.	Kavita, S. and J.S.C.Babu	Performance evaluation of photovoltaic cells using functionalized carbon nanotube and polyaniline film	Advances in Natural Sciences: Nanoscience and Nanotechnology	2015, 6(2), 025013.
22.	Sugashini,S. and K.M.M.S.Begum	Preparation of activated carbon from carbonized rice husk by ozone activation for Cr(VI) removal.	New Carbon material	2015,30(3), 250-260.
23.	Sugashini,S., K.M.M.S.Begum and A.Ramalingam	Removal of Cr(VI) ions using Fe-loaded chitosan carbonized rice husk composite beads (Fe-CCRCB): Experiment and quantum chemical calculations.	J. Mol. Liq	2015, 208, 380– 387.
24.	Begum,K.M.M.S.,S. Niju and N.Anantharaman	Preparation of Biodiesel from Waste Frying Oil Using a Green and Renewable Solid Catalyst derived from Egg Shell	Env. Prog. &Sust. Energy	2015, 34(1), 248-254.
25.	Mahesh,S.E., A.Ramanathan, K.M.M.S.Begum and N.Anantharaman	Biodiesel production from waste cooking oil using KBr impregnated CaO as catalyst.	Energy Conversion and Management	2015, 91, 442- 450.
26.	Niju,S., M.Niyas, K.M.M.S.Begum and N.Anantharaman	KF-impregnated clam shells for biodiesel production and its effect on a diesel engine performance and emission characteristics.	Env. Prog. &Sust. Energy	2015,34(4), 1166–1173.
27.	Tamilselvi,S. and P.Kalaichelvi	Review of Fluid Flow and Heat Transfer in Impinging Jet System.	Recent Trends in Fluid Mechanics	2015, 1(3), 1– 14.
28.	M. Dheenamma and	Numerical Study of Heat	Journal of Thermal	2015, 2(1), 15-

	P.Kalaichelvi	Transfer in Six Channeled Dimpled Plate Heat Exchanger.	Engineering and Applications	25.
29.	Pachathu,A., P.Kalaichelvi, K.N.Sheeba and A.Arunagiri	Microwave Assisted Preparation of Bagasse and Rice Straw for the Removal of Emulsified Oil from Wastewater	Bioremediation Journal	(Accepted).
30.	Augusta,P. and P.Kalaichelvi	Investigation on microwave and ultrasound-assisted cornhusk for the removal of emulsified engine oil from water.	Desalination and Water Treatment,	2015, 1-12.
31.	Arunagiri,A., P.Purushothaman, P.Kalaichelvi and R.Anantharaj	Separation of Methylene Blue Dye from Aqueous Solution Using Triton X- 114 Surfactant.	Journal of Thermodynamics	Aceepted
32.	David,C.,	Decolorization of	BioMed Research	Article ID
	M.Arivazhagan,	Distillery Spent Wash	International	195879, 9
	M.N.Balamurali and	Using Biopolymer		pages.
	D.Shanmugarajan	Synthesized by		
		Pseudomonas aeruginosa		
		Isolated from Tannery		
		Effluent.		
33.	David,C., M.	Spent wash	Journal of Saudi	2015, 19, 537–
	Arivazhagan and	decolorization using nano-	Chemical Society	548.
	M.Ibrahim	Al2O3 kaolin		
		photocatalyst: Taguchi and		
		ANN approach.		
34.	David,C., M.	Decolorization of	Ecotoxicology and	2015, 121, 142–
	Arivazhagan and F.	distillery spent wash	Environmental Safety.	148.
	Tuvakara	effluent by electro		
		oxidation (EC and EF) and		
		Fenton processes: A		
		comparative study.		
35.	R. Sathish Kumar, G. Arthanareeswaran,	Modification methods of polyethersulfone	Membrane Water Treatment. Techno Press	2015, 6 (4), 323-337.

	Diby Paul, Ji	membranes for		
	HyangKweon	minimizing fouling – Review,		
36.	R. Saranya, G. Arthanareeswaran, A. F.Ismail, Dion D Dionysiou and Diby Paul	Zero-valent iron impregnated mixed matrix membranes for the treatment of textile effluent.	RSC Advances	2015,5 (77), 62486-62497.
37.	S. Adithya Kiran, G Arthanareeswaran, YLThuyavan, AF Ismail	Influence of bentonite in polymer membranes for effective treatment of car wash effluent to protect the ecosystem	Ecotoxicology and Environmental Safety,	2015
38.	ArunaPagidi, Y. LukkaThuyavan, G. Arthanareeswaran, ,JuhanaJaafar, A .F. Ismail, Diby Paul	Polymeric membrane modification using SPEEK and bentonite for ultrafiltration of dairy wastewater	Journal of Applied Polymer Science	2015,132, 41651.
39.	A Sumisha, G Arthanareeswaran, AF Ismail, DP Kumar, MV Shankar	Functionalized titanate nanotube-polyetherimide nanocomposite membrane for improved salt rejection under low pressure nanofiltration	RSC Advances,	2015, 5 (49), 39464-39473.
40.	A Sumisha, G Arthanareeswaran, YLThuyavan, AF Ismail, S Chakraborty	Treatment of laundry wastewater using polyethersulfone/ polyvinylpyrollidone ultrafiltration membranes	Ecotoxicology and Environmental Safety.	2015
41.	R. Saranya, M. Kumar, R. Tamilarasan, A. F. Ismail, G. Arthanareeswaran	Polyphenylsulfone membranes modified with functionalised activated carbon for adsorption enhanced phenol removal	Journal of Chemical Technology and Biotechnology.	2015,DOI: 10.1002, jctb.4641
42.	M Kumar, R Tamilarasan, G Arthanareeswaran, AF Ismail	Optimization of methylene blue using Ca2+ and Zn2+ bio-polymer hydrogel beads: A comparative study	Ecotoxicology and Environmental Safety	2015
43.	R.Sathish Kumar, G Arthanareeswaran, D Paul, JH Kweon (2015)	Effective removal of humic acid using xanthan gum incorporated polyethersulfone membranes,	Ecotoxicology and Environmental Safety,	2015

44.	Parthiban, K.S. and	Nano sized heterogeneous	RSC Advances	2015,5, 11180-
	M Perumalsamy	acid catalyst from		11187.
		Ceibapentandra stalks for		
		production of biodiesel		
		using extracted oil from		
		Ceibapentandra seeds.		
45.	Sheeba,	Performance evaluation of	Energy Sources Part A	2015, 37, 291–
	K.N., P.Prakash and	a flat plate collector		298.
	S.Jaisankar	coupled solar still System.		
46.	Sheeba, K.N.,R.M.	A study on the underwater	Energy Sources Part A	2015, 37, 1505-
	Rao and S.Jaisankar	performance of solar		1512.
		photovoltaic panel.		
47.	Maddukuri,G., K.N.	Effect of co-firing coals	Energy Sources Part A	2015, 37,
	Sheeba, P.S. Biruli	of varying fuel		2047–2055.
	and S. Jaisankar	characteristics.		
48.	Prakash, P. and K. N.	Combined slow pyrolysis	International Journal of	2015, 39, 147-
	Sheeba	and steam gasification of	Energy Research	164.
		biomass for hydrogen		
		generation- A review.		
49.	Prakash, P. and K. N.	Effect of combined slow	Korean journal of	2015,32(11),
	Sheeba	pyrolysis and steam	chemical engineering,	2236-2246.
		gasification of sugarcane		
		bagasse on hydrogen yield		
50.	Reeshab,G.,	Kinetic analysis of	Waste and Biomass	6(6), 989-1002.
	P.Prakash, G.	biomass and comparison	Valorization	
	N.Kumar, B.N.Kumar	of its chemical		
	and K.N.Sheeba	compositions by		
		thermogravimetry wet and		
		experimental furnace		
		methods		
51.	Dhanuskodi,R., R.	Artificial Neural Networks	Appiled Thermal	90, 749-753.
	Kaliappan, S. Suresh,	model for predicting wall	Engineering.	
	N. Anantharaman, A.	temperature of		
	Arunagiri and J.	supercritical boilers		
	Krishnaiah,			
52.	Akbar,M.M.,	Density and excess	J Therm Anal Calorim	Accepted
	F.Chemat,	properties of N-		
	A.Arunagiri and	methyldiethanolamine		
	T.Murugesan	(MDEA) with 1-hexyl-3-		
		methylimidazoliumtris(pe		
		ntafluoroethyl)trifluoroph		
		osphate [hmim][FAP]		
53.	Naidu,L.D.,	Nanofiltration in	Journal of Chemistry	2015,
	S.Saravanan, M.Chida	Transforming Surface		326869,7.

	mbaram, M.Goel, A.Das, and J.S.C.Babu	Water into Healthy Water: Comparison with Reverse Osmosis		
54.	Samsudeen,N.,T.K.R adhakrishnan and M.Matheswaran	Bioelectricity production from microbial fuel cell using mixed bacterial culture isolated from distillery wastewater.	Bioresour. Technology	2015,195, 242- 247.
55.	Samsudeen,N.,T.K.R adhakrishnan and M.Matheswaran	Performance comparison of triple and dual chamber microbial fuel cell using distillery wastewater as a substrate.	Environ. Prog. Sustainable Energy	2015,34, 589- 594.
56.	Samsudeen,N.,A.Shar ma, T.K.Radhakrishnan and M.Matheswaran	Performance investigation of multi-chamber microbial fuel cell: An alternative approach for scale up system	J. Renewable Sustainable Energy	2015,7(4), 3101.
57.	Samsudeen, N., T.K.Radhakrishnan and M.Matheswaran	Bioelectricity production from microbial fuel cell using mixed bacterial culture isolated from distillery wastewater.	Bioresource technology	2015,195, 242- 247.
58.	Samsudeen, N., A.Sharma, T.K.Radhakrishnan and M.Matheswaran	Performance investigation of multi-chamber microbial fuel cell: An alternative approach for scale up system.	Journal of Renewable and Sustainable Energy	2015,7(4), 043101.
59.	Harshiny, M., M.Matheswaran, G.Arthanareeswaran, S.Kumaran and S.Rajasree	Enhancement of antibacterial properties of silver nanoparticles—ceftriaxone conjugate through Mukiamaderaspatana leaf extract mediated synthesis.	Ecotoxicology and environmental safety	
60.	Samsudeen, N., T.K.Radhakrishnan and M.Matheswaran	Performance comparison of triple and dual chamber microbial fuel cell using distillery wastewater as a substrate	Environmental Progress & Sustainable Energy.	2015,34(2), 589-594.
61.	Kurukutla,A.B.,	Intensification of	Environmental	2015 ,32(2),

	P.Satishkumar,	Sonochemical	Engineering Science	129-140.
	S.Anandan and	Degradation of		
	T.Sivasankar	Rhodamine B using		
		Oxidants, hydrogen		
		peroxide-		
		peroxydisulphate-		
		peroxymonosulphate with		
		Fe ²⁺ ion: Proposed		
		Pathsway and Kinetics		
62.	Saravanan.S. and	Ultrasound Assisted	Desalination and Water	2015, 56, 492-
o 2.	T.Sivasankar	Fenton's treatment of	Treatment	501.
		Reactive Black 5 dye:	110000110110	
		Effect of system		
		parameters, kinetics and		
		mechanism.		
63.	Hemapriyamvadha,R.	Sonophotocatalytic	Coloration Technology	2015, 131, 110-
	and T.Sivasankar	treatment of Methyl	Coloradian 100miology	119.
		Orange Dye and Real		117.
		Textile Effluent using		
		synthesized nano-Zinc		
		Oxide.		
64.	Dinesh,G.K.,	Sonophotocatalytic	RSC Advances	2015, 5, 10440-
01.	S.Anandan and	treatment of Bismarck	Tibe Havanees	10451.
	T.Sivasankar	Brown G dye and real		10131.
	1 ioi vasainiai	textile effluent using		
		synthesized novel Fe(0)		
		doped TiO2 catalyst.		
65.	Geddam,S.,	Determination of Thermal	Solar Energy	2015, 113,
05.	G.K.Dinesh and	Performance of a Box	Solar Energy	324-331.
	T.Sivasankar	Type Solar Cooker.		32. 331.
66.	Saravanan,S. and	Sono-Fenton degradation	Materials Focus	2015,4, 313-
00.	T.Sivasankar	of Basic Blue 3 dye:	Triaterials 1 deas	320.
		Understanding the		320.
		mechanism, parametric		
		effect and kinetic studies.		
67.	Saravanan,S. and	Synthesis of Copper	Journal of Catalyst &	2015, 2, 1-7.
٥,.	T.Sivasankar	Oxide Nanoparticles using	Catalysis	2010, 2, 1 /.
	- WITH MINIMI	Ultrasound for the	Cami j oio	
		Treatment of Textile		
		Organic Dyes (Reactive		
		Black 5 and Basic Blue 3).		
68.	Saravanan,S. and	Effect of ultrasound	Environmental Progress	(Accepted)
00.	T.Sivasankar	power and calcination	& Sustainable Energy	(Ticcopica)
	1 .DIV asalikal	temperature on the	& Sustamatic Energy	
		temperature on the		

		sonochemical synthesis of Copper Oxide nanoparticles for textile dyes treatment.		
69.	Reddy,D.R., G.K.Dinesh, S.Anandan and T.Sivasankar	Sonophotocatalytic Treatment of Naphthol Blue Black dye and Real Textile Wastewater using Synthesized Fe doped TiO ₂ .	Chemical Engineering and Processing: Process Intensification.	2016, 99, 10- 18.

National Journal

S.No	Authors	Title	Journal	Year Vol,
				(No) Page
1.	Mathew,R.K.,	Studies On Fluidized Beds	Indian Chemical	2015, <u>57</u> (_
	D.Aravind,	Using Disk Type Internals And	Engineer	<u>2</u>), 164-176.
	K.M.M.S.Begum	Modeling By ANN.		
	and			
	N.Anantharama			
	n			
2.	David,C.,	Performance Evaluation of	Indian Chemical	2015, 1–12.
	R.Narlawar and	MoringaoleiferaSeed Extract	Engineer.	
	M. Arivazhagan	(MOSE) in Conjunction with		
		Chemical Coagulants for		
		Treating Distillery Spent Wash.		

7.2 Students

International Journal

S.No	Authors	Title	Journal	Year Vol, (No) Page
1.	S. Adithya Kiran, G Arthanareeswaran, YLThuyavan, AF Ismail,	Influence of bentonite in polymer membranes for effective treatment of car wash effluent to protect the ecosystem,	Ecotoxicology and Environmental Safety,	121, (2015), 186-192
2.	Reddy, D.R., Dinesh, G.K., Anandan, S., Sivasankar,	T., Sonophotocatalytic Treatment of Naphthol Blue Black dye and Real Textile Wastewater using Synthesized Fe doped TiO ₂ ,	Chemical Engineering and Processing: Process ntensification,	2016, 99, 10-18.

3.	A Sumisha, G Arthanareeswaran, AF Ismail, DP Kumar, MV Shankar	,Functionalized titanate nanotube-polyetherimide nanocomposite membrane for improved salt rejection under low pressure nanofiltration	RSC Advances,	RSC 5 (49), (2015) 39464- 39473
4.	A Sumisha, G Arthanareeswaran, YLThuyavan, AF Ismail, S Chakraborty,	Treatment of laundry wastewater using polyethersulfone- polyvinylpyrollidone ultrafiltration membranes	Ecotoxicology and Environmental Safety	Elsevier 121, (2015), 174-179
5.	Dheenamma M, P. Kalaichelvi,	" Numerical Study of Heat Transfer in Six Channeled Dimpled Plate Heat Exchanger,	Journal of Thermal Engineering and Applications	2(1), 15-25. 2015.
6.	Shabin Mohammed, Abhijeet Raj, Ahmed Al Shoaibi , and P Sivashanmugam,	Formation of polycyclic aromatic hydrocarbons in Claus process from contaminants in H ₂ S feed gas	Chemical Engineering Science	137 (2015) 91– 105
7	R. V. G. K. Gowda, M. S. Seshasayee and A. Arunagiri	A Review on Liquid to Air Membrane Energy Exchangers and Flow mal-distribution in LAMEE	Journal of Energy, Heat and Mass Transfer	V-37, 173-185, 2015

National Journal

S.No	Authors	Title	Journal	Year Vol, (No) Page
1.	TushantGhode, K.M. Meera S. Begum, AnandBabu, N.Anantharaman	"A comparative study of ANN and CFD modeling for pressure drop prediction in a fluidized bed with internals	Indian Chemical Engineer	(Accepted)
2.	Tamilselvi S, Kalaichelvi P.	"Review of Fluid Flow and Heat Transfer in Impinging Jet System,"	Recent Trends in Fluid Mechanics,	1(3), 1–14, 2015.

8. Ph.D awarded

S.No	Name of the research Scholar	Guide/ Supervisor	University/Institut e
01	Mr.S.Saravanan	Dr.T.Sivasankar	NIT, Trichy
02	Mr.R. Saranya	Dr.G. Arthanareeswaran	NIT, Trichy
03	Mr.N.Samsudeen	Dr.T.K.Radhakrishnan and Dr.M.Matheswaran	NIT, Trichy

9. Details of Books authored by faculty

Dr. T.K. RADHAKRISHNAN

• Course on "Instrumentation and Process Control" for the main phase of Pedagogy Research Project, National Mission Project on Education through ICT, coordinated by IIT, Kharagpur

Dr. K.M. MEERA S. BEGUM

2. Book chapter on "Agro-Residues as fuel and as a feedstock for □ other Products", Anupama R, Niju S, MeeraSheriffa Begum K.M, and Anantharaman N, Advances in Bio-process Technology by Springer Publishers, 2015.

`Dr. P. KALAICHELVI

- 3. Course on "Computer Aided Design in Chemical Engineering" for the main phase of Pedagogy Research Project, National Mission Project on Education through ICT, coordinated by IIT, Kharagpur.
- 4. Book chapter on "Microwave and ultrasound assisted surfactant treated adsorbent for the efficient

removal of emulsified oil from the wastewater", P.Augusta, P,Kalaichelvi, K.N.Sheeba and Dr.A.Arunagiri . Submitted on Innovations in Waste water treatment -Apple Academic press.

Dr. G. ARTHANAREESWARAN

• R.Saranya, Y. LukkaThuyavan, G. Arthanareeswaran, A.F. Ismail, "Membrane Technology for Water and wastewater treatment, Energy and Environment" copyright given to CRC press/Balkema, Taylor& Francis Group (2015).

Dr. M. PERUMALSAMY

• Course on "Computer Aided Design in Chemical Engineering" for the main phase of Pedagogy Research Project, National Mission Project on Education through ICT, coordinated by IIT, Kharagpur.

Dr. K.N. SHEEBA

- Biomass- Potential Sustainable Source of Energy, K.N.Sheeba, P.Prakash, Energy science and technology, Studium Press LLC, USA, Volume 7, 54-78, ISBN 1-62699-068-9, 2015.
- Book chapter on "Microwave and ultrasound assisted surfactant treated adsorbent for the efficient removal of emulsified oil from the wastewater" Submitted on Innovations in Waste water treatment Apple Academic press.

Dr. A. ARUNAGIRI

- Course on "Computer Aided Design in Chemical Engineering" for the main phase of Pedagogy Research Project, National Mission Project on Education through ICT, coordinated by IIT, Kharagpur.
- Book chapter on "Microwave and ultrasound assisted surfactant treated adsorbent for the efficient removal of emulsified oil from the wastewater", Submitted on Apple Academic press.

Dr. M. MATHESWARAN

• Book chapter "Heterogeneous photo-catalytic oxidation an effective tool for waste water treatment-A review", Studies on water management issues. Published by InTech, ISBN 978-953-307-961-5.

10. Patent if any obtained by the faculty: NIL

11. Other important points: NIL

12. Summary

S.NO	Details	Total Nos			
1.	International Journals	76			
2.	National Journals	4			
3.	International conference publications	10			
4.	National conference publications	5			
5.	Sponsored Project	No's	7	Amount	Rs.36,85,122 /-
6.	No of Ph.D produced	03		•	
7.	No of patent obtained	nil			
8.	No of books published	11			

DEPARTMENT: CHEMISTRY

1. Notable Achievements

1.1 Faculty Members

S.No	Name	Details of Prizes / Awards	Organization
1	Dr. L.Cindrella	Author of most downloaded article	International Journal of Applied Surface
			Science
2	Dr. R. Karvembu	Adjunct Professor	Karunya University, Coimbatore
3	Dr. R. Karvembu	Editorial Board Member in the Journal "Current Organocatalysis"	Bentham Science

1.2 Students

S.No	Name	Details of Prizes / Awards	Organization	
1	P. N. Sathishkumar	Best Poster Award	10 th Mid-Year CRSI	
			Symposium in	
			Chemistry held at NIT,	
			Trichy from July 23 to	
			25, 2015	
2.	Neethu Mohan(Ph.D	Best Poster Award in	SAEST and CECRI	
	scholar of Dr. L	National Convention of Electro	Karaikudi	
	Cinderlla)	Chemists (NCE-19)		

2. Conference

2.1 Organised

International: Nil

National

S.No	Coordinator	Programme	Period
1	Dr.L.Cindrella	National Convention of Electrochemists	28 th & 29 th
		(NCE-19)	Mar.2016
2	Dr. R. Karvembu	10 th Mid-Year Chemical Research Society	23-25 July
		of India (CRSI) Symposium in Chemistry	2015
3	Dr. R. Karvembu	National Level Student's Symposium on	11 th & 12 th
		Innovative Catalysis (Horizon 2015)	September
			2015

2.2 Papers presented by the Faculty / Students International

Author (s)	Details			
P. Jerome and R. Karvembu	Paper entitled "Preparation of CuO nanoflakes catalyst from copper pincer complex for N-arylation of benzimidazole" is presented in the International Conference on Nanomaterials for Energy, Environment, Catalysis and Sensors (ICNEECS-15) held at Madurai Kamaraj University, Madurai during 11 to 12, September 2015.			
P. N. Sathishkumar and R. Karvembu	Paper entitled "Heck and Suzuki-Miyaura cross coupling reactions in aqueous medium catalyzed by dicarboxamide based palladium(II) complex" is presented in the International Conference on Recent Advances in Materials and Chemical Sciences (ICRAMCS-2015) held at Gandhigram Rural Institute, Gandhigram during 14 to 15, December 2015.			
J. Haribabu and R. Karvembu	Paper entitled "Nickel(II) complexes with indole based thiosemicarbazone ligands for biological applications" is presented in the Sixth International Conference on Metals in Genetics, Chemical Biology and Therapeutics held at Indian Institute of Science, Bangalore during 17 to 20, February 2016			
Vipin Vijay V, Dr. V M Biju and Dr. Renjith Devasia	"Evolution of advanced ceramics from filler incorporated novel polyborosiloxane precursor", , presented in International Conference on Ceramic & Advanced Materials for Energy and Environment, December 14-15, 2015, Christ University, Bangalore.			

National

National			
Author (s)	Details		
L. Cindrella and R.Venkatesan	Semiconductive organic polymer of [1,2-bis (1-pyrrole-		
	2-yl)methylidene) hydrazine, Proceedings of the 22 nd		
	Conference of National Magnetic Resonance Society,		
	IIT, Kharagpur, 18 th – 21 st Feb.2016.		
N.Mohan and L.Cindrella	Pt and Pd supporting Zeolite-A host as efficient		
	electrocatalyst for methanol oxidation, National		
	Convention of Electrochemists (NCE-19), 28 th & 29 th		
	Mar.2016, NIT, Trichy		
S.Prabhu and L.Cindrella	Facile template free synthesis of CuO nanorods and its		
	photoelectrochemical property for energy application,		
	National Convention of Electrochemists (NCE-19), 28 th		

	& 29 th Mar.2016, NIT, Trichy
K. Mohanraju and L.Cindrella	Enhanced electrocatalytic activities of Pt decorated Spinals (M ₃ O ₄ , M = Mn, Fe, Co)/C electrocatalyst for oxygen reduction reaction in PEM fuel cell, National Convention of Electrochemists (NCE-19), 28 th & 29 th Mar.2016, NIT, Trichy
Aneesiya K Rajan and L.Cindrella	Anthracene based organic chromophores for Dye Sensitized Solar Cell (DSSC), National Convention of Electrochemists (NCE-19), 28 th & 29 th Mar.2016, NIT, Trichy
Neethu Mohan and L.Cindrella	Design of D-π-A organic dyes for dye sensitized solar cells (DSSCs), National Convention of Electrochemists (NCE-19), 28 th & 29 th Mar.2016, NIT, Trichy
Hema malini and L.Cindrella	Electrochemical studies of barbituric acid based transition metal complexes, National Convention of Electrochemists (NCE-19), 28 th & 29 th Mar.2016, NIT, Trichy
T. Karthikeyan, K.Mohanraju and L.Cindrella	enhanced electrocatalytic activities of PdM ₃ /C (M= Mn, Fe, CO, Ni, Cu) binary alloys for fuel cell application National Convention of Electrochemists (NCE-19), 28 th & 29 th Mar.2016, NIT, Trichy
J. Haribabu and R. Karvembu	Paper entitled "Synthesis, DNA/protein binding, molecular docking, DNA cleavage and <i>in vitro</i> anticancer activity of nickel(II) bis(thiosemicarbazone) complexes" is presented in the 10 th Mid-Year CRSI Symposium in Chemistry held at NIT, Trichy from July 23 to 25, 2015.
P. N. Sathishkumar and R. Karvembu	Paper entitled "Palladium(II) catalyst containing dicarboxamide based tetradentate ligand for the Suzuki-Miyaura and Heck coupling reactions" is presented in the 10 th Mid-Year CRSI Symposium in Chemistry held at NIT, Trichy from July 23 to 25, 2015.
S. Yasar Arafath, P. Jerome and R. Karvembu	Paper entitled "Pd(II)-NNN chiral pincer complexes containing CH ₃ CN for the transfer hydrogenation of ketones" is presented in the 10 th Mid-Year CRSI Symposium in Chemistry held at NIT, Trichy from July 23 to 25, 2015.
P. N. Sathishkumar and R. Karvembu	Paper entitled "Palladium(II) catalyst containing dicarboxamide based ligand for the Suzuki-Miyaura and Heck coupling reactions" is presented in the Indian National Conference on Development in Inorganic Applications held at Periyar University, Salem on October 15 & 16, 2015.
Aswathi.M and V.M.Biju,	Room temperature ionic liquid supported cloud point

extraction of copper from natural samples presented in CSIMC 2015, Jamal Mohamed College, Tiruchirappalli.

3. Workshops / Seminars

3.1 Organized

Coordinator	Fitle			Peri	od	
Dr.L.Cindrella	Self assemble	l layers –	Preparation,	27 th	&	28 th
	characterization and applications		Nov.	.201	5	

3.2 Attended

Faculty	Details
	22 nd Conference of National Magnetic Resonance Society,
	IIT, Kharagpur, 18 th – 21 st Feb.2016.

Students: Nil

4. Invited / Guest Lectures Delivered by the Faculty

Faculty	Topic	Programme	Place & Date
Dr.L.Cindrella	Solar and fuel cells	Inauguration of Resonance	Gandhigram University,
		 Intercollegiate Event. 	16 th Feb.2016
Dr. R. Karvembu	Nanomaterials in	TEQIP II sponsored	Anna University, Trichy,
	catalysis	Faculty Development	13.05.2015
		Programme on	
		Nanotechnology	
		Applications in	
		Engineering and	
		Technology	
Dr. R. Karvembu	Nanocatalysis	Inauguration of Chemistry	Srinivasan College of
		and Physics associations	Arts and Science,
			Perambalur, 06.08.2015
Dr. R. Karvembu	Transition metal	Indian National	Periyar University, Salem,
	complexes with	Conference on	16.10.2015
	•	Development in Inorganic	
	ligands: Interesting	Applications	
	structures and		
	efficient catalysis		
Dr. R. Karvembu	Transition metal	National Conference on	Sri Shakthi Institute of
	complexes with	Recent Trends in	Engineering and
	acyl/aroyl thiourea	_	Technology, Coimbatore,
	ligands: Interesting	Organometallic Chemistry	17.10.2015
	structures and		
	efficient catalysis		

Dr. R. Karvembu	Novel nano catalytic systems	International Conference on Nanomaterials and Nanotechnology (Nano- 15)	K. S. Rangasamy College of Technology, Tiruchengode in association with World Class University, GIST, South Korea, 09.12.2015
Dr. R. Karvembu	Corrosion inhibition	Two-day training programme for mining executives of NLC, Neyveli on the theme Recent Trends in Corrosion Control and Tribological Scenario in Mining Industries	NLC, Neyveli, 29.12.2015
Dr. R. Karvembu	Corrosion inhibition	Two-day training programme for thermal power station executives of NLC, Neyveli on the theme Emerging Trends in High Temperature Corrosion and Erosion Control in Thermal Power Plants	NLC, Neyveli, 15.02.2016
Dr. R. Karvembu	Transition metal complexes with acyl/aroyl thiourea ligands: Interesting structures and efficient catalysis		_
Dr. R. Karvembu	Nanomaterials in catalysis	Seminar on Modern Synthetic Designs	Periyar E. V. R. College, Trichy, 23.02.2016
Dr.V.M.Biju		State level Seminar on RECENT TRENDS IN ANALYTICAL CHEMISTRY.	
Dr.V.M.Biju	Atomic absorption spectroscopy &its applications in analytical chemistry"	Special Lecture programme.	Department of Chemistry, Jamal MohammedCollege, Trichy, at 14, October 2015

			PG & Research
Dr.V.M.Biju	"Atomic &	National level seminar on	Department of
	molecular	advanced analytical	Chemistry, Mar
	spectroscopies and	techniques (NSAAT 2016)	Ivanios college
	its applications"	sponsored by UGC.	(Autonomous),
			Thiruvananthapuram on
			10, March 2016

5. Sponsored Projects undertaken: Nil

6. Major Equipment / Software Purchased (more than Rs. 5.00 lakh.)

S. No.	Equipment	Amount (Rs. In Lakhs)
1	Rotary Evaporator	8

7. Research Papers Published in National / International Journals

7.1 Faculty

International Journal

S.	Title	Author(s)	Journal	Year Vol.
No.				(No) Page
1	Semiconducting composite of chalcone-bridged polythiophene and titania, its ammonia vapor sensing property, ,	R.Venkatesan, L. Cindrella	Materials Science in Semiconductor Processing	,
2	Enhanced electrocatalytic activity of PANI and CoFe ₂ O ₄ /PANI composite supported on graphene for fuel cell applications		J. Power Sources	284, 383- 391, 2015.
3	Electrocatalytic activity of Mn/Cu doped Fe ₂ O ₃ -PANI-rGO composites for Fuel cell applications	K. Mohanraju, L. Cindrella	RSC Advances	5, 39455- 39463, 2015
4	Direct synthesis of Fe- ZSM-5 zeolite and its prospects as efficient electrode material in methanol fuel cell	N. Mohan, L. Cindrella	Materials Science in Semiconductor Processing	,
5	CuO-PANI nanostructure with tunable spectral selectivity for solar selective coating application	L. Cindrella, S.Prabhu	Applied Surface Science	In Press (2016)

6	Copper supported on lepidocrocite: A highly active magnetically separable nanocatalyst for N-arylation of imidazole	Dhanuskodi, S. Ganesh Babu and	RSC Advances	5(12), 8571- 8578 (2015)
7	Synthesis, structure and pharmacological evaluation of Co(III) complex containing tridentate Schiff base ligand	R. Velmurugan, R. Karvembu,	Russ. J. Coord. Chem.	41(5), 345-352 (2015)
8	Synthesis, crystal structure, in vitro and in silico molecular characterization of novel acyl thiourea derivatives	G.R. Subhashree, S. Saranya,	J. Mol. Struct.	1094, 281-291 (2015)
9	Synthesis, DNA/protein binding, molecular docking, DNA cleavage and in vitro anticancer activity of nickel(II) bis(thiosemicarbazone) complexes	K. Jeyalakshmi, Y. Arun, N. S. P. Bhuvanesh, P. T. Perumal and	RSC Advances	5(57), 46031- 46049 (2015)
10	Photodegradation of dyes by TiO ₂ /RuO ₂ /GNS nanocatalyst derived from Ru/GNS after its use as catalyst in aerial oxidation of primary alcohols (GNS = graphene nanosheets)	S. Ganesh Babu, Z. Khatri, BS. Kim, K. Wei, R. Karvembu and	React. Kinet. Mech. Catal.	115(2), 759-772 (2015)
11	DNA/protein binding, DNA cleavage, cytotoxicity, superoxide radical scavenging and molecular docking studies of copper(II) complexes containing N-benzyl-N'- aryl-N'-benzoylguanidine ligands	Y. Arun, P. T. Perumal, A. Sreekanth and	Inorg. Chem. Front.	2(8), 780- 798 (2015)
12	Noble metal / functional cellulose nanofiber composites for catalytic applications	M. Gopiraman, G. Yuan, C. Yin, KH. Song, J. S. Lee, R. Karvembu and	Carbohydr. Polym.	132, 554- 564 (2015)

		I. S. Kim		
13	Recyclable mesoporous ceria supported gold nanoparticles based catalyst for <i>O</i> -arylation of phenols	-	J. Nanosci. Nanotechnol.	15(12), 9358- 9368 (2015)
14	Half-sandwich Ru(η6- C6H6) complexes with chiral aroylthioureas for enhanced asymmetric transfer hydrogenation of ketones – Experimental and theoretical studies	A. Nijamudheen, M. Muthu Tamizh,	Catal. Sci. Technol.	5(10), 4790- 4799 (2015)
15	Sustainable and versatile CuO/GNS nanocatalyst for highly efficient base free coupling reactions	M. Gopiraman, D. Deng, S. Ganesh Babu, T. Hayashi, R. Karvembu and I. S. Kim	ACS Sustain. Chem. Eng.	3(10), 2478- 2488 (2015)
16	Estimation of lattice strain in nanocrystalline RuO ₂ by Williamson-Hall and sizestrain plot methods	R. Sivakami, S. Dhanuskodi and R. Karvembu	Spectrochim. Acta Part A	152(1), 43-50 (2016)
17	Green synthesis of CuO nanoflakes from copper pincer complex for effective N-arylation of benzimidazole	G. Kausalya, T. Daniel Thangadurai and	Catal. Commun.	75, 50-54 (2016)
18	thiosemicarbazone derivatives as potential bioactive agents: Anti-	J. Haribabu, G. R. Subhashree, S. Saranya, K. Gomathi, R. Karvembu and D. Gayathri	J. Mol. Struct.	1110, 185-195 (2016)
19	Gold nanoparticles supported on magnesium oxide nanorods for oxidation of alcohols	S. Ganesh Babu, R. Karvembu, K. Kadirvelu and N. Dharmaraj	J. Nanosci. Nanotechnol.	16, 2517- 2526 (2016)
20	Crystal structure of N[(naphthalen-1-yl)carbamothioyl]cyclohexanecarboxamide	G. Vimala, J. Haribabu,S. Aishwarya,R. Karvembu andA. Subbiah Pandi	Acta Cryst.	E71(7), o508- o509 (2015)

21	Crystal structure of N-[(4-	G. Vimala, J. Haribabu,	Acta Cryst.	E71(10),
	ethoxyphenyl)carb	S. Srividya, R. Karvembu		o820-
	amothioyl]cyclohe	and A. SubbiahPandi		o821
	xanecarboxamide			(2015)
22	Synthesis and chelation	D.Manivannan and	Journal of AOAC	2015, 98,
	properties of a new	V.M.Biju,	international	188-191.
	polymeric ligand derived			
	from 1-amino-2-naphthol-			
	4-sulfonicacid,			

National Journal: Nil

7.2 Students

International Journal: Nil National Journal: Nil

8. Ph.D Awarded

S. No.	Name of the Research Scholar	Guide / Supervisor	University / Institute
1.	K. Mohanraju	Dr.L.Cindrella	National Institute of Technology, Trichy
2.	A.M. Vinumohan	Dr.V.M Biju	National Institute of Technology, Trichy
3.	D. Karunanithi	Dr.V.M Biju	National Institute of Technology, Trichy

9. Details of Books authored by faculty.

S. Ganesh Babu, M. Gopiraman, R. Karvembu and I. S. Kim, Carbon materials supported nanostructures in catalysis, In **Chemical Functionalization of Carbon Nanomaterials: Chemistry and Applications**, V.K. Thakur and M.K. Thakur (Editors), Chapter 6, pp. 147-172, 2015, Taylor & Francis, CRC Press, USA.

12. Summary

S.No	Details		Total nos
1.	International Journals	22	
2.	National journals		
3.	International conference publications	3	
4.	National conference publications	13	
5.	Sponsored Project	No's:	Amount:
6.	No of Ph.D produced	3	
7.	No of Patents obtained		
8.	No of books published	1	

DEPARTMENT : CIVIL ENGINEERING

1. Notable Achievements

1.1 Faculty Members

S.No	Name	Details of Prizes / Awards	Organization
1	Dr.C.Natarajan	ICI- Ultratech Endowment Award- 2015for "outstanding concrete structure of Trichy District"	ICI- Ultratech
2	Dr. K. Baskar	Keynote Paper Award	SEC2014, IIT Delhi
3	Dr.K.Muthukkumaran	Received Keynote Paper Award	GEOMATE, Japan
4	Dr.J.Karthikeyan	Young Faculty Award-2015 awarded on 5 th July 2015	Venus International Foundation, Chennai

1.2 Students: Nil

2. Conference

2.1 Organised

International

Coordinator	Title	Period
Dr. G. Swaminathan	International Conference on Disaster	22-24,
Dr. R. Manjula	Mitigation Management and sustainable Development for Risk Reduction	•
Dr. S. Saravanan	(ICDMSDR'16)	

National: Nil

2.2 Papers presented by the Faculty / Students

International

Author (s)	Details	
M.R. Lokeswarn and C. Natarajan	Mechanical and microstructural properties	
	of concrete madewith manufactured sand", International Conference on Recent Trends	
	in Engineering and Material	
	Sciences (17-19 March 2016), Jaipur	
	National University, Jaipur, India.)	
R. BharathiMurugan and C. Natarajan	"Strength evaluation of rubberized concrete	
	based on ultrasonic pulse velocity and	
	rebound hammer tests", International	
	Conference on Recent Trends in	
	Engineering and Material Sciences (17-19	
	March 2016), Jaipur National University,	
	Jaipur, India.).	

M. K. Haridharan and C. Natarajan R. BharathiMurugan, C. Natarajan and Shen-En Chen	"Experimental study on thermo mechanically treated (TMT) rebar subjected to various thermal cycles", International Conference on Recent Trends in Engineering and Material Sciences (17-19 March 2016), Jaipur National University, Jaipur, India. "Materialdevelopment for a sustainableprecastconcrete block pavement" Proceeding of the 9th International Committee on Pavement Technology (ICPT2015), August 9-13, at Dalian, Liaoning, China.
Padmavathy and P. A. Krishnan	"Numerical Analysis of Circular Hollow Sections with Cutouts". International Conference on Recent Trends in Engineering and Material Science (ICEMS – 2016), March 17-19, Jaipur University . Page No: 88-89
Baskar, K and M. Velmurugan	Experimental Investigation on thin-walled circular CFT columns made using cold rolled steel plates, 11 th International Conference on Advances in Steel-Concrete Composite Structures, 3-5 December 2015, Beijing, China, pp315-321
Sharasiby, S. T. Ramesh	Evaluation of the photocatalytic activity of TiO ₂ catalyst for the degradation of organic pollutants under UV-A irradiation, International Conference on Natural resource restoration technologies, Department of Biotechnology, PSG college of technology, 17-18, April 2015.
Archana P Abraham, S. T. Ramesh,	Performance analysis of electrolysis integrated tidal flow constructed wetland system for nutrient removal, International Conference on Natural resource restoration technologies, Department of Biotechnology, PSG college of technology, 17-18, April 2015.
BandaruHemanth, Jammi Ashok and S. T. Ramesh,	Improvement of existing water distribution system of new avenue of NIT Trichy using EPANET – A case study, 3dr international conference on modeling and simulation in

	Civil Engineering, National Institute of Technology, Calicut, 09-11 December 2015.
Muthukkumaran, K., Murugan, M and Natarajan, C	FRP Strengthened Reinforced Concrete Piles under Static Lateral Loads – A Field Study" Proceedings of the 5 th International Conference on Geotechnique, Construction Materials andEnvironment, (GEOMATE-2015) Osaka, Japan, Nov. 16-18, 2015, ISBN: 978-4-9905958-4-5 C3051. pp, 25-32.
DeendayalRathod, K. Muthukkumaran and T.G. Sitharam	Dynamic Response of Single Pile Located in Soft Clay underlay by Sand" Proceedings of the 5 th International Conference on Geotechnique, Construction Materials andEnvironment, (GEOMATE-2015) Osaka, Japan, Nov. 16-18, 2015, ISBN: 978-4-9905958-4-5 C3051. pp, 471-474.
A. R. Prakash, K. Muthukkumaran	Effect of free standing height on rock socketed pile under lateral load" Proceedings of the Deep Foundation Institute on Deep Foundations Technologies for Infrastructure Development in India 2015 29th-30 th , September. pp 26.
S. KeerthiRaaj, K. Muthukkumaran	Numerical and Theoretical Analysis of Consolidation of Soft Clay Installed With PVD at Nagapattinam - A Case Study" Proceedings of the Deep Foundation Institute on Deep Foundations Technologies for Infrastructure Development in India 2015, 29th-30th September. pp 29
Karthikeyan.J, ShaheerAli.K and Chittibabu.K	"Durability Aspects in High Performance Metakaolin Concrete" CD Proceedings on the 1 st International Conference on Clay and Calcinated clays for Sustainable concrete, June23–25, 2015, Lausanne, Switzerland.
Ananthi. A and J. Karthikeyan	Influence of polypropylene fibres on the mechanical and durability properties of high performance concrete CD Proceedings of International Conference on Fibre Concrete 2015, 10-11 September 2015,

	Prague, Czech Republic.
Ramya N, Saravanan S and Manjula R ,	Investigating Ground water Contamination using Vertical Electrical Sounding around Ariyamangalam Municipal Soldwaste Dumpsite, Tiruchrappalli, TamilNadu India, Internatinal Conference on Sustainable Engery and Build Environment held on 12-13 March 2015 at VIT University.

National

Author (s)	Details
M. Thejasvi, R. BharathiMurugan, Dr. C.	"Mechanical Properties of Geopolymer
Natarajan	Concrete Paver Block", National Conference
	on Advances in Construction Technology
	and Management (19-20 February 2016),
	Visvesvaraya National Institute of
	Technology, Nagpur, India.
M.R. Lokeswarn and C. Natarajan	"Experimental Investigation On The Effect
	Of Manufactured Sand In Concrete",
	National Conference on Advances in
	Construction Technology and Management
	(19-20 February 2016), Visvesvaraya
	National Institute of Technology, Nagpur,
	India.
N.Ganesh, Dr. C. Natarajan	"Mechanical Properties of High
	Performance Glass Fibre Reinforced
	Concrete with Superplasticizer", National
	Conference on Advances in Construction
	Technology and Management (19-20
	February 2016), Visvesvaraya National
	Institute of Technology, Nagpur, India.
Barkavi T and Dr.C.Natarajan	"Damage Assessment in Reinforced
	Concrete Structures", National Conference
	on Advances in Construction Technology
	and Management (19-20 February 2016),
	Visvesvaraya National Institute of
	Technology, Nagpur, India.
K.C. Baba Fakruddin, Dr.C.Natarajan	"Experimental Study on the Effects of Hair
	Fibre Waste in Concrete", National
	Conference on Advances in Construction

K.Ramachandrudu,Dr. C. Natarajan	Technology and Management (19-20 February 2016), Visvesvaraya National Institute of Technology, Nagpur, India. "Mechanical Properties of Concrete by Partial Replacement of Cement with Paper waste", National Conference on Advances in Construction Technology and Management (19-20 February 2016), Visvesvaraya National Institute of Technology, Nagpur, India.
Barkavi T and Dr.C.Natarajan	"Assessment of Damage in Structures", National Conference on Forensic Structural Engineering (11-12 March 2016), VIT- Chennai Campus, Chennai, India.
Virupaksha K.S and Prof R.Jayasankar	"The study on Properties of concrete with cement partially replaced by corn-cob ash", National Conference on Advances in Construction Technology and Management (19-20 February 2016), Visvesvaraya National Institute of Technology, Nagpur, India
Venkata Subbaiah and P.A.Krishnan	"Shear Strengthening of RCC Beam – Column Joints Using CFRP Sheets". National Conference on Innovations In Civil Engineering, 12 th March, 2016, Karpagam Academy of Higher Education, Coimbatore. Page: 2
AniketWakure and P.A.Krishnan	"Structural Performance of Ferrocement Composite Panels Using Fibres", National Conference on Innovations In Civil Engineering, 12th March, 2016, Karpagam Academy of Higher Education, Coimbatore. Page: 3
Satish Kumar Amara and P.A.Krishnan	"Analysis of Functionally Graded open Cylindrical Shell Structure", National Conference on Innovations In Civil Engineering, 12th March, 2016, Karpagam Academy of Higher Education, Coimbatore. Page: 7
Hitesh Agarwal and P.A.Krishnan	"Seismic Performance of Bracing System Made of Shape Memory Alloy", National

	Conference on Innovations In Civil Engineering, 12 th March, 2016, Karpagam Academy of Higher Education, Coimbatore. Page: 17	
Rashid P.K and P.A.Krishnan	"Buckling Analysis of Circular Plate With SMA Subjected to Temperature Load Using ABAQUS", National Conference on Innovations In Civil Engineering, 12th March, 2016, Karpagam Academy of Higher Education, Coimbatore. Page: 18	
Archana Abraham, S. T. Ramesh	Preliminary study on nutrient removal using a novel electrolyte integrated tidal flow constructed wetland, Proc. National conference on Quest for advancement in Civil Engineering, SRM University, March 18-20, 2015.	
DhawalTailang, S. T. Ramesh	Effect of salinity on Nitrate, Phosphate and Sulphate uptake by Blue Green algae strain <i>Oscillatoria sp.</i> BDU30602 and Cyanobacterial growth, Sustainable Civil Engineering Practices, SCEP-2015, Department of Civil Engineering, PSG College of Technology, Coimbatore, 14 th May 2015	
ChithiraVenu, S. T. Ramesh	Effects of Operational Parameters on Phosphorous Removal using PEC Reactor, Sustainable Civil Engineering Practices, SCEP-2015, Department of Civil Engineering, PSG College of Technology, Coimbatore, 14 th May 2015	
Keerthi K.G., S. T. Ramesh	Biodecolorization of synthetic dye solution of Reactive Blue 25 using Yeast cells, Sustainable Civil Engineering Practices, SCEP-2015, Department of Civil Engineering, PSG College of Technology, Coimbatore, 14 th May 2015	
DhawalTailang, S. T. Ramesh	Effect of Initial Nitrate Concentration on Nitrogen, Phosphorous and COD Removal by Cyanobacteria <i>Oscillatoria sp.</i> BDU30602 from Diary Wastewater, Environmental Challenges towards Sustainibility-2015, Department of	

	Environmental Engineering, Government
	College of Technology, Coimbatore, 15 th May 2015
ChithiraVenu, S. T. Ramesh	Effects of Operational Parameters on
,	phosphorous removal using Ferrous and
	Aluminium salts: A preface to PEC Reactor
	Study, Environmental Challenges towards
	Sustainibility-2015, Department of
	Environmental Engineering, Government
	College of Technology, Coimbatore, 15 th
	May 2015
Keerthi K.G., S. T. Ramesh	Decolorization of synthetic dye solution of
	Reactive Blue 25 using Yeast cells,
	Environmental Challenges towards
	Sustainibility-2015, Department of
	Environmental Engineering, Government
	College of Technology, Coimbatore, 15 th
A. D. Drakach V. Muthukkumanan	May 2015.
A. R. Prakash, K. Muthukkumaran	Lateral response of socketed pile in
	Cohesionless soil" Proceedings of Indian Geotechnical Conference (IGC-2015), 17th-
	19th December 2015, Pune, India. pp 68
V. Anusudha, K. Muthukkumaran	Utilization of copper slag for stabilization of
V. 7 Musuanu, XX Musuanumumum	clay soil" Proceedings of Indian
	Geotechnical Conference (IGC-2015), 17th-
	19th December 2015, Pune, India. pp 398
S. KeerthiRaaj, K. Muthukkumaran	Effective use of PVD in railway
	embankment construction at Nagapattaman-
	A Case study" Proceedings of Indian
	Geotechnical Conference (IGC-2015), 17th-
	19th December 2015, Pune, India. pp399.
Sakthivel G, Lakshmanan R, Arthur James,	Assessment of microbial pollution and land
Manjula R andSaravanan S.	use land cover changes in Cuddalore coastal
	Region, Tamilnadu, NCAACE'15, National
	Conference held on 4 th April 2015 at
Dailed D. Canarasa Cara 1346 at 1 D	Saveetha University.
Rajesh R, Saravanan S and Manjula R,	Assessment of artificial recharge on ground
	water quality and table- A case study at NIT
	Trichy, National Conference held on 4 th
	April 2015 at Saveetha University.

3. Workshops / Seminars

3.1 Organized

Coordinator	Title	Period
Dr. S. T. Ramesh Two week ISTE STTP Course "Environmental Studies" organized Indian Institute of Technology Bom under the National Mission on Educa through ICT (MHRD, Govt. of India)		2- 12 June, 2015
Dr. G. Swaminathan	One day workshop on "Introduction to Quantum GIS"	7 th August 2015
Dr. R. Manjula	Quantum 013	2013
Dr. S. Saravanan		
Dr. K. Baskar Dr. J. Karthikeyan	Two Days Short Course on Advancement in Concrete Technology", 27th & 28th March 2015, at NIT Trichy, Self supported course.	27th & 28th March 2015,
Dr. K. Baskar Dr. J. Karthikeyan	Two Days Short Course on Introduction to Finite Element Method and its Applications", 23 rd & 24 th January 2015, at NIT Trichy. Self Supported Course in Association with Indian Association for Computational Mechanics (IndACM).	23 rd & 24 th January 2015
Dr.K.Muthukkumaran Dr.S.Jayalekshmi Mr. Deendayal	hmi investigations for pavements and buildings	
R. Jayasankar and J. Karthikeyan	"Concrete Mix Proportioning" Department of Civil Engineering, NIT-Trichy and jointly organized with Ultratech Cement Ltd.	29.02.2016

3.2 Attended

Faculty	Details
Dr. S. T. Ramesh	One week ISTE STTP for Coordinators on "Environmental Studies" organized by Indian Institute of Technology Bombay under the National Mission on Education through ICT (MHRD, Govt. of India) from 23-27 March, 2015.
Dr. S. T. Ramesh	One week TEQIP Summer course on "Water and Wastewater Treatment: Recent Advances" Conducted by Department of Civil Engineering, Indian Institute of Technology Roorkee from 21 - 25 July, 2015.

Dr. S. T. Ramesh	To develop model curricula for all disciplines of engineering at UG level, National Institute of Technology Delhi, 8 th February 2016.	
Dr.K.Muthukkumaran	Second Japan-India Workshop in Geotechnical Engineering - Geotechnics for Resilient Infrastructure, 14th November 2015 at Fukuoka University, Japan	

Students	Details		
M.R. Lokeswarn	International Conference on Recent Trends in Engineering and Material		
	Sciences (17-19 March 2016), Jaipur National University, Jaipur, India.)		
R. BharathiMurugan	International Conference on Recent Trends in Engineering and Material		
	Sciences (17-19 March 2016), Jaipur National University, Jaipur, India.)		
M. K. Haridharan	International Conference on Recent Trends in Engineering and Material		
	Sciences (17-19 March 2016), Jaipur National University, Jaipur, India.)		
R. BharathiMurugan	9th International Committee on Pavement Technology (ICPT2015), August 9-13, at Dalian, Liaoning, China.		
M. Thejasvi	National Conference on Advances in Construction Technology and Management (19-20 February 2016), Visvesvaraya National Institute of Technology, Nagpur, India.		
M.R. Lokeswarn	National Conference on Advances in Construction Technology and Management (19-20 February 2016), Visvesvaraya National Institute of Technology, Nagpur, India.		
N.Ganesh	National Conference on Advances in Construction Technology and Management (19-20 February 2016), Visvesvaraya National Institute of Technology, Nagpur, India.		
Barkavi T	National Conference on Advances in Construction Technology and Management (19-20 February 2016), Visvesvaraya National Institute of Technology, Nagpur, India.		
K.C. Baba Fakruddin	National Conference on Advances in Construction Technology and Management (19-20 February 2016), Visvesvaraya National Institute of Technology, Nagpur, India.		
K.Ramachandrudu	National Conference on Advances in Construction		

Technology and Management (19-20 February 2016),
Visvesvaraya National Institute of Technology, Nagpur,
India.

4. Invited / Guest Lectures Delivered by the Faculty

Faculty	Topic	Programme	Place & Date
Dr.C.Natarajan	Delivered College Day address	College Day address	SreeSowdambika College of Engineering, Chettikurichi, Aruppukottaii on 26 th March, 2016.
	Condition Assessment of buildings	National Seminar	Kongu Engineering College, Perundurai, 5 March, 2016.
	Prefabrication- special lecture	UGC sponsored program	Anna University Campus, Dindigul on 6 March, 2015.
Dr. K. Baskar	Modern Trends in Steel Structures	One day workshop	Annai College of Engineering, Kumabakonam, 22 nd September 2015.
Dr. K. Baskar	Opportunities in Civil Engineering	Inaugural Address	Ponnaiyah Ramajam College of Engineering and Technology, Tanjore, 4 th September 2015.
Dr. K. Baskar	IS code provisions on Precast Construction	One day workshop on Pre- stressed Concrete Structures	CARE School of Engineering
Dr. K. Baskar	Introduction of Offshore Structures	One day workshop	Kongunad College of Engineering and Technology
Dr. S. T. Ramesh	Enhanced bioremediation of lubricant oil contaminated soil by biostimulation using compost and compost tea and by bioaugmentation	Key note lecture, International Conference on Natural resource restoration technologies,	Department of Biotechnology, PSG college of technology, 17-18, April 2015.
Dr. S. T. Ramesh	Bioremediation of soil contaminated with lubricating oil	Key note lecture, National Conference on Innovations in Civil	Department of Civil Engineering, Coimbatore Institute of

	hydrocarbons by compost and compost tea	Engineering systems for sustainable construction	technology, 22 nd April 2015.
Dr. S. T. Ramesh	Overview of Accreditation and Administrative system for implementation of OBE	Workshop on "Outcome based accreditation process and parameters for undergraduate engineering programme"	SVS College of Engineering, Coimbatore, 27 th June 2015.
Dr. S. T. Ramesh	Wastewater Management and Treatment	Tiruchirappalli city workshop for sanitation in urban areas	Tiruchirappalli city Corporation, Tamilnadu Urban Sanitation support programme Breeze Residency, 03.12.2015
Dr. S. T. Ramesh	Technologies for removal and recovery of phosphorous from wastewater	DAE-BRNS Sponsored national Seminar on Recent Advancement in Wastewater Treatment for Sustainable Development (RAWTSD 2016)	Department of Chemistry Kongu Engineering College, Erode, 29h January, 2016
Dr. S. T. Ramesh	Enhanced bioremediation of lubricant oil contaminated soil by biostimulation	Science Academics lecture workshop on "Biotechnology tools and techniques in solving environmental problems"	Department of biotechnology K. S. Rangasamy College of Technology, Tiruchengode. 17 th February, 2016.
Dr. S. T. Ramesh	Smart City	National Conference on Infrastructure Advances and Research (ITS'16)	Department of Civil Engineering K. Ramakrishnan College of Technology, Trichy. 2 nd March, 2016.
Dr. S. T. Ramesh	Conceptual framework for research design: essential points for developing a project	Workshop on 'Research based project in Civil Engineering'	Department of Civil Engineering Kalasalingam University, Krishnankoil 5 th March, 2016.
Dr. S. T. Ramesh	Removal and recovery of phosphorous from wastewater	Two days Lecture Workshop on Chemistry For Sustainable Green Environment (CHES	Department of chemistry, Bharathidasan Institute of Technology, Anna

		GREEN'16)	university
		GREEN 10)	Tiruchirappalli
			11 th March 2015.
Dr. S. T. Ramesh	Infrastructure	Workshop on	Department of Civil
	development in	'Infrastructure	Engineering
	India	development in India'	Mahendra Engineering
		1	College, Namakkal
			15 th March, 2016.
Dr.K.Muthukkumara	Concreting in Pile	One Day Workshop on	Peace Social Welfare
n	Foundation	Advances in Concrete	Mission, Nagercoil
		technology and	(24 th October 2015)
		Structures	
Dr.K.Muthukkumara	Behaviour of	Second Japan-India	Fukuoka University,
n	laterally loaded	Workshop in	Japan (14 th November
	rock socketed pile	Geotechnical	2015)
	in multi-layered	Engineering -	
	soil-rock profile	Geotechnics for	
		Resilient Infrastructure	
Dr.K.Muthukkumara	FRP Strengthened	Fifth International	GEOMATE, Osaka,
n	Reinforced	Conference on	Japan
	Concrete Piles	Geotechnique,	(16 to 18 November
	under Static	Construction Materials	2015)
	Lateral Loads – A	and Environment	
	Field Study –		
D I/ M 41 11	Keynote lecture	E 1/ D 1 /	D I ('4) C
Dr.K.Muthukkumara	Soil Mechanics-	Faculty Development	Ramco Institute of
n	Soil Classification	Programme	Technology,
	and shear strength		Rajapalayam (2 nd December 2015)
Dr.K.Muthukkumara	Evaluation of	One day workshop on	Ì
	interface shear	Environmental	SASTRA University,
n	strength of	Geotechnology	Thanjavur
	composite liner	Geoteciniology	(27 th February 2016)
	system and		
	stability analysis		
	for a landfill lining		
	system		
	S J Storin		
Dr.J.Karthikeyan	Flexural Members-	5 days FDP	Knowledge Institute of
	Working stress		Technology, Salem.
	method		23.05.2015
Dr.J.Karthikeyan	Concrete Mix	National conference on	Care Group of
	Proportioning	Innovations in	Institutions, Trichy. 2 nd
	_	Construction materials	March 2016

Dr. R. Manjula	Role of Civil	National Level	King College of
	Engineering in	Symposium	Technology,
	Globalisation		Nammakal(31 st August
			2015)
Dr. R. Manjula	Significance of	2 days FDP	Parisutham Institute of
	Research		Technology, Thanjavur
	Methodology		24 th September 2015
Dr. R. Manjula	Research	2 days workshop	Nehru Institute of
	Opportunities in		Technology,
	Civil Engineering		Coimbatore (11 th
			January 2016)

5. Sponsored Projects undertaken.

Co-ordinator	Name of the project	Sponsor	Amount (Rs. In Lakhs)
Dr. K. Baskar	Design of deep girders with horizontal splicing for higher capacity boilers	BHEL Trichy	7.69 lakhs

6. Major Equipment / Software Purchased (more than Rs. 5.00 lakh.)

S. No.	Equipment	Amount (Rs. In Lakhs)
1	1) Horizontal Shake table with eccentric cam	10,46,989
	2) Horizontal Shake table with cylindrical non harmonic base	, ,
	motion	
	3) Vertical Shake Table	
	4) 12 Experimental models	
2	Shake table instrumentation	6,87,000
3	100Ton Capacity UTM	15lakhs
4	Integrated Equipment System	38lakhs

7. Research Papers Published in National / International Journals

7.1 Faculty

International Journal

	ernauonai Journai	A41(·)	T1	X/X/-1 (N-) D
S.	Title	Author(s)	Journal	Year Vol. (No) Page
N				
0.	T C	D1 41374	D 114 ' 1	2017/DOL10 1000/
1	Investigation of	BharathiMurug	Road Materials	2015/DOI:10.1080/
	precast concrete	an and	and Pavement	14680629.2015
	paver block with	C.Natarajan	Design	.1119056.
	waste tire crumb			
	rubber"			
2	An experimental	V.Vengatasalap	International	2015/10,(05),12825-12841
	investigation on	athy,	Journal of	, , , ,
	the stresses	R.Ilangovan,	Applied	
	distribution in	A.R.Santhakum	Engineering	
	reinforced	ar and	Research	
	concrete deep	C.Natarajan		
	beams	3		
3	Behaviour and	V.Vengatasalap	International	2015/8,(04),1927-1934
	ultimate strength	athy.	Journal of Earth	
	of reinforced	R.Ilangovan.,	Sciences and	
	concrete deep	A.R.Santhakum	Engineering	
	beams with	ar and		
	openings under	C.Natarajan		
	induced shear load			
4	Durability Study	R.	International	2015/8(3),1187-1190
	on Concrete	BharathiMurug	Journal of Earth	
	Incorporating	an and	Sciences and	
	Waste Tire Crumb	C.Natarajan	Engineering	
	Rubber as Fine			
	Aggregate			
5	Numerical	M K	International	2015/08, No. 01, 129-135
	Simulation of	Haridharan and	Journal of Earth	
	Damage in	C Natarajan	Sciences and	
	Reinforced		Engineering	
	Concrete Slab			
	subjected to			
	Elevated			
	Temperature			
6	Recycling of E-	Kaliyavaradhan	Journal of Material	Vol.17, No.4, pp718-724, 2015
	Plastic Waste as a	Senthil Kumar	Cycles and Waste	
	Construction	and	Management,	
	Material in	Kaliyamoorthy	Springer	

	Developing Countries	Baskar	Publications	
7	Development of Ecofriendly Concrete Incorporating Recycled High- Impact Polystyrene from Hazardous Electronic Waste	Senthil Kumar, K. and Baskar, K.,	ASCE Jl. of Hazard. Toxic Radioactive Waste,	Vol.19 Issue 3, 04014042, July 2015
8	Shear Strength of Concrete with E- plastic (HIPS)	Senthil Kumar, K and Baskar, K.,	Proceedings of Institution of Civil Engineers – Construction Materials, UK,	Vol.168, Issue CM2, pp53-56, April 2015.
9.	Efficacy of A Novel Electrolysis Integrated Tidal Flow Constructed Wetland System in Nutrient Removal	Archana P Abraham, S. T. Ramesh	International Journal of Emerging Technology and Advanced Engineering	2015, 5(7), 152-158.
10	Removal of Heavy Metals From Acid Mine Drainage (AMD) Contaminated with High Concentrations of Fe, Zn, and Cu Using Electrocoagulation	R. Venkatasaravan an, S. T. Ramesh, and M. Gunasheela	Advanced Porous Materials,	2015, 3, 1–8.
	Investigation on the working performance of partitionable space enhanced coagulation reactor, Separation Science and Technology	ChithiraVenu, S. T. Ramesh, R. Gandhimathi& P. V. Nidheesh	Separation Science and Technology	2015 / DOI: 10.1080/01496395.2016.1140207
11	Low Cost Biosorbent 'CyperusRotundus ' for Removal of Cu(II) and Zn(II)	S. T. Ramesh, R. Gandhimathi, J. HamonethJoesu n, and P. V.	Advanced Porous Materials,	2015, 3, 1–8.

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	from Aqueous	Nidheesh		
	Solution with Acid			
	and Alkali			
	Treatments:			
	Kinetic and			
	Equilibrium			
	Studies			
12	Removal of	K. Sarath, R.	Desalination and	2015, 25 , 11872-11878.
	Reactive Magenta-	Gandhimathi,S	Water Treatment,	
	MB from aqueous	. T. Ramesh	ŕ	
	solution by	and P. V.		
	Persulphate Based	Nidheesh		
	Advanced	1 (10110 0511		
	Oxidation Process			
13	Investigation of	J. T. Krupa, R.	Journal of	20.16 /
	biobarrier for	Gandhimathi,S	Environmental	
•	leachate	. T. Ramesh, P.	Engineering,	doi: 10.1061/(ASCE)EE.1943-
	containment	V. Nidheesh	ASCE	7870.0000978, C4015006).
	through batch and	and T. S.	ABCL	
	continuous flow	Anantha Singh		
		Alianula Siligii		
	studies, Journal of			
	Environmental			
1.4	Engineering	D '1 17 D	1 1 0	2016
14	Effect of Solution	DevikaVenu, R.	Journal of	2016 / (doi:
	pH on Leachate	Gandhimathi,	Hazardous,	10.1061/(ASCE)HZ.2153-
	Treatment	P.V. Nidheesh	Toxic, and	5515.0000315).
	Mechanism of	and S.T.	Radioactive	
	Peroxicoagulation	Ramesh	Waste, ASCE	
	Process			20141170 100 117
15	Removal of	P. Aswathy, R.	Separation and	2016 / 159 , 108-115.
$ \cdot $	organics from	Gandhimathi,S	Purification	
	bilge water by	. T. Ramesh	Technology	
	batch	and P.V.		
	electrocoagulation	Nidheesh		
	process			
16	Response of	Deendayal, R.	International	DOI:
	laterally loaded	Muthukkumar	Journal of	http://dx.doi.org/10.1179/19397
	pile in soft clay on	an, K. and	Geotechnical	87915Y.0000000013 (2015)
	sloping ground	Sitharam, T.G.	Engineering	
17	Experimental	Premalatha,	Proceedings of	DOI: 10.1680/jmaen.13.00012
	Study on	P.V.	the ICE -	(2015)
	behaviour of piles	Muthukkumar	Maritime	
	in berthing	an, K and	Engineering	
1	structure	Jayabalan, P.		
	~4.m. ~4	Invahalan D		1

	Effect of Horizontal Load on Socketed Pile	A. R. Prakash, K. Muthukkumar an	International Journal of Earth Science and Engineering	2015, 08(03), pp 1407-1410
19	Durability of microbially induced calcite precipitation (MICP) treated cohesionless soils	Muthukkumar an, K. and Shashank, B.S.	JGS-SP	2016, Vol. 2, No. 56, pp 1946- 1949
20	Assessment of pile failures due to excessive settlement during pile load test	Muthukkumar an, K., KeerthiRaaj S. and Vinoth Kumar, M.	JGS-SP	2016, Vol. 2, No. 73, pp 2520- 2524
21	Dynamic Response of Single Pile Located in Soft Clay underlay by Sand	Deendayal, R. Muthukkumar an, K. and Sitharam, T.G.	International Journal of GEOMATE	2016, Vol. 11, Issue 26, pp. 2563-2567
22	Treatment of Stabilized Leachate by Ferrous Activated Persulfate Oxidative System	T. T. Asha, R. Gandhimathi, S. T. Ramesh and P.V. Nidheesh	Journal of Hazardous, Toxic, and Radioactive Waste, ASCE	Accepted
23	"Performance of polypropylene fibre in high- performance concrete"	Ananthi. A and J. Karthikeyan	Proceedings of the ICE- Construction Materials, London	Vol.168 (5), 2015
24	"Properties of Industrial Slag as Fine Aggregate in Concrete"	Ananthi. A and J. Karthikeyan	International Journal of Engineering and Technology Innovation	Vol-5, 2015, 132-140
25	"Mechanical	Ananthi. A and	Institution of Civil	2015, London.

	properties of HPC with weld slag as fine aggregate"	J. Karthikeyan	Engineering Journal, Waste and Resource Management,	10.1680/jwarm.15.00002
26	"Influence of GGBFS on the Mechanical Properties of the Water Cured Fly Ash Aggregate-Based Geopolymer Concrete"	G.Venkata Suresh and J. Karthikeyan	International Journal of Advanced Concrete Technology	Vol. 1, No.2, 2015. (Pg.1-12)
27	Response of Slender Vertical Cylinder under breaking waves(doi: 10.1016 / j.proeng.2 015. 08. 335)	Manjula R and Sannasiraj S.A	Procedia Engineering,	Vol. 116, 2015, 631- 638.
28	Experimental Investigation of Response of Vertical Slender Cylinder under Breaking Wave Impact''. (doi:10.1016/j.aqpr o.2015.02.031)	Manjula R, Sannasiraj S.A and Saravanan S	Aquatic Proceedia	Vol. 4, 2015, 227-233
29	Geomorphology Based Semi- distributed Approach for Rainfall-runoff Modeling Using GIS", (doi:10.1016/j.aqpr o.2015.02.114)	Saravanan S and Manjula R	Aquatic Proceedia	Vol. 4, 2015, 908-916.

National Journal

S. No.	Title	Author(s)	Journal	Year Vol. (No) Page
1	Investigation of the behavior of concrete containing waste tire crumb rubber	BharathiMurugan R. and C. Natarajan	Structural Engineering Convention (SEC-2014),IIT Delhi, Advances in Structural Engineering, Springer India	2015/ Volume 03,1795- 1802
2	Performance Studies on Geopolymer Based Solid Interlocking Masonry Blocks	M. Sudhakar, George M. Varghese and C. Natarajan	Structural Engineering Convention (SEC-2014), IIT Delhi, Advances in Structural Engineering, Springer India	2015/ Volume 03,1687- 1701
3	Study on the Properties of Cement Concrete Using Manufactured Sand	M.R. Lokeswaran and C. Natarajan	Structural Engineering Convention (SEC-2014), IIT Delhi, Advances in Structural Engineering, Springer India	2015/ Volume 03,1803- 1809
4	Performance assessment of RC beams with CFRP and GFRP sheets	Ch. Venkateswarlu and C. Natarajan	Structural Engineering Convention (SEC-2014), IIT Delhi, Advances in Structural Engineering, Springer India	2015/ Volume 03,1987- 2000
5	Behaviour of Two Way Reinforced Concrete Slab at Elevated Temperature	N. RaveendraBabu, M.K. Haridharan and C. Natarajan	Structural Engineering Convention (SEC-2014), IIT Delhi, Advances in Structural Engineering, Springer India	2015/ Volume 03,2285- 2298.

6	Interaction Study on	M. Sudhakar, M.P.	Structural	2015/
	Interlocking Masonry	Raj and C. Natarajan	Engineering	Volume
	Wall UnderSimultaneous	,	Convention	03,2471-
	In-Plane and Ou t-of-Plane		(SEC-2014), IIT	2480
	Loading		Delhi, Advances	
			in Structural	
			Engineering,	
			Springer India	
7	"Material Advantage:	J. Karthikeyan	Construction	Vol. 17, No.
	Small, Strong and		World	12,
	Resistant"			September
				2015, (Pg.
				94-96)
8	"A Review on the effect of	Ananthi. A and J.	Indian Concrete	89 (10),
	Industrial waste in	Karthikeyan	Journal	Nov'15,
	Concrete"			(73-80)
9	"Material Advantage: The	J. Karthikeyan	Construction	Vol. 18, No.
	Next Smart Building		World	6, March
	Material"			2016, (Pg.
				90-92)

7.2 Students **International Journal**

S. No.	Title	Author(s)	Journal	Year Vol. (No) Page
1	Investigation of	BharathiMurugan	Road Materials	2015/DOI:10.1080/
	precast concrete paver	and C.Natarajan	and Pavement	14680629.2015
	block with waste tire crumb rubber"		Design	.1119056.
2	An experimental	V.Vengatasalapathy,	International	2015/10,(05),12825-
	investigation on the	R.Ilangovan,	Journal of	12841
	stresses distribution in	A.R.Santhakumar	Applied	
	reinforced concrete	and C.Natarajan	Engineering	
	deep beams		Research	
3	Behaviour and	V.Vengatasalapathy.	International	2015/8,(04),1927-
	ultimate strength of	R.Ilangovan.,	Journal of Earth	1934
	reinforced concrete	A.R.Santhakumar	Sciences and	
	deep beams with	and C.Natarajan	Engineering	
	openings under			
	induced shear load			
4	Durability Study on	R. BharathiMurugan	International	2015/8(3),1187-
	Concrete	and C.Natarajan	Journal of Earth	1190
	Incorporating Waste		Sciences and	
	Tire Crumb Rubber as		Engineering	

	Fine Aggregate			
5	Numerical Simulation	M K Haridharan and	International	2015/08, No. 01,
	of Damage in	C Natarajan	Journal of Earth	129-135
	Reinforced Concrete		Sciences and	
	Slab subjected to		Engineering	
	Elevated Temperature			
6	Assessment of	Rajesh R, Saravanan	International	Vol. 10(33),
	Artificial Recharge on	S, Manjula R,	Journal of	241877-24192.
	Ground water table	Antony Raj A and	Applied	
	and quality - A case	Ramya M	Engineering	
	study at NIT Trichy",		Research	

National Journal

S. No.	Title	Author(s)	Journal	Year Vol. (No) Page
1	Investigation of the	BharathiMurugan R.	Structural	2015/
	behavior of concrete	and C. Natarajan	Engineering	Volume
	containing waste tire		Convention	03,1795-
	crumb rubber		(SEC-2014) ,IIT	1802
			Delhi, Advances in Structural	
			Engineering,	
2	Df	M C 111 C	Springer India	2015/
2	Performance Studies on	M. Sudhakar, George	Structural	2015/
	Geopolymer Based Solid	M. Varghese and C.	Engineering Convention	Volume
	Interlocking Masonry Blocks	Natarajan		03,1687- 1701
	DIOCKS		(SEC-2014), IIT Delhi, Advances	1701
			in Structural	
			Engineering, Springer India	
3	Study on the Properties of	M.R. Lokeswaran	Structural	2015/
3	Cement Concrete Using	and C. Natarajan	Engineering	Volume
	Manufactured Sand	and C. Ivatarajan	Convention	03,1803-
	Wandactured Sand		(SEC-2014), IIT	1809
			Delhi, Advances	1007
			in Structural	
			Engineering,	
			Springer India	
4	Performance assessment	Ch. Venkateswarlu	Structural	2015/
•	of RC beams with CFRP	and C. Natarajan	Engineering	Volume
	and GFRP sheets	and O. I (attainguil	Convention	03,1987-
			(SEC-2014), IIT	2000
			Delhi, Advances	

			in Structural	
			Engineering,	
			Springer India	
5	Behaviour of Two Way	N. RaveendraBabu,	Structural	2015/
	Reinforced Concrete Slab	M.K. Haridharan and	Engineering	Volume
	at Elevated Temperature	C. Natarajan	Convention	03,2285-
			(SEC-2014), IIT	2298.
			Delhi, Advances	
			in Structural	
			Engineering,	
			Springer India	
6	Interaction Study on	M. Sudhakar, M.P.	Structural	2015/
	Interlocking Masonry	Raj and C. Natarajan	Engineering	Volume
	Wall UnderSimultaneous		Convention	03,2471-
	In-Plane and Ou t-of-Plane		(SEC-2014), IIT	2480
	Loading		Delhi, Advances	
			in Structural	
			Engineering,	
			Springer India	

8. Ph.D Awarded: Nil

9. Details of Book any authored by faculty: Nil 10. Patent if any obtained by faculty: Nil

11. Other Important Points: Nil

12. Summary

S.No	Details		Total nos
1.	International Journals	26	
2.	National journals	9	
3.	International conference publications	10	
4.	National conference publications	9	
5.	Sponsored Project	No's:	Amount:
6.	No of Ph.D produced		,
7.	No of Patents obtained		
8.	No of books published		

DEPARTMENT: COMPUTER SCIENCE AND ENGINEERING

9. Notable Achievements

a. Faculty Members: Nil

b. Students

S.No	Name	Details of Prizes/Awards	Organization
1	KoppalaGuravaiah (Ph.D)	Best Paper Award	Eleventh International Multi Conference on Information Processing, Bangalore.
2	Amrith Rajagopal Setlur (3 rd year CSE)	Awarded President Gold Medal for best academic performance (Delhi Region) in 2015	
3	Abha Suman (3 rd year CSE)	WON THE OVER ALL CHAMPIONSHIP FOR KHO KHO	IIT KANPUR SPORTS FEST
4	Rishi rajashekaran (3 rd year CSE)	Winner of Tata Crucible Business Quiz Trichy Round Winner of IIT Madras Shaastra Main Quiz	
5	Arun Sai K (4 th year CSE)	Admission to graduate school at the School of Computer Science, Carnegie Mellon University. Awarded the Mitacs Globalink Research Fellowship.	
6	Vikash Kumar (M.Tech 2 nd year)	2 nd Prize in Linux Hackathon during OpenPower and trends in Hyperscale Datacenter Workshop	IBM ISDL
7.	Rajdeep Paul (M.Tech 2 nd year)	created an online test portal (mcqstreet.com) which was selected for mentoring phase of Ventura'15	NITT Entrepreneur Event
8.	Sabari Girish (M.Tech 2 nd year)	2 nd Prize won GPU Coding competition	

		lard	
9.	Sagar Bhayani	3 rd prize won GPU Coding	
	(M.Tech 2 nd year)	competition	
10	Panigrahi smrutitilak	1st in paper presentation,1st in	
	dash (2 nd year CSE)	code-e-philia in infrotek 2016	
		organised by acm organisation	
		nit trichy.	
		3rd in ashwamedha 3.0,	
		national level algorithmic	
		coding contest, held in	
		thiruvanantapuram,kerela.	
11	Panigrahi smrutitilak	3rd place, code-o-soccer event	
	dash, Arun	of kshitij - iit kharagpur techno-	
	Ramachandran,	management fest	
	(2 nd year CSE)		
12	Panigrahi		
	Smrutitilak Dash,		
	Arun		
	Ramachandran, And	3rd place, "three-is-a-crowd"	
	Prajwal K. R. (2 nd	event of pragyan 2016 (
	year CSE)	2nd place, "ospc", vortex 2016	
13	Harish Rithish S (2 nd	Secured 2nd place in sangam,	
	year CSE)	pragyan, for the project 'real-	
	<i>J ,</i>	time human fall recognizer for	
		elderly'	
14	Lakshmanaram (2 nd	Simple yet imactful award -	
	year CSE)	ingenius hackathon, pesit	
	J = == -,	bangalore.	
		Second place in shaastra circuit	
		design challenge - shaastra, iit	
		madras	
		third place in reverse coding -	
		shaastra iit madras	
		and there was an article	
		mentioning the working of my	
		sangam project in the "new	
		indian express" newspaper	

15	Jeyassri.B, (2 nd year	Won the first prize, for paper	
	CSE)	presentation event at digital	
		india week workshop at nitt	
		Paper presented on "the	
		potential of big data analytics	
		in rural healthcare and	
		education in india" at digital	
		india week workshop at nitt.	
		Attended Digital India week	
		workshop organized by NITT	

10. Conference

a. Organized

International: Nil

National: Nil

b. Papers presented by the Faculty/Students

International

S.No	Author(s)	Details
1.	E.Sivasankar and S.Mahalakshmi	'Cross Domain Sentiment
		Analysis using different
		Machine Learning Techniques'
		in the Fifth International
		Conference on Fuzzy and Neuro
		Computing (FANCCO - 2015)
		organized by Institute for
		Development and Research in
		Banking Technology,
		Hyderabad
2.	Vollala, S., Varadhan, V. V., Geetha,	Efficient modular multiplication
	K., & N. Ramasubramanian	algorithms for public key
		cryptography
		Advance Computing Conference
		(IACC), 2014 IEEE
		International, , Gurgaon, India
3.	Yadav, P. K., & Ramasubramanian, N	Power consumption of Android
		device using different video
		codecs: An analysis
		Advance Computing Conference
		(IACC), 2014 IEEE
		International, Gurgaon, India

4.	Tamizharasan, P. S., Praveen Kumar Yadav, N. Ramasubramanian, and K. Geetha	Performance enhancing factors for manycore architectures: State-of-the-art In Networks & Soft Computing (ICNSC), 2014 First International Conference ,Guntur, India
5.	B. C. Manjith , Praveen Kumar Yadav, R. Sangeetha and N. Ramasubramanian	A Survey of Hardware – Software Security Architectures to Cloud Server International Conference on Computer Communication Networks (ICCN 2014), Bangalore, India
6.	Praveen Kumar Yadav, and N. Ramasubramanian	Efficient Resource Utilization in Mobile Devices Using Bayesian Framework Based Saliency Mapping Bilingual International Conference, Information Technology: Yesterday, Today, and Tomorrow, Delhi, India
7.	Anand Prem Kumar, Vidya Thiyagarajan and N. Ramasubramanian	A Survey of Packet Classification Tools and Techniques First International Conference on Computing, Communication, Control And Automation
8.	T. Vidya Thiyagarajan and N. Ramasubramanian	Design of an Interconnect Topology For MultiCores And Scale-Out Workloads 3rd International Conference on Signal Processing, Communication and Networking (ICSCN), Anna University, Chennai
9.	Dr. S. Selvakumar Dr. Kanchana Rajaram	Achieving Excellence in Engineering Education through Improved Teaching-Learning Process, 2015 IEEE International Conference on Teaching, Assessment, and Learning for Engineering (TALE), 10-12 December 2015,

		United International College, Zhuhai, China
10.	Sachin Kumar and R. LeelaVelusamy	Latent Fingerprint Preprocessing: Orientation Field Correction using Region wise Dictionary International Conference on Emerging Trends in Electrical, Electronics & Sustainable Energy Systems (ICETEESES-16), IEEE, Sultanpur, India, Mar. 11-12, 2016
11.	M. Agrawal and R. L. Velusamy,	R-SALSA: A Spam Filtering Technique for Social Networking Sites" 3 rd IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCEECS-2016), Bhopal, India, Mar. 05-06, 2016.
12.	M. Agrawal and R. L. Velusamy	Unsupervised Spam Detection in Hyves Using SALSA," 4th International Conference on Frontier in Intelligent Computing: Theory and Applications (FICTA-2015), Durgapur, India, Nov. 16-18, 2015, pp. 517-526.
13.	KoppalaGuravaiahand R. LeelaVelusamy,	RFDMRP: River Formation Dynamics based Multi-Hop Routing Protocol for Data Collection in Wireless Sensor Networks in Eleventh International Multi Conference on Information Processing, Elsevier Procedia-Computer Science, Bangalore, India, Aug. 21-23, 2015, pp. 31-36.
14.	Sachin Kumar and R. LeelaVelusamy	Latent Fingerprint Preprocessing: Orientation Field Correction using Region Wise

		Dictionary, 4 th International
		Conference on Advances in
		Computing, Communications
		and Informatics (ICACCI-2015),
		IEEE, Kochi, Kerala, India,
		Aug. 10-13, 2015,pp.1238-1243
15.	Amedapu Srinivas and R.	Identification of Influential
	LeelaVelusamy	Nodes from Social Networks
		based on Enhanced Degree
		Centrality Measure, the
		5th International Conference,
		2015 IEEE International
		Advance Computing Conference
		(<i>IEEE IACC 2015</i>), Bangalore,
		Karnataka, June 12-13, 2015,
		pp. 1179-1184.
16.	Arun Sai Krishnan, Xiping Hu, Jun-qi	A Novel Cloud-Based Crowd
	Deng, Renfei Wang, C. Zhu, M. Liang,	Sensing Approach to Context-
	Victor C.M Leung and Yu-kwong	Aware Music Mood-Mapping
	Kwok	for Drivers. IEEE CloudCom
		2015, Vancouver, Canada.
		, ,
		Towards In Time Music Mood-
		Mapping for Drivers: A Novel
		Approach. ACM MSWiM-
		DIVANet Symposium 2015,
		Cancun, Mexico.
17.	T. Raja Sree and Dr. S. Mary Saira	"Identifying HTTP DDoS
1,.	Bhanu	Attacks Using Self
		Organizing Map and
		Fuzzy Logic in Internet
		Based Environments"
		International Conference
		on Advanced Computing,
		Networking and
		Informatics (ICACNI-
		`
		2015), organized by
		School of Computer
		Engineering, KIIT
		University, Odisha, India,
		23-25 June 2015, pp 259-
		269.
10	D Chamaadha Dagues M	International conference or
18.	B.Shameedha Begum, N.	International conference on

	Ramasubramanian	'Computing &Network
		Communications' at Trivandrum
		by IIIT-K from December 16 th
		to December 19 th 2015.
		Title:A Comparative Study of
		Cache Performance for
		Embedded Applications
19.	B.Shameedha Begum, Sathyanarayana	International conference on
	V,	'Computing &Network
	N. Ramasubramanian	Communications' at Trivandrum
		by IIIT-K from December 16 th
		to December 19 th 2015.
		Title:Hardware Design for
		Multiplicative Modular Inverse
		Based on Table Look Up
		Technique

National: Nil

11. Workshops/Seminars

a. Organized

Coordinator	Title	Period
Dr. S. Selvakumar	Information Security and	29, Jan.'16, 30, Jan.'16
	Risk Management (TCS)	
Dr. S. Selvakumar	Information Security and	26, Feb.'16
	Risk Management	27, Feb.'16
1. Dr. N.Ramasubramanian	Two days Workshop on	27th and 28 th , August 2015
2. B. Shameedha Begum	Advanced Embedded	
	system design on Zynq	
	using Vivado targeting	
	Zed board	

b. Attended

Faculty	Details
B. Shameedha Begum	Two Week ISTE STTP on "Design of Algorithms" 25th May - 30th May, 2015
R.Mohan	Two Week ISTE STTP on "Design of Algorithms" 25th May - 30th May, 2015

Students	Details
KoppalaGuravaiah	Computer Science Conference of All NITs (C-SCAN'16) at NIT Calicut on 20 th – 21 st February 2016.
	IEEE medical IoT Workshop Organized by IEEE Bangalore Chapter at Department of Computer Science, Kristu Jayanti College, Bangalore on 16 th -17 th October 2015.
	Short term course on "Fundamental of Soft Computing and its applications" at Indian School of Mines, Dhanbad on 9 th – 13 th September 2015.
	5 th workshop on "Simulation of wired and wireless networks (SWN-2015)" at Wireless Information Networking Group(WiNG), Dept. of CSE, NIT Surathkal, Karnataka on 8 th -10 th June 2015.
Vikash Kumar, Rajdeep Paul, Anubhuti Agrawal, Aditya Agrawal, Apollo Doley, Revathi Uddaraju and Gajula Venkata Balakrishna	attended workshop on OpenPower and trends in Hyperscale Datacenter conducted by IBM India Systems Development Lab. (11 Mar, 2016).
Hemanthkumar S	workshop on PARALLEL COMPUTING WITH GPUs conducted by GPU Centre of Excellence (GCOE), IIT Bombay organized by NIT Trichy.(Mar 2016).
Prakash Borkar and Revathi Uddaraju	organized GPU Coding Workshop in Pragyan 2016
Vikash Kumar, Prakash Borkar, Sabari Girish, Anubhuti Agarawal, Sagar Bhayani, Sriram S, Atul Sharma, Revathi Uddaraju, Sangeetha Vikraman, Aditya Agrawal, HemanthKumar S	participated in workshop on Advanced Embedded System Design on Zynq using Vivado targeting Zed board (Apr 2015).
Sriram S	organized GPU Coding Workshop in Pragyan 2015.

Sagar Bhayani,	participated in this workshop GPU Coding competition
Sabari Girish,	
Anubhuti Agrawal,	
Apurva	
Choudhary, Prakash	
Borkar	

12. Invited/Guest Lectures delivered by the Faculty

Faculty	Topic	Programme	Place & Date
K.V. Iyer	Approximatio n Algorithms	Workshop Sponsored By TEQIP-II.	October 2015, Thiagarajar College Of Engg, Madurai
Kunwar Singh	Guest Lecture On RECENT TRENDS IN CRYPTOG- RAPHY', Tamilnadu.	I Day Seminar	November 2015, Department Of Computer Science And Engineering, Thiagarajar College Of Engineering, Madurai,
Kunwar Singh	Provable Secure Public Key Encryption Scheme And Provable Secure Signature Scheme.	Workshop On Formal Methods In CryptograPhy"	January 2015, National Engineering College, Kovilpatti - Tamilnadu, India.

13. Sponsored Projects undertaken: Nil

14. Major Equipment/Software Purchased (more than Rs.5.00 lakh.)

	S.No.	Equipment	Amount (Rs. In Lakhs)
Ī	1.	Computer Systems (30 Nos.)	15.882

15. Research Papers Published in National/International Journals

a. Faculty

International Journal

S.No.	Title	Author(s)	Journal	Year Vol. (No) Page
1.	A dynamic intranet- based online-portal support for Computer Science teaching, Education and Information Technologies,	K.V.Iyer	Official journal of IFIP Technical Committee on Education	Dec. 2015.
2.	Channel Status based Sliding Contention Window (CS-SCW) algorithm: A Fuzzy Control Approach for Medium Access in Wireless Networks,	B. Nithya,C. Mala, E. Sivasankar	Soft Computing, ", DOI 10.1007/s00500- 015-1894-z	Published online 29 Oct 2015.
3.	Hashing Based Distributed Backoff (HBDB) Mechanism for IEEE 802.11 Wireless Network.	M. Devipriya, B. Nithya, and C. Mala	Journal of Internet Services and Information Security (J	vol 5, no 3, August 2015, pp. 1-18.
4.	Multilevel threshold selection for image segmentation using soft computing techniques	C.Mala and M.Sridevi	Soft computing, Springer	pp 1-18. (Published online on May 2015)
5.	Performance	KoppalaGur	International	9(4), 22-33, 2015.

6.	Analysis of RFDMRP:River FormationDynamic s based Multi-Hop Routing Protocol in WSNs Cooperative Routing In Mobile	avaiah and R. LeelaVelusa my U.Venkann a and R.	Journal of Information Processing, IK International Publishing House Pvt. Ltd., New Delhi, India, International Journal of Ad	ISSN: 0973-8215 2015.
	Ad Hoc Networks Using Fuzzy Logic	LeelaVelusa my,	Hoc and Ubiquitous Computing (IJAHUC), Inderscience,	
7.	A Cooperative Routing for MANET Based on Distributed Trust and Energy Management	U.Venkann a ,Jeh Krishna Agarwal, and R. LeelaVelusa my,	Wireless personal communication, Springer, Netherlands	Vol. 81, Issue 3, 2015, pp. 961-979.
8.	Intraclass and interclass correlation coefficient-based feature selection in NIDS dataset	Vasudevan, A. R. and S. Selvakumar	Security and Communication Networks", Wiley Publications.	May 2015, Vol 8 Issue 18
9.	LAWRA: A LAyered WRapper Feature Selection Approach for Network Attack Detection	Sangeeta Bhattachary a and S. Selvakumar	Security and Communication Networks, Wiley Publications.	May 2015, Vol 8 Issue 18
10.	Multi Measure Multi Weight Ranking Approach for Identification of the Network Features for the Detection of DoS and Probe Attacks	Sangeeta Bhattachary a and S. Selvakumar	The Computer Journal, Oxford Publications	DOI:10.1093/comj nl/bxv078

National Journal: Nil

b. Students

International Journal: Nil National Journal: Nil

16. Ph.D Awarded

S.	Name of the Research	Guide/Supervisor	Univers	Date	Degree
No.	Scholar		ity/Insti		
			tute		
1.	R. Mohan	Prof. N. P. Gopalan	NITT	Oct-14	
2.	M. Sridevi	Dr. C. Mala	NITT	Jul-15	Ph. D.
3.	B. Nithya	Dr. C. Mala	NITT	Jul-15	PII. D.
4.	U.Venkanna	Dr. R.Leelavelusamy	NITT	Jul -15	
5.	UmaaMaheshwari	Dr. C. Mala	NITT	Jun-15	
6.	Suriender Singh	Dr. S. Selvakumar	NITT	Jun-15	
7.	Praveen Kumar Yadav	Dr. N. Ramasubramanian	NITT	Jul-15	
8.	Pravin Ranjan	Dr. R. LeelaVelusamy	NITT	Nov-15	M.S.
9.	B Mahesh babu	Dr. S. Mary SairaBhanu	NITT	Dec-15	W1.S.
10.	KamaleshHingwe	Dr. S. Mary SairaBhanu	NITT	Mar-16	
11.	Vignesh Raja P	Dr. E. Siva Sankar	NITT	Mar-16	
12.	Sree Krishnan V	Dr. E. Siva Sankar	NITT	Apr-16	

Details of Books authored by Faculty; Nil Patent if any obtained by faculty: Nil

Other Important Points: Nil

Summary:

S.No	Details		T	otal nos	
1.	International Journals	10			
2.	National journals	Nil			
3.	International conference publications	19			
4.	National conference publications	Nil			
5.	Sponsored Project	No's:	Nil	Amount:	Nil
6.	No of Ph.D produced	4		-	•
7.	No. of MS produced	8			
8.	No of Patents obtained	Nil			
9.	No of books published	Nil			

DEPARTMENT : COMPUTER APPLICATIONS

1. Notable Achievements

1.1 Faculty Members:

S.No	Name	Details of Prizes / Awards	Organization
1.	Dr.N.Gopalan	National Level 'Eminent Engineer' Award	Computer Division by FEI (Feb 2016)

1.2 Students: Nil

2. Conference

2.1 Organised

International

S.No	Coordinator	Programme	Period
1.	Dr.P.J.A.Alphonse	FACT' 15	March 06 th and 07 th 2015
2	Dr.P.J.A.Alphonse	FACT' 16	March 18 th and 19 th 2016

National: Nil

2.2 Papers presented by the Faculty / Students

International

Author (s)	Details
Sheba Selvam and B.Ramadoss and S. R.	A Combined Clustering Approach for Social
Balasundaram	Event Detection in Flickr, 2 nd International
	Conference on Data Engineering and
	Communication Systems ICDECS – 2015,
	Dec 28-29, 2015, RVS Institute of
	Technology, Bangalore
Arish Pitchai, AV Reddy, Nickolas Savarimuthu	Quantum walk based Genetic Algorithm for
	0-1 Quadratic Knapsack Problem,
	Proceedings of the International Conference
	on Computing and Network
	Communications, IEEE, 2015.

National

Author (s)	Details
Dr.A.Vadivel	Present Day Views Significances and challenges in Big data Research in the National Conference on Big data and Sciences(BADS-2015)

3. Workshops / Seminars

3.1 Organized

Coordinator	Title	Period
	openPower and trends in Hyperscale datacenter	11 th March 2016
Dr.A.Vadivel	Video Analytics	27 th and 28 th Nov - 2015
	English for Writing Ph.D Thesis and Journal Papers	Jan 20 – 22, 2016
Dr.S.R.Balasundara Digital India Workshop sponsored by DeitY and NeGD		18/08/2015
Dr.S.Domnic, DR.B.Janet, Dr.S.Sangeetha	Tools and Techniques for Information Processing Research	Sep 11&12 2015
Dr. U. Srinivasulu Reddy	Two Weeks ISTE STTP Workshop on Introduction to Design of Algorithms(Conducted by IIT Kharagpur under NME through ICT(MHRD)) Big Data Analytics: Tools & Techniques	April 27th to 30 th May 2015 8 th to 12 th , June 2015
Dr.B.Ramadoss and Dr.S.R.Balasundara m	Two Day Workshop on R Programming Language	16/10/2015 and 17/10/2015

3.2 Attended

Faculty	Details			
Dr.A.Vadivel	Attended 2015 International conference on Communication and			
	Information Processing(ICCIP) in Tokyo, Japan during Nov 5-			
	6,2015			
Dr.S.R.Balasundaram	4 th Annual NKN Workshop during January 21-22, 2016			
R. Eswari	Attended a 2-day TEQIP-II sponsored workshop on "Conclave on Academic Reforms", organized by National Institute of Technology, Tiruchirappalli, on 28 th & 29 th April, 2015			
	Participated in the two-week ISTE Short Term Training Programme on "Introduction to Design of Algorithm organized by Department of CSE, Indian Institute Technology, Kharagpur, from April 27 to May 30, 2015			
Dr. U. Srinivasulu Reddy	One - Week ISTE STTP on Introduction to Design of			

Algorithms to be held during	16th	March	2015 -	20th	March
2015. IIT Kharagpur.					

Students: Nil

4. Invited / Guest Lectures Delivered by the Faculty

Faculty	Topic	Programme	Place & Date
	Research Trends	Two-Day National	Kongu Arts and Science
	and Challenges in	Seminar on Research	College on 04-02-2016
	IT	Trends and Challenges	
		in IT	
	A fuzzy rule -	UGC-SAP Two Day	Periyar University,
Dr.A.Vadivel	based approach	Seminar on Medical	Salem on 30-10-2015
	for	Image Analysis	
	characterization		
	of mammogram		
	masses into BI-		
	RADS sheep		
	categories		th
	Real Time Video	Workshop on Real Time	Anna University on 11 th
	Analytics	Video Analytics	$-12^{\text{th}} \text{ sep } 2015$
	Web	TEQIP II Sponsored	Alagappa Chettiar
	Technologies and	One Week Workshop	College of Engineering
	Next Levels	On "Advances in Mobile	and Technology
		& Web Application	On 27/02/2016
Dr.S.R.Balasundaram	Essina des	Development"	Amagi Engineaning
Dr.S.K.Darasundaram	Facing the	Innovista 2016,	Arunai Engineering
	Complexities of	Technical Symposium	College,
	Technology Stack	conducted by MATRIX	Tiruvannamalai , 04/03/2016
		Association, Dept. of Information	04/03/2010
		Technology,	
		reciniology,	
		Arunai Engineering	
		College, Tiruvannamalai	
	Personalised	Higher Education in	St.Joseph's College
	E-Learning	Knowledge Age:	24/02/2016
		Techno-Pedagogical	
		Perspectives and	
		Innovations conducted	
		by Dept. of Educational	
		Technology,	
		Bharathidasan	
		University	

Dr.S.Nickolas	Big Data Analytics Big Data Analytics	National Conference on New Horizons in Computational Intelligence and Informations Systems WCC International Conference on Viable Synergies in Mathematical and Natural Sciences	Gandhigram Rural Institute – Deemed University, Gandhigram, Dindigul, 18/12/2015 Women's Christian College, Chennai, 7/1/2016	
	Data Mining	2-day workshop on "Data Mining Tools and Techniques"	Anna University, BIT Campus, Trichy, 19/2/2016	
	Mathematical Transforms for Image Analysis	Workshop on Image Analysis and Computer Vision	25, November-2015, CIT, Coimbatore, India	
Dr.S.Domnic	Mathematical Transforms for Video Analysis	Workshop on Video Analytics	27, November-2015, NIT, Trichy, India	
	Mathematical Transforms for Image Processing	M.Phil Scholars	Gandhigram Rural Institute-Deemed University, Gandhigram, Feb 29, 2016, India	
Dr.S.Sangeetha	Text Data Processing using Python	Tools and Techniques for Information Processing Research	11-09-2015 & 12-09-2015	
Dr. U. Srinivasulu	Particle Swarm optimization Vs Genetic Algorithm	Workshop on Genetic Algorithms	Sastra University & 27.09.2015.	
Reddy	Introduction to Soft Computing techniques and their applications	Five day FDP on "Soft Computing Techniques"	Dept. of IT, Govt. Engineering College, Srikrishnapuram, kerala & 09-02-2016	

5. Sponsored Projects undertaken.

Co-ordinator	Name of the project	Sponsor	Amount (Rs. In Lakhs)
Dr.S.Domnic	Detection of pectoral muscle and mass in mammogram image for early diagnosis of breast cancer to increase the life span of women	DST, Disha division	3.256L

6. Major Equipment / Software Purchased (more than Rs. 5.00 lakh.)

S. No.	Equipment	Amount (Rs. In Lakhs)
1.	20 Desktop Computers for Department Laboratory	10

7. Research Papers Published in National / International Journals

7.1 Faculty

International Journal

S. No.	Title	Author(s)	Journal	Year Vol. (No) Page
1.	Indexing and Encoding based Image Feature Representation with Bin Overlapped Similarity Measure for CBIR Applications	Shaila S. G and A. Vadivel	Journal of Visual Communication and Image Representation, Elsevier Science,	2016, Vol. 36(1), pp. 40-55
2.	FOSIR: Fuzzy-Object- Shape for Image Retrieval Applications	Shanmuga Vadivu P, Sumathy P, Vadivel A	Nuero Computing, Elsevier Science	2016, Vol. 171(1), pp.719- 735
3.	TAG Term Weight based N gram Thesaurus Generation for Query Expansion in Information Retrieval Application	Shaila S. G and A. Vadivel	International Journal of Information Science, SAGE Publications	(2015), PP. 1-21, Print ISSN: 0165-5515, Online ISSN: 1741- 6485, DOI: 10.1177/016 5551510000 000

4.	"Criminal Event Detection and Classification in Web Documents Using ANN Classifier"	J.Sheela and A. Vadivel,	International Journal of Signal Processing Systems	Vol.4 (5), pp.382-388, 2015.
5.	A, Effect of BIRADS Shape descriptors on Breast Cancer Analysis	Surendiran.B, Ramanathan P and Vadivel	International Journal of Medical Engineering and Informatics, Inderscience	(2015), Vol. 7, No. 1, pp.65-79.
6.	Cellular Automata-Based PSO Algorithm for Aligning Multiple Molecular Sequences	Jayapriya, J. and M. Arock	International Journal of Applied Evolutionary Computation (IGI- Global)	7(1), 1-15. 2016
7.	Enhanced Bio-Inspired Algorithm For Constructing Phylogenetic Tree, Journal of Soft Computing	Jayapriya, J. and M. Arock	Journal of Soft Computing (ICTACT	6(1), 1061- 1069, 2016
8.	Individualised training sheet composition of math word problems for learners with reading difficulties using genetic algorithm	K. Nandhini; S.R. Balasundaram	International Journal of Technology Enhanced Learning, Inderscience Publishers	2015 Vol.7, No.2, pp.160 –
9.	A Graph Based Cloak Algorithm to Preserve Location Privacy in Location Based Services	Shanthi P., S.R.Balasundara m	International Journal of Information Privacy, Security and Integrity, Inderscience Publishers	Accepted for publication Vol. to be assigned
10.	Metaheuristic algorithms and probabilistic behaviour: a comprehensive analysis of Ant Colony Optimization and its variants	Anandkumar Prakasam, Nickolas Savarimuthu	Artificial Intelligence Review	2016, 45 (1), 97-130
11.	Fuzzy based Quantum Genetic Algorithm for Project Team Formation	Arish Pitchai, AV Reddy, Nickolas Savarimuthu	International Journal of Intelligent Information Technologies	2016, 12(1), 31-46
12.	Application based brokering algorithm for optimal resource provisioning in multiple heterogeneous clouds	Thiruselvan Subramanian, Nickolas Savarimuthu	Vietnam Journal of Computer Science	2016, 3(1), 57-70

13.	Cloud service evaluation and selection using fuzzy hybrid MCDM approach in	Thiruselvan Subramanian, Nickolas	International Journal of Fuzzy System Applications	2016, 2(8)
14.	marketplace A hybrid discrete firefly algorithm for solving multi-objective flexible job shop scheduling problems	Savarimuthu S Karthikeyan, P Asokan, S Nickolas, Tom Page	International Journal of Bio-Inspired Computation	2015, 7(6), 386-401
15.	Effective task scheduling for heterogeneous distributed systems using firefly algorithm	R. Eswari, S. Nickolas	International Journal of Computational Science and Engineering	2015,11(2), 132–142
16.	Modified Multi-Objective Firefly Algorithm for Task Scheduling Problem on Heterogeneous Systems	R. Eswari, S. Nickolas	International Journal of Bio-Inspired Computation	2016
17.	Quantum walk algorithm to compute subgame perfect equilibrium in finite two-player sequential games	Arish Pitchai, AV Reddy, Nickolas Savarimuthu	International Journal of Mathematical Sciences and Computing	2016
18.	A New Variable-length Integer Code for Integer Representation and Its Application to Text Compression,	J. Nelson Raja, P. Jaganathan and S. Domnic	, Indian Journal of Science and Technology	Vol 8(24), IPL0385, September 2015.
19.	Extended Rice Code and Its applications to R-Tree Compression,	S.Domnic and V.Glory	IETE Journal of Research	61(6) 2015.
20.	Walsh Hadamard Transform Kernel based Feature Vector for Shot Boundary Detection",	G.G.Lakshmi Priya and S.Domnic	IEEE Trans. on Image Processing	23(12), 5187-5196, 2014
21.	Shot based Keyframe Extraction for Ecological Video Indexing and Retrieval"	G.G.Lakshmi Priya and S.Domnic	International Journal of Ecological Informatics	23, 107-117, 2014
22.	Shot Boundary Detection Using Hilbert Transform based Features	G.G.Lakshmi Priya and S.Domnic	", ICTACT Journal On Image and Video Proc.,	Vol.5 (4), pp:1001- 1009, 2015
23.	Compressing Inverted Index Using Optimal FastPFOR",	V. Glory, S. Domnic,	Journal of Information Processing	Vol.23(2), pp.1-7, 2015

24.	Modified Golomb Code for	J. Nelson Raja, P.	International Journal	Vol. 3, Issue
	Integer Representation	Jaganathan and S.	for Scientific Research	10, 2015
		Domnic	& Development	
25.	Effective Task Scheduling	R.Eswari and	International Journal of	Vol.11,
	for Heterogeneous	S. Nickolas	Computational Science	No.2,
	Distributed Systems using		and Engineering,	pp.132-142,
	Firefly Algorithm		Inderscience	2015

National Journal: Nil

7.2 Students

International Journal: Nil

National Journal: Nil

8. Ph.D Awarded

S. No.	Name of the Research Scholar	Guide / Supervisor	University / Institute
1	V.Glory	Dr.S.Domnic	NIT, Trichy
2	Shaila S G	Dr. A vadivel	NIT Trichy

9. Details of Books authored by faculty.

10. Patent if any obtained by faculty: Nil

11. Other Important Points: Nil

12. Summary

S.No	Details	Total nos			
1.	International Journals	25			
2.	National journals	-	-		
3.	International conference publications	9	9		
4.	National conference publications	2	2		
5.	Sponsored Project	No's:	No's: 1 Amount: 3.256L		3.256L
6.	No of Ph.D produced	2	•	•	•
7.	No of Patents obtained	-	-		
8.	No of books published	-			

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Notable Achievements

1.1. Faculty Members

S.No.	Name	Details of Prizes/Awards	Organization
1.	Dr. M. Venkata Kirthiga	"Distinguished Alumni Award – in the field of Academics"	Anjalai Ammal Mahalingam Engineering College, Kovilvenni, Thiruvarur.

1.2. Students

S.No.	Name	Details of Prizes/Awards	Organization
1.	Sanjay	pratibha award	CM chandrababu garu
2.	Dhedeepya	3rd prize trollphy, 1st place in essay writing competition	CATC-II NCC Camp
3.	Krishna Kumar	Silver in 10K marathon	NITT sports fete
4.	Raj Krishnan	3rd prize in film spoof	aaveg
5.	Jagan	2nd prize in channel surfing	aaveg
6.	Dilruba N	Bronze in 6.6k marathon	NITT sports fete
	Venkatesh	3rd place in table tennis	NITT sports fete
7.	Venkacesh	Design Internship in clozerr, connextech	Aaveg
8.	Veejay	3rd in Electrolution	pragyan INHOTT
9.	Suman raj	3rd place in Name the tune hindi	aaveg

1st football	
2nd basketball	
2nd volleyball	
3rd basketball	
Cricket men 1st	
Cricket women 2nd	NITT sports fete
Tennis 1st	
Table tennis 2nd	

$C. \ \ Conference \ / \ Seminars \ / \ Symposium \ / \ Special \ Lectures$

2.1. Organised:

S.No	Coordinator	Programme	Period
1.	Dr. M. Venkata Kirthiga	Current's 2016 Topic – "Awareness on Impact of Food Habits on Cancer at Young Age"	29th October, 2016
2.	Dr. M. Venkata Kirthiga	Current's 2016 Lecture on "Aspects of Education in Today's Scenario"	17 th February, 2016
3.	Dr. S. Arul Daniel	Special Lecture on "LT Spice Software"	June, 2015
4.	Dr. S. Arul Daniel	Special Lecture on ""offshore wind farm development and challenges"	April, 2015

2.2. Papers presented by the Faculty / Students

Author(s)	Details
Kevin Ark Kumar,	
Kinattingal Sundareswaran,	"Design, implementation and economic analysis of sustainable
PR Venkateswaran,	LED roadway lighting system in industrial environment" IEEE International Conference on Industrial Instrumentation and
Sankaran Palani,	Control (ICIC), 2015/5/28, pp 77-82
Baiju R Naina	
M Meenalochani, S Sudha,	"Fuzzy based Estimation of Received Signal Strength in a Wireless Sensor Network" 2015/8/10,Proceedings of the Third International Symposium on Women in Computing and Informatics, pp.624-628
Shobhit Kumar Nagpal, S Sudha	," <u>Two-Level Fuzzy Based Fire Prediction Scheme Using Wireless Sensor Network</u> " 2015/5/1, Advances in Computing and Communication Engineering (ICACCE), 2015 Second International Conference on, pp.57-62

2.3. Attended by the Faculty / Students

Faculty / Students	Details
Dr. Sishaj P Simon	Attended NPEC 2015 on the topic of "Presentation on Department activities" .at IIT Bombay. 20.12.2015 - 23.12.2015
	IIT Bombay.

3.0. Summer School / Winter School / Workshops

1.1. Organised

Co-ordinator	Title	Period	
Dr. S. Senthilkumar, Dr. N. Kumaresan & Dr. N. Ammasai Gounden	Two Days Workshop on "Operation and Control of Wind -driven Generators"	15 - 16, April 2016	
Dr. M. P. Selvan and Dr. S. Moorthi	Two Days Workshop on "Role of Power Electronics in Power Engineering" under TEQIP	4th – 5 th , March 2016	
Dr. S. Sudha	Two Days Workshop on "Internet of Things"	13 th – 14 th November, 2015	
Dr. S. Sudha	Simulation and Analysis of MANETs using Network Simulator (NS-2)	6th March, 2015	
Dr. C. Nagamani, Dr. M. Jaya Bharata Reddy & Dr. G. Saravana Ilango	Application of Power Electronics to Renewable Energy Systems and Micro Grids	8th – 10th February, 2015	

3.2. Attended

Faculty / Students	Details	
Dr. N. Ammasai Gounden	Attended TEQIP sponsored FDP at GCT, Coimbatore on the topic "Power Electronics renewable energy systems" at 25.05.2015 GCT, Coimbatore.	
Dr. N. Kumaresan	Attended CAR 2015 at IIT Madras.	
Dr. N. Kumaresan	Attended Jury for National level conference NCPI 2k 15 at K. Ramakrishnan college of Engineering, Trichy.	
Dr. M. Jaya Bharata Reddy	International Workshop on Synchrophasor measurement for Smart Grid, EEE Dept., MVGR College of Engineering, Vizianagaram,	

	Andhra Pradesh
Dr. G. Saravana Ilango	Attended NPEC 2015, 21.12.2015 – 22.12.2015 IIT, Mumbai
Dr. P.Raja	Attended international conference on Modeling and implementation of impedance based faculty locator for medium transmission line, 10.12.2015 CPRI, Bangalore.
Dr. M. P. Selvan	Attended international conference on Power and Environment, 11.06.2015 – 14.16.2015 NIT, Meghalaya.
Dr. Sishaj P Simon	Attended 5 th University Industry Congress confederation of Indian Industry and Ministry of Higher education, 1.12.2015 -04.12.2015 New Delhi

4. Invited / Guest Lectures Delivered by the Faculty

Faculty	Topic	Programme	Place & Date
P. R. Venkateshwaran, Senior Engineer, Welding Research Institute	EE405– Industrial Electronics	B.Tech.	National Institute of Technology, Trichy For one semester (2015-2016)
Dr. S. Dhamalingam General Manager Quality, BHEL, Trichy	EE008 – Electrical Safety (Global Elective)	B.Tech.	National Institute of Technology, Trichy For one semester (2015-2016)
Dr. S. Dhamalingam General Manager Quality, BHEL, Trichy	EE001 – Power Generation Systems	B.Tech.	National Institute of Technology, Trichy For one semester (2015-2016)

Ashok Kumar Natarajan Director of Engineering, Qualcomm	Making of SoC	B.Tech. and M.Tech.	NITT, A2 Hall, 9:30 A.M. to 10:30 A.M.
Arvindh Rajasekaran Staff Engineer, Manager, Qualcomm	Internet of Things	B.Tech. and M.Tech.	NITT, A2 Hall, 11.00 A.M. to 12.00
Anirban Chowdhury Frugal Labs Tech Solution Pvt Ltd	Basics of cloud computing, Wireless Sensor Networks and Arduino programming	Faculty and M.tech.	EEE Department, NITT, 13 th November, 2015
Abhay S Bharadwaj Frugal Labs Tech Solution Pvt Ltd	Wifi set up, Bluetooth Integration and Full IoT setup	Faculty and M.tech.	EEE Department, NITT, 14 th November, 2015
Dr. N. Ammasai Gounden	Power Electronics	Attended and handle courses at NIT, Uttarkhand.	03.10.2015 – 12.10.2015 NIT, Uttarkhand.
Dr. N. Kumaresan	Power Electronics and Networks and liner systems.	To handle courses at NIT, Uttarkhand.	03.10.2015-12.10.2015 NIT, Uttarkhand.
Dr. N. Kumaresan	Operation and control of wind driven stand alone DFIGS	To inaugurate AICTE sponsored FDP and delivered lecture at MepcoSchlenk Engineering College, Sivakasi.	11.05.2015 MepcoSchlenk Engineering College, Sivakasi.
Dr. N. Kumaresan	Operation and control of wind driven stand alone DFIGS with single inventor Battery systems.	Delivered lecture in SET conference at VIT, Vellore.	06.05.2015 VIT, Vellore.

Dr. M. Jaya Bharata Reddy	Synchrophasor Measurement Units (PMUs) Application in power system protection	Delivered lecture at GMRIT, Rajam,Srikakulam district, Andhra Pradesh.	EEE Dept., GMRIT, Rajam,Srikakulam district, Andhra Pradesh. 4th Feb 2016
Dr. M. Jaya Bharata Reddy	A guest lecture on Synchrophasor Measurement Units (PMUs) Application in smart grid	EEE Dept.,Bapatla Enginnering college,Bapatla, Guntur,Andhra Pradesh	19.09. 2015 Bapatla Enginnering college,Bapatla, Guntur,Andhra Pradesh
Dr. M. Jaya Bharata Reddy	Real-time Applications of Micro- controllers & DSP	A Faculty Development Programme (Technically Sponsored by IEEE Vizag Bay Sub-Section)	EEE Dept., MVGR College of Engineering, Vizianagaram, Andhra Pradesh June 15th – 19th, 2015
Dr. V Sankaranarayanan	Control Systems	Delivered guest lecture at Mount Zion College of Engineering, Pudukottai	Mount Zion College of Engineering, Pudukottai 05.08.2015
Dr. G. Saravana Ilango	Research in Electrical Engineering (TREE'15)	Delivered guest lecture at Mepcoschlenk college of Engineering, Sivakasi	15.05.2015 Mepcoschlenk college of Engineering, Sivakasi
Dr. P.Raja	The rise of renewable: Integration challenges and opportunities.	Delivered guest lecture at GCT, Coimbatore	11.06.2015 GCT, Coimbatore.
Dr. S. Moorthi	Embedded system design	Delivered guest lecture on FDP sponsored by AICTE- QIP	27.11.2015 CIT, Coimbatore.
Dr. M. P. Selvan	Research in Electrical Engineering (TREE'15)	Delivered guest lectureat Mepcoschlenk college of Engineering, Sivakasi	19.05.2015 Mepcoschlenk college of Engineering, Sivakasi.

Dr. M. P. Selvan	Challenges in grid connected renewable energy systems CGRES.	Delivered guest lecture at Mepcoschlenk college of Engineering, Sivakasi	25.06.2015 , Mepcoschlenk college of Engineering, Sivakasi.
Dr. Sishaj P Simon	Soft computing optimization techniques and its implementation using MATLAB / SCILAB	Delivered guest lecture at Christian college of Engineering.	19.06.2015 Christian college of Engineering, Bhilai
Dr. Sishaj P Simon	Unit commitment in smart grid and deregulated Environment	Delivered guest lecture at T.K.M. College of Engineering	25.11.2015 T.K.M. College of Engineering, Kerala
Dr. Sishaj P Simon	Application of optimization Techniques to Electrical systems "(AOTES-2015)"	Delivered guest lecture at shri Vishnu Engineering College for women.	07.09.2015 shri Vishnu Engineering College for women, Bhimavaram
Dr. S. Senthil Kumar	Application of Power Electronics in renewable energy systems.	Resource person for FDP at Muthayammal Engineering college Namakkal	14.12.2015 Muthayammal Engineering college Namakkal
Dr. S. Senthil Kumar	Control of permanent magnet synchronous	Delivered guest lecture at VIT, vellore	03.11.2015 VIT, vellore
Dr. S. Senthil Kumar	Introduction to power electronics simulations using MATLAB/ SIMULINK	Delivered guest lecture at MAM college, trichy.	27.08.2015, MAM college, trichy.
Dr. M. Venkata Kirthiga	Introduction to Distributed generation and Micro – grid.	TEQIP-II Sponsored FDP on role of Renewable Energy in an Indian Power Sector(RREIPS 15)	21.09.2015- 27.09.2015 Anna University Chennai.
Dr. M. Venkata Kirthiga	AC Machines	Guest lecture programme for B.Tech. Students.	0.10.2015-11.10.2015 NITT, Uttarakhand

Dr. M. Venkata Kirthiga	Optimal Sitting and sizing of DGS and load flow studies in Micro – grids.	Delivered guest lecture at BSM college of Engineering	07.12.2015 BSM college of Engineering
Dr. M. Venkata Kirthiga	AC Machines Induction Machines	Delivered guest lecture at M.Kumarsamy college of Engineering Karur	29.02.2016 M.Kumarsamy college of Engineering Karur.

${\bf 5.\ Sponsored\ Projects\ undertaken.}$

Sl.No.	Coordinator	Name of the Project	Sponsor	Amount (Rs. in Lakhs)
1.	Dr. N. Ammasai Gounden	Development of Micro grid controller integrated with multiple types of renewable sources and loads	Power Grid	14.95
2.	Dr. C. Nagamani, Dr. G. Saravana Ilango & Dr. S. Senthil Kumar	Dynamic loading of conveyor drive heads in mines	NLC	63.67
3.	Dr.G.SaravanaIlango	Design and Development of improved shunt active filter with enhanced signal processing with due consideration for distorted utility	DST	14.50
4.	Dr. G. Saravana Ilango	Electrical Design and Drawing for National Naval Academy, (Phase II works), Ezhimala, Kerala.	Mukesh & Associates consultants & Engineers Division 2,Salem	2.64

6. Major Equipment / Software Purchased (more than Rs. 5.00 lakh.):

S.No	Equipment	Amount (Rs. In Lakhs)
1.	Solar Simulator	7.12

7. Research Papers Published in National / International Journals

7.1. Faculty: NIL

7.2. Students & Faculty:

Sl. No.	Title	Author(s)	Journal	Year Vol. (No) Page
1.	A Single Sensor Based MPPT Controller for Wind-Driven Induction Generators Supplying DC Microgrid	V. Nayanar, N. Kumaresan and N. Ammasai Gounden	IEEE Trans. Power Electronics	Vol. 31, No. 2, pp. 161 – 172, 2016
2.	Speed sensor-less MPPT and constant output power operation of wind-driven WRIGs	K. Vijayakumar, N. Kumaresan and N. Ammasai Gounden	IET Power Electronics	Vol. 8, No. 1, pp. 33-46, 2015 (SCI – 1755-4535).
3.	Power Electronic Interface with MPPT using Line Commutated Inverter for Grid-connected Permanent Magnet Synchronous Generator	D. R. Binu Ben Jose, N. Ammasai Gounden and V. Rajesh	Electric Power Components and Systems	Vol. 43, No. 5, pp. 543 – 555, 2015 (SCI-1532-5008)
4.	An improved Power Electronic controller with unity power factor for single-stage grid tied PV systems	S.Krithiga , N.Ammasai Gounden	Arabian Journal of Science and Engineering (Springer)	Vol.39, No.10, pp.7173-7182. (SCI-1319-8025)

5.	A versatile method for computation of power pulsations in DFIG under grid imperfections	MA Asha Rani, C Nagamani, G Saravana Ilango	Renewable Energy,	2016/4/30, pp 143-153, vol. 88.
6.	A Simple Copper Loss Minimization Control Algorithm for a Grid Connected Squirrel-Cage Induction Generator Through Indirect Flux Optimization	Venkata Rama Raju Rudraraju, Chilakapati Nagamani & Ganesan Saravana Ilango	Electric Power Components and Systems	Volume 44, Issue 3, 2016. DOI: 10.1080/15325008.2015.1 111467
7.	Control Scheme for a Bidirectional Converter in a Self-Sustaining Low- Voltage DC Nanogrid	Saravana Ilango Ganesan, Dinesh Pattabiraman, Ramesh Krishna Govindarajan, Manoj Rajan, Chilakapati Nagamani	IEEE Transactions on Industrial Electronics	2 Issue, 10 Pages, pp. 6317-6326.
8.	A control scheme for improving the efficiency of DFIG at low wind speeds with fractional rated converters	Venkata Rama Raju Rudraraju, Chilakapati Nagamani, G Saravana Ilango	International Journal of Electrical Power & Energy Systems	2015/9/30, Vol. 70, pp. 61-69
9.	A stator voltage switching strategy for efficient low speed operation of DFIG using fractional rated converters	Venkata Rama Raju Rudraraju, Nagamani Chilakapati, G Saravana Ilango	Renewable Energy	2015/9/30, pp – 81, pp - 389-399
10.	Comparative Performance of Squirrel Cage Motors on GTO and IGBT Drives for Electric Traction in India	C Nagamani, R Somanatham, U Kusuma Kumari, U Chaitanya Kumar	i-Manager's Journal on Electrical Engineering	2015/7/1, vol. 9, issue 1, pp. 1

11.	Positioning of PV panels for reduction in line losses and mismatch losses in PV array	Srinivasa Rao Potnuru, Dinesh Pattabiraman, Saravana Ilango Ganesan, Nagamani Chilakapati	Renewable Energy	2015/6/30, vol. 78, pp. 264-275
12.	A Control Strategy for Hybrid Autonomous Power System with a Battery Management Scheme	Chellachi Kathiresan Aravind, Ganesan Saravana Ilango, Chilakapati Nagamani, Maddikara Jaya Bharata Reddy	Electric Power Components and Systems	2015/6/15, vol. 43, issue 8-10, pp. 1159-1172
13.	Renewable Power Generation Indian Scenario: A Review	Chilakapati Nagamani, Ganesan Saravana Ilango, Maddikara Jaya Bharata Reddy, Mohan Anitha Asha Rani, Zachariah Varghese Lakaparampi	Electric Power Components and Systems	2015/6/15, vol. 43, issue 8-10, pp. 1205-1213
14.	Optimal Su-Do-Ku based interconnection scheme for increased power output from PV array under partial shading conditions	P Srinivasa Rao, P Dinesh, G Saravana Ilango, C Nagamani	Frontiers in Energy	2015/6/1, vol. 9, issue 2, pp. 199-210
15.	Power Quality Analysis of Smart Grid Pilot Project, Puducherry	Ramakrishna Kappagantu, S Arul Daniel, Ankit Yadav	Procedia Technology	2015/12/31 ,vol. 21, pp. 560-568
16.	Analysis of Rooftop Solar PV System Implementation Barrier in Puducherry Smart Grid Pilot Project	Ramakrishna Kappagantu, S Arul Daniel, M Venkatesh	Procedia Technology	2015/12/31, vol. 21, pp. 490-497

17.	Development of BLDC Motor Based Elevator System Suitable for DC Microgrid	N. Ammasai Gounden Dwijasish Das, N. Kumaresan, V. Nayanar, K. Navin Sam	IEEE/ASME TRANSACTIO NS ON MECHATRON ICS	Accepted in IEEE, 2016
18.	A Novel Regression based clustering technique for Wireless Sensor Networks	N. Hemavathi and S. Sudha	Wireless Personal Communication s	Accepted for Springer, 2016
19.	Nonlinear control of mobile inverted pendulum	RM Brisilla, V Sankaranarayanan	Robotics and Autonomous Systems	2015/8/31, vol.70, pp.145-155
20.	Transmission line fault detection and localisation methodology using PMU measurements	P. Gopakumar, M. Jaya Bharata Reddy and D. K. Mohanta	IET Generation, Transmission & Distribution	Vol.9, Issue 11, pp. 1033- 1042, Aug. 2015.
21.	A Novel Topological Genetic Algorithm Based PMU Placement and Scheduling Methodology for Enhanced State Estimation, International	P. Gopakumar, M. Jaya Bharata Reddy and D. K. Mohanta	Journal on Electric Power Components & Systems (Taylor & Francis Publications)	Vol.43, Issue 16, pp. 1843-1858, Aug. 2015
22.	Pragmatic Multi-Stage Simulated Annealing for Optimal Placement of Synchrophasor Measurement Units in Smart Power Grids	P. Gopakumar, M. Jaya Bharata Reddy and D. K. Mohanta	Frontiers in Energy (Springer publication)	Vol. 9, Issue 2,pp.148-161, June 2015
23.	An Efficient Clustering Algorithm for Predicting Diseases from Hemogram Blood Test Samples	S Vijayarani, S Sudha	Indian Journal of Science and Technology	2015/8/10, vol.8,Issue17

24.	Design, Operation, and Control of S3 Inverter for Single-Phase Microgrid Applications	B Dastagiri Reddy, MP Selvan, S Moorthi	IEEE Transactions on Industrial Electronics	2015/9, IEEE Transactions on, vol.62, Issue.9, pp.5569-5577
25.	Embedded Control of n- Level DC-DC-AC Inverter	B Dastagiri Reddy, NK Anish, MP Selvan, S Moorthi	IEEE Transactions on Power Electronics	2015/7, vol.30, Issue.7, pp.3703-3711
26.	Effect of electrical parameters on morphology and in-vitro corrosion resistance of plasma electrolytic oxidized films formed on zirconium	M Sandhyarani, M Ashfaq, T Arunnellaiappan, MP Selvan, S Subramanian, N Rameshbabu	Surface and Coatings Technology	2015/5/15, vol.269, pp.286-294

8. Ph.D. Awarded (April 2015- Tilldate)

S.No.	Name of the Research Scholar	Guide / Supervisor	University / Institute
1.	Mr. Sankar Paddapati	Dr. K. Sundareswaran	National Institute of Technology, Trichy, 2015.
2.	Ms. K. Padmavathi	Dr. S. Arul Daniel	National Institute of Technology, Trichy, 2015.
3.	Mr. M. M. Rajan Singaravel	Dr. S. Arul Daniel	National Institute of Technology, Trichy, 2015.
4.	Mr. P. Gopakumar	Dr. M. Jaya Bharata Reddy	National Institute of Technology, Trichy, 2015.
5.	P. Srinivasa Rao	Dr. G. Saravana Ilango	National Institute of Technology, Trichy, 2015.
6.	C. K. Aravind	Dr. G. Saravana Ilango	National Institute of Technology, Trichy, 2015.

9. Details of Book any authored by faculty

Dr. Simon P Sishaj, "Soft Computing With MATLAB Programming", Oxford University Press, 2015

10. Patent if any obtained by faculty

Sl.No.	NAME	ТОРІС	DETAILS
1.	Dr. S. Sudha, Mr. K. Rajbabu	Template processor using rule centric approach	Application No.2948/DEL/2015

11. Other Important Points: NIL

12. Summary

S.No	Details		Total nos		
9.	International Journals		26		
10.	National journals		-		
11.	International conference publications		03		
12.	National conference publications		-		
13.	Sponsored Project	No's:	No's: 04 Amount: 95.76		95.76
14.	No of Ph.D produced		06		
15.	No of Patents obtained		01		
16.	No of books published		01		

DEPARTMENT: ELECTRONICS AND COMMUNICATION ENGINEERING

1. Notable Achievements

1.1 Faculty Members

S.No	Name	Details of Prizes / Awards	Organization
1	Dr.S.Raghavan	Executive member, TSI	Telemedicine Society
		Dec 6, 2015, Kolkatta	of India

1.2 Students

S.No	Name	Details of Prizes / Awards	Organization
1	Seema R Tirkey	Third prize for poster presentation	Telemedicine
			Congress 2015
2	Nitesh Jha	Third prize for poster presentation	Telemedicine
			Congress 2015

2. Conference2.1 Organised

International: Nil

National: Nil

2.2 Papers presented by the Faculty / Students

International

S.No	Author (s)	Details
1	Challa Nageswara Rao,	A U-Shaped Loop Antenna for In-Body Applications
	S.Raghavan	Int Conf on Micro-Electronics, Electromagnetics and
		Telecommunications, 2015
2	Challa Nageswara Rao,	Design of Broadband Implantable Loop Antenna for
	S.Raghavan	Human Brain Applications, ICETETS- 2016
3	Challa Nageswara Rao,	Design of Multiband Implantable Loop Antenna for
	S.Raghavan	Inbody Applications, PCCCTSG - 2015
4	V. Rajeshkumar, S. Raghavan	A Compact Split Ring Monopole Antenna (SRMA)
		for WLAN/WAVE/ITU Band Applications
		Communication and Energy Systems (SPICES), 2015
5	C.M. Cynthia and S.	A Flexible Conformal Loop Antenna for Intramuscular
	Raghavan,	Implantable Myoelectric Sensors Global Conference
		on Communication Technologies 2015
6	S. Imaculate Rosaline,	Compact dual band antenna for GSM/WiMAX
	S. Raghavan,	applications International IEEE Conference on Signal
		Processing, Communications and Networking
7	S. Imaculate Rosaline,S.	Metamaterial inspired patch antenna for WLAN
	Raghavan,	application Signal Processing, Communication and
		Networking (ICSCN), 2015

8	C.Sudheer Reddy, S.Raghavan	Rhombic CSRR based dual band antenna for wireless applications (ICECS'15).2015
9	P.Chakrapani, S.Raghavan	Reconfigurable antenna for wireless communication bands (ICECS'15).2015
10	Gourav kumar Mehta, S.Raghavan	Design of Quadruple Meander slot to microstrip patch antenna for RF energy scavenging system IEEE International Conference on Electronics and Communication Engineering 2015 (ICECS'15).
11	Deepthi P, S Raghavan, Manju Mohan	PSoC based Ultra low frequency meter" IEEE International Conference on Circuit, Power and Computing Technologies, ICCPCT,2015
12	Divya Chaturvedi, Seema Tirkey, Raghavan	Consequences of Biological effects on Human health due to Non-Ionizing Radiation, Telemedicine Congress, 2015
13	Seema R Tirkey, Nitesh Jha, R. Pandeeswari, S.Raghavan.	"A brief study on Metamaterial inspired Bio- Implantable Antenna", presented in 11 th International Congress of Telemedicine Society of India held on 27, 28, 29 November 2015 in Kolkata.
14	Nitesh Jha, Seema R Tirkey, R. Pandeeswari, S.Raghavan.	"A compact size microstrip triple band antenna loaded with SRR and CSRR for WCDMA, Wi-MAX and wireless applications", presented in 3 rd International Conference on Electronics and Communication Systems held on 25 and 26 February 2016 in Coimbatore, Tamil Nadu.
15	Seema R Tirkey, Nitesh Jha, R. Pandeeswari, S.Raghavan.	"Design of Flexible Meandered Loop Antennas Loaded with CSRR and SRR for Implantable Applications" accepted in IEEE International Conference on Wireless Communications Signal Processing and Networking going to be held on 23 – 25 March 2016 in Chennai, Tamil Nadu.
16	Nitesh Jha, Seema R Tirkey, R. Pandeeswari, S.Raghavan.	"A Novel Patch Antenna with C Shaped Slots for GSM,WiMAX and Navigational Applications" accepted in IEEE International Conference on Wireless Communications Signal Processing and Networking going to be held on 23 – 25 March 2016 in Chennai, Tamil Nadu.
17	Nitesh Jha, Seema R Tirkey, R. Pandeeswari, S.Raghavan.	"A performance improved compact size microstrip antenna loaded with CSRR for GSM, WLAN /WiMAX and WAVE applications." presented in International Conference on Emerging Trends in Engineering, Technology and Science held on 24, 25, 26 February 2016 in Thanjavur, Tamil Nadu.

18	Jim Godwin R S, Veena K, Sriram kumar D	Performance Analysis of CCMA OFDM Visible Light Communication System
19	Veena K, Jim Godwin R S, Sriram Kumar D	Multiband Photoconductive Antenna for THz Imaging System
20	Jim Godwin R S, Veena K, Sriram kumar D	Performance analysis of direct detection Flip-OFDM for VLC system
21	Jim Godwin R S, Veena K, Sriram kumar D	Performance evaluation of WDM Visible light communication
22	Srikanth, S.; Sriram, P.; Kumar, D.S.,	"Performance analysis of OFDM employing free space optical communication system,"
23	S. Anand, D. Sriram Kumar	Investigation of nano composites based antennas for GHz and THz Communications
24	S. Deivalakshmi, P. Palanisamy, S. Gireesh Kumar	Contrast Enhancement Technique for Dark Images using Dynamic Stochastic Resonance and Complex Daubechies Wavelet Transform, presented in 3rd IEEE international conference on Electronics and Communication Systems(ICECS 16) held at Coimbatore during 25th and 26th Feb 2016.
25	2. V.Sudha, M.S.Samatha and D. Sriramkumar,	3. A Low-Complexity Modified SLM with New Phase Sequences for PAPR Reduction in OFDM System.
26	4. V.Sudha, M.S.Samatha and D. Sriramkumar	5. PAPR Reduction in SLM-OFDM using Lehmer Random Number Generator.
27	Gautam, U., Malmathanraj, R., and Srivastav, C	Simulation for path planning of autonomous underwater vehicle using Flower Pollination Algorithm, Genetic Algorithm and Q-Learning, Cognitive Computing and Information Processing (CCIP), 2015 International Conference on, 3-4 March 2015, pp 1-5.
28	Malmathanraj R, P.Palanisamy, Logeswaran R, Easwar R, Utkarsh	Analysis of Fingerprint recognition systems using Local Binary Pattern its variants and BioHashing, Information Technology Yesterday, Today and Tomorrow-A Bilingual International Conference organized by DRDO, 19 February 2015
29	Sanjay Singh Yadav, S. Hariharan, P. Muthuchidambaranathan	Centralized Cooperative-MIMO Spectrum Sensing over κ-μ Shadow-Faded Reporting Channel. International Conference on Microwave, Optical and Communication Engineering (ICMOCE-2015), School of Electrical Sciences, IIT Bhubaneswar, Odisha, India.

30	Sanjay Singh Yadav, S. Hariharan, P. Muthuchidambaranathan	Generalized Average Detection Probability of Centralized Cooperative-MIMO Cognitive Radio Network over η-μ Faded Reporting Channel. International Conference on Microelectronics, Computing and Communication (MicroCom 2016), Department of ECE, NIT Durgapur, India
31	Sudheesh P G,Chiranjeevi Manda,P Muthuchidambaranathan	On frequency domain channel estimation using WARP v3 Hardware platform,3rd International Conference on Electronics and Communication Systems (ICECS,2016), 25th and 26th FEB, pp. 950-952
32	P.Viswa Chaitanya Reddy, B.Malarkodi	An Energy Efficient Transmission Scheme For OFDM Systems With Improved BER Performance
33	Anusree A and R.K. Jeyachitra	"Performance Analysis of a MIMO VLC (Visible Light Communication) Using Different Equalizers" accepted for presentation in IEEE International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET 2016), Chennai, 2016.
34	Sagar K, M. S., P Palanisamy	Optimal Pilot- Aided Semi Blind Channel Estimation for MIMO-OFDM System, 2015 IEEE Global conference on Communication Technologies, April, 2015.
35	Bakthavatsalam,B,Malarkodi	Analysis of network infrastructure threats using sonic wall analyser,ICDCS' 16 IEEE conference
36	Viswa chaithanya,B.Malarkodi	An Energy efficienttransmissionb scheme for OFDM systems with improved BER performance,ICECS'16 IEEE conference

National: Nil

3. Workshops / Seminars

3.1 Organized

Coordinator	Title	Period
Dr.S.Raghavan	Microwaves through Software	Nov 6,7-
Dr.P.Muthuchidambaranathan		2015
Dr.D.Sriram Kumar		
Dr.R.Pandeeswari		
Dr.P.Muthuchidambaranathan	Design, Simulation and Research	July 23, 24
	Application of Advanced wireless standards	& 25, 2015
	Using EEsof	

3.2 Attended

Faculty	Details
Dr.S.Raghavan	"Dielectric Resonator Antenna – Analysis and Design", IIT Kharagpur, 17-21 November 2015
R.Thilagavathy	"Internet of Things & Smart Home", Department of EEE, NIT Trichy and Frugal Labs Tech Solutions Pvt Ltd on 13 th & 14 th November 2015

Students	Details	
Arvind Kumar	Workshop on key EM concepts, SSN Engineering College,	
Divya Chaturvedi	20-22 January 2016	
Ananya Parameswaran		
G P.T. 1	M' TI 1 C C NITE TO 1 C	
Seema R Tirkey	Microwaves Through Software, NIT Trichy from	
	November 6 – 7 2015	
Veena k	One day seminar on THz Technology: Current Scenario	
	and Future Trends, ISRO, Trivandrum	
Nitesh Jha	Microwaves Through Software, NIT Trichy from	
	November 6 – 7 2015.	
Jim Godwin R S	THz Technology: Current Scenario and Future Trends	
Samatha Mahesula	Key Industry/Societal Trends in the Future of Smart Grid	
	for India	
Samatha Mahesula	Role of Communication Technologies in making Digital	
	India	

4. Invited / Guest Lectures Delivered by the Faculty

Faculty	Topic	Programme	Place & Date
Dr.S.Raghavan	Planar	B.E.S Expo	New Delhi
	Transmission Lines		
	for Satellite		
	Communication		
Dr.D.Sriramkumar	Digital India	Pondicherry University	Pondicherry
Dr.D.Sriramkumar	Terahertz Antenna	Gitam University	Visakapatnam
Dr.D.Sriramkumar	Issues in Mobile	M.Kumarasamy College	Karur
	Communication	of Engineering	

5. Sponsored Projects undertaken: Nil

6. Major Equipment / Software Purchased (more than Rs. 5.00 lakh.)

S. No.	Equipment	Amount
		(Rs. In Lakhs)
1	Antenna Prototyping Machine	8.50

7. Research Papers Published in National / International Journals

7.1 Faculty

International Journal

S. No	Title	Author(s)	Journal	Year Vol. (No) Page
1	A compact metamaterial inspired triple band antenna for reconfigurable WLAN/WiMAX applications	Rajeshkumar, V and S Raghavan,	AEU-International Journal of Electronics and Communications	69, 2015
2	A Compact asymmetric monopole antenna with electrically coupled SRR for WiMAX/WLAN/UWB applications	Rajeshkumar, V and S Raghavan,	Microwave and Optical Technology Letters	57, 2015
3	SRR-based polygon ring penta-band fractal antenna for GSM/WLAN/WiMAX/IT U band applications	Rajeshkumar, V and S Raghavan,	Microwave and Optical Technology Letters	57,2015
4	A Compact Frequency Reconfigurable Split Ring Monopole Antenna for WLAN/WAVE Applications.	Rajeshkumar, V and S Raghavan,	Applied Computational Electromagnetics Society Journal	30,2015
5	A compact dual band antenna with an ENG SRR cover for SAR reduction	S. Imaculate Rosaline, S. Raghavan	Microwave and Optical Technology Letters	57,2015
6	Design and analysis of a SRR superstrate for SAR reduction	S. Imaculate Rosaline, S. Raghavan	Journal of Electromag waves and appl.,	Vol.29, No. 17, 2330- 2338, 2015.
7	Split ring loaded broadband monopole with	S. Imaculate Rosaline, S.	Microwave and Optical Technology	Vol. 58, No.1, 158-162, 2016

	SAR reduction	Raghavan		
8	Dual Band Patch Antenna Using Slots	B. Anandhimeena, P. Thiruvalar Selvan, S.Raghavan, S. Suganthi, P. Suganya	International Journal of Applied Engineering Research	10,2015
9	Effect Of Ground Plane Structure In Metamaterial Inspired Monopole Antennae	B. Anandhimeena, P. Thiruvalar Selvan, S.Raghavan, S. Suganthi, S. Sindhiya	International Journal of Applied Engineering Research	10,2015
10	Review On Metamaterial Radome In Gain Enhancement Techniques of Planar Antenna	B. Anandhimeena, P. Thiruvalar Selvan, S.Raghavan, S. Suganthi, P. Archana, M.Pavithra	International Journal of Applied Engineering Research	10,2015
11	Microstrip Antenna with Complementary Split Ring Resonator Loaded Ground Plane for Gain Enhancement	R.Pandeeswari, S.Raghavan	Microwave and Optical Technology Letters	57,2015
12	Polarization shift keying based relay-assisted free space optical communication over strong turbulence with misalignment	Prabu, K., and D. Sriram Kumar	Optics & Laser Technology	76 (2016): 58- 63.
13	Investigations on Titanium-Doped Indium Oxide Based Optically Transparent Terahertz U- Shaped Patch Antenna	Anand.S.,Sudesh D.M., D. Sriram Kumar	Journal of Computational and Theoretical Nanoscience,	Volume 12, Number 4, April 2015, pp. 660- 664(5).
14	Analysis of Titanium-Doped Indium Oxide Based Optically Transparent Patch Antenna for Terahertz Communications,	Anand S., Sudesh D. M., Kumar D. Sriram; Murthy, C.	Journal of Computational and Theoretical Nanoscience,	Volume 12, Number 3, March 2015, pp. 341- 344(4)
15	MIMO free-space optical communication employing coherent BPOLSK modulation in atmospheric optical	Prabu, K., and D. Sriram Kumar	Optics Communications	343 (2015): 188-194

	turbulence channel with			
	pointing errors.			
16	Spectrum analysis of radio over free space optical communications systems through different channel models.	Prabu, K., Rajeswar Rajendran, and D. Sriram Kumar.	Optik-International Journal for Light and Electron Optics	126.11 (2015): 1142- 1145
17	Analysis of graphene based optically transparent patch antenna for terahertz communications	S. Anand, Mayur Sudesh Darak, and D. Sriram Kumar,	Physica E: Low- dimensional Systems and Nanostructures, Elsevier, 2014	66 (2015): 67- 73
18	BER Analysis for BPSK Based SIM–FSO Communication System Over Strong Atmospheric Turbulence with Spatial Diversity and Pointing Errors	K. Prabu, D. Sriram Kumar	Wireless Personal Communications,Spri nger, 2015	81.3 (2015): 1143-1157
19	Performance Analysis and Comparison of ITO and FTO Based Optically Transparent Terahertz U- shaped Patch Antennas	S. Anand, and D. Sriram Kumar	Physica E: Low- dimensional Systems and Nanostructures, Elsevier, 2014.	66 (2015): 52- 58
20	Analysis on Effect of Low Dielectric Permittivity on Indium-doped Tin Oxide based Optically Transparent Terahertz Patch Antenna,	S. Anand, Mayur Sudesh Darak, and D. Sriram Kumar,	Physica E: Low- dimensional Systems and Nanostructures, Elsevier, 2014	In Press
21	Performance of a subcarrier intensity modulated differential phase-shift keying over generalized turbulence channel	Jagadeesh VK, P. Muthuchidambarana than, FM Bui and Vineeth P	AEU - International Journal of Electronics and Communications,	
22	Free space optical communication using subcarrier intensity modulation through generalized turbulence channel with pointing error.	Jagadeesh VK, Vineeth P,P. Muthuchidambarana than, and FM Bui	Wiley, Microwave and Optical Technology Letters	Aug 2015 57(8), 1958- 1961
23	BER Performance of NLOS Underwater	Jagadeesh VK, Naveen KV and P.	WASET - International Journal	May 2015 9(2)

	Wireless Optical Communication with Multiple Scattering	Muthuchidambarana than	of Computer, Electrical, Automation, Control and Information Engineering	563-566
24	Performance analysis of multiple relay cooperative communication over generalized κ - μ and η - μ fading channels	Surendar, M., K. Chaitanya and P. Muthuchidambarana than	Elsevier, AEU - International Journal of Electronics and Communications,	Sep 2015 69(9) 1220- 1225
25	Low complexity and high diversity gain non-linear constellation precoded MIMO-OFDM system with subcarrier grouping	Surendar, M., and P. Muthuchidambarana than	Elsevier, AEU - International Journal of Electronics and Communications	Mar 2016 70(3) 265-271
26	Wood species classification based on local edge distribution	M.Sundaram, J.Abitha, R.Malmathanraj, K.Ramar	International Journal for Light and Electron Optics	Volume 126, Issue 21, November 2015, Pages 2884-2890
27	Simulation for path planning of SLOCUM Glider in near bottom ocean currents using heuristic algorithms and Q learning	Utkarsh Gautam, Malmathanraj Ramanathan	Defence Science Journal	Vol 65, No 3,May 2015, pp 220-225
28	Low Complexity Peak-to- Average Power Ratio Reduction in Orthogonal Frequency Division Multiplexing System by Simultaneously Applying Partial Transmit Sequence and Clipping Algorithms	Sudha, V., Kumar, D.	WASET- International Journal of Electrical, Computer, Energetic, Electronic and Communication Engineering,	2015, 9(4), 465 - 471.
29	Enhancement and Bias Removal of Multiframe Optical Coherence Tomography Images: an Iterative Approach via Adaptive Bilateral Filtering	P.V. Sudeep, P. Palanisamy	Computers in Biology and Medicine	Vol.71, April 2016, pp. 97- 107
30	Varun P. Gopi, P. Palanisamy, Khan A. Wahid, Paul Babyn,	Iterative Computed Tomography Reconstruction from	Journal of Medical Imaging and Health Informatics	Vol.6(1), 2016, 34-46.

	David Cooper	Sparse-View Data		
31	Sudeep P.V.,	Nonlocal linear	Journal of	Vol.20 (2015),
	P.Palanisamy,	minimum mean	Biomedical Signal	pp.125-134.
	Chandrasekharan	square error methods	Processing and	
	KEsavadas and Jeny	for denoising MRI	Control	
	Rajan			
32	A Cpw-Fed Triple Band	R. Pandeeswari And	Microwave And	Vol. 57, No.
	Ocsrr Embedded	S. Raghavan	Optical Technology	10, October
	Monopole Antenna		Letters /	2015
	With Modified Ground			
	For Wlan And Wimax			
	Applications			

National Journal: Nil

7.2 Students

International Journal: Nil

National Journal: Nil

8. Ph.D Awarded

S. No.	Name of the Research Scholar	Guide / Supervisor	University / Institute
1	Rajesh Kumar V	Dr.S.Raghavan	National Institute of Technology. Trichy
2	K Prabu	Dr.D.Sriramkumar	National Institute of Technology, Trichy
3	S. Anand	Dr.D.Sriramkumar	National Institute of Technology, Trichy
4	S. Hariharan	Dr.P.Muthuchidambaranathan	National Institute of Technology, Trichy

9. Details of Book any authored by faculty: Nil

10. Patent if any obtained by faculty: Nil

11. Other Important Points: Nil

12. Summary

S.No	Details		T	otal nos	
9.	International Journals	32			
10.	National journals	NIL			
11.	International conference publications	36			
12.	National conference publications	NIL			
13.	Sponsored Project	No's:	NIL	Amount:	NIL
14.	No of Ph.D produced	04	•	•	•
15.	No of Patents obtained	NIL			
16.	No of books published	NIL			

DEPARTMENT : HUMANITIES

1. Notable Achievements (Nil)

1.1 Faculty Members: Nil

1.2 Students: Nil

2. Conference

2.1 Organized: Nil

International: Nil

National: Nil

2.2 Paper Presented by the Faculty/Students

International

Author(s)	Details
Dr.Vinod Balakrishnan	1. "Spirituality of Action: Reading O V Vijayan's Gurusagaram through William James 'Concept of Religion'". International Conference on Pragmatism and Spirituality and Gandhi and Sri Aurobindo, Indus Business Academy, Bangalore. Feb 8-11,2016 2. "Purusarthas through Satire in O V Vijayan's Dharmapuranam: A Pragmatic Reading'". Workshop on Yoga and Purushartha for Integral Development. IBA Academy, Noida. 17 July 2015
	3. "Hagiography and History in Kudumba Charithram". International Conference on History Theory Writing. S.B.College., Changanacherry. 12 January 2016
Dr. Sathyaraj V	 "Horrors of Food: Eating Disorders, Gender Politics and Graphic Medicine." International Conference on The Culture of Food: Literature and Society. M.E.S. College of Arts and Commerce, Goa. 25 to 27 February, 2016. "Public and Private Spaces of Care in Stan Mack's Janet and Me: An Illustrated Story of Love and Loss and Angelo Merendino's The Battle We Didn't

National: Nil

Papers Presented by Students International

Author(s)	Details
Raghavi Ravi Kasthuri and Satyaraj Venkatesan	1. "Superheroes in Graphic Cancerland". <i>International Comics Conference on "Comics as Visual Culture</i> . Dr.MGR University, Chennai.2-4 Sep.2015.
Pushpanathan S	 "Ethics of Surrogacy". International Conference on International Conference on Exploring Moral Interfaces: Private Worlds and Public Systems, The English and Foreign Languages University (EFLU) 07-09 October 2015. "The Challenges of Care giving as depicted in Graphic Memoir-Tangles". International Comics Conference on Comics as Visual Culture. Dr.MGR University. Chennai.2-9 Sep 2015.
Anu Mary Peter and Satyaraj Venkatesan	 "A Game of Luck and Skill": Visual Metaphors in Brian Fies' Mom's Cancer. <i>International Conference on Exploring Moral Interfaces: Private Worlds and Public Systems</i>, The English and Foreign Languages University (EFLU), 07-09 October 2015. "The Infallible, Invincible and the Insensitive: A Graphic Exposition of the Figure of Doctors". <i>International Comics Conference on "Comics as Visual Culture</i>. Dr.MGR University, Chennai.2-4 Sep.2015.

National

Author(s)	Details
Shintu Dennis and Vinod Balakrishnan	1. "James' Irresolute truth in O V Vijayan's Khasakkinte Ithihasam and its translation". <i>National</i> <i>Conference on Researchers at Work</i> . University of Hyderabad. 9-11 September 2015
Parvathy Das and Vinod Balakrishnan	1. "The Desire for History: Family History confronts Life Writing". <i>National Conference on Researchers</i> <i>at Work</i> . University of Hyderabad.10 September 2015.
Raghavi Ravi Kasthuri Anu Mary Peter	1. "Picturing Cancer: Representation of Vulnerability in Stan Mack's Janet and Me: An Illustrated Story of Love and Loss". National Conference on Graduate Research Meet '15. The Indian Institute of Technology, Gauhati.28-30 October 2015.
Sweetha Saji and Satyaraj Venkatesan	1. "The Bad Doctor": The Image of Doctor, A Graphic Exposition. <i>National Conference on Graduate Research Meet '15</i> . The Indian Institute of Technology, Gauhati.28-30 October 2015.
	1. "Circuits of Power: The Role of Graphic Pathographies in Erasing Medical Hierarchies". <i>National Conference on Power</i> . KAHM Unity Women's College, Manjeri, Malappuram. 12-14 Jan. 2016.
	2. "Metaphors of Diseased Bodies: A Critical Study of Select Graphic Pathographies". <i>National Young Researchers' Conference 2016 on The Return of the Body: Revisiting cultures of the Body</i> . Jawaharlal Nehru University, New Delhi. 4-5 Feb.2016

3. Workshops / Seminars

3.1 Organized

Coordinator	Title	Period
Dr .R. Murugesan	"Time Series and Panel Data Analysis using Eviews & Stata"	25-30,Jan,2016
Dr .R. Murugesan & Dr .Vinod Balakrishnan	"Workshop on English for writing Ph.D Thesis and Journal Papers"	20-22,Jan,2016

3.2 Attended: Nil

4. Invited /Guest Lectures Delivered by the Faculty

Faculty	Topic	Programme	Place / Date
Dr.S.Mekala	English for Employability Skills	A Two Day National Seminar on New Vistas in ELT: Empowering Engineers for Employment.	PSNA College of Engineering and Technology, Dindigul. 18 th April, 2015.
Dr.S.Mekala	Teacher Education & Life Skills Development	Faculty Development Programme on "Empowering Educators in English Language Teaching (EEELT'15)"	Anna university: Chennai BIT Campus, Trichy. 10 th June,2015
Dr.S.Mekala		Faculty Appraisal Programme	Sri Krishna Institutions, Centre for Professional Development and Training, Coimbatore. 5 th to 7 th February,
Dr.S.Mekala	The Significance of Life Skills in Self Assessment	A Two Day workshop on An Assay to Self Discovery(AASD'16)	2016 Anna university: Chennai BIT Campus, Trichy. 17 th March, 2016

5. Sponsored Project Undertaken:

Coordinator	Name of the project	Sponsor	Amount
			(Rs. In Lakhs)
Dr.R.Murugesan	R & D (2013-2017)	MHRD	28

6. Major Equipment / Software Purchased (more than Rs. 5.00 lakhs): Nil

7. Research Papers Published in National / International Journals

7.1 Faculty

International Journal

Title	Author(s)	Journal	Year Vol. No of page
Analysis of factors determining the inward FDI in top seven Indian states from top seven source countries using gravity model	R. Murugesan	Paper accepted and to be published in International Journal of Economics and Business Research	•
Testing the Impact of Entrepreneurship Education on Business, Engineering, and Arts& Science Students using the Theory of Planned Behavior: A Comparative Study	R. Murugesan	Journal of Entrepreneurship in Emerging Economies	September , 2015 7 (3).
Symbolic Interactionism in O V Vijayan's Khasakkinte Ithihasam	Dr. V. Vinod Balakrishnan	Indian Journal of Post Colonial	14.2(2015)
Strategy use in Second Language Writing	S. Mekala	Paper accepted and to be published in	April 2016, Vol.No.II, Issue:1
	Analysis of factors determining the inward FDI in top seven Indian states from top seven source countries using gravity model Testing the Impact of Entrepreneurship Education on Business, Engineering, and Arts& Science Students using the Theory of Planned Behavior: A Comparative Study Symbolic Interactionism in O V Vijayan's Khasakkinte Ithihasam Role of Cognitive Strategy use in Second Language Writing	Analysis of factors determining the inward FDI in top seven Indian states from top seven source countries using gravity model Testing the Impact of Entrepreneurship Education on Business, Engineering, and Arts& Science Students using the Theory of Planned Behavior: A Comparative Study Symbolic Interactionism in O V Vijayan's Khasakkinte Ithihasam Role of Cognitive Strategy use in Second Language Writing R. Murugesan S. Mekala	Analysis of factors determining the inward FDI in top seven Indian states from top seven source countries using gravity model Testing the Impact of Entrepreneurship Education on Business, Engineering, and Arts& Science Students using the Theory of Planned Behavior: A Comparative Study A Comparative Study A Comparative Study Br. Murugesan R. Murugesan Factors R. Murugesan Factors R. Murugesan Factors Factoromics and Business Research Factoromics Factoromic

05	Errors in ESL Learners'	S.Mekala	of English Studies	Vol.No.II, Issue:1
06	Writing Employers' Perception on Communication Skills at Workplace	C.Shanmugapriya and S.Mekala	Paper accepted and to be published in The Global Journal of English Studies	April 2016, Vol.No.II, Issue:1
07	The Role of Thinking in Soft Skills	P.G.Immaculate Sherine and S.Mekala		April 2016, Vol.No.II, Issue:1
08	Need for Teacher Education and Training in Higher Education: Some Challenges and Constraints	Bashini and	Paper accepted and to be published in The Global Journal of English Studies IJELLS	ISSN 2278-0742, Vol.No. IV, Issue:3, October 2015
09	The Role of Semantic functions in Learning English Prepositions			ISSN 2229-6557, Issue:31, July2015
10	Pleasure Reading Cures Readicide and Facilitates Academic Reading	J. Mary Jennifer and Joseph Ponniah, R.J.	I-manager's Journal on English Language Teaching	Oct-Dec 2015, Vol. No. 5, Issue 4 (1-4)
11	"Life is a Game: Visual Metaphors in Brain	Dr. Sathyaraj V	Hektoen	2015(online)
12	Fies's "Mom's Cancer." "The Spectale of AIDS: Mapping Indian Queer Cinema, 1985-2010."	Dr. Sathyaraj V	International: A Journal of Medical Humanities. The London Film and Media Reader 3.	2015(369-378)

National Journal: Nil

7.2 Students International Journal: Nil

7.3 National Journal (Nil)

8. Ph.D Awarded

S.No	Name of the Research Scholar	Guide / Supervisor	University /
			Institute
01	M.P.Shabitha	Dr.S.Mekala	NIT, Trichy August, 2015

9. Details of Books Authored by faculty: Nil

10. Patent if any obtained by faculty:

Dr.R.Murugesan obtained Patent from MHRD

11. Other Important Points: Nil

12. Summary

S.No	Details	Total nos
1.	International Journal	12
2.	National Journal	Nil
3.	International Conference Publications	10
4.	National Conference Publications	6
5.	Sponsored Projects	No's: 1 Amount: 28
6.	No of Ph.D Produced	1
7.	No of Patents Obtained	1
8.	No of Books Published	Nil
9.	No of Workshop Organized	2
10	Invited Guest Lectures	4

Department: INSTRUMENTATION AND CONTROL ENGINEERING

1. Notable Achievements

1.1 Students

S.No	Name	Details of Prizes / Awards/Internships	Organization/Soc iety
1.	Gopinath G (10111029)	Best Student Project awards	Sonata Software
	Satya Ravi Teja (110111077)	organized for the "Design and Development of Quad copter Drone for ariel video feed" by	
	Avinit (110111011)	,	
	Rajeev Verma (110111065)		
	Gaurav Prakash (110111030)		
	Guided by:		
	Dr. K. Dhanalakshmi		
		IV YEAR	
2.	K.R.Lakshmi	Internship in TIFR (Tata Institute of Fundamental Research) - Laser based spectrometer and detection system	TIFR
		Summer Internship at DOW Chemicals	DOW chemicals
		Winter Internship program in NSIT Delhi	Texas Instruments TI
		Summer Internship at IIT Madras - design and fabricate an Automated AC Susceptometer	IIT Madras
3.	Mr. Hariharan Ramshankar	RGBD SLAM system for navigation of mobile telepresence robot.	IIT Hyderabad

		Co	plementation of Cache herency Protocols for a multicore ocessor in Bluespec System rilog(BSV)	IIT Madras
		ins	alysis of alternator design and trumentation use in automobile ctrical systems	Lucas-TVS
4.	Ms. Priyanka Swami		cond runner up team in Inter NIT lley ball competition	NITT
5.	K.R.Lakshmi	Ca	rgill global scholarship	Cargill
		Won 2nd place in Chess in Colosseum,13-National Level Sports Fest of Sastra University.		Sastra University.
	1		III YEAR	
6.	Mr. A.Sent	hil	Research Intern Summer 2016	Mitacs
	Hariharan(110113082)		Summer intern(2015)	Rockwell auomation
			Winter intern (Dec 2015)	Healthcare technology innovation center
7.	Mr.Sachin Chaurasia (110113077)		Summer project	GAIL Inda Ltd,Delhi
			Summer Internship	Reliance,Pune
8.	Ms.A.Anjana		Research Intern Summer(2016)	Mitacs
	Gayathri(110113009)		Summer intern(2015)	Indian academy of science
9.	Mr.Sudharsan		Research Intern Summer 2016	Mitacs and

	Suresh(110113086)		DAAD
		Selected for Cargill Global Scho	lars Program
		Intern	IISc,Bangalore
10.	Mr.S.Narendar (110113073)	Research Intern on 'transfer learning with neural networks' (2015)	ISI Kolkata
11.	Mr.Pragyaditya (110113062)	Summer Intern 2016	Flowserve India Controls,Banalore
12.	Mr.B.Prakash (110113063)	Project on Image processing using Matlab	Uniq Technologies
		Research Intern Summer 2016 on Control Systems	IIT MAdras
		Project on algorithms for quadcopter to control mobile robots (2015)	IIT Madras
13.	Ms.Lavanya Kumaran (110113042)	Internship	CAE & Telinstra,UAE
			ELMEC,Abu Dhabi
14.	Ms.Viswaroopa (110113098)	Inplant Training on remote telemetry units (RTUs) design,	Control and Applications Emirates
15.	Mr.C.Anuudh (110113017)	Project on VLSI technology	ECIL,Hyderabad
16.	Ms.Y S.Medhasri (110113099)	Project on Practical SCADA for industries	GAIL (India),Vizag,AP
17.	Mr.Sameer Raashid (110113079)	Summer Project Trainee	Technip India Ltd (May-July 2015)
	1		Yokogawa India

			Ltd (Nov-Dec 2015)
18.	Mr.Lalith Nani (110113041)	Project on Data Analysis	IIM Bangalore
		Inplant trainining on Industrial Instrumentation	BHEL,Hyderabad
19.	Ms.Kargavalli.G. (110113034)	Inplant training	Salem steel plant and Tuticorin thermal power station
20.	Ms.Sushma	Project on VLSI technology	ECIL,Hyderabad
	Shivampet(110113088)	1 st place in kho-kho, Udgosh'15.	
		3 rd place in 4*400 relay in IIT Kanpur sportsfete.	
		Completed NCC B and C certificate.	
		Represented Tamil Nadu in national level integration NCC camp in Noida	
21.	Mr.Vasu Mahatma (110113095)	Summer intern(2016)	Sandisk
22.	Mr.T.S.V.Krishna Sai (110113089)	Summer Intern(2016)	IIT, Hyderabad
23.	Mr.N.Vamshi	Project on VLSI technology	ECIL,Hyderabad
24.	Mr.Lokesh Kumar.A. (110113043)	Summer intern(2015)	Hacklab innovations, Banglore
25.	Mr.V.Aravind (110113090)	Summer intern	IIT,Madras
26.	Mr.Ram Chander.B. (110113015)	Intern	BHEL,Ltd

27.	N.Akhil (110113053)	Intern	RINL, Visakhapatnam
28.	Mr.Naga Prasad (110113049)	Project on VLSI technology	ECIL,Hyderabad
29.	Mr.Jephin Joy (110113028)	Intern (dec 2015)	Irey Mackenzie Engineering
		Won gold medal in weight lifting-Sportsfete	Services, Dubai
30.	Mr.Abhik Sarkar (110113081)	Summer intern(2016)	Sandisk
31.	Ms.Nori spandana	Internship	RINL,Visakhapatn am
32.	Mr.Prakash.V.	Summer intern	IIT, Madras
	(110113064)	Won second prize in sangam'16	
33.	Ms.Nithya.L. (110113054)	Inplant training	Ordnance factory, Trichy
34.	Ms.Arthi (110113030)	Software internship	Practo,Bangalore
35.	Ms.Divyanshi.G. (1101103024)	Software internship (2016)	Fidelity
36.	Mr.Apuroop Mandala (110113044)	Software internship (2016)	Fidelity
37.	Mr.Divyansh (110113022)	Software internship (2016)	Fidelity
38.	Ms.Monica (110113019)	Software internship (2016)	Fidelity
39.	Ms.Ria (110113072)	Software internship (2016)	Fidelity
40.	Mr.Abhishek Patjoshi (110113005)	Software internship (2016)	Fidelity
41.	Mr.A.Akhilesh (110113004)	Project on VLSI technology	ECIL,Hyderabad

		Won first prize in currents'16 IOT challenge	
42.	Ms.Dharani.T. (110113021)	Internship (Dec-Jan 2015)	Yokogawa, Abu Dhabi
43.	Mr.Mudawath Srinivas (110113047)	Summer internship	IIM, Banglore
	(110113047)	Project on VLSI technology	ECIL,Hyderabad
		Completed NCC B and C certificate.	
		Represented Tamil Nadu in national level integration NCC camp in Noida	
44.	Ms.Mavuri.N.V.S.L.Hanisha	Summer reaesrch internship (May 2015)	IIT, Hyderabad
	(110113045)	Won second prize in L&T ideation contest, pragyan(2016)	
45.	Narender S (110113073)	Summer internship	Reliance
	Pragyaditya Days (110113062)		
	Ankit Grover (110113010)		
	Priyal Jaiswal (110113066)		
	S.Sriharish(110113076)		
	Krishna Sai(110113089)		
	Mavuri NVSL Hanisha (110113045)		
	Radhila S (110113074)		
	Ram Chander BHaskara (110113015)		
	Chebolu Sowmaya (110113018)		

	Sachin haurasia (110113077) Lakshminarayanana (110113040)		
46.	Prateek Agarwal (110113065) Spandaana Nori (110113055 Jatin Sandilya (110113001)	Summer internship	Royal Bank of Scotland (company)
		II YEAR	
47.	Ms Shankar Pandian Jayasri	Internshala VTC Young Achiever Scholarship	2016
48.	Ms.Sundaravalli A (110114087) Won 1 st Place in Circuital Categorian Sangam (Innovation Challen Contest) Pragyan'16		1
49.	Mr. Akilan GK (110114010) 2nd runner up in Inter NIT volleyball tournament 2016		SVNIT,Surat
50.	Ms. Akshaya P (110114011)	-Winners of kho kho tournament held in iit kanpur as a part of udgosh 2016	•
		-Won three gold medals and two silver medals during the sports fête conducted in nit trichy	
		Gold-200m,4×100m relay, 4×400m relay	
		Silver - 100m, kho kho	
		Attended inplant training in zf wind power coimbatore Ltd	Coimbatore
51.	Mr.Prateek Vishal	Won 4th Prize in Shaastra SCDC	IIT Madaras
	(110114064)	Won 1st prize in the Fundamentals event during Pragyan	NIT Trichy

52.	Mr. Rahul.N (110114070)	Ingenius hackathon Special Award (Simple with highest impact) Intern at SportsCafe (Android Intern)	Sportscafe, Bangalore
53.	Ms.Shrinidhi V(110114079)	Best Cadet silver medalist CATC, NCC, 2013	NIT Trichy
54.	Ms. SP Jayasri (110114077)	Secured second position in Rush hour, an event of PRAGYAN 2016.	NIT Trichy
55.	Mr. J Dinesh (110114024)	Won silver medal in cricket in Nitt sportsfete.	NIT Trichy
56.	Mr.S.S.Farhad Nawaz (110114073)	Internship training GSM based temperature alert system.	UNIQ technologies,Che nnai (December 2015)
		Summer Research Intern	IIT Kanpur
57.	Mr.Mohamed Naveed G (110114053)	project 'SLAT Hex' Sound source localizing All Terrain Hexapod Happy won 3rd place in Sangam.	NIT Trichy
		Got selected in Indian Academy of Sciences Summer Research Fellowship Programme	IISc Bangalore
58.	Mr.Narayana Aaditya G (110114056)	1st - Electrolution Inter hostel tech tournament, Pragyan'15 2nd - Fundamental, Pragyan'16 Special mention, Following'15 Finalist, Sangam- Pragyan'16	NIT Trichy
		2nd, Horizons'15 Ice Dept.	

		1st - Battle of bands - Aaveg'15 1st - Battle of scraps, Horizons15 1st - short film (background score)Horizons'15	
59.	Mr.Baladhurgesh B P (110114016)	SLAT-HEX (Sound Source Localising All Terrain Hexapod), won 3rd place in Sangam(Innovation Challenge Competition) in Pragyan Technical Festival of our College Won 1st place in Line follower competition during my first year Won 1st place in Collage Making in Horizons 15 Won 3rd place in Mask Making in Horizons 15	NIT Trichy
		Summer Research Intern	IIT Bombay

2. Conference

2.1 Organised

International

S.No	Coordinator	Programme			Period
1.	Dr.A.Ramakalyan -	ACODS-2016	IFAC	Sponsored	1 st - 5 th
	General Chair	International Confe	erence	-	February,
2.	Dr. N.Sivakumaran - Local				2016
	Arrangement Chair				
3.	Dr. K. Srinivasan - Finance				
	Chair				

5-day International Conference IFAC - ACODS 2016 organized by ICED,NIT-T Feb 1-5, 2016 - A Report

For a long time there was an acute need felt for providing high-quality, yet easily accessible, education and research in India in the broad field of control systems. During 2011 we have registered the society - **AUTOMATIC CONTROL & DYNAMIC OPTIMIZATION SOCIETY (ACDOS)**, and during the same year we obtained the National Member Organization (NMO) status with the International Federation of Automatic Control (IFAC). Dr. Ramakalyan was the founder General Secretary of this society, and currently he is the Vice-President & President Elect. This formation of society has, ever since, triggered several activities and IFAC

events in the country, along with the steady growth in the society's membership. Currently we have about 150 professional members (largely, faculty from various institutes and universities in India) and 50 honorary members (from all over the world who have made rich contributions to the field). The flagship event for the society is the biennial International conference -ADVANCES IN CONTROL & OPTIMIZATION OF DYNAMICAL SYSTEMS (ACODS). Previously, this conference was held at IISc Bangalore (2007, 2012) and IIT Kanpur (2014). Further, it has been decided by the society that during Feb 1-5, 2016 the conference would be held at the **NATIONAL INSTITUTE OF TECHNOLOGY TIRUCHIRAPPALLI** as a part of its on-going golden jubilee celebrations.

For ACODS-2016 Dr. Ramakalyan Ayyagari, Associate Professor of the ICED is the General Chair, and Prof. Anuradha Annaswamy from MIT, USA is the Co-Chair. Dr. Radhakant Padhi, IISc Bangalore is the Program Chair, Dr.T.K.Radhakrishnan, Professor, Dept. of Chemical Engineering, NIT-T is the Registration Chair, Dr.N.Sivakumaran, Associate Professor and Head of the ICED is the Local Arrangement Chair and Dr.K.Srinivasan, Assistant Professor of the ICED is the Finance Chair. We have received major funding from NIT Trichy through the TEQIP II programme of the Government of India. We have also received funding from DRDO, BRAHMOS Pvt Ltd., COREEL Technologies, and ABB Global. The IFAC was the technical cosponsor. We have received around 240 manuscripts from all over the country and from US, UK, France, Italy, Russia, and Singapore. Of these about 160 papers have been accepted after a rigorous peer review.

The Conference was inaugurated on February 1, 2016 by Shri S. Gopinath, Executive Director, BHEL Trichy, in the presence of Prof. D. Deivamoney Selvam, Director-in-charge, NITT. This was followed by the inaugural address by Prof. Ian Petersen of the Univ. of New South Wales, Australia. A total of 145 papers have been presented during the conference over 3 days (February 2-4) in 25 sessions. All these papers would be made available free of cost through IFAC's conference paper archive: www.ifac-papersonline.net. The papers of ACODS 2014 held at IITK are available here. In addition to this, we had a 3 tutorials in parallel on February 1, and a visit to the Industry and sight-seeing on February 5, 2016. There were 6 plenary talks and 6 semi-plenary talks, with 9 speakers from abroad. One of the plenary speakers was Dr. G. Satheesh Reddy, Scientific Advisor to Raksha Manthri, Govt. of India. Thus, this is a full 5-day truly international conference organized by the ICED. On February 3, in the evening there was a grand banquet with best-paper award ceremony and a cultural programme showcasing the dance forms of South India.





- SENSORS 2016 National Technical Symposium held on March 11-13,2016
- Sensors 2016, the annual symposium of the Instrumentation and Control Engineering department of NIT, Trichy was organised between March 11-13, 2016. Sensors has a long and distinguished history dating back to 1997 when the staff and the students felt the need for a forum where the academicians and industry can converge to discuss the latest trends in the field of Instrumentation and Control. From its humble beginnings, Sensors has indeed come a long way. The Sensors 2016, the 20th edition was inaugurated by S.N.Banerjee, Additional General Manager of C&I systems, Instrumentation limited Baroda, followed by his guest lecture. Dr. Srinivasan Sundarrajan, Director, NIT Trichy, as well the HoD of the ICE department, Dr. N. Sivakumaran were present as well along with faculty of the ICE department and its students. Dr. N. Sivakumaran spoke about the progress that the department has made in the past year. Students of ICED were awarded with DAAD and Mitacs Scholarships. He stressed on the importance of students involving themselves in lots of activities so that they get the exposure that they need when they face life after college. After this the Director addressed the gathering and discussed the importance of instrumentation and control. He spoke about his days in DRDO and explained how instrumentation was and still is a very important aspect for the proper functioning of missiles. The Director also explained that with the Make in India campaign, product designers are much in demand and thus praised the ICE department for having included the subject in their course curriculum.
- This year we had six workshops and events. The workshops team headed by S.Deepak of final year conducted the following workshops-brain wave robotics gesture controlled robotic manipulator, Data science and business analytics, Machine Learning using Python, Design workshop, Music Production.
- The essence of Sensors is to transcend classrooms and facilitate learning through informative guest lectures from eminent personalities, hands-on workshops to give students a feel for the subjects and innovative and challenging events that pit some of the brightest minds in the country against one another. It also serves as an ideal platform for students to keep abreast of the latest technology changes and for the industry to tune into the latest research being carried out. The Events team headed by K.R.Lakshmi of final year organized a variety of interdisciplinary events. Moore's

labyrinth, Encipher, sensors design, robotics events, tech quiz, Paper Presentation were the highlight events. The pre-Sensor robotics event in which first years from NIT Trichy participated was a huge success as well.

Another aspect of this prestigious event is that all the students of the department come forward enthusiastically to organize the event thus fostering teamwork, creativity and management skills in the technocrats of tomorrow. Sensors 2016 saw a footfall of nearly a 1000 people. The publicity team headed by Gurunamashivayam visited almost 80 colleges in various cities.

The valedictory address was delivered by Dr.K.Balasubramanian MS (Ortho), FRCS MCh (Ortho), FRCS Ortho (UK), Consultant Trauma, Orthopaedic and Spine Surgery, Apollo Hospital, Trichy.

With a theme "SENSE-CONTROL-ACTUATE", the students sought out to do just that. A variety of new events were introduced and a plethora of workshops and guest lectures were organized under the leadership of Renuka, The treasurer and Monish, the overall coordinator and the Chairman, Hani Abdul Gaffor.





Inaguration Validiction
First Alumni meet of ICED held on February 21,2016

The first edition of Alumni meet of Instrumentation and Control Engineering Department was conducted on February 21,2016. The aim of this meet was to enable current batches to meet the passed out batches, and learn from their invaluable experience. During the event, extensive student-alumni-faculty interactions took place.

The Alumni Talk Series, included an informal talk by four distinguished alumni of ICE Department on different opportunities in CORE, electronics, software and management fields and their experience. The first speaker was Venkatesh Narayanan from 1998 Batch, Senior SDE at Microsoft. Having 15 years of experience in corporate world, he gave different perspectives and opportunities in various fields highlighting life in software industry.

The second speaker was Vignesh from 2011 Batch. He is currently pursuing MBA from IIM Trichy, The current General Secretary and next Student President of IIM Trichy, Student council and Overall Coordinator of Pragyan 2011. He gave an insight about the current insights about the jobs, higher studies and entrepreneurship.

Rahul srivatsava was from 2015 Batch Currently working as Design Engineer at Texas Instruments and Topper of ICE department and GATE rank 24. He shared his experiences on

various exams and how to handle the interviews and guided on what all fields students should concentrate and lastly the scope of various projects and internships.

The last Speaker was Ashmitha, working in ONGC. She explained the importance of the staying in core field and why to work for passion rather than pay. The concluding speech was given by Professor Bennet and HOD, Dr.N. Sivakumaran. The event was a huge success and it is planned to have one alumni meet every year, so that the batches can meet their seniors, to share the success stories with the present batches and have career counselling sessions to the students who are yet to plan their career path.









2.2 Papers presented by the Faculty / Students International

Author (s)		Details			
Students paper presentation					
Vignesh	Nagarajan;Balachandar	Remotely Operated Advanced			
Ramachandran;Hariharan Ramshankar		Reconnaissance Robot			
International		Shortlisted among 30 most innovative			
		engineering ideas in Asia Pacific zone by			
		Lab-X Foundation and IEEE. Poster			
		Presentation given to IEEE president Dr.			
		Peter Staecker at IEEE R10 Congress.			

Prajval Kumar;Hariharan Ramshankar;Shreyas Prakash	Credit based solar powered plastic recycling bin Presented project "Credit based solar powered plastic recycling bin" at the International Conference on Advanced Computing and Communications (ADCOM 2014) held in Bangalore, India.
John Mathai, Gobi Ramasamy, Sathya Purusothaman, Kirubakaran Ezra	Location Based Mobile Advertising framework for Commuters International Conference on Computing and Network Communications 2015
Faculty paper Presentation	
S.M.A.K. Azad. & K. Srinivasan, S.M.A.K. Azad & K. Srinivasan, Devi C. Arati, S.Narayanan	Delay Analysis of Control Net and Device Net in Distributed Control System. International Conference on Communication, Control, Instrumentation & Computational Technologies, IC3ICT-2015, R.L. Jalappa Institute of Technology, Bangalore, 17th to 19th December 2015. Implementation of Open Communication Protocol through Wireless Medium for Process Automation. International Conference on Internet of Things and Applications, IOTA-2016, Maharastra Institute of Technology, Pune, 22nd to 24thJanuary 2016. Dynamic decoupling design for a class of linear multivariable system, IEEE International Conference on Computer Communication and Control (IC4-2015), Indore.
Devi Arati, S Narayanan and N Sivakumaran,	Complete decoupling of multivariable systems by means of dynamic state feedback, ICSTM, 06-08, May2015, Chennai.
Devi C. Arati, S.Narayanan	Decoupling of linear multivariable system using PD output feedback, Indian control Conference (ICC2016), January 2016, Hyderabad.

Devi C. Arati, S.Narayanan,	Centralized controller design using state space approach, accepted for presentation in international conference in System Structure and Control(SSSC-2016), Turkey, 2016.
Devi C. Arati, S. Narayanan	Row by Row Decoupling Problem, National conference on RTIC2016, March2016. Chennai.
Bhabani Sankar Padhy , D. Ezhilarasi,	"Detection and Stiffness Analysis of Inclined Height Crack in Cantilever Beam using Strain Energy Analysis", Proceedings of the International Conference on Advanced in Dynamics, Vibration and Control, ICADVC-201 6, February 25-27, NIT Durgapur, India.
Bhabani Sankar Padhy , D. Ezhilarasi,	"Detection of Inclined Edge Crack in Cantilever Beam is using Modal Analysis", Proceedings of the International Conference on Materials, Design and Manufacturing Process, ICMDM '16, February 17-19, 2016, Anna University (CEG), Chennai, INDIA
Bhabani Sankar Padhy , Laji C A, D. Ezhilarasi,	"Detection Of Longitudinal Cracks In Beam Structures Using Electromechanical Impedance And Frequency Analysis", ISSS National Conference on MEMS Smart Materials, Structures and Systems, September 23-25, 2015, CUSAT, Kochi, India
Minu A Pillai, Ezhilarasi D,	"Improved Acoustic Energy Harvester using Tapered neck Helmholts Resonator and Piezoelectric Cantilever undergoing concurrent bending and twisting", Proceedings of 12th International Conference on Vibration Problems (ICOVP 2015), Dec 14-17, 2015, IIT Guwahati, India.
M. Ganesan, D. Ezhilarasi,	"Design of Nonlinear Model reference Adaptive Controller for Automatically Driven Indian High speed Trains", Proceeding of 3rd International Conference

	of Transportation research Group of India		
	(CTRG 2015), 17-20 Dec 2015, Kolkata,		
	India.		
Revathi S, Sivakumaran N	Fuzzy Based Temperature Control of		
	Greenhouse, 4th International Conference		
	on Advances in Control and Optimization		
	of Dynamical Systems Feb. 2016. NIT		
	Tiruchirappalli,		
Sankaranarayanan S, Sivakumaran N,	Lump assessment of leak by Virtual Orifice		
Swaminathan G	Plate Methodology for a closed water		
	distribution network, International		
	Conference on Disaster Mitigation and		
	Management for Sustainable Development		
	and Risk Education, Feb. 2016		
V.Kirubakaran,Chinmay Sahu,TK	Fuzzy aggregation based multiple models		
Radhakrishnan, N. Sivakumaran	explicit multi parametric MPC Design for a		
	quadruple tank process4th International		
	Conference on Advances in Control and		
	Optimization of Dynamical Systems Feb.		
	2016. NIT Tiruchirappalli,		
Rajendra Singh Thakur, Sathish E, Sivakumaran N	Machine Learning Based Categorization of		
	fruits for big basket grocery store, 2 nd		
	International Conference on Human		
	Computer Interactions, Mar. 2013		

National

Author (s)	Details		
Mr.Pragyaditya (110113062)	Working model on car safety system at		
	Pragyan 2016.		
Rajendra Singh Thakur and Sivakumaran N	Identification of Rice Quality Using Fuzzy		
	Logic Conference on Instrumentation		
	Systems, Measurement and Automation		
	(CISMA-2015), Jan. 2016.		

3. Workshops / Seminars

3.1 Organized

Coordinator	Title	Period
Dr. K. Srinivasan and	Advanced Control Engineering (ACE-2015)	October, 9-
Dr. N. Sivakumaran		10,2015
Dr. N. Sivakumaran and	Industrial Automation (IA-2015)	August, 17
Dr. K. Srinivasan		to 19,2015

Attended by students

Students	Details	

K.R.Lakshmi	Global Leadership Seminar conducted by Cargill &IIE
	(Institute of International Education)
Minu A Pillai	Seventh ISSS national conference n MEMS,Smart
	materials, Structures and Systems, CUSAT, Kochi Sep 2015

4. Invited / Guest Lectures Delivered by the Faculty

Faculty	Topic	Programme		Place & Date
Dr. K Srinivasan	Industrial	CISMA -2015,	TEQIP	7 th -8 th January 2016, Dept.
	Automation	sponsored	National	of Electronics
		conference	on	&Instrumentation Engg.,
		Instrumentation	systems	Pundicherry Engineering
		m and Automation	n	College

5. Sponsored Projects undertaken.

Co-ordinator	Name of the project	Sponsor	Amount
Co-ordinator	Name of the project	Sponsor	
			(Rs. In Lakhs)
Dr.Ramakalyan	De-congesting India's	Information	Rs 290.56
Ayyagiri	transportation networks	Technology Research	
	using mobile devices	Academy (ITRA)	
		under the focus area	
		Mobile Computing,	
		Networking &	
		Applications, to IIT	
		Madras, IIM	
		Bangalore, IMSc	
		Chennai, NIT	
		Tiruchirappalli and	
		Univ. of Calcutta.	
	Model Driven	ABB Global	Rs 25
	Engineering for	Industries and	
	Integration of Industrial	Services Ltd.	
	Automation Systems with		
	Application to Water		
	Networks		

6. Major Equipment / Software Purchased (more than Rs. 5.00 lakh.)

S. No.	Equipment	Amount (Rs. In Lakhs)
1.	Desktop Computers	Rs 2622880

7. Research Papers Published in National / International Journals

7.1 Faculty

International Journal

S. No.	Title	Author(s)	Journal	Year Vol. (No) Page
1.	Design and modelling of a resonant pressure sensor.	Y. Sujan, G. Uma, M. Umapathy,	Journal of Microsystem Technologies	DOI: 10.1007/s00542-016-2824-4, Publised online 08 th 2016.
2.	Cantilever piezoelectric energy harvester with multiple cavities.	S. Srinivasulu Raju, M. Umapathy, G. Uma.	Journal of Smart Materials and Structures.	DOI:10.1088/0964- 1726/24/11/115023,2015.
3.	Performance enhanced piezo actuated resonant liquid pumping system with two degree of freedom (2-DOF) resonators.	S. Sathiya, M. Umapathy, B. Vasuki	Sensors and Actuators A: Physical	236,44–56, 2015.
4.	Piezoelectric energy harvester with shape memory alloy actuator using solar energy.	A. Rami Reddy, M. Umapathy, D. Ezhilarasi, G. Uma.	IEEE Transactions on Sustainable Energy. Published online	DOI:10.1109/TSTE.2015.244 2758, 2015.
5.	Design enhancement of a chevron electrothermally actuated microgripper for improved gripping performance.	Pankaj Shivhare, G. Uma, M.	Journal of Microsystem Technologies, Published online	DOI:10.1007/00542-015- 2561-0, 2015.
6.	Simple liquid pumping system using piezoelectric actuated cantilever beam.	S. Sathiya, M. Umapathy, B. Vasuki, G. Uma.	Journal of Instruments and Experimental Techniques,	2015 (Accepted)
7.	Cantilever Beam with Trapezoidal	A. Rami Reddy, M. Umapathy, D.	International Journal of	16(8),1875-1881,2015.

	Cavityfor Improved Energy Harvesting.	Ezhilarasi, G. Uma.	Precision Engineering and Manufacturing,	
8.	Modelling and Experimental investigations on stepped beam with cavity for energy harvesting.	A. Rami Reddy, M. Umapathy, D. Ezhilarasi, G.Uma	Journal of Smart Structures and Systems	16(4),2015.
9.	Sliding Mode Control of SMA Actuated Structures for Vibration Control.	K. Dhanalakshmi, M. Umapathy and D Ezhilarasi,.	International Journal of Modelling, Identification and Control,	23(3),2015.
10.	Development of Mathematical Model for Signal Dependent Linear Adaptive Level Based Sampling.	Abhinav Srivastava and K.Srinivasan	International journal of circuit theory and applications. John Wiley and Sons publications.	DOI: 10.1002/cta.2128, 2015.
11.	Design of RTDA controller for industrial process using SOPDT model with minimum or nonminimum zero.	Anbarasan K and K. Srinivasan	ISATransactions, (Elsevier Publications)	57, 231-244, 2015.
12.	Grey Wolf Optimization	E.Sathish, N.Sivakumaran, S.Sankaranarayanan	International Journal for Computation and Mathematics in Electrical and Electronic Engineering	(2016) Accepted
13.	Genetic Algorithm based Feature Selection for Classification of Focal and Non- focal Intracranial Electroencephalogr aphic Signals	E.Sathish, N.Sivakumaran, Sishaj P Simon and S. Raghavan	Journal of Scientific and Industrial Research	(2016) Accepted

14.	Explicit model predictive control of split-type air conditioning system	Chinmay Sahu ,V. Kirubakaran TK, Radhakrishnan, N. Sivakumaran	Transactions of the Institute of Measurement and Control	DOI: 10.1177/0142331215619976 Sage Publication
15.	Energy efficient model based algorithm for control of building HVAC systems	V.Kirubakaran ,Chi nmay Sahu ,TK Radhakrishnan, N. Sivakumaran	Ecotoxicology and Environmental Safety	121,236243, 2015.
16.	Shape memory alloy with bi- functionality in master system to control a slave	Josephine Selvarani Ruth D. and Dhanalakshmi K.	Sensors and Actuators A: Physical	238, 351-360,2016.
17.	Fuzzy based sliding surface for shape memory alloy wire actuated classical superarticulated control system	S.Sunjai Nakshatharan, Dhanalakshmi K. and D. Josephine Selvarani Ruth	Applied Soft Computing	32, 580-589, 2015.

8. Ph.D/MS Awarded

S. No.	Name of the Research	Guide / Supervisor	University /	
	Scholar		Institute	
	J	Ph D Awarded		
1.	Dr. J. Sivaraman	Dr.G Uma	NIT	
2.	Dr. K. Anbarasan	Dr. K. Srinivasan	Tiruchirappalli	
3.	D.Josephine Selvarani Ruth	Dr.K Dhanalakshmi		
	MS Awarded			
1.	Mr. Abhinav Srivastava	Dr. K. Srinivasan	NIT	
2.	Mr. Pankaj Shivhare	Dr. M. Umapathy	Tiruchirappalli	

9. Other Important Points9.1 Guest Lectures Delivered

Faculty	Topic	Program	Date
Dr.P.Ramesh Babu	Transform domain	M.Tech. and	October 18,
Professor and Head Dept. of	representation of signals	Research Scholars	2015
Electronics and Instrumentation	and systems		
Engg. Pondicherry Engineering			

College, Puduchery.			
Prof.Biswas	Image Processing	B.Tech.	Sep 23,2015
Professor, Dept. of Electrical			
Engineering, IIT Delhi			
Dr.K.Radhakrishnan Former	Instrumentation System	B.Tech., M.Tech	Jan 20,2016
Director SCTIMST, Trivandrum	for EEG studies	and Research	
Currently Professor & Head,		Scholars	
Department of Neurology, MIT,			
Manipal			
Mr.VSN. Murthy Arikapalli,	Fire Control Systems in	B.Tech.,M.Tech and	Jan 26,2016
Scientist G,Project Director	Defence Applications	Research Scholars	
BRAHMOS, DRDL Hyderabad			
Dr. Liuping Wang	Model Predictive	B.Tech., III and IV	Feb. 2,2016
RMIT University,	Control: Design and	year.	
Melbourne ,Australia	Implementation		
Dr.Visakan Kadirkamanathan	Case Studies in	B.Tech.,III and IV	Feb. 2,2016
Director, Rolls-Royce University	Healthcare Engineering	year.	
Technology Centre in Control			
and Monitoring Systems			
Engineering Department of			
Automatic Control and Systems			
Engineering University of			
Sheffield, Sheffield, U.K.			
Dr.Kamesh Subbarao	Introduction to	B.Tech., III and IV	Feb. 2,2016
Associate Professor	Reinforcement Learning	year.	
Department of Mechanical and	based Adaptive Optimal		
Aerospace Engineering	Control and System		
The University of Texas at	Identification		
Arlington, Arlington, USA			
Dr.Arun Kumar Paul	Sliding Mode Control	PhD,MS and	Feb. 2 and
Research Head, Electronic	and its Applications	M.Tech.	3,2016
Devices Ltd., Mumbai			
Professor Xiaohua Xia	Model Predictive	B.Tech., III and IV	Feb. 4,2016
Director: Centre of New Energy	Control for Industrial	year.	
Systems	Applications		
Director: National Hub for			
Energy Efficiency & DSM			
Department of Electrical,			
Electronic and Computer			
Engineering			
University of Pretoria, Pretoria,			
South Africa			

Dr.P.R.Venkateswaran Sr Development Engineer,C&I,WRI,BHEL,Trichy	Metal Temperature measurement using Thermocouple	B.Tech.,II year.	March 10,2016
Mr.SN Banerjee Additional General Manager (Retd),Design and Engineering department, C&I Systems Instrumentation Limited (A Government of India PSU-Under Ministry of Heavy Industries),Vadodara	Control Valve - Design and Implementation in Process Industries. Issues affecting performance of Pressure transmitters.	B.Tech., M.Tech and Research Scholars.	March 11 and 12,2016
Mrs.N.Kavitha Director,STEPS Services Knowledge	Transmitters and Electronics circuit design for Thermocouple and RTD.	B.Tech.,II year.	March 15,2016
Mr. A. Gowthaman, Senior Engineer, Maintanence Dept., CPCL, Chennai	Instrumentation in Petrochemical Industry	B.Tech., M.Tech and Research Scholars.	March 31, 2016
Mr.K.Ponnuswamy, GM-Control System Seshayee paper mill Ltd.,Erode	Instrumentation and Control in Paper Industry	B.Tech., M.Tech and Research Scholars.	April 1,2016
Dr.Ravindra D Gudi Professor,Dept of Chemical Engg.,IIT Bombay	Design of Model Predictive control	B.Tech., M.Tech and Research Scholars.	April 1,2016
Dr.J Prakash Professor and Head Dept of Electronics and Instrumentation Engg,MIT Chennai,Anna University	Overview on Kalman Filters	B.Tech., M.Tech and Research Scholars.	April 1,2016
Mr.Kota Sriniwas Chief Scientist CSIO,Chennai	Research Facilities at CSIO	B.Tech., M.Tech and Research Scholars.	April 1,2016



Guest Lecture by Dr. Liuping Wang, RMIT University, Melbourne, Australia.



Guest Lecture by Dr.Visakan Kadirkamanathan, Director, Rolls-Royce University Technology Centre in Control and Monitoring Systems Engineering Department of Automatic Control and Systems Engineering University of Sheffield, Sheffield, U.K.



Guest Lecture by Professor Xiaohua Xia, Director: Centre of New Energy Systems, Director: National Hub for Energy Efficiency & DSM, Department of Electrical, Electronic and Computer Engineering University of Pretoria, Pretoria, South Africa.



Guest Lecture by Mr.SN Banerjee,AGM (Retd),Design and Engineering department, C&I Systems, Instrumentation Limited,Vadodara

9.2 Board of Studies Meeting Held

Sl.No.	Program	Date and Time
1.	B.Tech. (ICE)	April 6, 2015 at 9.30 a.m.
2.	M.Tech. (PCI)	April 6, 2015 at 2.00 p.m.
3.	B.Tech. (ICE) - Flexible Curriculum	April 1, 2016 at 9.30 a.m.

9.3 Industrial Visits Organised

Faculty Coordinator	Organization	Venue & Date	Offered To
Dr.K.Srinivasan	Seshasayee paper boards Limited, Erode and India Cements,Sankari	Solar and Sankari November 5, 2015 (Thursday)	M.Tech - First year / I st semester (2015-17) Batch
Dr.N.Sivakumaran	Ponni Sugars,Erode Seshasayee paper boards Limited, Erode and India Cements,Sankari	Solar and Sankari March 9,2016 (Wednesday)	B.Tech - Third year / 6 th semester (2013- 17) Batch
Prof.G.R.Bennet	Trichy District Cooperative Milk Producers Union Limited, Kottapattu, Trichy	Trichy April 6,2016 (Wednesday)	B.Tech - Second year / 4 th semester (2014- 18) Batch
Prof.G.R.Bennet	TNPL,Karur	Trichy April 15,2016 (Friday)	B.Tech - Second year / 4 th semester (2014- 18) Batch

9.4 Visiting Faculty members

S.No.	Name of Faculty	Courses Handled
1.	Dr.S.Dharmalingam	IC 452 Power Plant Instrumentation and
	_	Control
		IC 673 Real-Time and Embedded Systems
		IC 604 Industrial Instrumentation
2.	Dr.N.Mathivanan	IC 021 Embedded System
		IC 673 Real-Time and Embedded Systems
3.	Mr. Aswini Kumar Panda,Deputy	IC 206 Analog Electronic Circuits
	Manager (C&I) Bharat Heavy	
	Electricals Limited	

9.5 Support staff training

S.No.	Name of Staff	Details of Training	
1.	Mr.M.Viswanathan,Assistant	Continuing Professional Development Programme	
	Engineer	on Industrial Instrumentation and Modern Control	
		System from Jan 05-08,2016,Hyderabad.	
2.	Mr.A.Sahayam, Senior Technician	Continuing Professional Development Programme	
		on Industrial Instrumentation and Modern Control	
		System from Jan 05-08,2016,Hyderabad.	
3.	Mr.C.Ilango,Junior Assistant	Special Course for Administrative officers,Goa	
		April 6-12,2016.	

10. Summary

S.No	Details		•	Total nos	
2	International Journals	17			
3	National journals	NIL			
4	International conference publications	19			
5	National conference publications	2			
6	Sponsored Project	No's:	2	Amount:	Rs 315.56 Lakhs
7	No of Ph.D produced	3	•		
8	No of Patents obtained	NIL			
9	No of books published	NIL			

DEPARTMENT: MANAGEMENT STUDIES

1. Notable Achievements

1.1 Faculty Members

Dr. G. Kannabiran received Commonwealth Professional Fellowship to stay at Edinburgh Napier

University, UK during April-July 2015 on the theme Building competencies for enabling

entrepreneurship development through business incubation support in Higher Educational

Institutions for best practices sharing through a collaborative work. Visited 18 UK universities

and attended conferences in the area of entrepreneurship development.

Dr. G. Kannabiran selected as a National Expert by Asian Productivity Organization, Tokyo for

a multi-country project on Measuring Productivity in Higher Education. Exerts from Eight Asian

countries are working together for a year to bring out best practices in this domain.

Dr. G. Kannabiran won the Emerald Indian Management Research Fund Award 2016 for a

Research proposal on Determinants of Effective Strategic Positioning of University Business

Incubators in India. The proposal co-authored by Dr. Sally Smith, Dean, Edinburgh Napier

University, UK won a fund of £2,000.

1.2 Students

S.No Name **Details of Prizes / Awards Organization** 1 Chandan Raj, Shriya First place among several B-Schools Akshaya Patra Case like, IIM Bangalore, IIM Trichy, Study Akshava Patra BIM Foundation(One of the leading NGOs) 2 Divya Batra **Best Dress Award** IIM, Trichy

2. Conference

2.1 Organised

International: Nil

National: Nil

2.2 Papers presented by the Faculty / Students International

Author (s)	Details
N.Arun, Shashank, Pankaj, Vijay Krishna (II Year M.B.A students)	Developing an agile based supply chain model for Indian Agro based products
Dr.R.Gayathri & Dr.L.Philo Daisy Rani	"Make in India" Selvam College of technology 11 March

National

Author (s)	Details	
Dr. K.Nigama	"Up scaling Local Creative Artisan ARCH	
	Cluster – Case of Metalware Cluster in	
	South India" presented at the National	
	Seminar on Empowering Small and	
	Medium Enterprises (SMEs) for Global	
	Competitiveness organized by Department	
	of International	
	Business, Pondicherry University ,February	
	2015	
Dr.L.Philo Daisy Rani	Talent Management Dr.AGP Arts and	
	science 18 Feb 2016	
Dr.R.Gayathri	NABARD an Innovative Institution in	
	Rural development Dr.AGP Arts and	
	science 18 Feb 2016	

3. Workshops / Seminars

3.1 Organized

Coordinator	Title		Period
Dr.G.Kannabiran	1.	Emerging Management Concepts and practices for 75 Junior Executives of Tamilnadu Newaprints and Papers Limites (in-house),	Three 5 days programme
	2.	Programmes on Knowledge Management for 100 Middle-Level executives of Neyveli Lignite Corporation (NLC), March-September 2015.	March – September 2015.
Dr.G.Muruganantham	3.	Skill enhancement program	9-10 Oct 2015

3.2 Attended Faculty: Nil Student: Nil

4. Invited / Guest Lectures Delivered by the Faculty

Faculty	Topic	Programme	Place & Date
Dr. M. Punniyamoorthy	Central Excise and Service	Central Excise Day	Customs and Central
	Tax		Excise
Dr. M. Punniyamoorthy	Research Methodology	Faculty Development	Gnanam School of
		Programme	Business, Thanjavur
Dr. M. Punniyamoorthy	Business Analytics	Orientation Program	IIM Trichy
Dr. M. Punniyamoorthy	Data Analytics	FDP	B.S. Abdur Rahman
			University
Dr. M. Punniyamoorthy	Time Series Analysis	Workshop	NIT Trichy
Dr. M. Punniyamoorthy	Basic Data Analytics	FDP	MAM College of
			Engineering, Trichy
Mr.P.Murugan	Mediation Moderation	FDP on Academic	Erode 5&6 - 2016
	analysis	Research at EBEIT,	
		Erode	
Dr.L.Philo Daisy Rani	Smart solution for	Selvem College of	Namakkal 18 to 20 Feb
	entrepreneur	Technology	2016
Dr.R.Gayathri	Budget -2016 analysis	AVVM Sri Pushpam	Thanjavur 1 March 2016
		College Thanjavur	

10. Sponsored Projects undertaken.

Co-ordinator	Name of the project	Sponsor	Amount (Rs. In Lakhs)
	Deciphering the Dynamic		38,24,400
Dr. M. Punniyamoorthy	Architecture Design from Music	MHRD, Govt. of India Under	
DI. M. Fullinyamoorury	and developing the application	Under SCSP/TSP/PWD	
	software		
	Cognitive Based Curriculum		60,00,000
	Development Tool For	University Grants Commission	
Dr. M. Dunniyamaarthy	Emerging Areas Of Computer	(UGC) Under Obama Singh	
Dr. Mr. Fullinyamoorury	Emerging Areas Of Computer Engineering And Management	21st Century Knowledge	
	Studies For Improving Teaching	Initiative Grant, Govt. of India	
	Learning Process		
Dr. M. Punniyamoorthy	Empower Dalit Women	MHRD, Govt. of India Under	28,16,352
	Graduates through	SCSP/TSP/ Sub plan	
	Entrepreneurship		
Dr. M. Punniyamoorthy	Data Mining – Opinion Mining	Department of Electronics &	
		IT (DeiTy)	
Dr.g.Muruganantham	Social cause Advertisement	ICSSR - Delhi	3

6. Major Equipment / Software Purchased (more than Rs. 5.00 lakh.): Nil

7. Research Papers Published in National / International Journals

7.1 Faculty International Journal

S. No.	Title	Author(s)	Journal	Year Vol. (No) Page
1	Identification of a standard AI based technique for Credit Risk Analysis	Dr. M.Punniyamoorthy D. Mrs. P. Sridevi	Benchmarking- International Journal	2016 Vol 23,Issue 7
2	Evaluation of FCM based FSVM classifier using Fuzzy Index	 Dr. M.Punniyamoorthy Mrs.P.Sridevi 	International Journal of Enterprise Network Management	Accepted
3	A Conglomerate model for identification of the interaction between job satisfaction and job performance in a service institution - a context bound approach	Dr. M Punniyamoorthy Mrs . V. Lavanya		2015 Vol 1 Issue 1 Pg 66-87
4	Brand Resonance Score for CBBE Model-An Application in Financial Services	 Dr. M. Punniyamoorthy Dr. N. Thamaraiselvan Mr. Ande Raja Ambedkar 	Benchmarking- International Journal	Accepted
5	A test of Green Haus and Allen model on WFB	P.Murugan&Jayanth Jacab	Current Psychology	2015
6	Employees attitude towards health and safty mesures	2. Dr.L.Philo Daisy Rani	International Journal of recent research in commerce, economics and management	2016 Vol. 3, Issue 1, pp: (1-6)
7	WRS & WFI as a predictor of SWH-SR	3. S.M.Soundria & P.David Jawahar	Universal journal of Psychology	2015

National Journal

S. No.	Title		Author(s)	Journal	Year Vol. (No) Page
1	A methodology to prioritize	1.	G . Lakshmi	Global Journal	2015 Vol 4,
	the constructs in supplier	2.	Dr. S Chandra mohan	for Research	Issue 5, ISSN
	selection – an Application in	3.	Dr. M .Punniyamoorthy	Analysis	2277-8160
	an Engineering Industry				
2	A methodology for			International	2015 Vol 4
	identifying significant factors	1.	G . Lakshmi	Journal of	Issue20,
	in supplier selection – A	4.	Dr. S Chandra mohan	Logistics and	pp. 1661-1667
	context based approach	5.	Dr. M .Punniyamoorthy	Supply Chain	
				Management	

7.2 Students

International Journal: Nil

National Journal: Nil

8. Ph.D Awarded

S. No.	Name of the Research	Guide / Supervisor	University /
	Scholar		Institute
1	Dr.P.Sridevi	M.Punniamoorthy	National Institute
			of Technology
2	Dr.V.Lavanya	M.Punniamoorthy	National Institute
			of Technology

9. Details of Books authored by faculty: Nil

10. Patent if any obtained by faculty: Nil

11. Other Important Points: Nil

12. Summary

S.No	Details		7	Total nos	
1.	International Journals	7			
2.	National journals	2			
3.	International conference publications	8			
4.	National conference publications	3			
5.	Sponsored Project	No's:	5	Amoun	12640755
				t:	
6.	No of Ph.D produced	2			
7.	No of Patents obtained	-			
8.	No of books published	-			

DEPARTMENT: MATHEMATICS

1. Notable Achievements

1.1 Faculty Members

S.No	Name	Details of Prizes / Awards	Organization
1	Dr. R. Ponalagusamy	Editorial Board Member, Maejo International J. Sci. Technol.	(SCIE; SCOPUS
2	Dr. K. Murugesan Professor and Head NITT	Tamilnadu scientist award (TANSA)	Tamilnadu Govt.

1.2 Students: Nil

2. Conference2.1 OrganisedInternational: Nil

National

S.No	Coordinator	Programme	Period
	Dr. R. Ponalagusamy	Chairman, Organizing National Conference on Frontiers in APPLIED SCIENCES AND COMPUTER TECHNOLOGY (FACT'16), Department of Mathematics and Department of Computer Applications, National Institute of Technology, Tiruchirappalli-620 015	18-19, March, 2016

${\bf 2.2~Papers~presented~by~the~Faculty~/~Students}$

International

Author (s)	Details
R. Chandra Guru Sekar	"STWS approach for Hammerstein
&	system of
Dr. K. Murugesan	non-linear Volterra integral equations of
	the
	second kind" in INTERNATIONAL
	CONFERENCE ON NONLINEAR
	DYNAMICAL SYSTEMS (ICNDS-
	2016), March 24-26, 2016, Bharathiar
	university - Coimbatore

M. Ganapathirao, R. Ravindran	Non-uniform slot suction/injection into mixed convective MHD flow over a vertical wedge with chemical reaction, International Conference on Computational Heat and Mass Transfer (ICCHMT-2015), Nov 30th-Dec 2nd, 2015 at National Institute of Technology, Warangal.
. N. Samyuktha, R. Ravindran	Thermal Radiation Effect on Mixed Convection Flow over a Vertical Stretching Sheet Embedded in a Porous Medium with Suction (Injection), International Conference on Computational Heat and Mass Transfer (ICCHMT-2015), Nov 30th-Dec 2nd, 2015 at National Institute of Technology, Warangal.
M. Ganapathirao, R. Ravindran	Soret and Dufour effects on unsteady mixed convection flow over a vertical cone in porous medium with non-uniform slot suction/injection, International Conference on Recent Trends in Engineering and Material Sciences (ICEMS-2016), March 17-19, 2016 at Jaipur National University, Jaipur.

National: Nil

3. Workshops / Seminars

3.1 Organized: Nil

3.2 Attended Faculty: Nil

Students:

Students	Details
Dhanasekaran. P	Annual Foundation School-II held at IISER Tiruvandrum, 11th May-6th Jul, 2015.
Jeevaraj. S	Annual Foundation School-III held at HRI Allahabad, 29th Jun-25th Jul, 2015.
R. Chandra Guru Sekar	1. Participated in "National Conference in Control & Inverse Problems", CUTN-Thiruvarur, Thiruvarur (26-27 February 2016) 2."Analysis and Differential equations", TIFR-CAM,

Bangalore (07-19 December 2015).
3."Integral Equations-Solvability Analysis and
Applications", Jaypee University of Information Tech-
nology, Himachal Pradesh (19-25 October 2015).
4. "Mathematical Methods for Scientists and
Engineers(MMSE-2015)", SVNIT-Surat, (29 june -
10 july 2015).
5. "National Seminar on Interdisciplinary and
Transdiciplinary Approach in Research(ITAR-2015)",
DDGD Vaishnav College, Chennai, (13-14 March 2015).
6. "Analysis and Geometry", CUTN-Thiruvarur,
Thiruvarur, (13-14 February 2015).
7. "Best Practices for Effective Usage of Online E-
Resources for promoting Research and develop-
ment", NIT-Tiruchirappalli, Tiruchirappalli, (26-27
September 2014).
,

4. Invited / Guest Lectures Delivered by the Faculty

Faculty	Topic	Programme	Place & Date
Dr. K. Murugesan	Application of	Ramanujan's birthday	Jamal Mohamed
	Mathematics	celebration	College, Trichy:
			25 th December 2015.
Dr. K. Murugesan	Application of	National Conference on	PSGR Krishnammal
	Differential	"Recent Developments in	College for Women,
	equations	Differential equations and	Coimbatore:
		their Applications"	5 th March 2016.
Dr. K. Murugesan	Application of	National Conference on	PSG College of Arts and
	Mathematics	New Frontiers in	Science, Coimbatore:
		Mathematics and its	11 th March 2016
		Applications(NFMA'16)	
Dr.V.Lakshmana	Fuzzy Graphs	Resource Person, ADMA	June 7-9, 2015,
Gomathi		Pre-Conference	B.S.Abdur Rahman
Nayagam		Workshop on Fuzzy	University, Chennai.
		Graphs.	
	Mathematics	Resource Person, One	28.08.2015, Sri Sarada
		Day State Level	Niketan College for
		Workshop 'MEGA-	Women, Karaikudi.
		2015'.	
	Applied	Resource Person,	08.10.2015, T.B.M.L
	Mathematics	National Conference on	College, Porayar,
		Applied Mathematics and	Nagapattinam.
		Computer Simulation-	
		Recent Trends-2015.	

Discrete	Resource Person, Three	10.10.2015, Sahrdaya
Mathematics	Day National Seminar on	College of Advanced
Widthelliaties	Discrete Mathematics and	Studies, Kodakara,
	the Annual Conference of	Kerala.
	Kerala Mathematical	Keraia.
Euggy Topology	Association.	12 10 2015
Fuzzy Topology	Resource Person, Guest	12.10.2015,
	Lecture on Fuzzy	V.V.Vanniaperumal
	Topology.	College For Women,
3.5.1		Virudhunagar.
Mathematics	Resource Person,	November 5-7,2015,
	Mathematical	Kings College of
	Popularization and	Engineering, Chennai.
	Communication.	
Mathematics	Resource Person,	11.12.2015, Madurai
	Refresher Course in	Kamaraj University,
	Mathematics "Advances	Madurai.
	in Analysis, Algebra and	
	Differential Equations"	
Mathematics	Chair Person of the	26.12.2015, Karpagam
	Session: Mathematics &	Academy of Higher
	Statistics	Education Premises,
		Coimbatore-21.
Fuzzy Logic	Resource Person,	17.02.2016, P.K.R Arts
, ,	National Conference on	College For Women,
	Recent Trends in Fuzzy	Gobichettipalayam,
	Logic	Erode.
Fuzzy Logic	Resource Person, Two	18.02.2016, Holy Cross
- J - B -	Days workshop	College (Autonomous),
	- uju saasas p	Tiruchirappalli.
Fuzzy Graphs	Resource Person, ADMA	June 7-9, 2015,
Tuesty Crupins	Pre-Conference	B.S.Abdur Rahman
	Workshop on Fuzzy	University, Chennai.
	Graphs.	om versity, chemia.
Mathematics	Resource Person, One	28.08.2015, Sri Sarada
1,1umomunos	Day State Level	Niketan College for
	Workshop 'MEGA-	Women, Karaikudi.
	2015'.	wollich, Karaikuul.
Applied	Resource Person,	08.10.2015, T.B.M.L
Mathematics	National Conference on	College, Porayar,
1v1atilematies	Applied Mathematics and	Nagapattinam.
		ragapaumam.
	Computer Simulation-	
Disamete	Recent Trends-2015.	10 10 2015 5-11
Discrete	Resource Person, Three	10.10.2015, Sahrdaya

Mathematics	Day National Seminar on	College of Advanced
	Discrete Mathematics and	Studies, Kodakara,
	the Annual Conference of	Kerala.
	Kerala Mathematical	
	Association.	
Fuzzy Topology	Resource Person, Guest	12.10.2015,
	Lecture on Fuzzy	V.V.Vanniaperumal
	Topology.	College For Women,
		Virudhunagar.
Mathematics	Resource Person,	November 5-7,2015,
	Mathematical	Kings College of
	Popularization and	Engineering, Chennai.
	Communication.	

5. Sponsored Projects undertaken.

Co-ordinator	Name of the project	Sponsor	Amount
			(Rs. In Lakhs)
Principle	Decision Support System	MHRD	19,65,000/-
Investigator,	for Incomplete Interval		
Dr.V.Lakshman	Information		
a Gomathi			
Nayagam			
Dr. V. Shanthi	Numerical methods for	DST-FAST TRAC	Rs. 12,00,000
	singularly perturbed two		
	parameter problems		

6. Major Equipment / Software Purchased (more than Rs. 5.00 lakh.)

S. No.	Equipment	Amount
		(Rs. In Lakhs)
1	Desktop computers Dell Model 9020 MT 12 nos	6,47,652.00

7. Research Papers Published in National / International Journals

7.1 Faculty

International Journal

S. No.	Title	Author(s)	Journal	Year Vol. (No)
				Page
1	"Role of Hybrid	D. Jeyasimman, R.	Advanced	26(2015), pp.
	Reinforcement on	Narayanasamy and	Powder	1171-1182
	Microstructural	R. Ponalagusamy,	Technology.	
	Observation,			
	Characterization and			
	Consolidation Behavior			
	of AA 6061			
	Nanocomposite"			

2	"Two-Fluid Model for Blood Flow through a Tapered Arterial Stenosis: Effect of Non- zero Couple Stress Boundary Condition at the Interface"	R. Ponalagusamy	Int. J. Appl. Comput. Math.	(Online, 2016)
3	System of linear second order Volterra integrodifferential equations using Single Term Walsh Series technique.	R. Chandra Guru Sekar & Dr. K. Murugesan	Applied Mathematics and Computation	2016 (Vol.273) Page: 484-492
4	Method of Solving Linear System of Volterra Integro- Differential Equations Using the Single Term Walsh Series.	R. Chandra Guru Sekar, Dr. V. Balakumar & Dr. K. Murugesan	International Journal of Applied and Computational Mathematics	2015(Vol. 1) page: 1-11
5	Numerical Solutions of Volterra-Integral- Algebraic equations using Block- Pulse functions	Dr. V. Balakumar & Dr. K. Murugesan	Applied Mathematics and Computation	2015 (Vol. 263), Page: 165-170
6	Total Ordering Defined on the set of Intuitionistic Fuzzy Numbers	Lakshmana Gomathi Nayagam. V, Jeevaraj. S, Geetha Sivaraman	Journal of Intelligent & Fuzzy Systems	2016(30)
6	A Complete Ranking of Incomplete Trapezoidal Information	Lakshmana Gomathi Nayagam. V, Dhanasekaran. P, Jeevaraj. S	Journal of Intelligent & Fuzzy Systems	DOI: 10.3233/IF S-152064
8	A Hybrid Difference Scheme for A Second Order Singularly Perturbed Reaction- Diffusion Problem with Non-Smooth Data	M. Chandru, T. Prabha, V. Shanthi	International Journal of Applied and Computational Mathematics – Springer,	Volume 1, Issue 1, pp 87-100, 2015.DOI: 10.1007/s40819-014-0004-8
10	Fitted Mesh Method for Singularly Perturbed Robin Type Boundary Value Problem with Discontinuous Source Term A uniformly convergent	M. Chandru, V. Shanthi P.M.Basha, and	International Journal of Applied and Computational Mathematics – Springer, American Journal	Volume 1, Issue 3, pp 491-501, 2015.DOI: 10.1007/s40819-015-0030-1

	scheme for a system of two coupled singularly perturbed reaction- diffusion Robin type boundary value problems with discontinuous source term	V.Shanthi	of Numerical Analysis,	2, 39-48.
11	A numerical method for singularly perturbed second order coupled system of convection-diffusion Robin type boundary value problems with discontinuous source term	P. M. Basha, and V.Shanthi	International Journal of Applied and Computational Mathematics (Springer),	2015, Vol. 1, Issue 3, pp.381– 397

National Journal: Nil

7.2 Students

International Journal

S. No.	Title	Author(s)	Journal	Year Vol. (No)
				Page
1	Total Ordering Defined	Lakshmana Gomathi	Journal of	2016 (30)
	on the set of	Nayagam. V,	Intelligent &	
	Intuitionistic Fuzzy	Jeevaraj. S, Geetha	Fuzzy Systems	
	Numbers	Sivaraman		
2	A Complete Ranking of	Lakshmana Gomathi	Journal of	DOI: 10.3233/IF
	Incomplete Trapezoidal	Nayagam. V,	Intelligent &	S-152064
	Information	Dhanasekaran. P,	Fuzzy Systems	
		Jeevaraj. S		

National Journal: Nil

8. Ph.D Awarded

University /
Institute
National Institute of Technology, Trichy-15
N o:

- 9. Details of Books authored by faculty. Nil
- 10. Patent if any obtained by faculty: Nil
- 11. Other Important Points; <u>Dr. R. Ponalagusamy</u> International Member of Program and Organising committee for Conferences:

Program Committee Member, 7th International Conference on Bio-science and bio-Technology(**BSBT 2014**), 20-23 December, 2014, <u>Hainan University</u>, Hainan China.

Program Committee Member, 3rd Annual International Conference on Computational Mathematics, Computational Geometry and Statistics (CMCGS 2014), April 03- 04, 2014, Hotel Fort Canning, Singapore.

Program Committee Member, 10th International Conference on Computer Vision Theory and Applications (**VISAPP 2015**), 11-14 March, 2015, Berlin, Germany.

International Organizing Committee Member, The 3rd Science One International Conference on Information Technology (ICIT 2015), Dubai, UAE, January 21-23, 2015.

Program Committee Member, 4th Annual International Conference on Computational Mathematics, Computational Geometry and Statistics (CMCGS 2015), January 26 - 27, 2015, Hotel Fort Canning, Singapore.

The 16th International Conference on Bioinformatics and Computational Biology (BIOCOMP'15), U.S.A.

The 13th International Conference on Scientific Computing (CSC'15), U.S.A.

The 13th International Conference on Embedded Systems and Applications (ESA'15), U.S.A.

The 19th International Conference on Image Processing, Computer Vision, & Pattern Recognition (IPCV'15), U.S.A.

The 11th International Conference on Modeling, Simulation and Visualization Methods (MSV'15), U.S.A.

The 21st International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA' 15), U.S.A.

The 13th International Conference on Software Engineering Research and Practice (SERP'15) , U.S.A.

Subject Expert in Faculty Selection Committee:

Member of Selection Committee (Subject Expert) for faculty recruitment in the Department of Mathematics, National Institute of Technology, Warangal – 506 021, 17th July 2015.

Member in Board of Studies:

Member, Board of Studies in Applied Mathematics (UD), Bharathiyar University, Coimbatore, Tamil Nadu State, for the period from 01-01-2015 to 31-12-2017.

12. Summary

S.No	Details	Total n	os		
1.	International Journals	6+3			
2.	National journals				
3.	International conference publications	1			
4.	National conference publications				
5.	Sponsored Project	No's:	1	Amou nt	Rs.19,65,000
6.	No of Ph.D produced	1		•	
7.	No of Patents obtained				
8.	No of books published	1	•		

R. Ponalagusamy, "Biological Study on Pulsatile Flow of Herschel-Bulkley Fluid in Tapered Blood Vessels", in: Quocnam Tam Hamid Arbnia (Eds.), Emerging Trends in Computational Biology, Bioinformatics, and Systems Biology-Algorithms and Software Tools (ISBN: 978-0-12-802508-6), Elsevier Publishers, Boston, USA, 2015, pp. 39-51.

DEPARTMENT: MECHANICAL ENGINEERING

Notable Achievements

1.1. Faculty Members

Sl.No	Name	Details of Prizes/Awards	Organization
1.	Prof S.S.Arulappan	International Best Research Paper Award in Oct 2015 & Jan	TJPRC
		2016	

1.2. Students: Nil

2. Conference

2.1. Organised: Nil

2.2. Papers presented by the Faculty / Students

Sl.No	Author(s)	Details	
1	K V S Dheeraj, M V B Manoj Kumar,	Numerical Simulation of Optimization of Process Parameters of Micro Wire EDM of Al-SiC Alloys	
	Mahendrakar Rithvik, Dr.T Ramesh	Using COMSOL. Excerpt from the Proceedings of the 2015 COMSOL Conference in Pune	
2	Sudarssan. N, Venkatachalapathy. S, Elankovan.R	"Thermal and fluid dynamic design of gas runners for heat recovery steam generators" - First International Conference on Materials, Design and Manufacturing Processes, Organised by Anna	
		University, Chennai, Feb. 17-19, 2016.	

3. Workshops/Seminars

3.1. Organised: Nil

3.2. Attended

Sl.No	Faculty / Students	Details			
1.		Summer and Winter Term on Orthopaedic			
	Dr.T Ramesh	Biomechanics at IIT Kharagpur, 30.11.2015 – 11.12.2015			

2.		Two-Day	Workshop	on	"Explosive	Detection
	Dr.T Ramesh	Technologies and Pattern Recognition Approaches for Electronic nose applications", IIT-Bombay, Feb 22-23, 2016.				
3.	Dr.T Ramesh	FDP on 3D -9, 2015.	Printing Expo	erienc	e, NIT Warang	gal, May 5

4. Invited / Guest Lectures Delivered by the Faculty

Sl.No	Faculty	Topic	Programme	Place & Date
		Electronic	Faculty development	College of
		cooling and	program on "Green	Engineering, Adoor,
	S. Venkatachalapathy	heat pipes	Nanotechnology in	Kerala.
1.			Materials Engg. &	15- 12- 2015
			Energy Applications"	

5. Sponsored Projects undertaken: Nil

6. Major Equipment / Software Purchased (more than Rs. 5.00 lakh.)

S.No	Equipment	Amount (Rs. in Lakhs)
1.	Micro Plasma Welding system	6.8
2.	Pool Boiling Heat Transfer with Instrumentation	10.46
3.	Radiation Errors in Temperature Measurement Unit	9.6
4.	Unsteady Heat Transfer Measurement Unit	8.18

7. Research Papers Published in National / International Journals

7.1. Faculty

Sl.No.	TITLE	Author(s)	Journal	Year Vol. (No) Page
1.	Some studies on mechanical properties and microstructural characterization of automated TIG welding of thin commercially pure titanium sheets	A Karpagaraj, N Siva shanmugam, K Sankaranarayanasamy	The International Journal of Materials Science and Engineering: A	2015 Vol. (640), pp. 180-189

2.	Some studies on temperature field during plasma arc welding of thin titanium alloy sheets using parabolic Gaussian heat source model	V Dhinakaran, N Siva Shanmugam, K Sankaranarayanasamy	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	2015
3.	Experimental investigations on the SiO ₂ flux-assisted GTA welding of superaustenitic stainless steels	K Devendranath Ramkumar, Jelli Lakshmi Narasimha Varma, Gangineni Chaitanya, S Logesh, Madhav Krishnan, N Arivazhagan, N Siva Shanmugam	The International Journal of Advanced Manufacturing Technology	2015
4.	Influence of filler metals in the control of deleterious phases during the multi-pass welding of Inconel 718 plates	K, Devendranath Ramkumar, Jagat Sai, Sridhar Gundla, Santhosh Reddy, P. Prabaharan, N, Arivazhagan and N. Siva Shanmugam	Acta Metallurgica Sinica	2015 Vol. (28), pp 196-207
5.	Investigations on the parametric effects of cold metal transfer process on the microstructural aspects in AA6061	Nalajam Pavan Kumar, S Arungalai Vendan, N. Siva Shanmugam	The International Journal of Alloys and Compounds	2016 Vol. (658), pp. 255-264
6.	Steady state analysis of regular hollow pyramidal radiating fin with triangular cross-section	Vijaikrishnan Venkataramanan, Ramakrishnan Madhavaneswaran, N. Siva Shanmugam	Thermal Science	2016 Vol. (19) pp. 59-68
7.	Studies on Mechanical behavior And Microstructural Analysis of Tailor Welded Blanks of Ti- 6Al-4V Titanium Alloy Sheet	Karpagaraj, A; N. Siva Shanmugam, Nallathambi; Sankaranarayanasamy. K	Journal of Materials Research	2016
8.	Numerical, Experimental and Analytical Investigation for Higher Wind Turbine Efficiency,	S.S.Arulappan	International Journal of Mechanical and Production	August 2015

			Engineering Research and Development	
9.	'Experimental and CFD Investigations Analogy for Wind Turbine Efficiency Using Commercial Small Fan Blades'	S.S.Arulappan	International Journal of Mechanical and Production Engineering Research and Development	August 2015
10.	A Review of Similar and Dissimilar Micro-joining of Nitinol	T. Deepan Kannan, P. Sathiya Bharathi T. Ramesh,	The Minerals, Metals & Materials Society	2016 February, pp 1-19
11.	Synthesis, stability, transport properties, and surface wettability of reduced graphene oxide/water nanofluids	R. Kamatchi, S. Venkatachalapathy , B. Abhinaya Srinivas	International Journal of Thermal Sciences	2015, Vol (97) 17- 25.
12.	Experimental investigation and mechanism of critical heat flux enhancement in pool boiling heat transfer with nanofluids	R. Kamatchi, S. Venkatachalapathy C. Nithya	Journal of Heat Mass Transfer	2015, Vol (12)
13.	Shrinkage characteristics studies on conventional sintered zirconia toughened alumina using computed tomography imaging technique	S. Renold Elsen, T. Ramesh	International Journal of Refractory Metals and Hard Materials	2016 Vol (54) pp. 383–394
14.	Optimization to develop multiple response hardness and compressive strength of zirconia reinforced alumina by using RSM and GRA	S. Renold Elsen, T. Ramesh	International Journal of Refractory Metals and Hard Materials	2015 Vol (52), September , pp. 159– 164
15.	The Elevated Temperature Wear Analysis of Laser Surface—Hardened EN25 Steel Using Response Surface Methodology	P. Dinesh Babu, G. Buvanashekaran and K. R. Balasubramanian	International Journal of Tribology, Transactions	2015, Vol.58:4, pp. 602- 615
16.	Assessment of plastic loads of critical throughwall circumferentially cracked pipe bends with structural	Sumesh S, AR. Veerappan and S. Shanmugam	Thin-Walled Structures	2016 Vol. (104), pp. 144–151

17.	distortions under in-plane bending Influence of Structural Distortions on Type 304 Stainless Steel 90° Pipe Bends with Critical Circumferential Throughwall Cracks under Bending Moment and Internal Pressure	Sumesh S, AR. Veerappan and S. Shanmugam	International Journal of Applied Engineering Research	2015 Vol. (10) No.24, pp. 21200 – 21204.
18.	Finite Element Analysis of Shape-Imperfect Pipe Bends under In-Plane Closing Moment	T. Christo Michael, AR. Veerappan, S. Shanmugam	International Journal of Applied Engineering Research	2015 Vol. 10 No.24,
19.	Numerical Modeling of Year-Round Performance of a Solar Parabolic Dish Thermoelectric Generator	G. Muthu, S. Shanmugam, AR.Veerappan	Journal of Electronic Materials	2015 Vol. (44) No. 8, pp. 2631 – 2637
20.	Mathematical Modeling of Thermoelectric Generator with Solar Parabolic Dish	G. Muthu, S. Shanmugam, AR.Veerappan	Applied Mechanics and Materials	2015 Vol. (669), pp. 558 – 563

7.2. Students: Nil

8. Ph.D Awarded: Nil

9. Details of Book any authored by faculty: Nil

10. Patent if any obtained by faculty: Nil

11. Other Important Points

12. Summary

S. NO	Details	Total no's
1	International journals	11
2	National journals	9
3	International conference publications	
4	National conference publications	
5	5 Sponsored projects Amount	
6	No of Ph.d produced	
7	No of patents obtained	
8	No of books published	

DEPARTMENT : METALLURGICAL AND MATERIALS ENGINEERING

1. Notable Achievements

1.1 Faculty Members

S.No	Name	Details of Prizes / Awards	Organization
1.	Prof. S.Natarajan	Certificate of Award for Outstanding	Taylor & Francis
		Contribution in Reviewing for the	Group,
		International Journal of Materials and	Philadelphia,
		Manufacturing Processes.	USA
2.	Dr.V.Muthupandi	First prize in the Metallographic contest in	IIM
		the category of 'Light microscope',	
		conducted by Indian Institute of Metals	
		during NMD-ATM 2015, Nov13-16, 2015,	
		Coimbatore.	

1.2 Students

S.No	Name	Details of Prizes / Awards	Organization		
Final Ye	Final Year(2015-2016)				
1	Ms.Vrinda Somjit	Received Admission & Scholarship for Integrated MS Ph.D Material Science	M.I.T, USA		
2	Ms.Somya V	Received Admission & awaiting for scholarship for Masters in Computer Science	University of Chicago,USA		
3	Mr.Ananth Natarajan	Received Admission & awaiting for scholarship for Masters in Computer Science	University of Texas & Newyork State University, USA		
4	Mr.Siddarth R	Received Admission & awaiting for scholarship for Masters in Material Science & Engineering, Technology management innovation – Dual degree	Carneige Melon University,USA		
		Received Admission & awaiting for scholarship for Masters in Material Science Received Admission & awaiting for scholarship for Masters in Aerospace Engineering	University of Illionis & University of Florida,USA TU Delft		
5	Mr.Saikiran G	Received Admission & awaiting for scholarship for Masters in Material Science	Arizona State University,USA		

		Received Admission & awaiting for scholarship for	TU Delft
		Masters in Aerospace Engineering	
6	Mr.Adithya Vijay R	Received Admission & awaiting for	University of
		scholarship for	Florida,USA
		Masters in Material Science	TU Delft
III Year			
1	Ms.Haripriya	DAAD Scholarship , Summer 2016	Germany
2.	Ms. Yashvi Singh	S.N.Bose fellowship,Summer2016	USA
,Kalpakkan	Inplant training & Internship at IITM,IITB,NIIST,Trivandrum,SAIL, CSIR & IGCAR ,Kalpakkam		
II Year			
1.	Ms.Stutee Nandha	TRA-ERF Scholarship	
2.	Mr.Mughilan		
	Inplant training & Internship at DRDL, Hyderabad, BHEL, Hyderabad, MIDHANI, Hyderabad & IISc., Bangalore		
SPORTS			
1.	Ms.Supriya, II year	Gold Medal-	
		Womens Kho-Kho,	
		IIT,Kanpur,2015	

2. Conference

2.1 Organized

International

S.No	Coordinator	Programme	Period
1.	Dr. S. Kumaran, Dr. S. Muthukumaran and Prof. S. Raman Sankaranarayanan	AMMA 2015 (Advances in Materials, Manufacturing and Applications)	9-11 th April 2015 at NIT, Tiruchirappall i

National: Nil

2.2 Papers presented by the Faculty / Students

International

Author (s)				Details
S.Prakash,N	ishanth,R	John		Study on Cold Metal Transfer Welding of AA2014
Kumar,S.Jer	ome			International ConferenceICAME-2015 Anna university-Villuppuram ,Oct15 th – 16 th , 2015
G.Reddy,	Sekar	R.John	Felix	Study on the effect of deformation on AA5052 alloy of

Kumar,S.Jerome	TIG weldments - International Conference –NCAMP-
	2016,
	NIT-Wrangal, Jan 4-6 ,2016
P.Muthukumar, Mebin, R.John Felix Kumar,	Improved Surface Properties of Al2024 Based Surface
S.Jerome	Hybrid Composites By Friction Stir Processing
S.Jerome	Anna university- Chennai, Feb17th- 19th, 2016
S.Natarajan, Kousik Polley, Edward	Study on Corrosion behavior of 4A and 5A cast duplex
Anand.E ,S.P Kumaresh Babu	stainless steel in different heat treatment conditions
	CORCON2015,19-21 November,at Chennai
S.Natarajan, Y.M.Priyanka,	Hot corrosion study on friction welded joint of Ti tube
S.Muthukumaran, Edward Anand.E	to 304L Stainless steel tube plate with copper
	interlayer using an external tool
	CORCON2015,19-21 November,at Chennai
Roshan Jacob, S.P Kumaresh Babu,	Effect of post – surface re-melting of thermally
S.Natarajan	sprayed duplex stainless steel coating over Fe 410
	grade carbon steel on its corrosion behavior
	CORCON2015,19-21 November,at Chennai

National

Nauonai	
Author (s)	Details
G Venkatesan, Mohamed Najlan, V Muthupandi	Effect of NiO, Fe ₂ O ₃ and 87% SiO ₂ + 13% TiO ₂ fluxes on bead profile in A-TIG welding of AISI 409 ferritic stainless steel NMD-ATM 2015, Nov13-16, 2015, Coimbatore
P Rajesh Kannan, V Muthupandi, K Devakumaran -	Study on metallurgical and mechanical properties of super 304HCu stainless steel welds NMD-ATM 2015, Nov13-16, 2015, Coimbatore
Ilayaraja, L. John Berchmans and	Preparation of Rare Earth -Transition Metal alloy by
Sankara Raman Sankaranarayanan	Calciothermic reduction-diffusion process (CRD), 69 th
(2015),	Annual Technical Meeting of the Indian Institute of
	Metals, IIM - NMD ATM 2015, Coimbatore,
	November 2015.
Y. G. Bala, Sankara Raman	"Relevance of Different Heat Treatment Schedules to
Sankaranarayanan and K. S. Pandey	Improve Physico - Mechanical Properties of Powder
	Preform Forged Steel",

	69 th Annual Technical Meeting of the Indian Institute of Metals, IIM – NMD ATM 2015, Coimbatore, November 2015.
Moorthyram and Sankara Raman Sankaranarayanan	Slag Steel Reactions during continuous casting of steels, 69 th Annual Technical Meeting of the Indian Institute of Metals, IIM - NMD ATM 2015, Coimbatore, November 2015.
Chandrasekar K, Subramanyam Adabala, B.Ravisankar and S.Kumaran	Characterisation of Mechanically alloyed Al 5083 alloy and Composite Processed by Equal Channel Angular Pressing" in 53 rd NMD and 69 th ATM held during 13-16 November 2015 at Coimbatore PP 169
Kondiah. G, B.Ravisankar, S.Kumaran and S.Ramesh Kumar	Characterisation of Mechanically alloyed Al 5083 alloy Processed by Equal Channel Angular Pressing" in 53 rd NMD and 69 th ATM held during 13-16 November 2015 at Coimbatore PP 169
Suresh Kumar and B.Ravisankar	Evaluation of Quality of Dissimilar Diffusion Bonding by Ultrasonic method" in 53 rd NMD and 69 th ATM held during 13-16 November 2015 at Coimbatore PP 65

3. Workshops / Seminars

3.1 Organized

OII OIGUIIIZEU				
Coordinator	Title	Period		
1) Dr.S.Muthukumaran	"Advancements in Welding Technology 2015"	15/11/2015		
2) Dr.S.Jerome	Advancements in Welding	Dec 11,2015		
,	Technology(AWT)	ŕ		
3) Dr.S.P.Kumaresh Babu, Prof. S.	THERMO-CALC Software Training	Feb23-		
Raman Sankaranarayanan and		25,2016		
Dr. S. Muthukumaran		·		
4)Dr.S.Muthukumaran	Dr. G. Ravichandran Delivered a Lecture on	09/03/2016		
	"Welding Symbols" to B.Tech (MME)			
	students			
5)Dr.S.Muthukumaran	Prof. A. Vengatraman delivered a lecture on	09/03/2016		

"Research Methodology" on 09/03/2016, for PG and Ph.D scholars.	

3.2 Attended

Faculty	Details
Dr.V.Muthupandi	QIP short term course on 'Advanced aerospace materials, processing, characterization and applications' conducted at IIT, Roorkee during 1-5 June, 2015
Dr.S.P.Kumaresh babu, Dr.S.Natarajan,	Participated in the TEQIP-II sponsored
Dr.S.Muthukumaran, Dr.S.Jerome, Prof.S. Raman	course on "Conclave on Academic
Sankaranarayanan, Dr.N.Ramesh Babu,	Reforms (CAR 2015) on 28-29, April
Dr.S.Kumaran ,Dr.V.Muthupandhi, Dr.K.Sivaprasad	2015 held at National Institute of
	Technology, Tiruchirappalli-620 015
Dr.S.Muthukumaran, Dr.S.Jerome, Prof. S. Raman	Participated in 53 rd NMD and 69 th
Sankaranarayanan, Dr. N. Ramesh	ATM held at Hotel Le Meridien,
Babu, Dr. S. Kumaran, Dr. V. Muthupandhi, Dr. K. Sivapras	Coimbatore organised by IIM,
ad	Coimbatore, Tiruchirappalli, Chennai,
	Kalpakkam and Jamshedpur chapters in
	association with Department of
	Metallurgical Engineering, PSG
	College of Technology, Coimbatore
	and R&D Centre for Iron and Steel,
	Steel Authorities of India Limited,
	Ranchi during 13-16, November 2015

Students: Nil

4. Invited / Guest Lectures Delivered by the Faculty

Faculty	Topic	Programme	Place & Date
Dr.V.Muthupandi	'Materials	TEQIP-II sponsored	Department of
	characterisation by	Faculty Development	Mechanical
	X-ray diffraction'	Programme on Research	Engineering, College
		Methodology	of Engineering Adoor,
			Pathanamthitta
			District, Kerala
			17.11.2015

	'Charactrerisation of nanomaterials'	TEQIP-II sponsored Faculty Development Programme on "Green nanotechnology in Materials Engineering and Energy Application"	Department of Mechanical Engineering, College of Engineering Adoor, Pathanamthitta District, Kerala 16.12.2015
	"Micro Arc Oxidation"	NAMS 2015 ,The Society of Aerospace Manufacturing Engineers on the theme "Make in India: the Aerospace scenario"	Tiruvananthapuram, 28.11.2015.
Dr.K.Sivaprasad	"CNT reinforced high entropy alloys" in "National Workshop on High Entropy Alloys",	Dept of Metallurgical & Materials Engg., IIT Madras, Chennai, India,	"29-30, March, 2015
	"Advanced Materials Through Simple Processing Methods"	TEQIP funded National Workshop on Advanced Materials and Processes	College of Engineering, Andhra University, Visakhapatnam during July, 2015
	"Oxide Dispersion Strengthened Alloys & Characterization",	TEQIP sponsored workshop on High Temperature Materials Characterization	University College of Engineering, Anna University, BIT Campus, Tiruchirappalli, during 08-09 March, 2016.
Dr.B.Ravisankar	Formability tests	TEQIP sponsored one week workshop on "Testing and Characterization of Materials	July 21-27, 2015, at Govt. College of Engineering, Salem.
	A step ahead in Equal Channel Angular Pressing (ECAP)	53 rd NMD and 69 th ATM	13-16 November 2015 at Coimbatore.
	Non Ferrous Alloys	FDP	November 26 th , 2015 at PSNA College of Engineering and Technology, Dindugal.

	Advanced materials for automobile bodies	Two Day Workshop on "Automotive Materials" (AUTOMAT'16)	18 th to 19 th February 2016 organised by Anna University, Tiruchirappalli.
Prof. S.Natarajan	Challenges and Opportunities in Corrosion Control and Surface Engineering with some highlights on Recent Trends in Mining Scenario	National Conference on Metallurgical Industries: Sustainability and Value Addition – Organised by IIM Bangalore Chapter & ASM Bangalore Chapter.	International Exhibition Centre, Bangalore, December 3, 2015
Prof. S.Natarajan	Corrosion in Gas Turbine Technology	Interaction Programme for GTRE Scientists	GTRE, Bangalore, December 4, 2015
Prof. S.Natarajan	Inaugurated National Conference on Global Advances in Materials for Energy, Engineering and Environmental Sciences (GAME ³ S- 16) and delivered a Plenary Lecture.	National Conference on Global Advances in Materials for Energy, Engineering and Environmental Sciences (GAME ³ S-16)	M.Kumarasamy College of Engineering, Karur March 4, 2016
Prof. S.Natarajan	Emerging Trends in Thermal Spray Coatings for Mining and Gas - Turbine Applications: with a focus on Recent R&D Efforts at NIT, Tiruchirappalli	National Convention of Electorchemists (NCE-19)	NIT, Tiruchirappalli March 28 – 29, 2016
Dr.S.P.Kumaresh Babu - As a CECASE Expert member	Corrosion and Surface Engineering	Work shop on Corrosion & Surface Engineering	Neyveli Lignaite Corporation, Neyveli,Tamil Nadu Dec,29-30,2015 & Feb14-15,2016

5. Sponsored Projects undertaken.

Co-ordinator	Name of the project	Sponsor	Amount (Rs. In Lakhs)
Dr.S.Kumaran	Nanomission Sponsored Project on Development Nano-structured Magnesium Silicide Thermo-electric materials by Spark Plasma Sintering and Evaluation of Electric Power Generation from Thermal Systems.	DST	25
	Mechano-chemical Synthesis of Nanostructured Magnesium Silicide Thermo-electric Materials by SPS.	CSIR	16
	Development of Nano-Oxide	DST	35
	Dispersion Strengthened Ferritic /		
	Martensitic Steels by Spark Plasma		
	Sintering and Study their High		
	Temperature Properties		
Dr.S.Muthukumaran	Friction stir welding of aluminium	VSSC/ISRO	21.93
	alloys for aero space applications		
Dr.S.P.Kumaresh	Development of Black Zinc Nickel	DST	18.5
babu & Dr.S.Muthukumaran	coatings as a replacement to cadmium		
	coatings used in Aerospace and		
	Defence applications		
Dr.S.Muthukumaran	Application of multi-scale modelling for dissimilar welding and improving graduate employability in India through eLearning	Royal Academy, London, United Kingdom	50

6. Major Equipment / Software Purchased (more than Rs. 5.00 lakh.)

S. No.	Equipment	Amount (Rs. In Lakhs)
1.	THERMO-CALC technical software	49.5

7. Research Papers Published in National / International Journals

7.1 Faculty

International Journal

S.	Title	Author(s)	Journal	Year Vol. (No) Page
No				
1	Optimization of pulsed current GTAW process parameters for sintered hot forged AISI 4135 P/M steel welds by simulated annealing and genetic algorithm	Joby Joseph & S. Muthukumara n	Journal of Mechanical Science and Technology	2016 (30) pp 145-155
2	Numerical Simulation and Artificial Neural Network Modeling for Predicting Welding- Induced Distortion in Butt-Welded 304L Stainless Steel Plates	VV Narayanareddy, N Chandrasekhar, M Vasudevan, S Muthukumaran, P Vasantharaja	Metallurgical and Materials Transactions B	2016(47)702-713
3	An investigation on SA 213-Tube to SA 387- Tube plate using friction welding process	S Pandia Rajan, S Senthil Kumaran, LA Kumaraswamidhas, S Muthukumaran	Journal of Mechanical Science and Technology	2016(30)337-344
4	Weldability Characteristics of Sintered Hot-Forged AISI 4135 Steel Produced through P/M Route by Using Pulsed Current Gas Tungsten Arc Welding	Joby Joseph, S Muthukumaran, KS Pandey	High Temperature Materials and Processes	2016(35)9-19
5	Simulation of laser butt welding of AISI 316L	Jazeel Rahman Chukkan, M	Journal of Materials	2015(219)48-59

	stainless steel sheet using various heat sources and experimental validation	Vasudevan, S Muthukumaran, R Ravi Kumar, N Chandrasekhar	Processing Technology	
6	Study of sub-shoulder tool wear on friction stir welded steel plates using two modes of metal transfer phenomenon	A Pradeep, S Muthukumaran	The International Journal of Advanced Manufacturing Technology	2015,1-10
7	Optimization of activated TIG welding parameters for improving weld joint strength of AISI 4135 PM steel by genetic algorithm and simulated annealing	Joby Joseph, S Muthukumaran	The International Journal of Advanced Manufacturing Technology	2015,1-12
8	Effect of Cerium addition on Corrosion behavior of AZ61+XCe under salt spray test	Manivannan, S.P.Kumaresh babu	AEJ	October, 2015
9.	Degradation Through Erosion: Mechanistic Studies on IN 718 Superalloy under Hot Air Jet Conditions	K.G.Thirugnanasa mbantham & S.Natarajan	Journal of Materials Engineering and Performance, ASM International	Vol: 24(7), July 2015 – 2605.
10	Sliding wear behaviour and its mechanisms of carbonitrided AISI 8620 steel at 100°C under unlubricated conditions	R. Sankaran, D.Rajamani, S.Natarajan & K.G.Thirugnanasa mbantham	Surface Engineering, Maney Publications	DOI:10.1179/ 1743294415Y. 0000000090 Online: March2, 2016
11	Selection and characterisation of HVOF cermet coatings for volutes of high capacity pumps of opencast lignite mines	M. Kumarasamy & S.Natarajan	Surface Engineering, Maney Publications	Volume 32, Issue 3, 2016, pp: 229-237
12	Strengthening Mechanisms in Multiwalled Carbon Nanotubes Reinforced Co–W Pulse Electrodeposited Coatings Effect of graphite	E. Edward Anand & S. Natarajan Akhilesh K.,	Materials and Manufacturing Processes, Taylor & Francis Materials	Volume 31, Issue 1, Jan 2016, pp: 48-52

	addition on the Microstructure, Hardness and Abrasive Wear behavior of Plasma sprayed NiCrBSi coatings	Ananya Rajagopal, Preethi Nambiyar, S.Natarajan, E.Edward Anand	Chemistry and Physics, Elsevier	j.matchemphys. 2016.02.076
14	Thermochemical Surface Engineering of Steels - Book Review	S.Natarajan	Surface Engineering, Maney Publications	Vol: 31(11), 2015, pp: 875-878
15	Biomimetic, Bioresponsive and Bioactive Materials – Book Review	S.Natarajan	Materials and Manufacturing Processes, Taylor & Francis	DoI: 10.1080 / 10426914.2015. 1059095
16	Role of electrolyte additives on in-vitro corrosion behavior of DC plasma electrolytic oxidization coatings formed on Cp-Ti	S Hariprasad, M Ashfaq, T Arunnellaiappan, M Harilal, N Rameshbabu	Surface and Coatings Technology	(In print, available online)
17	An investigation on pulsed DC plasma electrolytic oxidation of Cp–Ti and its corrosion behaviour in simulated body fluid	S Gowtham, T Arunnellaiappan, N Rameshbabu	Surface and Coatings Technology	(In print, available online)
18	T Arunnellaiappan, NK Babu, LR Krishna, N Rameshbabu	Influence of frequency and duty cycle on microstructure of plasma electrolytic oxidized AA7075 and the correlation to its corrosion behavior	Surface and Coatings Technology	(In print, available online)
19	S Sampath, M Shestakova, P Maydannik, T Ivanova, T Homola, N Rameshbabu	Photoelectrocatalyt ic activity of ZnO coated nano-porous silicon by atomic layer deposition	RSC Advances	6 (30), 25173-25178
20	T Arunnellaiappan, M	Fabrication of	Ceramics	Volume 42, Issue 5,

	Ashfaq, LR Krishna, N Rameshbabu	corrosion-resistant Al 2 O 3–CeO 2 composite coating on AA7075 via plasma electrolytic oxidation coupled with electrophoretic deposition	International	April 2016, Pages 5897–5905
21	C.H. Muralimohan, M. Ashfaq, Rouholah Ashiri, V. Muthupandi, and K. Sivaprasad	Analysis and Characterization of the Role of Ni Interlayer in the Friction Welding of Titanium and 304 Austenitic Stainless Steel.	Metall and Mat Trans A (2016)	V 47, (1), p347-359
22	Venkateswari Ayyavu and Kumaran Sinnaeruvadi	Does aluminum and niobium substitution for nickel actually improve the electrochemical performance of Mg2Ni?	Mater. Express,	Vol. 5, 2015
23	A. Venkateswari, S. Kumaran, C. Nithya	"Can the Degree of Crystallinity of Ball Milled Mg ₂ Ni Intermetallic Compound Decide its Electrochemical Characteristics?"	Journal of Nano Research	Vol. 33, pp. 137-149, Jun. 2015
24	S.Vigneshwaran, P.Venkatachalam, P. Rajesh, S. Kumaran and B. Ravisankar	Densification of machined CP Al chips by Equal Channel Angular Pressing (ECAP)"	International Journal of Applied Engineering Research	ISSN 0973-4562 Volume 10, Number 8 (2015) 6006-6010

25	G.Kondaiah, K.Chandra Sekhar, B.Chaitanyakrushna, B.Ravisankar and S.Kumaran	"Characterization of Mechanically Alloyed Al5083 Alloy and Composite and Consolidation by Equal Channel Angular Pressing"	Applied Mechanics and Materials	Vols 764-765 (2015) pp 23-27.
26	G.Kondaiah, K.Chandra Sekhar, B.Chaitanyakrushna, B.Ravisankar and S.Kumaran	Densification of Al 5083 Mechanically Alloyed Powder by Equal Channel Angular Pressing	Transactions of the Indian Institute of Metals,	Published on line ; DOI 10.1007/s12666- 015-0557
27	Kondaiah Gudimetla, Ganesh Varma Jampana, S Ramesh Kumar,B Ravisankar and S Kumaran	Effect of Equal Channel Angular Pressing on Densification Behavior of Al 5083 Alloy Powder	Materials Science Forum	Vols. 830-831 (2015) pp 63-66
28	Vinoadh Kumar K, Kumaran S,	Rapid Synthesis of V-4Cr-4Ti Alloy/Composite by Field Assisted Sintering Technique,	International Journal of Refractory Metals and Hard Materials , 2016	
29	N. Naga Krishna, M. Ashfaq, P. Susila, K. Sivaprasad, K. Venkateswarlu,	"Mechanical Anisotropy and Microstructural Changes During Cryorolling of Al- Mg-Si Alloy"	MATERIALS CHARACTERIZATIO N,	107, 2015, 302-308
30	S. Sivasankaran, K. Sivaprasad, R. Narayanasamy, M. Saravanan	"Effect of coarse grain matrix content on the mechanical behavior of trimodaled AA	INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY,	78, 2015, 385-394.

		6061-TiO2 nanocomposite prepared by mechanical alloying",		
31	K.S.V.B.R.Krishna, K.Chandra Sekhar, R.Tejas, N.Naga Krishna, K.Sivaprasad, R.Narayanasamy, K.Venkateswarlu,	"Effect of Cryorolling on the Mechanical Properties of AA5083 alloy and the Portevin-Le Chatelier Phenomenon",	MATERIALS AND DESIGN	67, 2015, 107-117. (SCIE) ISSN: 0261- 3069
32	Jazeel Rahman Chukkan, M Vasudevan, S Muthukumaran, KC Ganesh, Ravi Kumar, S Murugan, V Maduraimuth,	Numerical Simulation of Pulsed Nd-YAG Laser Butt Welding of AISI 304L Stainless Steel Sheet and Experimental Validation,	Applied Mechanics and Materials	592, 565-570.
33	V.V Narayanareddy, M Vasudevan, S Muthukumaran, KC Ganesh, N Chandrasekhar, P Vasantaraja,	Finite Element Modeling of TIG Welding of Aisi 304l Stainless Steel and Experimental Validation	Applied Mechanics and Materials	(2015) 592, 368-373.
34	S Senthil Kumaran, S Muthukumaran,	Effect of projection on joint properties of friction welding of tube-to-tube plate using an external tool.	The International Journal of Advanced Manufacturing Technology	(in press)
35	VV Narayanareddy, N Chandrasekhar, M Vasudevan, S Muthukumaran	"Numerical Simulation and Artificial Neural Network Modeling for Predicting Welding-Induced	Metallurgical and Materials Transactions	B, 1-12

		Distortion in Butt- Welded 304L Stainless Steel Plates"		
36	JR Chukkan, M Vasudevan, S Muthukumaran, RR Kumar	"Simulation of laser butt welding of AISI 316L stainless steel sheet using various heat sources and experimental validation"	Journal of Materials Processing Technology	219, 48-59.
37	A Pradeep, S Muthukumaran,	Study of sub- shoulder tool wear on friction stir welded steel plates using two modes of metal transfer phenomenon	The International Journal of Advanced Manufacturing Technology	(in press)
38	J Joseph, S Muthukumaran	"Optimization of activated TIG welding parameters for improving weld joint strength of AISI 4135 PM steel by genetic algorithm and simulated annealing"	The International Journal of Advanced Manufacturing Technology	(in press)
39	VV Narayanareddy, N Chandrasekhar, M Vasudevan, S Muthukumaran	"Numerical Simulation and Artificial Neural Network Modeling for Predicting Welding-Induced Distortion in Butt- Welded 304L Stainless Steel Plates"	Metallurgical and Materials Transactions	B, (2015) 1-12

40	M. Mahadevasamy, S Muthukumaran, K. Kiran	"Two step friction stir spot welding between aluminium and carbon steel sheets"	Science and Technology of Welding and Joining	(Accepted)
41	Marimuthu Ilayaraja, L. John Berchmans and Sankara Raman Sankaranarayanan	Synthesis of Y-Ni alloy by Calciothermic reduction diffusion process.	Metallurgical and Materials Engineering,	21(2) 65-72.
42	Bala, Y.G., Sankara Raman Sankaranarayanan and K.S. Pandey	"Experimental Aspects Of Densification And Arc Radius Of Barreling Considering Circular Arc in Sintered P/M AISI 8640 Steel During Hot Upset Powder Preform Forging",	International Journal of Metallurgical & Materials Science and Engineering (IJMMSE),	Vol. 5, Issue 1, Feb 2015, pp. 39-52.
43	Bala, Y.G., Sankara Raman Sankaranarayanan and K.S. Pandey,.	"Assessment of Densification and Mechanical Property of AISI 8630 Steel Composition on different Heat Treatments Produced Through Hot Upsetting Powder Preform Forging",	Metals and Materials International (MMI-Springer)	Vol. 21, No.6 (2015), pp. 1044-1053.
44	Bala, Y. G., Sankara Raman Sankaranarayanan and K. S. Pandey	"Diverse Cooling Schedules to Improved Physico - Mechanical	Kovove Materialy - Metallic Materials	(article accepted, in press),

45	M. Selvakumar, P. Chandrasekar, M. Mohanraj, B. Ravisankar, J.N. Balaraju	Properties of Hot Upset Forged AISI 8620 P/M Steel Bars", Role of powder metallurgical processing and TiB reinforcement on mechanical response of Ti–TiB composites	Materials Letters	144 (2015) 58–61144 (2015) 58–61
46	S.Vigneshwaran, P.Venkatachalam, P. Rajesh, S. Kumaran and B. Ravisankar	Densification of machined CP Al chips by Equal Channel Angular Pressing (ECAP)	International Journal of Applied Engineering Research	Volume 10, Number 8 (2015) 6006-6010
47	G.Kondaiah, K.Chandra Sekhar, B.Chaitanyakrushna, B.Ravisankar and S.Kumaran	Characterization of Mechanically Alloyed Al5083 Alloy and Composite and Consolidation by Equal Channel Angular Pressing	Applied Mechanics and Materials	Vols 764-765 (2015) pp 23-27
48	Kondaiah Gudimetla, Ganesh Varma Jampana, S Ramesh Kumar, B.Ravisankar and S Kumaran	Effect of Equal Channel Angular Pressing on Densification Behavior of Al 5083 Alloy Powder	Materials Science Forum	Vols. 830-831 (2015) pp 63-66
49	Balaraju J N, Abhinav, vinodkumar Lokre, Kumar and B.Ravisankar	Hardness and Wear Behavior of Electroless Ni-B Coatings Materials Science and Technology		
50	Chandra Sekhar Kondaveeti ,Sai Prakash	Metallurgical and Mechanical Properties of Mild	Trans IIM	

Sunkavalli,	Durgarao	steel processed by	
Undi,	L.V.Hanuma	Equal Channel Angular Pressing	
kumar,	Kondaiah	(ECAP)	
Gudimetla,			
Balasubrama	anian		
Ravisankar			

National Journal: Nil

7.2 Students

International Journal: Nil National Journal: Nil

8. Ph.D Awarded

S.	Name of the	Guide / Supervisor	Thesis title	University /
No.	Research Scholar	•		Institute
1	Mr.Sajith babu	Dr.K.Sivaprasad	"Studies on Structural Aspects and Corrosion Behaviour of Nanocrystalline High Entropy Alloys"	N.I.T. Tiruchirappalli
2	Mr. E.Edward Anand	Prof. S.Natarajan	Corrosion & Tribological Studies on Electrodeposited Cobalt based Coatings reinforced with Carbon Nano tubes	N.I.T. Tiruchirappalli
3	Mr. M.Kumarasamy	Prof. S.Natarajan	Evaluation & prevention of Erosion & Corrosion in pumps under Mining Environment	N.I.T. Tiruchirappalli
4	Mr.S.Manivannan	Dr.S.P.Kumaresh Babu & Dr.S.Sundarrajan	Studies on Microstructure, Mechanical and Corrosion properties of cast Mg-6Al-Zn alloy by Calcium, cerium and Yttrium additions	N.I.T. Tiruchirappalli
M.S.				Г
1	Mr.Vallimanalan	Dr.S.P.Kumaresh babu	Studies on the effect of Basalt addition to Nickel based Thermal spray	N.I.T. Tiruchirappalli

			coatings on Fe410grade	
			Steels	
2	Mr.RoshanJacob	Dr.S.P.Kumaresh	Synthesis & Characterization	N.I.T.
		babu	of twin arc sprayed Duplex	Tiruchirappalli
			Stain less steel over different	
			Steels	

9. Details of Book any authored by faculty.

Contributed a chapter on Equal Channel Angular Pressing (ECAP) to the "Handbook of Mechanical Nanostructuring" Edited by Mahmood Aliofkhazraei, Wiley-VCH Verlag GmbH & Co, Germany PP 277- 296, 2015

Patent number :		
- *************************************		
Date of patent filing	:	
Title of the Innovation	•	
Inventors of Patent	:	

11. Other Important Points

11.1) Honors

Dr.K.Sivaprasad

- 1. Review Panel Member, National Science Center (Narodowe Centrum Nauki NCN), Krakow, Poland. (http://www.ncn.gov.pl), since 2015.
- 2. Session Coordinator, Forming and Casting, NMD-ATM 2015, Coimbatore
- 3. Member, Technical Programme Committee, The 2nd International Conference on Advance Materials Research and Applications (AMRA2015), December 18-21, 2015, Shenzhen, China
- 4. Member, Publications Committee, The Indian Institute of Metals, Kolkata 2015 onwards
- 5. Member, Board of Studies (BoS), Jawaharlal Nehru Technical University (JNTU), Kakinada, Andhra Pradesh, since 2016
- 6. Member, Board of Studies (BoS), College of Engineering, Andhra University, Visakhapatnam, Andhra Pradesh, since 2015
- 7. Session Chair, "Metal Matrix Composite Materials", International Conference on Advanced Materials, Manufacturing and Applications (AMMA2015), 9—11 April, 2015, Dept of Metallurgical & Materials Engg., NIT Trichy, India

11.2) Interaction with Industry:

Dr.S.Raman Sankara Narayanan

a. Continued the interaction with CSIR – CECRI, in the context of electro pyro metallurgy, working on rare earths

- b. Having interaction with CSIR NAL, in the context of a PhD (external) work on advanced composite materials
- c. Having interaction with Tata Steel, Jamshedpur, in the context of M.Tech work in the area of process metallurgy

11.3) DAA-Distinguished Alumni Award:

Dr.T.SrinivasaRao, Director, NIT Warangal, Andhra Pradesh, India

11.4) DYA:Distinguished Young Alumini Award:

Mr.Ram Prabu, CSIR laboratory, India

12. Summary

S.No	Details		1	Total nos	
1.	International Journals	50			
2.	National journals	-			
3.	International conference publications	07			
4.	National conference publications	08			
5.	Sponsored Project	No's:	4	Amount:	Rs.116.43Lakhs
6.	No of PhD/MS produced	PhD – 4 /MS -2			
7.	No of Patents obtained				
8.	No of books published				

DEPARTMENT: PHYSICS

5. Notable Achievements:

a. Faculty Member

S.No	Name	Details of prizes/Awards	Organization
1.	Dr.A. Chandrabose	Fellow Academy of Science,	Tamil Nadu
		Chennai -2015	Academy of Sciences

b. Students

S.No	Name	Details of prizes/Awards	Organization
1.	Radhalayam	Best Poster Award	International Conference on
	Dhanalakshmi		Science, Technology and
			Applications of Rare earths
			(STAR 2015), 23-25 April 2015,
			Trivandrum
2.	Radhalayam	Best Poster Award	4 th International Conference on
	Dhanalakshmi		Nanoscience and Technology
			(COCHIN NANO-2016), 20-23
			February 2016, CUSAT
			Cochin, Kerala, India
3.	Rashid T P	Best Oral Presentation	UGC – DAE Consortium for
			Scientific (CSR) Indore

6. Conference

a. Organized

International: Nil National: Nil

b. Papers presented by the Faculty/Students **International Conference:**

Sl.N	Author (s)	Details
0		
1.	Bhuvaneshwari.S and	Room Temperature Ammonia and VOC
	N.Gopalakrishnan.	Sensing Properties of CuONanorods. 60 th
	_	DAE-SSPS 2016, Noida, UP, India
2.	S. Thirunavukkarasu, B.P.C.	Parametric Sizing of Tube Wall Thickness
	Rao, Manu Joseph,	from Multi-Frequency Remote Field Eddy
	N.Gopalakrishnan,	Current Signals. The 20th International
	C.K. Mukhopadhyay and	Workshop on Electromagnetic
	T.Jayakumar	NonDestructive Evaluation
		(ENDE2015).Sept.21-23, Sendai, Japan.

3.	Selvalakshmi T, S.Sellaiyan, A. Uedono and A. Chandra Bose	Photoluminescence and positron lifetime study on Gd ₂ O ₃ :Eu ³⁺ (ICLA-2015),
4.	Dhanabal R ,Velmathi S and Chandra Bose A	Bangalore Synthesis, Characterization and Photocatalytic activity of g ₃ PO ₄ .ICRAMCS-2015,GRI-DU, Gandhigram.
5.	Juliet Christina mary A and Chandra Bose A	Electrochemical Performance of ZnCo ₂ O ₄ anode material in the Na ₂ SO ₄ electrolyte medium, ICRAMCS-2015, GRI-DU, Gandhigram
6.	S.Divya , J.Hemalatha	Preparation and Characterisation of PVP-PVA –ZnO Blend Polymer Nano Composite Films, DAE 2015, Amity University, Noida, December 21-25 2015
7.	Anu.K , J.Hemalatha	Viscosity Studies of Water based Magnetite nanofluids, DAE 2015, Amity University, Noida, December 21-25 2015
8.	P.Durgaprasad , J.Hemalatha	Synthesis and Characterisation of PVDF polymer fibres, Cochin Nano 2016, CUSAT, Cochin, February 20-23 2016
9.	X.Helen flora, Hasina, J.Hemalatha	Synthesis and characterization of PMMA ZrO ₂ polymer nanocomposite films for optical applications, Cochin Nano 2016, CUSAT, Cochin, February 20-23 2016
10.	14. T. Srinivasa Reddy and M.C. Santhosh Kumar	Effect of Substrate temperature on the properties of co- evaporated Cu2SnS3 thin film, 10th Mid-Year CRSI Symposium in Chemistry, 23-25 July 2015, NIT, Trichy
11.	15. Saheer Cheemadan, M.C. Santhosh Kumar	16. The Effect Substrate Temperature on the properties of CdO Thin Film by RF Magnetron Sputtering, 10th Mid-Year CRSI Symposium in Chemistry, 23-25 July 2015, NIT, Trichy
12.	Edwin Jose, T. Srinivasa Reddy and M.C. Santhosh Kumar	Deposition of Cu-Zn-S thin films by SILAR technique for photovoltaic applications, 10th Mid-Year CRSI Symposium in Chemistry, 23-25 July 2015, NIT, Trichy
13.	R. Amiruddin, SaheerChemadan, M.C. Santhosh Kumar	Fabrication and characterization of p- ZnO:(P,N)/n-ZnO:Alhomojunction Ultra- Violet (UV) Light Emitting Diodes, SPIE NanoScience + Engineering, 9-13, August, Sandiago, California, USA
14.	17. Saheer Chemadan, R. Amiruddin, M.C. Santhosh	18. Realization of highly transparent conducting CdO thin films by R.F.

	Kumar	Magnetronsputtering for optoelectronic applications, SPIENanoScience Engineering, 9-13, August, Sandiago, California, USA
15.	Edwin Jose, T. Srinivasa Reddy and M.C. Santhosh Kumar	Investigation on structural, morphological, optcal and electrical properties of SILAR deposited CuZnS Nanostructured thin films, 4 th International Conference on Frontiers in Nanoscience and Technology, Cochin nano-2016, 20-23 February 2016
16.	19. R. Amiruddin and M.C. Santhosh Kumar	20. Facile synthesis of free standing and conducting Al:ZnO Nanowires with visible luminescence characteristics, 4 th International Conference on Frontiers in Nanoscience and Technology, Cochin nano-2016, 20-23 February 2016.
17.	Neena Prasad, Hariharan S., B. Karthikeyan 21.	Optical and vibrational study of PVA/ZnS composite films, COCHIN NANO Conference 2016, Feb 20-23
18.	Anoop Sunny, Neena Prasad, Hariharan S., B. Karthikeyan 22.	Synthesis and characterization of Hematite nanoparticles for fiber optic gas sensing applications, COCHIN NANO Conference 2016, Feb 20-23
19.	Radhalayam Dhanalakshmi,M.Muneeswaran, Pradeep Reddy Vanga, M. Ashok, N.V. Giridharan	Photocatalytic activity of La modified BiFeO ₃ nanoparticles & effect of La on photocatalysis International Conference on Science, Technology and Applications of Rare earths(STAR 2015), 23-25 April 2015, Trivandrum
20.	MuneeswaranMuniyandi and N. V. Giridharan	Structural and Magnetic properties of Rare- earth modified BFO multiferroic materials. 8th IEEE Magnetics Society Summer School, University of Minnesota, Minneapolis, USA on June 14-19, 2015.
21.	RadhalayamDhanalakshmi, N.V. Giridharan	Enhanced Visible Light Photocatalytic Activity Of Nd Modified BiFeO ₃ Nanoparticles For Phenol Red Degradation 4 th International Conference on Nanoscience and Technology (COCHIN NANO-2016), 20-23 February 2016, CUSAT Cochin, Kerala, India
22.	K. Prakash and R. Justin Joseyphus	Interparticle interaction effects in ordered Co-Pt nanoparticles, Cochin Nano 2016, Feb 20- 23, 2016, CUSAT, Cochin

23.	R. Nagalakshmi, Rashid T P	Presented a paper in the International
	Nallamuthu S, Arun K	Conference on ACCGE-20 held in Big Sky,
	Marian Reiffers, Ivan Curlik	Montana, USA during 2-7, August 2015
	Sergej Ilkovic, Sekar M	
24.	Sudharsana N,Srinivasan P	Presented a poster in the International
	Nagalakshmi R	Conference on ACCGE-20 held in Big Sky,
		Montana, USA during 2-7, August 2015
25.	L.R. Shobin, M.Nivedha and S.	Poster presentation entitled "Fabrication of
	Manivannan	Silver nanowire transparent conducting
		electrodes by spin coating for
		optoelectronics", "International Conference
		on Frontiers in Nanoscience &
		Nanotechnology", February 26 - 28, 2016,
		SASTRA University, Thanjavur, Tamil
		Nadu, India.
26.	T.Kavinkumar and	Oral presentation on "Dielectric and
	S.Manivannan	ammonia vapor sensing properties of
		partially reduced graphene oxide-multiwall
		carbon nanotube composite", "International
		Conference on Recent Advances in Material
		and chemical Sciences", December 14-15,
		2015, Gandhigram Rural Institute,
27	77.74 11:1: 1.0.74 :	Gandhigram , Tamil Nadu, India.
27.	V.Mydhili and S.Manivannan	Poster presentation entitled "Dielectric and
		Optical studies on Poly(vinyl alcohol)/
		Poly(3,4-ethylenedioxythiophene) doped
		with Poly(styrenesulfonate) transparent
		freestanding films, ", "International Conference on Recent Advances in Material
		and chemical Sciences", December 14-15,
		2015, Gandhigram Rural Institute,
		Gandhigram , Tamil Nadu, India.
28.	N.Ambikeswari and	Poster presentation entitled "Rapid synthesis
20.	S.Maniyannan	of reduced graphene oxide-cobalt hydroxide
	S	composites and their dielectric properties",
		"International Conference on Recent
		Advances in Material and chemical
		Sciences", December 14-15, 2015,
		Gandhigram Rural Institute, Gandhigram,
		Tamil Nadu, India.
		- milli 1 1000, 111010.

National Conference

Sl.No	Author (s)	Details
1.	Prahant singh, Kalayanvalli V and	Modeling of Infrared
	D.Sastikumar.	Thermography for delamination
		detection in basalt reinforced
		composite materials.Proceedings
		of NDE Conference 2015,
		Hyderabad. Page 69.
2.	Azad Chandera Shekar,	Thermal characterization of basal
	Kalayanavalli, V, Giridhiaran, N.V	fiber composite using pulse
	and D.Sastikumar	Thermography. Proceedings of
		NDE Conference 2015,
		Hyderabad. Page 69.
3.	Abishek Priyadarshi, Kalayanvalli V	To study and evaluate adhesive
	and D.Sastikumar.	bonding in composite materials by
		Pulse Thermography NDT
		Techniques. Proceedings of NDE
		Conference 2015, Hyderabad.
		Page 69.
4.	A.Acharya, M.Ashok and	Study of defects in friction stir
	N.Gopalakrishnan	welded dissimilar Aluminium
		sample by using ultrasonic C scan.
		National seminar and
		International exhibition on NDE-
		2015, 26-28 Nov.2015,
		Hyderabad.
5.	A.K.Tiwari, M.Ashok and	Defect detection and
	N.Gopalakrishnan	Quantification with Advanced
		Ultrasonics.National seminar and
		International exhibition on NDE-
		2015, 26-28 Nov.2015,
		Hyderabad.
6.	Manu Joseph, S.Thirunavukkarasu	Multi frequency approach for
	and N.Gopalakrishnan.	accurate thickness measurement of
	-	steam generator tubes at grooves
		using remote field eddy current
		techniques.National seminar and
		International exhibition on NDE-
		2015, 26-28 Nov.2015,
		Hyderabad.
7.	Selvalakshi T and Chandra Bose A	Photoluminescence and Energy
		Transfer Process in Gd ₂ O ₃ :Eu ³⁺ ,
		Tb ³⁺ ,60th DAE SSPS, Amity

		University Noida
8.	Muhammed Shafi P and Chandra Bose A	Structure evolution of tetragonal MnO ₂ and its electrochemical behavior, 60th DAE SSPS, Amity University Noida
9.	Chidambararaj A and Chandra Bose A	Synthesis and characterization of MoO ₃ nanocrystals: A new finding on visible light driven photocatalysis, 60th DAE SSPS, Amity University Noida
10.	23. Sandeep Kumar, M.C Santhosh Kumar	24. Automatic Detection of Defects And Pattern Recognition In TOFD Signal/Image of A Thin Weldment, National seminar and International exhibition on Non-Destructive Evaluation, NDE-2015, Hyderabad during 26-28 November 2015
11.	RupamBaruah, M.C Santhosh Kumar	Automatic Detection And Characterization Of Defects In Radiographic Images Using Artificial Neural Network, National seminar and International exhibition on Non-Destructive Evaluation, NDE-2015, Hyderabad during 26-28 November 2015
12.	V.M.M.Saipavitra, S.Arunkumar, Neena Prasad, S.Hariharan, B.Kathikeyan	Synthesis and Characterization of ZnO:Cu ²⁺ National Conference on Advanced Functional Materials (NCAFM), 8th and 9th May 2015
13.	R. Nagalakshmi Rashid T P, Nallamuthu S Arun K, Marian Reiffers Ivan Curlik Sergej Ilkovic Sekar M	Presented an oral paper in the UGC sponsored two days national eminar held in Department of Physics, St. John's College, Anchal, Kollam, Kerala during October 15-16, 2015
14.	R. Nagalakshmi, Rashid T P Nallamuthu S, Arun K Marian Reiffers,Ivan Curlik Sergej Ilkovic	Presented an oral paper in the CRS Users Research Scholars Workshop, Indore on 18th and 19th December 2015
15.	Azad Chandrashekhar, Kalyanavalli.V, Giridharan N.V. and Sastikumar	Thermal Characterisation of Basalt fiber composite using pulse Thermography, NDE-2015, 25th

		National Seminar & International Exhibition on "NDE" -
		2015, Hyderabad, November 26 to
		28, 2015
16.	RadhalayamDhanalakshmi,M.Mune	Effect Of Synthesis Conditions on
	eswaran, and N.V.Giridharan	The Photocatalytic Property Of
		Multiferroic BiFeO3 Towards The
		Degradation Of Phenol Red, 60 th
		DAE-Solid State Physics
		Symposium(DAE-SSPS 2015),
		Amity University, Noida, Uttar
		Pradesh, December 21-25, 2015.

7. Workshops/Seminars

3.1 Organized

S.No	Coordinator	Title	Period
1.	Dr. A. Chandrabose	INPHYNIT-T'16	23 rd February, 2016

3.2 Attended

Sl.No.	Faculty	Details	
1.	Dr. D. SastiKumar	Administrative Vigilance (investigation,	
		Inquiry, and Case Law) including prevention	
		of sexual harassment of women at workplace,	
		organized at Manali, 18-21, March 2015,	
		conducted by Society for Economic Research	
		& Training, New Delhi.	
2.	Dr. N. Gopalakrishnan	National seminar and International exhibition	
		on NDE-2015, 26-28 Nov.2015, Hyderabad.	
3.	Dr. A. Chandrabose	25 th National seminar and International	
		Exhibition on Non-destructive Evaluation –	
		2015, Hyderabad, November, 26 -28, 2015	
4.	Dr. J. Hemalatha	Training on advanced modes of Atomic	
		Force Microscope in Parks Systems, South	
		Korea	
5.	Dr. M. Ashok	25 th National Seminar and Exhibition on	
		Nondestructive evaluation 2015, 26 th	
		November to 28 th November 2015,	
		Hyderabad	
6.	Dr. M.C. Santhosh Kumar	4 th International Conference on Frontiers in	
		Nanoscience and Technology, Cochin nano-	
		2016, 20-23 February 2016.	
7.	Dr. M.C. Santhosh Kumar	Short Term Training Programme on Recent	

Advances in Applied Physics, School of
Engineering, CUSAT, Kochi, Kerala, from
11 th to 15 th January 2016.

3.3 Attended Student

Sl.No.	Students	Details
1.	P. Durga Prasad	English for writing Ph.D thesis &
		Journal papers, Dept. of Humanities &
		Computer applications, NIT Trichy,
		January 20-22 2016.
2.	Pradeep	3rd INUP Familiarization Workshop,
		May 27-29, 2015 - IIT Bombay
3.	Hijas	Attended National seminar on
		advances in photonics, department of
		optoelectronics, kerala university.
		December 9-11, 2015
4.	Hijas	Attended IEEE workshop on recent
		advances in photonics, IISc
		Bangalore, December 16-17,2015

8. Invited/Guest Lectures delivered by the faculty

Sl.No	Faculty	Topic	Programme	Place&Date
1.	Dr. D. SastiKumar	Lasers and	Innovative trends	Shunmuaga
		Applications	in Physics	Industries Arts
				and Science
				College,
				Tiruvannamalai.1
				0. 03.2016.
2.	Dr. N.	Nanostructures	Physics	Holy Cross
	Gopalakrishnan	for Gas sensing	Association	college,Trichy.
				Jan.2016
3.	Dr. A. Chandrabose	Nanomaterials:	TEQIP-II	Department of
		Synthesis,	sponsored Faculty	Physics, Anna
		characterization	Development	University,
		and applications	Programme on	Trichy, July 27,
			Advanced	2015
			Research in	
			Materials for	
			Engineering and	
			Technological	
			Applications	

			(ARMETA-2015)	
4.	Dr. A. Chandrabose	Nanomaterials: Synthesis, characterization and applications	UGC Sponsored National Conference on "Thinflims and Nanotechnology	ANJA College Sivakasi, February 26, 2016.
5.	Dr. B. Karthikeyan	An Introduction to MEMS	Advanced Research in Materials for Engineering and Technological Applications	Anna University Bharathidasan Institute of Technology, Tiruchirappalli 17 th to 30 th July 2015,
6.	R. Sankaranarayanan	Polarization and Maxwell	Refresher course in Physics for college and university teachers,	Bharathidasan University, Trichy 22.02.2016
7.	Dr. J. Hemalatha	The Amazing World of Nanotechnology	Invited Lecture	Vanniaperumal College for Women (Autonomous), Virudhunagar, 19.9.2015
8.	Dr. J. Hemalatha	High performance Magnetic nanostructures	Invited Lecture	Ajou University, Suwon South Korea, 26-11- 2015
9.	Dr. J. Hemalatha	Recent Trends in Applied Physics	Short term training programme on Recent trends in Applied Physics	CUSAT, Cochin, 11.01.2016
10.	Dr.M.Ashok	Ion Beam Analysis	Two day FDP on ARMETA-2015 17-30 th July 2015	Anna Univeristy, Trichy 29-07-2015
11.	Dr.M.Ashok	Ultrasonic	Invited talk	M. Kumarasamy College of Engineering, Karur
12.	Dr. R. Nagalakshmi	Interesting Aspects of Rare Earth	Refresher Course	Bharathidasan University, Trichy on March

		Intermetallics		1 st 2016
13.	Dr. N.V. Giridharan	Multiferroics	National level workshop on functional materials	VELTECH HIGHTECH, Chennai & 24/04/2015
14.	Dr. N.V. Giridharan	Thinfilms and multiferroics	Summer research training programme-2015	Department of physics, Bishop Heber College, Trichy & 13/05/2015
15.	Dr. N.V. Giridharan	Ferroelectrics and Multiferroics	FDP on Advanced research for engineering and technological applications	Department of Physics, Bharathidasan Institute of Technology campus, Anna Univeristy, Trichy & 21/07/2015
16.	Dr. R. Justin Joseyphus	Magnetic nanoparticles	summer training programme in Physics	Bishop Heber College, Trichy during May 2015
17.	Dr. R. Justin Joseyphus	Magnetic nanoparticles and its applications	summer training programme in Physics	Academy of Sciences, Chennai, 13 June 2015.
18.	Dr. R. Justin Joseyphus	Magnetic nanoparticles and its applications	FDP programme	Anna University Trichy on 25 th July 2015.
19.	Dr. R. Justin Joseyphus	Fundamentals and applications of magnetic nanoparticles,	Physics association inauguration	Jamal Mohamed College, Tiruchirappalli on 17 th Dec 2015.
20.	Dr. R. Justin Joseyphus	magnetic nanoparticles and its applications in	TEQIP programme	School of Engineering, CUSAT, Cochin on 14 th Jan 2016
21.	Dr. M.C. Santhosh Kumar	An Introduction to MEMS	Advanced Research in Materials for Engineering and Technological Applications	Anna University Bharathidasan Institute of Technology, Tiruchirappalli 17 th to 30 th July

				2015,
				,
22.	Dr. M.C. Santhosh Kumar	Metal oxide nanostructures for optoelectronics and Mechanical	Modern trends in physics research (MTPR-2015)	St. Stephen's College Pathanapuram, Kollam, Kerala,
		applications.		6 th November 2015
23.	Dr. M.C. Santhosh Kumar	Evolution of Light Sources	TEQIP-II sponsored expert talk	College of Engineering, Adoor, Kerala, 17 th November 2015
24.	Dr. M.C. Santhosh Kumar	Metal oxide nanostructures for optoelectronic and mechanical applications	Invited talk in National Seminar	Devamatha college, Kuravilangad, Kerala
25.	Dr. M.C. Santhosh	Thin Film	FDP on Green	College of
	Kumar	nanostructures	nanotechnology	Engineering,
		and applications	in materials	Adoor, Kerala
			engineering and	19 th December
			energy	2015
26.	Dr. M.C. Santhosh	Evolution of	applications STTP on Recent	SOE, CUSAT,
20.	Kumar	Light Sources	Advances in	Kochi-22, 11 th
			Applied Physics,	January 2016
27.	Dr. M.C. Santhosh	Thin Film	STTP on Recent	SOE, CUSAT,
	Kumar	Technology and	Advances in	Kochi-22, 15 th
		its applications	Applied Physics	January 2016
28.	Dr. M.C. Santhosh	Metal oxide	National level	MA College,
	Kumar	nanostructures for	conference on	Kothamangalam,
		optoelectronics	Technologies	23 rd January 2016
		and Mechanical	Behind	
		applications.	Nanoscience:	
			Fabrication,	
			diagnostics and	
			applications	

9. Sponsored projects undertaken.

Sl. No	Coordinator	Name of the project	Sponsor	Amount (in Lakhs)
1.	Dr. M.C. Santhosh Kumar	Deposition of	DST	32.67 Lakhs
		earth abundant	CERI -	
		ternary CuZnS	2015	
		thin films and		
		Fabrication of		
		Cadmium free		
		solar cells		

10. Major equipment/software purchased (more than 5.00 lakhs): Nil

11. Research papers published in National/International Journals

a. Faculty:International Journal

S.No	Title	Author(s)	Journal	Year/vol/page
1.	Gd ₂ O ₃ :RE ³⁺ + Gd AlO ₃ :RE ³⁺ (RE=E u,Dy) Phosphor : Synthesis,Charact erization and Bio Imaging Application.	T.Selvalakshmi and A.Chandra Bose	Journal of Nanoscience and Nanotechnol ogy	2015
2.	Effect of reaction medium on porousity and electrochemical properties of MnO ₂ nanoparticl es,	P.Muhammed Shafi and A.Chandra Bose	Advanced Porous Materials	2015
3.	Investigation on photoluminescenc e, electrical and positron lifetime of Eu ₃ + activated Gd ₂ O ₃ phosphors. Visible light driven degradation of methylene blue dye using Ag ₃ PO ₄	T. Selvalakshmi, S. Selvakumar; A. Chandra Bose R. Dhanabal, A. Chithambararaj, S. Velmathi, .	Mater. Chem. Phy Journal of Environment al Chemical Engineering	2015

4.	Impact of crystalline defects and size on X-ray line broadening: A phenomenologica l approach for tetragonal SnO ₂ nanocrystal s	P. Muhammed Shafi and A. Chandra Bose	AIP Advances	5, (2015) 057137
5.	Structural evolution and phase transition of [NH ₄] ₆ Mo ₇ O ₂₄ .4 H ₂ O to 2D layered MoO ₃ .	A. Chithambararaj, D, BhagyaMathi, N,Rajeswari Yogam alar A. Chandra Bose	Mater. Res. Express	2 2015
6.	Influence of Al ³⁺ on the cross relaxation process and electrical properties of Dy ³⁺ activated Gd ₂ O ₃ phosphor for white LED application,	T. Selvalakshmi, A. Chandra Bose, and S.Velmathi.	Ceramics International	41 (7) 2015, 8801- 8808
7.	Quantum confined CdS inclusion in graphene oxide for improved electrical conductivity and facile charge transfer in hetero- junction solar cell,	Rajeswai Yogamalar ,R. Jayavel, A. Chandra Bose	RSC Adv.	2015, 5, 16856– 16869
8.	Effect of Eu ³⁺ and Al ³⁺ concentrations on photoluminescence of Gd ₂ O ₃ :Eu ³⁺	T.Selvalakshmi, A. Chandra Bose, and S.Velmathi	Journal of Nanoscien ce and Nanotechnol ogy	15 (8) (2015) 5760- 5767.

9.	Band gap tuning of h- MoO ₃ nanocrystal s for efficient visible light photocatalytic activity against MB dye	A. Chithambararaj, B. Winston, N. S. Sanjini, S. Velmathi and A. Chandra Bose	Journal of Nanoscience and Nanotechnol ogy	15(7), (2015) 4913-4919.
10.	Density Functional Study of Structural Distortion in Doped LuMnO ₃ .	BaskaranNatesan	The Journal of Physical Chemistry B	2016 (in press)
11.	Stabilization of E- type antiferromagnetic ordering in La and Y substituted orthorhombic LuMnO ₃ : A First Principle study.	Baskaran Natesan	Physics Letters A	2016 (in press)
12.	Structural, magnetic and photocatalytic properties of La and alkaline co- doped BiFeO ₃ nanoparticles.	Reddy Vanga, P., R.V. Mangalaraja and M. Ashok	Material Science in Semicoducto r Processing	2015/40/796-802
13.	Effect of (Nd, Ni) co-doped on the multiferroic and photocatalytic properties of BiFeO ₃ .	Vanga, P.R., R.V. Mangalaraja and M. Ashok	Materials Research. Bulletin	2015/72/ 299-305
14.	Effect of co- doping on the optical, magnetic and photocatalytic properties of the Gd modified	Vanga, P.R., R.V. Mangalaraja and M. Ashok	Journal of Material Science: Materials in electronics	2016/ DOI10.1007/s10854- 016-4481-x

	BiFeO ₃ .			
15.	Enhanced photocatalytic activity of hydrothermally grown BiFeO ₃ nanostructures and role of catalyst recyclability in photocatalysis based on magnetic framework.	Dhanalakshmi, R., M. Muneeswaran, P. R. Vanga, M. Ashok and N.V. Giridharan	Applied Physics A	2015/122, 1-14
16.	Investigation on P-N dual acceptor doped p-type ZnO thin films and subsequent growth of pencil- like nanowires	R. Amiruddin, SebinDevasia, K. Mohammedali, M. C. Santhosh Kumar	Semicond. Sci. Technol	(2015) 30, 035009
17.	Welding fumes reduction by coating of nano-TiO ₂ on electrodes,	Sreejith Mohan, S.P. Sivapirakasam, M.C. Santhosh Kumar, M. Surianarayanan	Journal of Materials Processing Technology	2015, 219, 237
18.	Application of Taguchi Method in the Optimization of Process Sreejith Mohan, S.P. Sivapirakasam,	Sreejith Mohan, S.P. Sivapirakasam, M.C. Santhosh Kumar, M. urianarayanan,	Journal of Materials: Design and Applications	2015
19.	Growth and characterization of near white light emitting Al-Ga:ZnOnanowire s	R. Amiruddin, M.C. Santhosh Kumar,	Mater. Res. Express	2015,2,075004
20.	Deposition and Characterization	T. Srinivasa Reddy, R. Amiruddin, M.C.	Solar Energy Materials and	2015,143,128

	of Co. Co.C. This	Conthool IZ	a a l a a - 11 -	
	of Cu ₂ SnS ₃ Thin	Santhosh Kumar	solar cells,	
	Films by Co-			
	evapoartion for			
	photovoltaic			
	application,			
21.	Effect of Post-	R. Swapna, T.	Procedia	2015, 10, 723
	Annealing on the	Srinivasa Reddy,	Materials	
	Properties of Eu	K.Venkateswaralau,	Science	
	Doped ZnO Nano	M. C. Santhosh		
	Thin Films, ,	Kumar		
22.	Heat Treatment	R. Swapna, K.	Procedia	2015,10, 714
	Impact on the	Venkateswaralau,	Materials	
	Properties of Na	M. C. Santhosh	Science	
	and N Dual	Kumar	2	
	Doped ZnO Thin			
	Flms by Spray			
	Pyrolysis,			
23.	Welding Fume	Sreejith Mohan, S.P.	Journal of	2015,108,131
23.	Reduction by	Sivapirakasam, M.C.	Cleaner	2013,100,131
	Nano-Alumina	Santhosh Kumar, M.	Production	
		· ·	Troduction	
	Coating on Electrodes –	Surianarayanan,		
	Towards Green			
24	Welding Process,	C C C-::41- IZ	E	2017 70 225
24.	Effect of	C.S. Sujith Kumar,	Experimental	2016,70,325
	surfactant	S. Suresh, A.S.	Thermal and	
	addition on	Praveen, M.C.	Fluid	
	hydrophilicity of	Santhosh Kumar,	Science,	
	ZnO-Al ₂ O ₃	VishakhGopi,		
	composite and			
	enhancement of			
	flow boiling heat			
	transfer,			
25.	Highly	SaheerCheemadan,	Journal of	2016, in press
	transparent	R. Amiruddin, M.C.	Nanophotoni	
	conducting CdO	Santhosh Kumar,	cs	
	thin films by R.F.			
	Magnetron			
	sputtering for			
	Optoelectronic			
	applications,			
26.	Wet chemical	B.Karthikeyan,	CrystEngCo	2016, 18 , 601 - 607
	synthesis of	T. Pandiyarajan,	mm	
	diameter tuned	S.	111111	
	diameter tulled	ນ.		

27	NiOmicrorods: microstructural, optical and opticalpower limiting applications Enhanced blue	HariharanMuhamed ShafiOllakkan	Control	DOL
27.	light emission in transparent ZnO:PVAnanoco mposite freestanding polymer films	B. Karthikeyan, T. Pandiyarajan, R.V. Mangalaraja	Spectrochimi caActa Part A: Molecular and Biomolecular Spectroscopy	DOI: 2016/ <u>152</u> /485–490
28.	Prussian blue modified FePt nanoparticles for the electrochemical reduction of H ₂ O ₂	T Arun and R Justin Joseyphus	Ionics	(2015) 1-7.
29.	Magnetic properties of interacting CoPt nanoparticles prepared through polyol process	K. Prakash and R. Justin Joseyphus	Mater. Chem. Phys.	154 (2015) 53.
30.	Effect of samarium doping on the structural, optical and magnetic properties of sol– gel processed BiFeO3 thin films	C. Anthony Raj, M. Muneeswaran, S. Gokul Raj, N. V. Giridharan V. Sivakumar, G. Senguttuvan	Journal of Materials Science: Materials in Electronics	26, 49–58 (2015)
31.	Enhanced piezoelectric constant and remnant polarisation in Kcompensated sodium potassium	M VeeraGajendraBabu, SM Abdul Kader, M Muneeswaran, NV Giridharan, D PathinettamPadiyan, B Sundarakannan.	Materials Letters	146, 81-83 (2015)

	bismuth titanate			
32.	Structural, vibrational, electrical and magnetic properties of Bi ₁₋ _x Pr _x FeO ₃	M. Muneeswaran, RadhalayamDhanala kshmi and N. V. Giridharan	Ceramics International.	41, 8511-8519 (2015)
33.	Effect of Tb substitution on Structural, optical, electrical and magnetic properties of BiFeO3.	M. Muneeswaran, RadhalayamDhanala kshmi and N. V. Giridharan	Journal of Materials Science: Materials in Electronics	26, 3827-3839 (2015)
34.	Substitutional effect of Bismuth ferrite on the electrical properties of sodium bismuth titanate ceramics	D. E. Jain Ruth, S.M. Abdul Kader, M. Muneeswaran, N.V. Giridharan D. PathinettamPadiyan and B. Sundarakannan	Journal of Materials Science: Materials in Electronics	27(1), 407-413(2016)
35.	Structural and electrical properties of (1-x)(Na _{0.5} Bi _{0.5})TiO ₃ -xBi (Mg _{0.5} Zr _{0.5})O ₃ lead-free piezoelectric ceramics	D. E. Jain Ruth, S.M. Abdul Kader, M. Muneeswaran, N.V. Giridharan D. PathinettamPadiyan and B. Sundarakannan	Ceramic International	42, 3330-3337 (2016)
36.	Enhanced photocatalytic activity of La- substituted BiFeO3 nanostructures on the degradation of phenol red	RadhalayamDhanala kshmi, M. Muneeswaran, K. Shalini and N. V. Giridharan	Materials letters	165, 205-209 (2016)
37.	Enhanced photocatalytic activity of hydrothermally grown BiFeO3 nanostructures	RadhalayamDhanala kshmi, M. Muneeswaran, P. Reddy, Ashok and N. V. Giridharan	Applied Physics A	122(1), 1-14 (2016)

38.	and role of catalyst recyclability in photocatalysis based on magnetic frame work Photocatalytic activity of BiFeO3 nanoparticles synthesized through Hydrothermal method	RadhalayamDhanala kshmi, M. Muneeswaran, Pradeep Reddy Vanga, M. Ashok, and N.V. Giridharan	American Institute of Physics Conference Series	1665, 130014 (2015)
39.	Structural, electrical and magnetic properties of multiferroic Bi ₁ - _x Gd _x FeO ₃ (x = 0.00 and 0.15)	R. Rathnaprabha, M. Muneeswaran, R.Dhanalaksmi, N.V. Giridharan	American Institute of Physics Conference Series	1665, 140036 (2015)

7.2 Students

International Journal

S.No	Title	Author(s)	Journal	Year/vol/page
1.	Enhanced fluorescence, Raman scattering and higher order Raman modes in	R.Udayabhaskar, R. V. Mangalaraja, B. Karthikeyan	Plasmonics	DOI 10.1007/s11468- 015-9877-6
2.	ZnO:Agnanoro ds Synthesis, characterization and gas sensing properties of graphene oxide- multi walled carbon	Kavinkumar T and S.Manivannan	Journal of Materials Science and Technology	In Press

	nanotube			
	composite"		1	2012112
3.	"Uniform decoration of silver nanoparticle on exfoliated graphene oxide sheets and its ammonia gas detection"	T. Kavinkumar and S. Manivannan	Ceramics International	2016/42/1769-1776
4.	"Optically Transparent, Electrically Conducting Single Walled Carbon anotubes Random Networks for Room Temperature Ammonia Vapor Sensing."	L.R.Shobin, and S. Manivannan	Materials Science in Semiconduct or Processing	2015/40/931-938
5.	"Carbon nanotubes on paper: Flexible and Disposable Chemiresistors"	L.R.Shobin, and S. Manivannan	Sensors and Actuators B: Chemical	2015/220/1178– 1185
6.	"Effect of functional groups on dielectric, optical gas sensing properties of graphene oxide	T. Kavinkumar, D. Sastikumar and S. Manivannan		2015/5/10816-25

	and reduced graphene oxide at room temperature"			
7.	Enhanced multi-phonon Raman scattering andnonlinear optical power limiting in ZnO:Au nanostr uctures	R. Udayabhaskar, B. Karthikeyan, P. Sreekanth, Reji Philip	RSC Advances	RSC Adv., 2015, 5, 13590–13597
8.	Enhanced fluorescence and local vibrational mode in near-white light emitting ZnO:Mgnanoro ds system	R. Udayabhaskar, B. Karthikeyan	Journal American Ceramic Society	DOI: 10.1111/jace.13516
9.	Enhanced ultraviolet fluorescence in surface modified ZnO nanostructures: Effect of PANI	T. Pandiyarajan, R. V. Mangalaraja, B. Karthikeyan	Spectrochimi caActa Part A: Molecular and Biomolecular Spectroscopy	DOI 10.1016/j.saa.2015.0 2.088
10.	UV-A light induced photodegradatio n of Acid Blue 113 in the presence of Sm doped ZnO nanostructures	T. Pandiyarajan, R. V. Mangalaraja, B. Karthikeyan	Applied Physics A	DOI 10.1007/s00339- 015-9102-7
11.	Colloidal	R. Udayabhaskar, B.	Journal	DOI:

	synthesis and electrical behaviour of n- ZnGdO/p-Si heterojunction diodes	Karthikeyan	American Ceramic Society	10.1111/jace.13516
12.	Morphology controlled synthesis of Sm doped ZnO nanostructures for photodegradatio n studies of Acid Blue 113 under UV-A light	T. Pandiyarajan, R. V. Mangalaraja, B. Karthikeyan	Spectrochimi caActa Part A: Molecular and Biomolecular Spectroscopy	DOI 10.1016/j.saa.2015.0 2.088
13.	Single-step, size-controlled synthesis of colloidal silver nanoparticles stabilized by octadecylamin	Gururaj M. NeelgundB.Karthikeya n, S.A.ShivashankarAder emi Oki	Applied Surface Science	DOI: 10.1016/j.apsusc.20 15.07.209
14.	Microstructure, vibrational and visible emission properties of low frequency ultrasound (42 kHz) assisted ZnO nanostructures	ThangarajPandiyaraja n, RamalingaViswanatha nMangalaraja, Balasubramanian Karthikeyan, Selene Sepulveda-Guzman, Hector D. Mansilla, David Contreras,NestorEscal ona, M.A. Gracia- Pinilla	RSC Advances	DOI: 10.1039/C5RA2714 7A
15.	Surfactant assisted control on optical, fluorescence and phonon lifetime in	S. Hariharan, R. Udayabaskar, T.R. Ravindran, B. Karthikeyan	Spectrochimi caActa Part A: Molecular and Biomolecular Spectroscopy	Just accepted 2016

<alpha>-Bi2O3</alpha>		
micro rods.		

8. Ph.D Awarded

S.No	Name of the research scholar	Guide/Supervisor	Institute
1.	Dr.A. Chitambararajan	Dr. A. Chandrabose	NIT Trichy
2.	Dr.A. Udayabaskar Ratnam	Dr. B. Karthikeyan	NIT Trichy
3.	Dr. M. Muneeswaran	Dr. N.V. Giridharan	NIT Trichy
4.	Dr. K. Prakash	Dr. R. Justin Joseyphus	NIT Trichy
5.	Dr. T. Arun	Dr. R. Justin Joseyphus	NIT Trichy
6.	Dr. L.R. Shobin	Dr. N. Manivannan	NIT Trichy

9. Details of books authored by faculty: Nil

10. Patents if any obtained by faculty: Nil

11. Other important Points: Nil

12. Summary

S.No	Details	Total Nos			
1.	International Journals	54			
2.	National Journals	NIL			
3.	International conference publications	28			
4.	National conference publications	16			
5.	Sponsored projects	Nos:	1	Amount:	32.64 lakhs
6.	No of Ph.D produced	6			
7.	No of patents obtained	NIL			
8.	No of books published	NIL			

DEPARTMENT : **PRODUCTION ENGINEERING**

1. Notable Achievements

1.1 Faculty Members

S.No	Name	Details of Prizes / Awards	Organization
1	Dr.P.Sathiya	Certificate of Reviewer Contribution - December 2015	International Journal of Precision Engineering and Manufacturing

1.2 Students

S.No	Name	Details of Prizes / Awards	Organization
1	Sai Arvind, Karthik Sundaram & SP Kannan	Wise scholarship	DAAD
2	Rinitha, Ashish Krishna & Sabari Natarajan	Mitac scholarship	MITACS
3	Rinitha	Basketball team member/ Winners/ Inter NIT Sports meet	NIT-Surat
4	Hardik Dubal	Desmod/ 3 rd place/ SHASTRA' 15	IIT-Madras
5	Mariah F	Team member/1 st place/ kho-kho(Gold medal)/ UDGOSH' 15	IIT-Kanpur
6	Varun Vimal	Team member/Football/ 3 rd / Sports fete	NIT-Trichy
7	Hafeez P.	Weightlifting/ 1st place/Sports Fete	NIT-Trichy
8	Hari Anand	Volleyball Team member /3 rd place/ Inter-NIT	NIT-Surat

2. Conference2.1 OrganisedInternational: Nil

National: Nil

2.2 Papers presented by the Faculty / Students

International

Author (s)	Details	
Muthukannan Duraiselvam et al.	"Mechanical and metallurgical characterization of laser metal deposited aero-engine blade materials", 28 th International Conference on Surface Modification Technologies, SMT 28, 16 - 18 June 2014, Tampere University of	

	Technology, Tempere, Finland	
V.Anandakrishnan, S.Sathish, S.Baskaran, S.Ramesh Kumar, C Chellappan	"Effect of machining parameters on surface roughness in AA7075-TiB2-ZrB2 metal matrix composite" National Conference on Recent Advances in Materials and Manufacturing (RAMM'15), 19 th December 2015, PP 102- 105	
B. Singaravel & T. Selvaraj	Application of Taguchi method for the selection of optimum process parameters in turning operation", International conference on advances in production and industrial engineering (INCAPIE-2015) held on Feb 20-21 2015, at NIT Trichy, Tamilnadu, India.	
D.Lenin Singaravelu, Vijay R, Rahul Ragh M	33rd Annual SAE Brake Colloquium and Exhibition, Charleston, South Carolina, USA during Oct 4-7, 2015. Paper Title: Influence of crab shell on Tribological characterization of ecofriendly products based non-asbestos brake friction materials	
Rahul Ragh M, Vijay R, Arvind Venkatramani, D.Lenin Singaravelu	Malaysian International Tribology Conference MITC2015), held on 16-17 November 2015 at Penang, Malaysia. Paper title "Effect of lubricant and thermal resistance filler on the pressure and speed sensitivity characteristics of non-asbestos low metallic disc brake pad formulation"	
K Shunmugesh, K Panneerselvam	Grey Relational Analysis Based Optimization of Multiple Responses in Drilling of Carbon Fiber- Epoxy Composites- 5th International Conference of Materials Processing and Characterization (ICMPC 2016) on 12&13 March 2015, GRIET, Telangana	
K Shunmugesh, K Panneerselvam	Multi-Performance Optimization of Drilling Carbon Fiber Reinforced Polymer using Taguchi – Membership Function-International Conference on Civil, Mechanical and Environmental Engineering Technologies On 26 & 27 February 2016	

K Shunmugesh, K Panneerselvam	Optimization of machining process parameters in drilling of CFRP using Multi-Objective Taguchi technique, TOPSIS, RSA technique. International conference on technological advancements in materials and manufacturing for industrial environment. 4th and 5th march 2016	
K. Kamal Babu, K. Panneerselvam, P. Sathiya, A. Noorul Haq, S. Sundarrajan, Mastanaiah P, C.V. Srinivasa Murthy	Effects of mechanical, metallurgical and corrosion properties of cryorolled AA2219-T87 aluminium alloy-5th International Conference of Materials Processing and Characterization (ICMPC 2016) on 12&13 March 2015, GRIET, Telangana	
k. Panneerselvam , k. Lokesh, T N S Ramakrishna, D. Chandresh	Mechanical and tribological behaviour of glass fiber and aluminium honeycomb core reinforced with nylon 6 hybrid composite. International conference on technological advancements in materials and manufacturing for industrial environment. 4th and 5th march 2016	
Jafrey Daniel D and K. Panneerselvam	Manufacturing Issues of Polypropylene Nanocomposite by Melt Intercalation Process-5th International Conference of Materials Processing and Characterization (ICMPC 2016) on 12&13 March 2015, GRIET, Telangana	
Sudhir kumar and K. Panneerselvam	Dry Sliding Wear Characteristics of Pure and Glass Fiber Reinforced Nylon 6 against AISI D2 Steel DiscProceeding of International Conference on Advances in Materials, Manufacturing and Applications (AMMA), NIT Trichy, India, April 2015.	
Ben Ruben, S Vinodh, P. Asokan	Application of ISM for analysis of barriers in an integrated lean sustainable manufacturing environment.International Conference on Industrial Engineering, Sardar Vallabhbhai National Institute of Technology, Surat, Nov 2015.	
S.Vinodh, Vishal A Wankhede	'Multi-grade fuzzy assessment of cloud manufacturing performance', International Conference on Industrial Engineering at Sardar Vallabhbhai National Institute of Technology, Surat, November 26 - 28, ICIE 2015, pp. 534-537.	

	'Application of Interpretative Structural	
	Modelling for analysis of factors	
	influencing sustainable development of	
Manjunatheshwara, K.J., and S.Vinodh	tablet devices', International Conference on	
ivianjunameshwara, K.J., and S. vinoun	e-Business and Supply Chain	
	Competitiveness (EBSCC 2016) to be held	
	at IIT, Kharagpur, West Bengal during	
	February12-14, 2016	
P.M.Ajith, P.Sathiya, S.Aravindan and	2nd International conference on Advances	
S.Arunkumar	in cutting, welding & surfacing, held at	
S.Atulikulliai	CIT, Coimbatore, August 5-7, 2015	
	17th ISME Conference on Advances in	
Arun Kumar Srirangan, Sathiya Paulraj	Mechanical Engineering, held at IIT Delhi,	
	October 3-4, 2015	
	17th ISME Conference on Advances in	
Sridhar.SP, Arun Kumar Srirangan, P. Sathiya	Mechanical Engineering, held at IIT Delhi,	
_	October 3-4, 2015	

National

Author (s)	Details	
	Mechanical Investigation of Friction Stir	
Jafrey Daniel D and K. Panneerselvam	Welded Polymeric Nano composites Joints"	
James Damer D and K. Famicerservani	Proceedings of the 17th ISME Conference,	
	IIT Delhi, October 3-4, 2015	
	Multi Objective Optimization of	
	Tribological Property of Nylon 6	
	Composites using Hybrid Taguchi Grey	
Sudhir kumar and K. Panneerselvam	Relational Analysis and Cuckoo Search	
	Algorithm. Proceedings of the 17th ISME	
	Proceedings of the 17th ISME Conference,	
	IIT Delhi, October 3-4, 2015	

3. Workshops / Seminars

3.1 Organized

Coordinator	Title	Period
DrIng. M.Duraiselvam,	Workshop on Siemens Centre of Excellence	20^{th}
Dr. V. Anandakrishnan	in Manufacturing for South Tamil Nadu at	February
DI. V. Allandaki ishilali	NIT, Trichy	2016
Dr.D.Lenin Singaravelu and	DST-SERB Sponsored Two days National	5 th & 6 th
Dr.P.Asokan	Workshop on "Brake Friction Materials:	November
DI.F.ASOKali	Past, Present and Future"	2015
Dr.S.Vinodh and Dr.P.Senthil	Short Term Course on Responsive and	27 th & 28 th
Dr.s. v modif and Dr.F. Sendin	Sustainable Product Development Strategies	March 2015

3.2 Attended

Faculty	Details	
P. Senthil	Thermal Engineering Applications for Sustainable Improvement (TEASI) 15 th June 2015 to 28 th June 2015. Anna University, Bharathidasan Institute of Technology, Tiruchirappalli.	

Students	Details	
	Conference and Training Programme on 3D Printing	
Aashish Bohra	Organised by the National Productivity Council, Government of India at the Ambedkar Institute of Productivity, Chennai from July 20 to 24, 2015. Dr. Ian Gibson, Professor of Engineering Design, Deakin University and Dr. Y. Ravikumar, Professor of Mechanical Engineering, chaired and conducted the programme	
Vijay R	National Workshop entitled Thermal & Elemental Analysis of Solids, 21 st December 2015, organized by DEE, NIT Trichy	
Vijay R	National workshop entitled Spectroscopic Analysis of Solid and Liquid Samples on 22 nd December 2015 organized by DEE, NIT Trichy	

4. Invited / Guest Lectures Delivered by the Faculty

Faculty	Topic	Programme	Place & Date
Dr. M. Duraiselvam	Laser Induced Periodic Surface Structures	Conference on Application of Lasers in Manufacturing 2015	Pragati Maidan, New Delhi, 9 – 10 September 2015
Dr. M. Duraiselvam	Laser Surface Engineering	Laser Surface Engineering	Madurai Institute of Engineering and Technology, Sivagangai, 13.04.2015
Dr.V.Anandakrishnan	Kinematics of Machinery	Guest Lecture	M.Kumarasamy College of Engineering, Karur on 3 rd February 2015
Dr.V.Anandakrishnan	Powder Metallurgy	National Conference	Star Lion Engineering College, Thanjavur on 4 th March 2015.

Dr.V.Anandakrishnan	Lean Manufacturing	Guest Lecture	EGS Pillai Engineering College, Nagapattinam on 7 th March 2015.
Dr.V.Anandakrishnan	Balancing of Masses	Guest Lecture	Vellammal Engineering College, Chennai on 13 th March 2015.
Dr.V.Anandakrishnan	Composite Materials	One day Workshop	Kings Engineering College, Punalkulam, Thanjavur 21 st May 2015
Dr.V.Anandakrishnan	Failure mechanisms, fractography and worn surface analysis using macro/micrographs	Guest Lecture	M.Kumarasamy College of Engineering, Karur on 10 th July 2015.
Dr.V.Anandakrishnan	Dynamics of Machines	Guest Lecture	M.Kumarasamy College of Engineering, Karur on 10 th July 2015.
Dr.V.Anandakrishnan	Advances in casting	Guest Lecture	Vellammal Engineering College, Chennai on 17 th July 2015.
Dr.V.Anandakrishnan	Dynamics of Machinery	Guest Lecture	Haji Sheik Ismail Engineering College, Esanoor, Nagapattinam on 16 th September 2015
Dr.V.Anandakrishnan	Metal Matrix Composites	One day workshop	M.Kumarasamy College of Engineering, Karur- 639 113 on 10 th February 2016
Dr.V.Anandakrishnan	Recent Developments in Engineering Materials	Guest Lecture	Dhanalakshmi Srinivasan Institute of Technology, Tiruchirappalli on 11 th February 2016.
Dr.V.Anandakrishnan	Advances in manufacturing technology	Guest Lecture	Vellammal Engineering College, Chennai on 13 th February 2016.

Dr.V.Anandakrishnan	Manufacturing Technology for Mechatronics Engineers	Guest Lecture	Paavai Engineering College, Namakkal on 24 th February 2016.
Dr. D. Lenin Singaravelu	Development and Characterization of Brake Friction Materials	National Conference on "Recent Tends in Efficiency Management in Industries (RTEMI- 2K15)	Saveetha school of Engineering, Saveetha University, Chennai-602105 & April 10, 2015
Dr.D.Lenin Singaravelu	Development and Characterization of NAO and Fe Based friction pads for Braking Application	DST-SERB Sponsored Two days National Workshop on "Brake Friction Materials: Past, Present and Future"	National Institute of Technology, Trichy & November 6,2015
Dr.V.Senthilkumar	Advanced manufacturing processes	Guest lecture	MIET, Trichy 31-08-2015
Dr.V.Senthilkumar	Environment conscious manufacturing	Guest lecture	PMU, Tanjore 29-09-2015
Dr S Vinodh	Swatch Bharat and Sundar Bharat through Lean and Sustainable Manufacturing	Foundation day celebration of IIIE	BHEL,Trichy January 27, 2016
Dr S Vinodh	Agile Manufacturing	Faculty Development Programme (FDP) on Engg. Optimization techniques & modern manufacturing concepts	GCE Salem March 11, 2016
Dr.P.Sathiya	Advancement in Welding Process	National conference on metallurgy and materials application	Nadar Saraswati College of Engineering & Tech., Theni, 31/03/2016

5. Sponsored Projects undertaken.

5. Sponsored Projects undertaken.					
Co-ordinator	Name of the project	Sponsor	Amount (Rs. In Lakhs)		
Dr.M. Duraiselvam	Development of modified surface for ID fan blades to improve their service life	BHEL	8.01		
Dr.M. Duraiselvam	Explorating studies on	GTRE,	9.45		

	Laser surface patterning	Bangalore	
	for high temperature		
	protective coatings on		
	Nickel based superalloy		
	A comparative study on		
	the weldability of high		
Dr.P.Sathiya	strength aluminium-	DST-SERB	49.09
	magnesium alloy		
	(AA 5083)		
	Exploration of lean	Science and	
Dr S.Vinodh and	tools/techniques	Engineering	
Dr.P.Asokan	enabling sustainability	Research Board,	15.42
	in automotive	New Delhi	
	organizations		
	Investigation on the		
	Properties of Direct		
Dr. V.Anandakrishnan	Metal Laser Fabricated	GTRE,	9.90
DrIng. M. Duraiselvam	Material and its Brazing	Bangalore	, , ,
	Compatibility with		
	Nickel Based Casing		
	Investigation on e-waste		
	flow assessment and		
Dr.S.PrasannaVenkatesa	collection strategies for	SERB	16.36
n	a sustainable and		10.00
	economic e-waste value		
	chain design in India		

6. Major Equipment / Software Purchased (more than Rs. 5.00 lakh.)

S. No.	Equipment	Amount (Rs. In Lakhs)
1	3D Printer – Rapid Prototyping Machine (Dept. DST-FIST scheme)	15.77 (USD 23793)

7. Research Papers Published in National / International Journals

7.1 Faculty

International Journal

S.N o	Title	Author(s)	Journal	Year Vol. (No) Page
1	"Surface nano- texturing of silicon by picosecond laser irradiation through TiO ₂ nanotube arrays"	Muthukannan Duraiselvam et al.	Applied Surface Science	353 (2015) 1112 – 1116

2	"Microstructural and mechanical characterization of Ti6Al4V refurbished parts obtained by laser metal deposition"	Muthukannan Duraiselvam et al.	Materials Science and Engineering	643 (2015) 64-71
3	Optimisation of electrochemical drilling process using Taguchi method and regression analysis	S. Kumanan et al.	International Journal of Machining and Machinability of materials	Accepted
4	Optimization of powder metallurgy parameters to attain maximum strength coefficient in Al–10 wt% MoO3 composite	Manickam Ravichandran and Veeramani Anandakrishnan	Journal of Materials Research	Volume 30 ,2380-2387,2015
5	Synthesis and forming characteristics of Al–TiO2 powder metallurgy composites during cold upsetting under plane stress state conditions	M.Ravichandra n, A. Naveen Sait, and VAnandakrishn an	Journal of Sandwich Structures and Materials	Volume 17 no. 3,278-294,2015
6	Effect of Particulate Reinforced Aluminium Metal Matrix Composite— A Review	C. Saravanan, K. Subramanian, V. Ananda Krishnan, and R. Sankara Narayanan	Mechanics and Mechanical Engineering	Volume 19, no. 1,23-30,2015
7	Study of characteristics of Al + 5 wt.% TiO2 + 6 wt.% Gr hybrid P/M composite powders prepared by ball milling process	M. Ravichandran, VS. Vidhya, V. Anandakrishana n	Physicochemi cal Mechanics of Materials	Volume 4,136-143,2015

8	Optimization of welding parameters to attain maximum strength in friction stir welded AA7075 joints	Manickam Ravichandran, Mokkaiya Thirunavukkara su, Shanmugam Sathish and Veeramani Anandakrishnan	Materials Testing	Volume 58, No.3,206-210,2016
9	Application of Desirability Function Analysis and Utility Concept for Selection of Optimum Cutting Parameters in Turning Operation	B. Singaravel and T. Selvaraj	Journal of Advanced Manufacturin g systems	2016, Vol. 15, No. 1, pp. 1-11.
10	Experimental investigation on cutting forces, specific cutting pressure, co-efficient of friction and shear energy in turning of HSLA steel	B. Singaravel and T. Selvaraj	Management and Production and Review	2016, Vol.7 No. (1), pp. 71-76
11	A review of micro hardness measurement in turning operation	B. Singaravel and T. Selvaraj	Applied mechanics and materials	2015, Vol. 813-814, pp.274- 278.
12	Optimization of machining parameters in turning operation using combined TOPSIS and AHP method	B. Singaravel and T. Selvaraj	Tehnicki Vjesnik : Technical Gazette,	2015, Vol. 22/No. 6, 1475-1480
13	Experimental investigation to study the effect of process parameters on chip analysis in turning operation	B. Singaravel and T. Selvaraj	International Journal of Applied Engineering Research	2015, Vol. 10 No.50, pp.896- 899.
14	Multi criteria optimization using Analytic Hierarchy	B. Singaravel and T. Selvaraj	International Journal of Machining	(In press) (Just-accept)

	Process in turning operation		and Machinability of Materials	
15	An Intelligent Process Planning System for Micro Turn- Mill Parts	S.P.Leo Kumar, J.Jerald, S.Kumanan	International Journal of Production Research,	Vol.52,No.40:6052-6075
16	Process Parameters Optimization for Micro End Milling Operation for CAPP Applications	S.P.Leo Kumar, J.Jerald, S.Kumanan, Aniket Nargundkar	Neural Computing and Applications	Vol.25, No.7-8:1941-1950
17	Feature Based Modeling and Process Parameters Selection in a CAPP system for Prismatic Micro Parts	S.P.Leo Kumar, J.Jerald, S.Kumanan	International Journal of Computer Integrated Manufacturin g	DOI:10.1080/0951192X.20140 953586 (Published Online)
18	Optimization of process parameters to improve form and orientation tolerances in EDM of MoSi2-SiC composites.	Selvarajan, L., Sathiya Narayanan, C. and Jeyapaul, R.	Materials and Manufacturin g Processes	2015, 30(8), 954-960.
19	Optimization of EDM Hole Drilling Parameters in Machining of MoSi 2-SiC Intermetallic/Compo sites for Improving Geometrical Tolerances.	Selvarajan, L., Sathiya Narayanan, C. and Jeyapaul, R.	Journal of Advanced Manufacturin g Systems	2015,14(04), 259-272.
20	FLD and Fractography Analysis of Multiple Sheet Single Point Incremental Forming.	Raju, C. and Sathiya Narayanan, C.	Transactions of the Indian Institute of Metals	2015, 1-7.
21	Optimization of EDM Parameters on Machining Si3N4— TiN Composite for	Selvarajan, L., Sathiya Narayanan, C. and Jeyapaul, R.	Materials and Manufacturin g Processes	2016, 31(4), 405-412.

	Improving Circularity, Cylindricity, and			
22	Perpendicularity. Application of a hybrid optimization technique in a multiple sheet single point incremental forming process	Raju, C. and Sathiya Narayanan, C.	Measurement	2016,78, 296-308.
23	Influence of Crab Shell on Tribological Characterization of Eco-Friendly Products Based Non Asbestos Brake Friction Materials.	D.Lenin Singaravelu, Vijay R, Rahul Ragh M	SAE Technical Paper	2015, Paper No. 2015-01-2676.
24	Influence of thermal conductivity and thermal stability on the fade and recovery characteristics of non-asbestos semimetallic disc brake pad	V.Thiyagarajan, K.Kalaichelvan, Vijay R, & D.Lenin Singaravelu	Journal of the Brazilian Society of Mechanical Sciences and Engineering	2015, Pages 1-13
25	Effect of Micro- Textured Tools on Machining of Ti- 6Al-4V alloy: An Experimental and Numerical Approach	D.Arulkirubaka ran,V.Senthilku mar, Vijay Kumawat	International Journal of Refractory Metals and Hard Materials	2016-165-177 vol54
26	Effect of cryogenic cooling on machinability and surface quality of bio-degradable ZK60 Mg alloy	S. Dinesh V. Senthilkumar P. Asokan D.Arulkirubaka ran	Materials and Design	2015-1030-1036 vol-87
27	Low temperature diffusion bonding of Ti-6Al-4V and duplex stainless steel	C. Velmurugan, V. Senthilkumar, S. Sarala, J. Arivarasan	Journal of material processing technology	Accepted

28	Research on Tribological Behaviors of Pure and Glass Fiber Reinforced Nylon 6 Composites against Polymer Disc.	Sudhir kumar and K. Panneerselvam	Journal of Material Science and Mechanical Engineering	2(6), 24- 28.
29	Multi Objective Optimization of Friction and Wear of Pure and Glass Fiber Reinforced Nylon 6 Composites using Taguchi based Grey Relational Technique.	Sudhir kumar and K. Panneerselvam	Journal of Material Science and Mechanical Engineering,	2(10), 7-11.
30	Modeling of tensile properties, dispersion studies, and hardness evaluation of Cloisite 30B in polypropylene with Elvaloy AC 3427 as compatibilizer	Jafrey Daniel D and K. Panneerselvam	Journal of composite materials	DOI: 10.1177/0021998315616176
31	A hybrid discrete firefly algorithm for solving multi- objective flexible job shop scheduling problems	Karthikeyan S, Asokan P, Nickolas S, Page T	International Journal of Bio-Inspired Computation	2015, 7(6), 386-401
32	Effect of cryogenic cooling on machinability and surface quality of bio-degradable ZK60 Mg alloy	Dinesh S, V Senthilkumar, P. Asokan, D. Arulkirubakaran	Materials & Design	2015, 87, 1030-1036
33	Life cycle assessment integrated value stream mapping framework to ensure sustainable	Vinodh, S., R. Ben Ruben, and P. Asokan	Clean Technologies and Environmenta I Policy	2015, 1-17

	manufacturing: a case study			
34	Application of fuzzy logic for leanness assessment in SMEs: a case study	R Vidyadhar, R Sudeep Kumar, S Vinodh, J Antony	Journal of Engineering, Design and Technology	2016, 14 (1), 78-103
35	Application of interpretive structural modelling and structural equation modelling for analysis of sustainable manufacturing factors in Indian automotive component sector	RM Thirupathi, S Vinodh	International Journal of Production Research	2016, 1-22
36	Lean Six Sigma project selection using hybrid approach based on fuzzy DEMATEL-ANP-TOPSIS	S Vinodh, V Swarnakar	International Journal of Lean Six Sigma	2015, 6 (4), 313-338
37	Development of value stream map for an Indian automotive components manufacturing organization	S Vinodh, T Selvaraj, SK Chintha, Vimal KEK	Journal of Engineering, Design and Technology	2015, 13 (3), 380-399
38	Modelling, assessment and deployment of strategies for ensuring sustainable shielded metal arc welding process—a case study	KEK Vimal, S Vinodh, A Raja	Journal of Cleaner Production	2015, 93, 364-377
39	ANP based sustainable concept selection	Vimal KEK, S Vinodh	Journal of Modelling in Management	2015, 10 (1), 118-136
40	Benchmarking	S Vinodh,	Benchmarkin	2015, 22 (1), 2-17

	agility assessment approaches: a case study	S Aravindraj	g: An International Journal	
41	A hybrid MCDM approach for agile concept selection using fuzzy DEMATEL, fuzzy ANP and fuzzy TOPSIS	S Vinodh, T S Sai Balagi, A Patil	The International Journal of Advanced Manufacturin g Technology	2015, 1-9
42	Development of a methodology to evaluate lean remanufacturing characteristics in a manufacturing organisation	S Vinodh, CV Kumar, KJ Manjunatheshw ara	International Journal of Services and Operations Management	2015, 21 (2), 187-199
43	12. The effect of aging on machinability of 15Cr–5Ni precipitation hardened stainless steel.	P. Senthil, D. Palanisamy.	Archives of Civil and Mechanical Engineering	2016, 16, 53 – 63
44	13. Machinabilit y Study of Laser Surface Treated 15-5 PH Stainless Steel.	P. Senthil, D. Palanisamy.	Materials and Manufacturin g Processes	DOI: 10.1080/10426914.2015.1103 871
45	Microstructural studies on laser dissimilar welded Ni & steel alloys for aeronautical turbine applications	Duraiselvam et al.	Lasers in Engineering	Vol. 0, pp. 1–14
46	Enhanced ablation resistance through laser glazing of plasma sprayed LaTi ₂ Al9O19 based functionally graded thermal barrier coating	Duraiselvam et al.	Ceramics Internationa 1	42 (2016) pp. 10184-10190

47	Effect of temperature and strain rate on compressive response of extruded magnesium nanocomposite	Narayanasamy et al.	Journal of Magnesium and Alloys	3(3), pp.224-230
48	Role of hybrid reinforcement on microstructural observation, characterization and consolidation behavior of AA 6061 nanocomposite	Narayanasamy et al.	Advanced Powder Technology	26(4), pp.1171-1182
49	Effect of cryorolling on the mechanical properties of AA5083 alloy and the Portevin–Le Chatelier phenomenon	Narayanasamy et al.	Materials & Design	67, pp.107-117
50	The impact of heat input on the strength, toughness, microhardness, microstructure and corrosion aspects of friction welded duplex stainless steel joints,	M. Mohammed Asif, Kulkarni Anup Shrikrishna, P.Sathiya and Sunkulp Goel	Journal of Manufacturin g Processes,	18 (2015) 92–106
51	Experimental investigation on A-TIG welding process of Incoloy 800H	Srirangan Arun Kumar , Paulraj Sathiya	International Journal of Materials and Manufacturin g Processes	Accepted for Publication
52	Artificial neural network modeling studies to predict the friction welding process parameters of Incoloy 800H joints	K. Anand, Birendra Kumar Barik, K.Tamilmannan and P.Sathiya	Engineering Science and Technology: An International Journal (Elsevier)	18 (2015) 394-407
53	A Comparative	K. Anand,	Acta	2015, 28(7), 892–902

	Study of Artificial Neural Network and Response Surface Methodology for Optimization of friction welding of Incoloy 800 H	Rishabh Shrivastava, K.Tamilmannan , P. Sathiya	Metallurgica Sinica (English Letters)	
54	Multiobjective optimization of friction welding of UNS S32205 duplex stainless steel	P.M.Ajith, Birendra Kumar Barik, P. Sathiya and S.Aravindan	Journal of Defence Technology (Elsevier)	<u>11(2)</u> , 2015, 157–165
55	Characterisation of transient out- of- plane distortion of nipple welding with header component	R. Vetri Selvan, P.Sathiya, G.Ravichandran	Journal of Manufacturin g Processes (Elsevier)	19 (2015) 67-72
56	Optimization of Friction Welding in dissimilar materials through Taguchi based Grey Relational Analysis	Shanjeevi.C, Satish Kumar.S, Sathiya.P, Santonu Gorai	International Journal of Applied Engineering Research	10, (8) (2015), 5990-5995
57	Optimization of Friction Welding in dissimilar materials through Taguchi based Grey Relational Analysis,	Shanjeevi.C, Satish Kumar.S, Sathiya.P, Jose Paul,	Applied Mechanics and Materials Vol.	766-767 (2015) pp 884-889
58	Studies on impact toughness and fracture analysis of austenitic stainless steel and copper joints by friction welding	Shanjeevi C, Satish Kumar S and Sathiya P	Journal of Manufacturin g Engineering,.	2014, Vol. 9, Issue. 2, pp 105- 109
59	Optimisation of process parameters for laser welding on Incoloy 800HT using TOPSIS	Arun Kumar Srirangan, SathiyaPaulraj, Rishabh Shrivastava	International Journal of Applied Engineering Research	Vol. 10 No.24 (2015).
60	Finite element modelling and characterization of	Mohammed Asif.M, Kulkarni Anup	Engineering Science and Technology:	18 (2015) 704-712.

	friction welding on UNS S31803 duplex stainless steel joints	Shrikrishana, P.Sathiya	An International Journal (Elsevier)	
61	Effects of post weld heat treatment on friction welded duplex stainless steel joints,	Mohammed Asif.M, Kulkarni Anup Shrikrishna, P.Sathiya,	Journal of Manufacturin g Processes (Elsevier) -	21, 2016, Pages 196–200
62	Multi-response optimization of process parameters for TIG welding of incoloy 800 HT by Taguchi grey relational analysis	Arun Kumar Srirangan, Sathiya Paulraj	Engineering Science and Technology: An International Journal (Elsevier)	Accepted for Publication.
63	Optimization of Process Parameters of Friction Welding of UNS S31803 Duplex Stainless Steels Joints	Mohammed Asif. M, Anup Shrikrishna Kulkarni, Sathiya.P	International Journal of Advances in Manufacturin g (Springer)	Accepted for Publication.
64	Effect of flux on microstructure and mechanical properties of super martensitic stainless steel using activated tungsten inert gas welding process	M.Chellappan, K.Lingadurai and P.Sathiya	International Journal of Applied Engineering Research,	10, Number 22 (2015) pp 43097-43102
65	Metallurgical and corrosion characterization of post weld heat treated duplex stainless steel (UNS S31803) joints by friction welding process	Mohammed Asif.M, Kulkarni Anup Shrikrishna, P.Sathiya	International Journal of Surface Review and Letters-	Accepted for Publication
66	A review of similar and dissimilar micro joining of nitinol,	Deepan Bharathi Kannan.T, Ramesh.T, Sathiya.P	The Journal of The Minerals, Metals & Materials	Accepted for Publication

			Society (TMS))-	
67	Metallurgical characterizations and mechanical properties on friction welding of Incoloy 800 H joints	K.Anand, S.Arun Kumar, K.Tamilmannan , P.Sathiya and B.Arivazhagan	Journal of Materials Research (Cambridge University Press),	Accepted for Publication-
68	Effect of heat input on mechanical and metallurgical properties of gas tungsten arc welded lean super martensitic stainless steel	Chellappan. M, Lingadurai. K, Sathiya. P, Devakumaran. K and Raja. K	Journal of Materials Research (ibero- american journal of materials)	Accepted for Publication

National Journal

S. No.	Title	Author(s)	Journal	Year Vol. (No) Page
1	Multi response optimization of electrochemical drilling of titanium Ti6Al4V alloy using Taguchi based grey relational analysis	S.Kumanan et al.	International Journal of Material & Sciences	Vol.22, (2015) pp.153-160
2	A study on the spatter generated in various types of gas metal arc welding power sources	K. Devakumaran, K. Gokulnath, D. Lenin Singaravelu and K. Sivaprasad	Journal of Welding Research Institute	Vol. 36 No. 1, Jan- Mar 2015, pp 5-9
3	Physical simulation studies on laser weld heat affected zone of P92 material	B.Shanmugarajan, Ramavath Bheekya Naik, G.Vimalan, P.Sathiya, G.Buvanashekaran,	Journal of the Welding Research Institute	Vol. 36 No. 2, April-June 2015, pp 16-23

7.2 Students

International Journal: Nil

National Journal: Nil

8. Ph.D. Awarded

S. No.	Name of the Research Scholar	Guide / Supervisor	University / Institute
1	Karthikeyan S	Dr.P. Asokan	NIT,Trichy

2	R.Ramesh	Dr.M. Duraiselvam	NIT,Trichy
3	I.Arun	Dr.M. Duraiselvam	NIT,Trichy
4	P.M.Ajith	Dr.P.Sathiya	NIT,Trichy
5	S.Baskaran	Dr.V.Anandakrishnan	NIT,Trichy
6	Vimal K E K	Dr S Vinodh	NIT,Trichy

9. Details of Books authored by faculty.

10. Patent if any obtained by faculty

11. Other Important Points

12. Summary

S.No.	Details		Total no.s		
9.	International Journals		68		
10.	National Journals		03		
11.	International conference publications		18		
12.	National conference publications	02			
13.	Sponsored Project	No.'s:		Amount:	108.23
			6		
14.	No of Ph.D. produced	06			
15.	No of Patents obtained	-			
16.	No of books published			03	

DEPARTMENT: ENERGY AND ENVIRONMENT

1. Notable Achievements

1.1. Faculty Members

S.No	Name	Details of Prizes/ Awards	Organization
1.	Dr. M.Premalatha	International Women's Day	Nehru Memorial college &
		Awards 2016 by Ponsiva	Ponsiva research
		Research and Innovation Trust	Innovation trust
		in collaboration with the	
		Innovation Incubator (i2) of	
		Nehru Memorial College	
		organised International	
		Women's Day.	

1.2 Students

S.No	Name	Details of Prizes/ Awards	Organization
1.	Amol Mande Balu	First Prize in Photography	Akshay Urja Magazine,
			Govt of India
2	Ramakant Pandey	First Prize (Gold Medal),	NITT Sports 2016
		Javelin throw	
3	P. Dhamodharan	Third Prize in "Kavithai	NITT Tamil Mandram
		Competition" in Vidhai	
4	S. Kavitha (Staff)	Second Prize in "Kavithai	NITT Tamil Mandram
		Competition" in Vidhai	

2. Conferences

2.1 Organized - International : Nil

Organized - National : Nil

2.2 Papers presented by the Faculty / Students International

A (1 ()	D . 1
Author (s)	Details
Neelam Choudhary, Nithiya E.M and Dr. M.	"Comparison of two marine species for
Premalatha	CO ₂ uptake" International conference on new
	frontiers in Chemical, Energy and
	Environmental engineering (INCEEE-
	2015),National Institute of
	Technology, Warangal.
R. Kiruthiga, S. Gopukumar, C. Nithya	Does Cu Dopant Improve the Electrochemical
	Performance of NiO for Sodium Ion Batteries?
	International Conference on Electrochemical
	Science& Technology (ICONEST- 2014) held
	at Indian Institute of Science, Bangalore during
	August 7-9, 2014

National

Author (s)	Details
R. Kiruthiga, S. Nivedita, S. Gopukumar, C.	Mn ₃ O ₄ : An Anode Host Material for Sodium
Nithya	Ion Storage, 10 th Mid-YearChemical Research
	Society of India(CRSI) Symposium in
	Chemistry held at National Institute of
	Technology, Trichy from July 23 to 25, 2015.

3. Workshops / Seminars

3.1 Organized

Co-ordinator	Title	Period
Head, Faculty and Students	Workshop on Thermal & Elemental	December 21st 2015
	Analysis of Solids	
Head, Faculty and Students	Workshop on Spectroscopic analysis of	December 22nd 2015
	solids & liquids samples	
Head, Faculty and Students	A one day demonstration of Calibration	February 25th 2016
	Instruments for Industries	
Head, Faculty and students	Workshop on CFD applications	October 1st & 2nd 2015
		3
Head, Faculty and students	One week Workshop on Modeling and	$10^{\text{th}} - 16^{\text{th}}$ Dec. 2015
	simulation using Solidworks.	
Head, Faculty and students	Seminar on "Introduction to MATLAB	6 th Jan 2016
	& Simulink"	
Head, Faculty and students	Seminar on "Design and simulation of	8 th March 2016
	Shell and Tube heat Exchanger"	

3.2 Attended

Faculty	Details	
Mr.S.Dinesh Kumar	Hands-on practical training in Energy	
	Efficiency	
	National Productivity Council	
	Centre of excellence for training in Energy	
	Efficiency, Chennai.	
	11-15 May 2015	
	Two-Week ISTE STTP on Environmental	
	Studies	
	Under the National Mission on Education	
	through ICT, MHRD, New Delhi.	
	National Institute of Technology,	
	Tiruchirappalli	
	June 2nd, 2015 to June 12th, 2015	

Student (s)	Details	Period
Mr. Ramakant Pandey	One day workshop on "Modeling Rotating Compressible Flows in Gas Turbine Internal Cooling Design: One-Dimensional CFD Methodology".	18 th Jan 2016
	One day workshop on "Modeling Secondary Air Systems in Gas Turbine Design: One-Dimensional CFD Methodology".	20 th Jan 2016
	One day workshop on "High- Performance Aerodynamic Design of a Gas Turbine Exhaust Diffuser: CFD Technology Application".	22 th Jan 2016
	Five day's National Workshop On "Computational Fluid Dynamics with Hands on".	15 th - 19 th Feb, 2016
	One day workshop on "Introduction to COMSOL Multiphysics"	11th march 2016
Mr. P. Dhamodharan	One day awareness program on Energy Conservation Building Code	February 18th 2016
	Calibration Workshop, Fluke Corporation	September 30th 2015
	Specialized Training Program on ECBC	March 5th 2016
Shruthi Kulkarni Anil, Ashok U,	Hands-on practical training in Energy Efficiency	11-15 May 2015
Ragavendra Tarun Kumar, Aniket ambekar, Chandrakala Bandaru, Anuj Nivsarkar, Pranav Bontadkar,	National Productivity Council Centre of excellence for training in Energy Efficiency, Chennai.	
Sravya Vallu		

S.No	Workshop/Conference/Seminar Delivered	Ву
1	Workshop on "Introduction to CFD" in Alchemy 2015	Ramakant Pandey
2	Workshop on "Basic concepts of CFD" in Energeia 2015	Ramakant Pandey

4. Invited / Guest Lectures Delivered by the Faculty

Faculty	Topic	Programme	Place & Date
Dr.M.Premalatha	Energy generation from disstillery solid waste	Indo UK Scientific Seminar on Solid Waste Management	Jadavpur University, February 12-14, 2015.
Dr.M.Premalatha	General guidelines for Research & activities of CEESAT	Women's Day Programme	Nehru Memorial College

5. Sponsored Projects undertaken: Nil

6. Major Equipment / Software Purchased (more than Rs. 5 Lakhs)

S. No	Equipment	Amount (Rs. In Lakhs)
1	Ansys Software	12

7. Research Papers Published in National / International Journals

7.1 Faculty

International Journal

S. N	Title	Authors	Journal	Year Vol (No) Pages
1	Impact of blend ratio on the co-firing of post-methanated distillery effluent solid waste and low-rank Indian coal via analysis of oxidation kinetics through TGA	C. Naveen, M. Premalatha	RSC Advance.,	2016, 6 , 26121- 26129
2	Bacterial Assisted treatment of distillery wastewater	Sankaran K, Lakshmi Pisharody, Surya Narayanan G, Premalatha M	RSC Advances	2016, 5, 70977 - 70984
3	Optimization of growth parameters for biomass productivity using response surface methodology in marine microalgal species	E.M .Nithiya, Neelam Choudhary, M.Premalatha,	International Journal of Advanced Research in Biology, Engineering, Science and Technology (IJARBEST),	Volume 2,Special issue 8 - February 2016, pp.11.

4	"Studies on light intensity distribution inside an open pond photo-bioreactor". Sodium Ion Batteries: A Newer	Ramakant Pandey, Akhilesh Sahu Vasumathi Krishnan Manickam Premalatha C. Nithya, S.	Bioprocess and Biosystems Engineering	38(8) 2015 4 (2015)
	Electrochemical Storage	Gopukumar	and Environment	253-278 (ISSN: 1942-4795).
5	Bi ₂ O ₃ @Reduced Graphene Oxide Nanocomposite: An Anode Material for Sodium-Ion Storage	C. Nithya,	Chem Plus Chem	80 (2015) 1000-1006 (ISSN: 2192-6506).
6	Can the Degree of Crystallinity of Ball Milled Mg ₂ Ni Intermetallic Compound Decide Its Electrochemical Characteristics? –,	A. Venkateshwari, C. Nithya, S. Kumaran	Particulate Science and Technology: An International Journal	2015, DOI: 10.1080/027 26351.2015. 1054969 (ISSN: 0272-6351).
7	High performance Na _x CoO ₂ as a cathode material for rechargeable sodium batteries –	B. Venkata Rami Reddy, R. Ravikumar, C. Nithya, S. Gopukumar, J. Mater.	Chem. A.	3 (2015) 18059- 18063 (ISSN: 0959-9428.
8	Experimental investigation and mechanism of critical heat flux enhancement in pool boiling heat transfer with nanofluids	R. Kamatchi, S. Venkatachalapath y, C. Nithya	Heat Mass Transfer	2016, DOI: DOI 10.1007/s00 231-015- 1749-2 (ISSN: 0947-7411).
9	Impact of Point Source Contamination on Eutrophicated Water Bodies using Streeter Phelps Oxygen Sag - Reaeration Model	S.Dinesh Kumar Dr. S.SenthilVel Dr.A.Bharani	International Journal of Innovations in Engineering and Technology (IJIET)	ISSN: 2319 - 1058 Volume 6 Issue 2 December 2015
10	Fibrils of phenylalanine adsorbed to Langmuir-Blodgett films: Role of Lipids	Kamatchi Sankaranarayanan	Soft Materials,	Vol. 13, 2015, 219.

11	Does L to D-amino acid substitution	V. Punitha, J. R.	Materials	Vol. 57,
	trigger helix→sheet conformations in	Rao, Kamatchi	Science and	2015, 249.
	collagen like peptides adsorbed to	Sankaranarayanan	Engineering C	
	surfaces?	, Aruna		
		Dhathathreyan		
12	Role of viscogens on the	Kamatchi	Biointerphases	Vol.10,
	macromolecular assemblies of	Sankaranarayanan		2015,
	Fibrinogen at liquid/air and solid/air			021009.
	interfaces			
13	Propensities to ATP binding sites in	Gargi Rastogi, N.	Research	Vol. 10,
	Myosin II domains	Meenakshisundar	Journal of	2015, 78.
		am, Kamatchi	Biotechnology	
		Sankaranarayanan		
14	Studies on pH controlled transition of	Kamatchi	Adsorption	Vol. 33,
	Myoglobin capsules from hollow to	Sankaranarayanan	Science and	2015, 759.
	multilayered structures		Technology,	

7.2 Students International Journal

S. No	Title	Authors	Journal	Year Vol (No)
				Pages
1	Process	Raghu Krishna	Chemical	February 2016
	Intensification-An	Moorthy, Sangeeta Baksi,	Engineering	Edition, 41-47.
	Insight	Soumitra Biswas,	World	ISBN:
				A100007403
2	Impact of blend ratio	C. Naveen, M.	RSC	2016, 6 , 26121-
	on the co-firing of	Premalatha	Advance.,	26129
	post-methanated			
	distillery effluent			
	solid waste and low-			
	rank Indian coal via			
	analysis of oxidation			
	kinetics through			
	TGA			
3	Bacterial Assisted	Sankaran K, Lakshmi	RSC	2016, 5, 70977 -
	treatment of distillery	Pisharody, Surya	Advances	70984
	wastewater	Narayanan G, Premalatha		
		M		
4	Optimization of	E.M .Nithiya, Neelam	International	Volume 2,Special
	growth parameters	Choudhary,	Journal of	issue 8 - February
	for biomass	M.Premalatha,	Advanced	2016, pp.11.

	productivity using response surface methodology in marine microalgal species		Research in Biology, Engineering, Science and Technology (IJARBEST),	
5	"Studies on light intensity distribution inside an open pond photo-bioreactor".	Ramakant Pandey, Akhilesh Sahu Vasumathi Krishnan Manickam Premalatha	Bioprocess and Biosystems Engineering	38(8) 2015

8. Ph.D awarded: Nil

9. Details of Books authored by Faculty

C.Nithya - "High Performing cathode materials for lithium ion Batteries " LAP - LAMBERT Academic Publishing, Germany, January 2016, ISBN: 978-3-659-82537-8.

10 Patent if any obtained by Faculty

- Process for the preparation of high voltage nano composite cathode (4.9 V) for lithium ion batteries - S.Gopukumar, C.Nithya, R.Thirunakaran and A.Sivashanmugam - JP 2016 -5765644.
- Cathode Material and Lithium Ion Battery Therefrom S.Gopukumar, C.Nithya, R.Thirunakaran and A.Sivashanmugam – JP 2016-5707499

11. Other Important points

12. Summary

S. No	Details	Total Nos
1.	International Journals	14
2.	National Journals	-
3.	International conference publications	2
4.	National conference publications	1
5.	Sponsored project	-
6.	No of Ph.d produced	-
7	No of Patents obtained	2
8	No of Books published	1

DEPARTMENT: CENTRE OF EXCELLENCE IN CORROSION AND SURFACE ENGINEERING

1. Notable Achievements

1.1 Faculty Members

S.No	Name	Details of Prizes / Awards	Organization
1.	Prof. S.Natarajan	Certificate of Award for Outstanding	Taylor & Francis
		Contribution in Reviewing for the	Group, Philadelphia,
		International Journal of Materials and	USA
		Manufacturing Processes.	

3. Workshops:

3.1 Organized

S.No.	Coordinator	Title	Period
		Recent trends in Corrosion Control and Tribological scenario in mining industries,	
1.	Prof. S.Natarajan Chairman, CECASE	Conducted at NLC, Neyveli	December 29 – 30, 2015
		Speakers: Prof. S.Natarajan,	
		Dr.S.P.Kumaresh Babu,	
		Dr.M.Duraiselvam & Dr.R.Karvembu	
		Emerging Trends in High Temperature	
		Corrosion and Erosion Control in	
		Thermal Power Plants,	
2.	Prof. S.Natarajan Chairman, CECASE	Conducted at NLC, Neyveli	February 15-16, 2016
		Speakers: Prof. S.Natarajan,	
		Dr.S.P.Kumaresh Babu,	
		Dr.M.Duraiselvam & Dr.R.Karvembu	

4. Invited Lectures Delivered by the Faculty

Faculty	Topic	Programme	Place & Date
Prof. S.Natarajan	Challenges and	National Conference	International
Chairman, CECASE	Opportunities in	on Metallurgical	Exhibition Centre,
	Corrosion Control and	Industries:	Bangalore, December
	Surface Engineering with	Sustainability and	3, 2015
	some highlights on	Value Addition -	
	Recent Trends in Mining	Organised by IIM	
	Scenario	Bangalore Chapter &	
		ASM Bangalore	
		Chapter.	

Prof. S.Natarajan	Corrosion in Gas Turbine	Interaction	GTRE, Bangalore,
Chairman, CECASE	Technology	Programme for GTRE	December 4, 2015
		Scientists	
Prof. S.Natarajan	Inaugurated National	National Conference	M.Kuarasamy
Chairman, CECASE	Conference on Global	on Global Advances	College of
	Advances in Materials for	in Materials for	Engineering, Karur
	Energy, Engineering and	Energy, Engineering	March 4, 2016
	Environmental Sciences	and Environmental	
	$(GAME^3S-16)$ and	Sciences	
	delivered a Plenary	$(GAME^3S-16)$	
	Lecture.		

7. Research Papers Published in National / International Journals

7.1 Faculty

International Journal

S. No.	Title	Author(s)	Journal	Year Vol. (No) Page
1.	Degradation Through Erosion: Mechanistic Studies on IN 718 Superalloy under Hot Air Jet Conditions	K.G.Thirugnanasambantham & S.Natarajan	Journal of Materials Engineering and Performance, ASM International	Vol: 24(7), July 2015 – 2605.
2.	Sliding wear behaviour and its mechanisms of carbonitrided AISI 8620 steel at 100°C under unlubricated conditions	3	Surface Engineering, Maney Publications	DOI:10.1179/ 1743294415Y. 0000000090 Online: March2, 2016
3.	Selection and characterisation of HVOF cermet coatings for volutes of high capacity pumps of opencast lignite mines	3	Surface Engineering, Maney Publications	Volume 32, Issue 3, 2016, pp: 229-237
4.	Strengthening Mechanisms in Multiwalled Carbon Nanotubes Reinforced Co–W Pulse	E. Edward Anand & S. Natarajan	Materials and Manufacturing Processes, Taylor & Francis	Volume 31, Issue 1, Jan 2016, pp: 48-52

	Electrodeposited Coatings			
5.	Effect of graphite addition on the Microstructure, Hardness and Abrasive Wear behavior of Plasma sprayed NiCrBSi coatings	Akhilesh K., Ananya Rajagopal, Preethi Nambiyar, S.Natarajan, E.Edward Anand	Chemistry and	10.1016/ j.matchemphys. 2016.02.076
5.	Thermochemical Surface Engineering of Steels - Book Review	S.Natarajan	Surface Engineering, Maney Publications	Vol: 31(11), 2015, pp: 875- 878
6.	Biomimetic, Bioresponsive and Bioactive Materials - Book Review	S.Natarajan	Materials and Manufacturing Processes, Taylor & Francis	DoI: 10.1080 / 10426914.2015. 1059095

7.2 Students

International Journal

S. No.	Title	Author(s)	Journal	Year Vol.
				(No) Page
1.	Sliding wear	R. Sankaran, D.Rajamani,	Surface	DOI:10.1179/
	behaviour and its	S.Natarajan &	Engineering,	1743294415Y.
	mechanisms of	K.G.Thirugnanasambantham	Maney	0000000090
	carbonitrided AISI	<u>-</u>	Publications	
	8620 steel at 100°C			Online:
	under unlubricated			March2, 2016
	conditions			

8. Ph.D / M.S. Awarded

S. No.	Name of the M.S. Research Scholar	Guide / Supervisor	University / Institute
1.	Mr. R.Sankaran	Prof. S.Natarjan	NITT

12. Summary

S.No	Details	Total nos
1.	International Journals	6
2.	National journals	-
3.	International conference publications	-
4.	National conference publications	-
5.	Sponsored Project	-
6.	No of Ph.D. / M.S. produced	1 (M.S.) – under CECASE
7.	No of Patents obtained	-
8.	No of books published	-

CENTRAL LIBRARY

The Institute has a modern Central Library with more than two and half lakhs of documents consisting of Technical books, reports, standards, CD-ROMS, Audio Visual Educational Cassettes and back volumes of journals. The library subscribes to 164 periodicals (print) plus 7000+ e-Journals and 700+ e-books besides a holding of 17690 back volumes of journals. The library also contains 16,750 books in the Book Bank scheme.

Digital Knowledge Centre has been established with 70 Computer systems provided with DVD-RW Drive. Wi-Fi facility has been provided for laptop users. CCTV Web cameras have been fixed in the Central Library and the entire building is under camera surveillance. RFID Technology of Document Identification and Library Security System have been implemented for the library functions and services from 29th March 2013.

VISION

To provide comprehensive Resources and Services in support of the Research, Teaching, and learning needs of the Institute community

MISSION

- 1. To build collections by networking with leading Libraries for providing relevant information and create tools to support research, teaching, and learning
- **2.** To facilitate seamless access to robust and distinctive collections to the stakeholders
- **3.** To ensure the preservation and long-lasting availability of library collections and resources

Conference / Seminars / Symposium / Special Lectures conducted:

S.No.	CO-ORDINATOR	PROGRAMME	PERIOD
1	D. THAMADAIGELY		10.02.2015
1.	Dr. THAMARAISELVI	Conducted User Orientation Program on	18.03.2015
	Librarian (S.G.)	"Access to E-Resources" for all the	
		Research Scholars of NITT	
2.	Dr. THAMARAISELVI	Conducted User Orientation Program on	31.07.2015
	Librarian (S.G.)	"CENTRAL LIBRARY: Facilities &	
		services" for the fresher of	
		M.Tech./M.Sc. students of NITT	
3.	Dr. THAMARAISELVI	Conducted User Orientation Program on	03 - 07
	Librarian (S.G.)	"CENTRAL LIBRARY: Facilities &	August 2015

		services" for the fresher of I year	
		B.Tech./B.Arch. students of NITT	
4.	Dr. THAMARAISELVI	Conducted User Orientation Program on	29.08.2015
	Librarian (S.G.)	"CENTRAL LIBRARY: Facilities &	
		services" for the newly joined of I year	
		B.Tech./B.Arch. students of NITT	
5.	Dr. THAMARAISELVI	Conducted User Orientation Program on	05.10.2015
	Librarian (S.G.)	"How to access Grammarly Software	
		for promoting research " for the faculty	
		and research scholars.	

Papers presented by the Faculty/Library Staff:

Authors	Details
Dr. G. THAMARAISELVI Librarian (S.G.)	Presented a paper on "Availability of e-resources at NIT, Tiruchirappalli Central Library" at NIT, Kurukshetra at the 2 nd meeting and Workshop of NIT Libraries Consortium held during 15-16, July 2015
Dr. G. THAMARAISELVI Librarian (S.G.) & Dr. G. THAMIZHAVEL, ASST.(S.G)	Presented a paper on "Sangakala Noolaka kattida muraigalum, noolaga paadukaappu vazhimuraigalum" at Tamil Sangam, Madurai in the National Conference on "Sangatthamizharin Kattidakkalai held on 10 th oct. 2015

Research articles published in International Journals:

Faculty	Title	Journal details	year
Dr. G.	Dissemination of	IASET: International	V.1,Issue 1, Jun-July
THAMARAISELVI,	Information through	Journal of Library &	2015, p. 81-92
Librarian (S.G.)	Cloud Computing	Educational Science	
	services in Academic		
	Libraries		

TRAINING AND PLACEMENT

During the year under report (2015-16), the students' placement record continues to be maintained at higher percentages despite global sluggishness. The overall percentage of placements as on 21.04.2016 for under graduate programme is **93.5%** and Post Graduate Programme is **72.2%**. The placement process is still in progress. Details are given below:

Campus Placements: Under Graduates

Sl. No.	UG Branch	Total Placed	As Percentage of Registered Students
01.	Civil	53	81.5
02.	C.S.E.	82	97.6
03.	E.E.E.	71	97.3
04.	E.C.E.	83	97.6
05.	Mech.	73	97.3
06.	MME	35	89.7
07.	Prod.	62	84.9
08.	I.C.E.	73	97.3
09.	Chem.	42	93.3

Campus Placements : Post Graduates

Sl. No.	PG Branch	Total Placed	As Percentage of Registered Students
01.	M.B.A.	53	92.9
02.	M.C.A.	62	92.5
03.	M.Tech. Comp. Science & Engineering	22	91.6
04.	M.Tech. Thermal Power Engineering	15	88.2
05.	M.Tech. Industrial Safety Engineering	25	92.0
06.	M.Tech. Manufacturing Technology	11	73.3
07.	M.Tech. Power Systems	13	56.5
08.	M.Tech. Power Electronics	10	43.5
09.	M.Tech. Material Science	3	33.3
10.	M.Tech. Transportation Engg. & Management	10	66.6
11.	M.Tech. Welding Engineering	10	52.6
12.	M.Tech. Communication Systems	20	95.2
13.	M.Tech. VLSI Systems	15	86.1
14.	M.Tech. Industrial Engineering	7	43.7
15	M.Tech. Industrial Metallurgy	5	41.6
16.	M.Tech. Structural Engineering	10	45.5
17.	M.Tech. Environmental Engineering	8	44.4
18.	M.Tech. Plant Design (Chemical Engineering)	12	63.1
19.	M.Tech. Non-Destructive Testing.	18	78.3
20.	M.Tech. Energy Engineering	10	58.9
21.	M.Tech. Process Control & Instrumentation	8	53.3

Notable Achievement: (As on 25.04.2016)

No. of Companies Visited	No. of Students Placed	Percentage	Double offer (UG & PG)
222	UG: 574	UG: 93.5	UG: 14
222	PG: 347	PG: 72.2	PG: 09

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

Significant Institute level contribution during the year 2015 - 16

- 1. The department coordinated and functioned as the secretariat for the Alumnus Award 2016. Hon'ble Governor of Andhra Pradesh and Telegana was the Chief Guest for the DAA function. This year for the first time, Young Alumni Achievers were also recognized and awarded. In all 30 DAAs and 5 YAAs received the awards.
- 2. Coordinated and inducted large students force for active contribution to the TN flood relief. 3 Loads of relief materials donated by the campus inmates were dispatched to Cuddalore and one bus load of relief materials was distributed personally by students in a flood affected village called Kattur in Ponneri Taluk, near Chennai.
- 3. As the Nodal Officer for the MHRD scheme Rashtriya Avishkar Abhiyan (RAA), adopted and conducted outreach programme for the children of neighboring village schools.
- 4. The Institute received the prestigious FICCI Higher Education Summit '15 award under the category "Social Excellence".

COMPUTER SUPPORT GROUP (CSG)

The CSG, currently headed by Dr. Ramakalyan Ayyagari, consists of a team of Hardware, CAD/CAM, Software, Network Engineers, Technical Officers, Data Entry Operators, Computer Operators, and ad-hoc System Trainees. These professionals are qualified, skilled, and experienced in managing the systems and network.

Significant Activities of the CSG during the Academic Year 2015-16

- Internet Bandwidth upgraded to 150 Mbps (1:1) through STPI.
- Operating Pearson/GMAC's authorized online testing center for the GMAT examination for the benefit of the students from NIT-T as well as students from Trichy and nearby places. So far, 5 students have appeared for the GMAT examination through this center.
- Recruited 8 support trainees to impart training in Software, Hardware, Networking, Web, and Email.
- Hosted a new Helpdesk website URL: http://ruby.nitt.edu/nitt_helpdesk/ for registering complaints from the users (faculty, staff, students) and attending to them in a more efficient and organized manner.
- Problems with Wi-Fi in the Hostel zone have been addressed to.
- Initiated recycling of one-side printed papers into notebooks for the benefit of students.

Future plans

Very shortly Annexure II is getting ready for the CSG to house at least 650 additional computers to take care of the campus population. Proposals have been finalized for the expansion of high speed backbone network to hostels using latest wireless technologies, and to move to new internetworking technology IPv6 from the existing IPv4. Other plans include Business Continuity and Disaster Recovery (BCDR) strategy, ISO9000 certification, parallel computing, and Cloud computing.

National Cadet Corps (Air wing) Activities during April 2015- March 2016

- 1. "A" flight has started regular parades from August 6, 2015 with total strength 50. Thirty five parades each of duration 2 hours were conducted. The two hours of parade consists of 40 minutes of foot & weapon drill followed by 80 minutes of theory classes on the subjects like General Service Knowledge, Aero-modeling, Air Frame, Aero-engine, Principles of Flight, Health and Hygiene, First aid etc.
- 2. NCC Cadets performed the National Salute, delivered speeches and sang patriotic songs on Independence Day (Aug 15, 2015) as well as on the Republic Day (Jan 26, 2016).
- 3. Thirty of NITT NCC cadets have attended Combined Annual Training Camp (CATC) during 24th Feb -4th March 2016 at PMU, Vallam, Thanjavur organized by 3 (TN) AIR SQN (TECH) NCC, Trichy. In CATC, NITT cadets performed excellently and won many awards in CATC 2015-16. Six of NITT NCC cadets have attended NCC National Integration Camp-I at Noida(UP), from 20th Jan 2016 to 31st Jan 2016.
- 4. A-Flight, 3(TN) Air Sqn (Tech) NCC of NIT-Trichy have organized a blood donation camp in NITT along with Mahatma Gandhi Government Hospital attached to K.A.P. Viswanatham Govt. Medical Collge, Trichy on 1st Nov'2015. The camp witnessed an overwhelming turnout. One hundred and twenty eight volunteers from students and faculty of the college donated blood in this camp.
- 5. NCC organized Tree Plantation Camp at NITT to create awareness about the deteriorating environmental condition and to make our very own campus greener on 7th Nov 2015. NCC cadets planted 36 saplings in different strategic locations throughout the NIT Trichy campus on 7 th November 2015.
- 6. 'A' Flight, NCC organized three days event Lakshya: a defense and civil services symposium during March 12th to 13th 2016.
- 7. Twenty Four cadets appeared 'B' certificate examination on 12th & 13th March, 2016 and Seven cadets appeared for "C' Certificate examination on 26th March 2016, conducted by NCC directorate.
- 8. Flying Officer P. Saikrishnan relieved from the post Associate NCC officer on 31st Dec 2015 and Dr. V.M. Biju, Assistant Professor, Department of chemistry taken in-charge of NCC at NITT on 1st Jan 2016.



BLOOD DONATION CAMP IN NIT CONDUCTED BY NCC CADETS



TREE PLANTATION INITIATIVE CONDUCTED BY NCC CADETS IN NIT

PHYSICAL EDUCATION ACHIEVEMENTS-2015-2016

Notable achievements like prizes, awards won by our students for the year 2015-16.

Sl.No	Game	Award	Name of the Tournament
1.	Basket Ball (Women)	Winners	
2.	Kho Kho (Women)	Winners	
3.	Table Tennis (Men)	Winners	
4.	Table Tennis (Women)	Runners	
5.	Tennis(Women)	Winners	
6.	Tennis(Men)	Runners	
7.	Chess	Runners	UDGOSH'15,Conducted by
	Athletics (Men) Bharat Ram Triple Jump	Bronze	I.I.T KANPUR from 01.10.15 to 04.10.15
	Athletics(Women) Abha Suman Long Jump	Silver	01.10.13 to 04.10.13
	Jai chakma Sushma Alamelu Abha Suman	Bronze	
	Jai chakma Sushma Ankita Abha Suman	Bronze	

Sl.No	Game	Award	Name of the Tournament
1.	Swimming (Men)		
	I. Athip.T		
	1. 50m Freestyle	Gold	
	2. 100m Freestyle	Gold	
	3. 200m Back Stroke	Gold	
	4. 200m IM	Silver	
	5. 4x50m Freestyle	Silver	
	6. 4x50m Medley	Silver	
	·		

II. Kunal Pathak Bronze	
1. 50m Backstroke Silver	
2. 4x50m Freestyle Silver	
3. 4x50m Medley	
III. Varun Vimal Silver	
1. 50m Breaststroke Bronze	
2. 200m Freestyle Silver	
3. 4x50mFreestyle Silver	
4. 4x50m medley	BOSM'15 Sports Meet At BITS
IV Aravind, MK Bronze	Pilani from 18 th Sep To 22 nd Sep
1. 200m.Breastsrtoke Silver	2015
2. 4x50m Freestyle Silver	
3. 4x50m Medley	
V Somasundaram.A Bronze	
1. 100m Breaststroke	
Swimming (Women)	
I. Akhila challa Gold	
1. 50m Backstroke Silver	
2. 100m Freestyle Gold	
3. 100m Backstroke Silver	
4. 200m Freestyle Silver	
5. 4x25m Medley	
II. Nevedita Bronze	
1. 100m Freestyle Bronze	
2. 100m Breaststroke Bronze	
3. 200m Freestyle Silver	
4. 4x25m Medley	
III.Dhakshaayani.K Silver	
1. 100m Backstroke Bronze	
2. 100m IM Silver	
3. 100mBreaststroke Silver	
4. 4x25m Medley	
IV. Ramayapally Trisha Reddy Bronze	
1. 50M Backstroke Bronze	
2. 50m Freestyle Bronze	
3. 50m Breaststroke	
V. S.N.Laasya Silver	
1. 4x25m Medley	

Sl.No	Game	Award	Name of the Tournament			
1.	Badminton (women)	Winners	"COLOGGEN M' C I II			
2.	Badminton (Men)	Third Place	- "COLOSSEUM" Conducted by SASTRA University.			
3.	Basket Ball (Women)	Third Place	Jan-2016			
1.	Power Lifting Aman Bakolia	Third Place	All India Inter NIT Sports Meet 2016 At MNIT Jaipur from 26 th to 28 th Feb.			
1.	Shuttle Badminton (Men)	Runners				
2.	Shuttle Badminton (Women)	Winners	All India Inter NIT Sports Meet 2016			
3.	Tennis(Men)	Winners	At NIT Surat, from 11 th to 13 th Feb.			
4.	Hand Ball	Third Place	- Hom H to 15 Feb.			
5.	Volley Ball (Men)	Third Place				
1.	Basket Ball (Women)	Third Place	Tournament conducted by Vellore Institute of Technology			
	Sports Fete-2016 – All the Events are Completed - From 04.03.16 to 09.03.16					

STUDENTS ACTIVITIES

REPORT ON PRAGYAN'16

The 12th edition of the largest techno management fest in the country, Pragyan 2016 took place between the 25th and 28th of February 2016. Principally sponsored by Larsen and Toubro and presented by National Instruments in association with Honeywell, Pragyan 2016 began on the evening of the 25th of February with the inauguration. Present at the inauguration were Chief Guest Commander KS Nathan of the Defense Shipbuilding Strategic Business Unit, L&T; Guest of Honor Mr. Solaikutty Dhanabal of National Instruments; and Special Guest Mr. Krishnamachari Srikkanth, former captain of the Indian Cricket Team. The Chairman, Keerthi Vasan, presented the Pragyan report- a brief on the activities of Pragyan during the rest of the year, leading up to Pragyan. These included the Youth Business Summit at the Hilton, Chennai; a Hackathon at Bangalore in association with Microsoft and the Square One outreach events at Kochi and Chennai. The Director of NIT Trichy, Dr. Srinivasan Sundarrajan was also present on stage and stated his pride and happiness at the grand success that had been the Pre-Pragyan events and wished the Pragyan team well. The Overall Coordinator, Srinimalan gave the vote of thanks.

This was followed by the Star Night event, in which the online entertainment channel The Viral Fever interviewed the Special Guest Krishnamachari Srikkanth on stage. From TVF, the members present were Vipul Goyal, Jitendra Kumar and Manvi Gagroo. The interview was followed by an Infotainment show by the Spanish Troupe Girasomnis. The performance consisted of a mystical fusion of dance, music and video art and enthralled the audience.

The next day of Pragyan, Day 1, saw the much awaited guest Lectures of Ravi Nawal, author of the bestseller, "India Can"; Ralph Leighton, the author of two definitive works on the life of Dr. Richard Feynman; and Peter Schultz, co–inventor of the fiber optics. The day also saw several interesting events including Circuitrix, Junkyard Wars and Hover One. Several workshops also began on Day 1, including the Texas Instruments TM4C4uC. The Day ended with an infotainment show by the celebrated illusionist JC Sum, who engaged the audience with mind-reading, card tricks and coin acts as well as the patented i-frame technology.

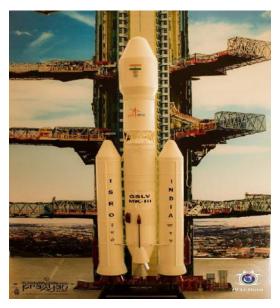
Day 2 of Pragyan also saw some powerful guest lectures such as those by Varun Agarwal, Rene Reinsberg, the vice-president of emerging products at GoDaddy; Gianni Di Caro,

the Swiss AI Lab senior researcher; and Sudhir Kumar Mishra, the CEO of BrahMOS Aerospace. Flagship events of Pragyan were also seen on Day 2: Nittro, Rush Hour, Quad Combat, the Internet of Things Challenge and Marketing Hub. These events represent the variety of technology and management that Pragyan routinely covers during the course of its four days. The highlight event of the day was Crossfire – Panel Discussion. The crossfire event is unique to Pragyan and brings together eminent people in political, social and industrial parts of life to debate on socially relevant topics. The panelists were Dr. P. Chellapandi, Ms. Bahar Dutt, Mr. Anoop Poonia, Dr. A. Ravindra and Mr. Nawshir Mirza; the moderation was done by Mr. Abhinandan Sekhri. The topic for the crossfire was "Development sustains pollution: Must we defile to go the extra mile?" The event was an extremely thought provoking one and truly brought out the tough choice between development and the environment. The day ended with a true blend of technology and entertainment: a performance by Illuminati. They are the only black-light troupe in India with proprietary technology. They performed several LED and TRON acts as a part of their performance.



The guest lectures for Day 3 were by Mr. Abhas Mitra, the Indian astrophysicist and Dr. Archana Sharma, the only Indian Scientist at the LHC project in CERN. Flagship event during the day were FundaMENTAL, a fringe science conference of sorts; and NFS Aqua, an RC Boat event. Another highlight occurrence today was the alumni crossfire in which NIT alma maters were called together in an on-stage debate on "Life at NIT Trichy: Then and Now". The members called were Admiral Krishnan, Dr. Mahendra Mohan, Bhuvan Gupta, MS, Rachana Ramchand, Mr. Anurag Saxena and Mr. Bhuvan Gupta. They debated on whether it was the

REC of the 70s, 80s, 90s or the NIT of the 2000s which gave us the best experience. This is another initiative pioneered at Pragyan. The valediction ceremony was held in the evening and was attended by Dr. Archana Sharma as the Guest of Honor, the Director, Staff Advisor, Registrar, the technical Secretary Padmeya Indurkar and the treasurer, Ajay Immanuel. The highlights of Pragyan were mentioned and the teams thanked. The overall marketing report was also presented. The Day, and Pragyan, ended with the stand-up comedy performances of Sorabh Pant, founder of East India Comedy group; and Aravind SA, member of Evam Standup Tamasha.



A unique element of Pragyan, the Sangam and Exhibitions were held on all 4 days. Sangam is an exclusive intra-NITT initiative of Pragyan which saw participation from 33 teams. The exhibition provided a platform to help the brightest minds of implement their innovative ideas and earn recognition for the same from other participants, academicians, technocrats and industrialists. The Exhibitions consisted of such exhibits as i-bots, Locks, ISRO, HAPP, HEB and OFT.

In all, the four day fest was a grand success and raised the bar for its successor higher than ever before.

REPORT ON FESTEMBER'15

The 41st edition of Festember'15 was undoubtedly one of the best of its kind. The fest successfully matched up to the expectations from the previous editions. In addition to this, the publicity and the sponsorships this year were unparalleled. This edition, the fest hosted 63 events, 7 workshops and numerous fun-filled informal events. This culminated into an incredible footfall of over 5000 participants from various colleges across the country. Further, the pro shows and the guest lecture series enhanced the glamour quotient of this 4-day extravaganza.

This edition of Festember received massive publicity. The fest was widely publicized in numerous acclaimed national-level newspapers and magazines. The fest's poster was also shared from Kamal Hassan's official page. The innumerable outreach events received an amazing response, with a great multitude of registrations. One among these was the Rolling Reels International Film Festival held at Hyderabad. The judges of this contest included renowned actors, directors and writers. The total prize awarded summed up to a whooping 70000 INR. Another outreach event that took place was the prelims of Gigahertz, the rock band competition at Bangalore and Chennai.



Festember Social Responsibility helped clean up the tiny village of Vaazhavanthaankotai, abutting NIT Trichy's compound; conducted social activities for school children and also helped supply a library to the nearby REC school.

With the uniquely artistic theme of "Les Automatistes", Festember'15 kicked off on the 24th of September 2015. The fest was inaugurated by Mr. Muthu Ramalingam, CEO of

Dextrasys Technologies. Every night, Festember had a great line up of pro shows to offer. These included performances by the eminent dancer, Ms. Rukmini Vijayakumar, famed musical bands like Mushroom Lake, Black Letters and Skrat and the EDM night by the celebrated Alvar and Milles. Apart from these, a myriad of artists, comedians and musicians like Kavita Maria Thomas, Max Godman, The Family Cheese, Acapella and Acoustics and the Pundits graced this fest.

The workshops and informal events conducted this Festember included interesting and intriguing ones like Ventriloquism, Freestyle Football, Fencing, Caricature, Lyrical Hip Hop, Salsa, Crime Scene Investigation, Mechanical Bull, Casino, Oculus Rift, PS3 and MSI Gaming and Human Foosball.

Several other highlights of this fest also included the Bike Stunt Show, the Dance Face-off, the exhibitions and the art gallery; which appropriately complimented Festember's theme. A number of influential personalities like Prashanth Bhushan, Harish Iyer and Anita Ratnam, graced Festember with their esteemed presence.



This edition also saw its inception into the Guiness World Record, with 1000 coke bottles opened precisely at the same time. The final night of Festember witnessed the mystique of Bollywood songs as Trichy danced to the tunes of celebrated artists like Pritam Chakraborty, Abhijeet Sawant, Aditi Singh Sharma, Antara Mitra and Nakash Aziz. Certainly, Festember'15 created a new dimension in the history of student run cultural festivals!

REPORT ON NITTFEST'15

- NITTFEST 15, centred around the theme of vikings, the fierce warrior clans. Viking inspired design implemented across all NITTFEST related posters and brochures.
- ➤ Dedicated first year only Creative Concepts team was introduced.
- NITTFEST 15 was the first fest to associate with MYNTRA. They gave about 1 lakh vouchers.
- ➤ Honda gave three trophies for three flagship events qawalinite, manoranjan and battle of bands.
- Revamped Food Coupon distribution system was implemented.
- Point distribution was completely revamped and standardized, making the fest more competitive and unpredictable.
- ➤ Total of 60+ events spread across all genres.
- ➤ New genres like Informals and Impromptu Events were introduced; 10 new events were introduced.
- ➤ Professional judges from across the country were brought in. Much acclaimed 5th Element judged ChoreoNite.
- Ambience team implemented Viking aura with stage designed as a huge ship and Viking lanterns.





TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME PHASE II (TEQIP-II)

Preamble

The Indian system of engineering education has become vast and so far around 3000 engineering institutions have been established throughout the country. The exponential growth in Technical Education has however not translated into any significant growth in the number of quality graduates due to restricted availability of qualified faculty and better teaching-learning and training facilities. There is currently a huge gap between quality and quantity in Technical Education. The World Bank took keen interest in systemic transformation of country's technical education system to make it globally competitive and showed willingness to assist the Government of India to launch a Technical Education Improvement Programme (TEQIP) as a long term programme of 10-12 years and in three phases.

The Ministry of Human Resource Development, Government of India through NPIU have competitively selected 127 institutions including 18 Centrally funded institutions, 68 State funded institutions, 22 private unaided institutions and 19 Polytechnics spread across 13 States of India to participate in the first phase of TEQIP during 2003-09. After the completion of TEQIP Phase-I, a study was carried out for evaluating the impact of the Programme and learn lessons for TEQIP Phase-II.

TEQIP PHASE - II

As per TEOIP design, each phase is required to be designed on the basis of lessons learnt from the implementation of an earlier phase. As mentioned above, TEQIP-I started a reform process in 127 Institutions. The reform process needs to be sustained and scaled-up for embedding gains in the system and taking the transformation to a higher level. To continue the development activities initiated through TEQIP-I, a sequel Project is planned as TEQIP-II.

Objectives:

- 1. Strengthening Institutions to produce high quality engineers for better employability,
- 2. Scaling-up PG education and demand-driven Research & Development and innovation,
- 3. Establishing Centers of Excellence for focused applicable research,
- 4. Training of faculty for effective Teaching, and
- 5. Enhancing Institutional and System Management effectiveness.

The following are office bearers involved in the TEQIP-II.

Sl. No.	Name	Role
1	Dr.S.Sundarrajan	Director
2	Dr.G.Swaminathan	TEQIP- II Advisor
3	Dr.T.K.Radhakrishanan	TEQIP-II Coordinator
4	Dr.N.Sivakumaran	Additional Coordinator
5	Dr.V.Senthilkumar	Nodal Officer - Procurement
6	Dr.Sishaj P.Simon	Nodal Officer - Academic
7	Dr.K.N.Sheeba	Nodal Officer - Equity Plan
8	Dr.K.R.Balasubramanian	Nodal Officer - Finance
9	Dr.A.Arunagiri	Nodal Officer - MIS

Status of TEQIP – II

4. PG INFRASTRUCTURE ENHANCEMENT ACTIVITIES

- Procured equipments Amount: **Rs. 5.67 Crore**
- Purchase of Equipments worth Rs. 2.25 Crore is in progress.

5. ACADEMIC RELATED ACTIVITIES

• Student research activities:

- 33 PhD students are given TEQIP-II fellowship and contingency for pursuing their doctoral programme.
- 7 Research scholars completed their Ph.D. degree under TEQIP-II.
- 142 Research scholars were deputed for training in industries/workshop/conferences.

Research scholars are allowed to participate in the TEQIP-II workshops/seminars organized within the institute.

- PG and Ph.D. students are allowed to reimburse money spent for their consumables such as components, fabrication assistance, publication related charges etc... to be met for their projects
- 8 Nos. Ph.D. students were benefitted under international travel scheme for networking/attending international conferences/chairing international conferences etc.

Industrial Visits are allowed for PG students to increase the industry institute interaction.

Faculty development activities:

- 81 Workshops/Seminars are conducted till the end of March 2016 within the Institute. The duration of the workshops/seminars is from 1 to 5 days.
- 3 Industrial workshops, one academic Conclave and 6 International Conference were conducted.

- 150 teaching faculty had undergone training within India in industries/ research organizations/training centers etc.
- 20 faculty members were benefitted under international travel scheme for networking/attending international conferences/chairing international conferences etc.
- Eleven faculty with M.Tech qualification who are doing doctoral programmes are given contingency for their research work.
- Faculties are given contingencies for their PG research projects for an amount up to Rs. 90,000/- per faculty. In this scheme 143 faculty members were benefited till date.
- Outbound trainings are conducted for group of faculty and non-teaching staff at various levels for team building and experiential learning for effective group dynamics.
- 266 Non-teaching staff had undergone training within India

Quality updation/academic reforms

- BoS (Board of Studies meeting) for curriculum development for all the B.Tech and M.Tech programmes are conducted under TEQIP-II
- 6 UG programmes are NBA accredited under TEQIP-II.
- NBA accreditation applied for all the 19 PG programmes under TEQIP-II.
- Industrial workshops related to syllabus are conducted by industry personnel from reputed industries.
- MIS (Management Information System) of TEQIP-II supports the institutional database.
- MoU between National Institute of Technology, Tiruchirappalli and Indian Institute of Crop Processing Technology (IICPT) is signed

Activities under III Cell

8. Three industrial workshops (by reputed engineers from R&D industry) conducted for faculty and PG students

 NIT Tiruchirappalli received Best Industry Linked Institute Award 2015 - AICTE-CII Survey of Industry –Linked Technical Institutes among NIT/IIT/IIIT conducted under TEQIP-II

Based on the performance, NIT Trichy was sanctioned an additional grant of Rs.5.00 crore out of which Rs. 2.50 Crore was released in December, 2015 as first installment.

An amount of Rs.2.25 Crore has been earmarked for the procurement of equipments/books/software to the TEQIP sponsored M.Tech programmes. It was decided in the TEQIP Review meeting at MHRD/NPIU that all procurement activities under TEQIP II must be completed by April, 2016.

6. FUND UTILIZATION AND FINANCIAL STATUS (as on March 2016)

Amount Sanctioned `17.50 Crore

Amount received till date \ 15.00 Crore

Total Expenditure `12.80 Crore

NATIONAL SERVICE SCHEME (NSS)

- Total of 614 NSS Volunteers have been registered for the Year 2015-2016.
- On October 2, 2015 as a part of the Swachh Barat Campaign NITT –NSS joined hands to clean up our campus.
- The NSS (ECE Unit) cleaned up a dejected playground near Buhari Canteen. NSS members cleared paper, plastic, rubber, and glass waste lying on the floor and cleared out the weeds that had overgrown though out the park.





• NSS Production unit volunteers planned to clean the CEESAT ground post Festember.





- Mechanical NSS volunteers cleaned Garnet Hostel.
- NSS volunteers participated and assisted Steward Committee for the smooth conduct of Convocation 2015

Tree plantation and poster making activities at REC middle school have been carried out by NSS ICE and Civil units.





- Awareness programme on health & hygiene and pollution control were conducted
- Pulse polio awareness programme was conducted
- Spoken English and computer classes were conducted for high school students

INDUSTRY – INSTITUTE INTERACTION CELL

DETAILS	DETAILS OF GUEST LECTURES				
Sl.No.	DATE	DEPARTMENT	GUEST FACULTY	LECTURE TOPIC/AREA	
1.	24.03.2016	Instrumentation and Control Engineering	Mr. A.Gowthaman, Sr. Engineer, Maintenance Department (Instrumentation), Chennai petroleum Corporation Limited, Chennai	Instrumentation in petrochemical Industry.	
2.	20.03.2015 to 2.03.2015	Civil	Dr.J.Vasudevan, Associate Director, JACOBS-CES	Road Transport Management and Economics	
3.	Jan 2015 to April 2015	MME	Dr.S.Suresh, Former GM, WRI, BHEL	Lecture on Welding Processes and Welding Application Technology	
4.	Jan 2015 to April 2015	MME	Dr.Raja, Retired AGM, WRI, BHEL	Lecture on Welding Processes and Welding Application Technology	
5.	Jan 2015 to April 2015	MME	Dr. Ashok Kumar, AGM, WRI, Trichy	Lecture on Welding Processes and Welding Application Technology	
6.	Jan 2015 to April 2015	MME	Dr. Devakumaran, Senior Enigneer	Lecture on Welding Processes and Welding Application Technology	
7.	Jan 2015 to April 2015	MME	Mr. Krishnamoorthy, Former DGM, SAIL	Lecture on Welding Processes and Welding Application Technology	
8.	Jan 2015 to April 2015	MME	Dr.A.Venkataram, Former Professor, Pondicherry Engineering College, Pondicherry	Lecture on Welding Processes and Welding Application Technology	
9.	22.01.2015	Chemistry	Dr.A.Murugadoss, Experimental Research Officer, University of Birmingham, UK	Advanced nano structured materials with controlled atomic distribution: A new model system	

				for catalysis
10.	15.04.2015	Instrumentation and Control	L.A.E.Fernandez, AFMS, Control and	Industrial Instrumentation
		Engineering	Instrumentation, BHEL,Trichy	
11.	16.04.2015	Mechanical Engineering	Benny Thomas, scientist 'F', GTRE, Gearbox Division, Bangalore	Industrial Instrumentation
12.	20.04.2015	Computer Application	Mr.M.Sekar, Senior Commercial Manager, BHEL, Tricy	Creativity, Problem Solving & Preparing for the Interview
13.	17.04.2015	Chemistry	Dr.Dinesh Jagadeesan, Scientist, NCL, Pune	Sustainable Nanocatalysis
14.	10.02.2015	MME	Dr.S.Suresh, Formaer GM, WRI, BHEL, Trichy	MT616 – Welding Application Technology
15.	18.04.2015	MME	Dr.S.Suresh, Formaer GM, WRI, BHEL, Trichy	MT616 – Welding Application Technology
16.	09.03.2015	MME	Dr.S.Suresh, Formaer GM, WRI, BHEL, Trichy	MT616 – Welding Application Technology
17.	24.02.2015	MME	Dr.S.Suresh, Formaer GM, WRI, BHEL, Trichy	MT616 – Welding Application Technology
18.	17.03.2015	MME	Dr.S.Suresh, Formaer GM, WRI, BHEL, Trichy	MT616 – Welding Application Technology
19.	14.02.2015	MME	Dr.S.Suresh, Formaer GM, WRI, BHEL, Trichy	MT616 – Welding Application Technology
20.	11.02.2015	MME	Dr.S.Suresh, Formaer GM, WRI, BHEL, Trichy	MT616 – Welding Application Technology
21.	08.04.2015	Electronics and Communication Engineering	V.Srikrishnan, Silicon Architecture Engineer, Intel Technology India Pvt. Ltd., Bangalore	EC678 – Electronic Packaging
22.	08.04.2015	Electronics and Communication Engineering	Dr.C.Arun, Silicon Architecture Engineer, Intel Tech India Pvt. Ltd.	EC678 – Electronic Packaging
23.	27.05.2015	MME	Dr. Vaideswaran, Former SM, Plant Lab, BHEL, Trichy	MT606 – Welding Processes - II

24.	18.04.2015	Civil Engineering	Dr.Kurian Joseph,	CE713 –
			Professor, CES, Anna	Environmental
			University, Chennai	Impact Assessment
25.	19.04.2015 &	Civil Engineering	Dr.J.Vasudevan,	CE602 - Road
	20.04.2015		Associate Director,	Transport
			JACOBS-CES	Management and
2.5	25.04.2015	T	TT TT 11 0 1	Economics
26.	25.04.2015	Electrical and	K.Vinothkumar, Senior	EE604 – High
		Electronics	Scientist, ABB Global	Voltage Dc
		Engineering	Industries & Service	Transmission
27.	25.03.2015	Mechanical	Ltd, Chennai Dr.D.Santhosh Kumar,	ME606 –
27.	23.03.2013	Engineering	Senior Engineer, R&D	Computational Fluid
		Liigineering	Department, BHEL,	Dynamics
			Trichy	Dynamics
28.	19.03.2015 –	Energy	N.Murugan,	EN606 – Wind and
	09.04.2015	Engineering	DGM/SS,BS,RPD&TR	Hydro energy
			G/PR(FB), BHEL,	Systems
			Trichy	
29.	25.05.2015	Chemistry	Dr.Mandan	Invited Lecture.
			Chidambaram,	
			Scientist, Reliance	
			Industries Limited,	
20	27.0.201710.11		Vadodara, Gujarat.	3.577.55.5
30.	25-8-2015 to 19-11-	Mechanical	Dr.Jayanthi Jayaram,	ME655 –
	2015	Engineering	DGM/OHS BHEL,	Occupational Health
31.	25-8-2015 to 27-11-	Mechanical	Trichy Mr.Mahalingam, Sr.	and Hygiene ME655 –
31.	2015	Engineering	Manager, OHS(Retd)	Occupational Health
	2013	Engineering	Widnager, Orio(Reta)	and Hygiene
32.	1.10.2015 to	Mechanical	Mr.T.Bhaskar,	ME659 – Regulation
	23.11.2015	Engineering	AGM/HSE/BHEL,	for Health Safety and
			Trichy	Environment
33.	6.8.2015 to 22-	Mechanical	Dr.K.Muthukumar,	ME659 – Regulation
	11.2015	Engineering	Sr.DGM/Safety	for Health Safety and
		-	Management/BHEL,	Environment
			Trichy	
	13 sessions of 3		Ar.N.Bharathi,	AR112 – Basic &
34.	hours each	Architecture	Practicing Architect,	Architectural Design
31.	Academic year 2015-	111011110010110	Trichy	- II
	16		<u> </u>	
25	13 sessions of 3	A1. 14	Ar. M.Dhanasekaran,	AR214 –
35.	hours each	Architecture	Practicing Architect,	Architectural Design
			Thanjavur	- IV
	13 sessions of 3		Ar.Muthuraman,	AR312-
36.	hours each	Architecture	Practicing Architect,	Architectural Design – VI
	Hours each		Trichy	- V I

37.	13 sessions of 3 hours each	Architecture	Ar.Ramanathan, Practicing Architect, Trichy	AR414– Architectural Design – VII
38.	10 sessions of 3 hours each	Architecture	Ar.P.S.Gopal Practicing Architect, Thanjavur	AR352 – Advanced Computer Applications
39.	10 sessions of 3 hours each	Architecture	Er.Bhoopathy Srinivasan, Practicing Graphic Designer, Kumbakonam	AR354 – Interior Design
40.	10 sessions of 3 hours each	Architecture	Ar.G.Naveen, Practicing Civil Engineer	AR452 – Estimation & Specification
41.	30 sessions of 1 hours each	Architecture	Er.Arul Murugan, Practicing Civil Engineer	AR408 – Estimation & Specification
42.	30 sessions of 1 hours each	Architecture	Ar.R.Shobha, Architect, Chennai	AR504 – Construction Management
43.	12 sessions	Architecture	Ar.G.Naveen, Practicing Architect, Trichy	AR109 – Basic & Architectural Design – I (Section A)
44.	12 sessions	Architecture	Er.Bhoopathy Srinivasan, Practicing Graphic Designer, Kumbakonam	AR109 – Basic & Architectural Design – I (Section B)
45.	13 sessions	Architecture	Ar.S.Vidya Shankar, Practicing Architect, Kumbakonam	AR211 – Architectural Design – III (Section A)
46.	13 sessions	Architecture	Ar.M.Dhanasekaran, Practicing Architect, Thanjavur	AR211 – Architectural Design – III (Section B)
47.	10 sessions	Architecture	Ar.T.J.Eswaramoorthy, Practicing Architect, Thanjavur	AR311 - Architectural Design - V
48.	13 sessions	Architecture	Ar.A.Shanmugam, Practicing Architect, Trichy	AR505 - Architectural Design - VIII
49.	07 sessions	Architecture	Ar.S.Thangabaskar, Practicing Architect, Trichy	AR309 – Computer Applications in Architecture - II
50.	04 sessions	Architecture	Ar.P.S.Gopal, Practicing Architect, Thanjavur	AR309 – Computer Applications in Architecture - II
51.	06 sessions	Architecture	Ar.Bharathi Babu, Practicing Architect, Trichy	AR351 – Vernacular Architecture

52.	10 hours	Architecture	Ar.Kosalaraman, Practicing Architect, Chennai	AR501 – Professional Practice - I
53.	10 hours	Architecture	Ar.Kiriti Sahoo, TERI, Bangalore	AR551 – Energy Efficient Buildings
54.	09.09.2015 to 10.09.2015	EEE	Mr.V.Chandrasekar, Joint Director, Power Electronics Group, C- DAC, Thiruvanthapuram.	Design Techniques for SMPS
55.	13.08.2015	EEE	Mr.Samuthirapandi, Deputy General Manager, BHEL, Trichy	Deliver a speech
56.	04.09.2015 to 05.09.2015	Civil	Dr.M.S.Amarnath, Professor of Civil Engineering, Bangalore University.	CE613- Pavement Materials
57.	19.09.2015 to 21.09.2015	MME	Dr.P.Chakravarthy, Assistant Professor, Department of Aerospace Engineering, Indian Institute of Space Science and Technology, Trivandrum	MT094 – Aerospace Materials
58.	06.10.2015	Chemistry	Dr.P.Ramamurthy, Prof & Head, Director, NCUFP, Department of Inorganic Chemistry, University of Madras, Chennai	Delivering Invited lecture entitled "Acridinedione Dyes Fluorescence and Colorimetric Sensor"
59.	12.10.2015	Mechanical Engineering	M.Tharunkumar, HSE Engineer, Natinal Drilling Company, abu Dhabi, UAE	Safety in Engineering Industry.
60.	12.10. 2015	Civil Engineering	Dr.M.S.Amarnath, Professor, Bangalore University, Bangalore	CE613 – Pavement Materials
61.	01.10.2015	Instrumentation and Control Engineering	Dr.J.Arunshankar, Associate Professor, Department of Instrumentation and Control Systems Engineering, PSG College of Technology, Coimbatore	IC603 - Modern Control Engineering

62.	29.10.2015	Production Engineering	Dr.K.Muthukumar, DGM, Safety	Industrial Lecture
			Management, BHEL, Trichy	
63.	27.10.2015 – 30.10.2015	Mechanical Engineering	Dr.K.Ramamurthi, Visiting Professor, Department of Mechanical Engineering, IIT, Madras	Fire Engineering and Explosion Control
64.	13.10 2015- 14.10.2015	Mechanical Engineering	Dr.A.K.Ganguli, Occupational Health Center,(Redt), BHEL, Trichy	Occupational Health & Hygiene
65.	31.10.2015 & 01.11.2015	Electrical and Electronics Engineering	V.Chandrasekar, Joint Director, Power Electronics Group, C- DAC, Thiruvanathapuram	EE639 – Design Techniques for SMPS
66.	05.06.2015	Mechanical Engineering	Dr.M.Suriyanarayanan, Principal Scientist, CISRA, CLRI, Adyar, Chennai	ME653 – Safety Management
67.	27.11.2015	Chemistry	Dr.R.Raja Jeyaganthan, Alumni	Surface fictionalization for super hydrophobicity

DETA	ILS OF GUE	ST LECTURES		
Sl.No.	DATE	DEPARTMENT	GUEST FACULTY	LECTURE TOPIC/AREA
1.	17.11.2015	Civil Engineering	Dr.A.Veeraragavan, Professor, Department of Civil Engineering, IIT Madras.	CE613 – Pavement Materials
2.	16.11.2015	Civil Engineering	Dr.K.Sitaramanjaneyulu, head, Pavement Division, CRRI, New Delhi	CE613 – Pavement Materials
3.	16.11.2015	Civil Engineering	Dr.J.Vasudevan, Consultant, JACOBS CES (I) Pvt. Ltd, Chennai	CE613 – Pavement Materials
4.	14.11.2015	EEE	V.Chandrasekar, Joint Director, Power Electronics Group, C- DAC, Thiruvanathapuram	EE639 – Design Techniques for SMPS

5.	29/1/15 to 9.4.2015(12 hrs)	Architecture	Mr.Arul Murugan, Practicing Civil Engineer, Karaikal	AR408 – Estimation and Specification
6.	22.12.2015	Energy & Environment Engineering	Dr.R.Murugesan, IIT, SAIF	Energy
7.	21.12.2015	Energy & Environment Engineering	Dr.Lawrence, Sr.Manager, R & D, BHEL, Trichy	Energy
8.	22.12.2015	Energy & Environment Engineering	Mrs. K.Uma Maheswari, Associate Dean	Spectral analysis
9.	21.12.2015	Energy & Environment Engineering	A.Simon Justin, Research Scholor, Gandhi gram rural institute, Dindugal	TGA and DSC analysis
10.	23.12.2015	Chemistry	Dr.Gurunath Ramanathan, Professor, Department of Chemistry, IIT Kanpur	Invited Lecture
11.	09.01.2016	Civil Engineering	Dr.Kuran Joseph, Professor, Center for Environmental Studies, Anna University, Chennai	CE713 – Environmental Engineering
12.	20.11.2015	Energy & Environment Engineering	P.Selvakumaran, 11, 1 st cross, IAS nagar, Thiruverumbur, Trichy	Power Generation Technologies
13.	22.01.2016	Chemistry	Dr.S.Muthusubramaniam, Chair Professor, Department of Organic Chemistry, Madurai Kamaraj University, Madurai	2D NMR spectroscopic techniques
14.	27.01.2016	ICE	VSN .Murthy Arikapalli, Scientist G, DRDL, Hyderabad	B.Tech (ICE), M.Tech (PCI)
15.	29.01.2016	Production Engineering	Ms.Santhakumari, Senior Deputy General Manager, Welding Research Institute, BHEL, Trichy	PR314 – Industry Lectures
16.	02.02.2016 & 03.02.2016	ICE	Dr. Arunkumar Paul, Research Head, Electronic Devices Pvt. Ltd, Mumbai	Sliding mode control and its applications
17.	04.02.2016	CSE	Dr. Jey Veerasamy, Director, Center for CS Education & Outreach university of Texas at	CS346 – Industrial Lecture

			Dallas	
18.	09.02.2016	Production Engineering	Mr.S.Ramani Balaji, Deputy Manager – Projects, Rane TRW Steering Systems, Viralimalai	PR314 – Industry Lectures
19.	26.11.2015	CSE	A.Raghunath, SDGM, BHEL, Trichy	Cloud Computing
20.	18.11.2015	Mechanical Engineering	Dr.P.R.Sudhakar, Sr. Reginonal Director Safety (Retd), Chennai	Technical presentation on "E-Powerment
21.	18.11.2015	Mechanical Engineering	P.Jeyajothiraj, Scientist/Engineer 'G', Vikram Sarbhai Space Centre, Thiruvananthapuram	Acoustics, Aero acoustics and their Role in launch vehicle design.
22.	20.11.2015	Mechanical Engineering	Dr.R.Jaganathan, Adjunct Faculty, 75/30, S.P.Sannadhi First Street, Royapettiah, Chennai- 600014	Dimensional analysis for auto components
23.	20.11.2015	Mechanical Engineering	Dr.T.S.Balasubramanian, Scientist 'G' (Retd), C.V.R.D.E, Ex Dean (Research), Sareetha University	System Engineering – An Integrated approach to complex projects.
24.	20.11.2015	Mechanical Engineering	Savio Sebastian, 301 Navaratna Apartments, 3 rd Main Road, HAL 3 rd Street, Bangalore – 75	Measurement Uncertainty.
25.	19.11.2015	Mechanical Engineering	P.Jayakumar, #21, 8 th cross street, ISRO layouts, Bangalore.	Adjunct fealty, Machining of titanium alloy.
26.	19.11.2015	MME	Dr.M.Velan, Chief Manager, NLC	Metallurgical failure analysis of pressure parts of a lights fired.
27.	19.11.2015	MME	Dr.R.Vaideeswaran, Senior Manager (Retd), BHEL, Trichy	Effect on alloying elements in metals.
28.	19.11.2015	MME	Dr.K.Asok kumar, Asst.GM, BHEL (WTC&TE), Trichy	Fundamentals of solid phase welding.
29.	20.11.2015	MME	Mr.R.Srinivasan, Member Secretary, MTD, Burean of Indian Standards.	Expertise gained in the metallurgical field.

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30.	20.11.2015	MME	Dr. Suresh Srinivasan, General Manager (Retd.), BHEL, Trichy	Metallurgical & Mechanical effects of welding.
31.	20.11.2015	MME	Dr. Gaya Prasad, GM SMS, Adhuniu Metallic Ltd. Bhilai steel, Dish Dury.	Corrosion in steel.
32.	19.11.2015	Production Engineering	Dr.A.Raja, No.12, Rohini Vasthugraman Road (west), Srirangam, Trichy	Advanced Technologies in Welding
33.	19.11.2015	Production Engineering	N.Jagadeesan, Flat No. 10, Sangeetha Apartments, No. 33, South Beach, T.Nagar, Chennai - 600017	POM – Change Management.
34.	16.11.2015	Chemistry	Dr.K.Natarajan, Former Emeritus Scientist (CSIR), Department of Chemistry, Bharthiar University, Coimbatore.	Special lecture
35.	18.11.2015	Chemistry	Dr.R.Balachandran, Deputy General Manager (Retd.), BHEL, Bangalore	Thermodynamics
36.	19.11.2015	Chemistry	Dr.Balasubramanian Gopalan, CSO, Executive Director, Orchid Chems Pharam Ltd	Medicinal Chemistry
37.	20.11.2015	Chemistry	Dr.Subramoney Narayana Moorthy, 18 B, Gowri Nagar, Pongumoodu Medical College Post, Trivandrum - 6950112	Starch Structure, Properties & Applications.
38.	20.11.2015	Chemistry	Dr.S.Kumaresan, H – 100, Thamirapathy colony, Thiyagayaraya Tirunelvel – 627001	Umpolung Synthesis.
39.	24.11.2015	Chemistry	Dr.P.Venuvanalingam, Emeritus Scientist School of Chemistry, Bharathudasan University, Trichy.	Computational Chemistry – An overview
40.	26.11.2015	Chemistry	Dr.M.Palaniandavar, Distinguished visiting professor, Department of Chemistry, IITB, Powai, Mumbai - 400076	Structure and Function of Metals

			Dr.R.Nageswara Rao,	Character and his	
41.	24.11.2015	Chemistry	Chief Scientist, CSIR – Indian Institute of	Chxomatographic Technical's in	
		·	Chemical Technology	Chemical Research.	
			(IICT), Hyderabad. Dr.P.Subramanian,	Cathodicproteclium	
42.	20.11.2015	Chemical Engineering	Former Chief Scientist,	to Prevent Common	
			CECRI, Karaikal Dr.N.M.Athivanan,	in pipe line	
12	16.11.2015	ICE	Professor (Retd.), M.K.	Visiting Faculty	
43.	10.11.2013	ICE	University Madurai,	Interview	
			5/707 Madurai S.Dharmalingam, Former	Triving To the	
44.	16.11.2015	ICE	General Manager, BHEL,	Visiting Faculty Interview	
			Trichy		
45.	23.03.2015	Humanities	Dr.G.Murugan, 84F New Delhi	Sustainable Development	
			R.Shanmugam, Executive	T T	
46.	01.12.2015	Civil Engineering	Engineer (Redt), 17	Irrigation	
			Marhasmankovil street, old saram, Puducherry	Management	
			Dr.J.Vasudevan, Sreerag		
47	14.12.2015	Civil Engineering	Apartments, Flat 2, AK110, 7 th Main Road,	National Road Safety	
17.	11.12.2013	Civii Engineering	Anna Nagar, Chennai –	Policy	
			600040	Cional Duogassing on	
40	02 12 2015	Electronics and	T.N.Ruckmongathan,	Signal Processing on Display Devices for	
48.	03.12.2015	Communication Engineering	Raman Research Institute, Bangalore	60 mins.	
		Electronics and			
49.	16.12.2015	Communication	Dr.S.Madivaanan, Chennai	Defense Electronic Systems.	
		Engineering	Mrs.Manimozhi, Senior	Systems.	
		Chamical	Manager – Process,	Multi Cample	
50.	13.02.2016	Chemical Engineering	Petrofact India Pvt Ltd,	Multi Complex Distribution	
			Manapakkam, Chennai - 600089	Distribution	
			Mr.A.Ramasubramanian,	Thermal Design of	
51.	13.02.2016	Chemical Engineering	JGM, Chennai Process Head, Technip India Pvt	Shell and Tube Heat	
		Ziigiiicomig	Ltd, Chennai	Exchangers	
52.	09.02.2016	Computer Science	Dr.A.Rgahunathan, SR-	CS346 – Industrial	
52.	U).U2.2010	and Engineering	DGM, BHEL, Trichy	Lecture	

INDUSTRY-CONSULTANCY AND SPONSORED RESEARCH

1. Details of Sponsored Projects (April 2015 – March 2016)

Sl. No	Principal Investigator	Dept	Project Title	Sanctioned Amount	Funding Agency	Duration	Status	Total Budjet
1	Dr.S.Suresh	MECH	Experiment Heat Sink Coated with Vertically Aligned CNT and Metal Nanowires	3129000	DST_SE RB	3 YEARS	Ongoi ng	4512200
2	Dr.S.Suresh	MECH	Miniaturised compact solar concentrators for water desalination/purifica tion	693000	DST_IN T_UK	3 YEARS	Ongoi ng	1386000
3	Dr.G.Swami nathan	CEESA T	Methodologies for Safe Disposal of Missile Canister after Firing Under graduate Steel		Ongoi ng	500000		
4	DrSivaprasa d	MME	Under graduate Steel Scholarships for 2nd and 3rd years	1800000	JPC		Ongoi ng	1800000
5	Dr.S.Ananda n	СНҮ	Medium Band Gap Donor-Acceptor Conjugated Polymers towards fabrication of Bulk Heterojunction Solar cells	2600000	SERB	3 YEARS	Ongoi ng	4003200
6	Dr.S.Ananda n	СНҮ	Experimental and Theoretical aspects of sonochemical effects in food emulsions	1034800	DST_IN T_RUS	3 YEARS	Ongoi ng	2069600
7	Dr.B.Venkat aramani	ECE	Special Manpower Development Programme for Chips to System Design	10000 CEEKI		Ongoi ng	150000	
8	Dr.S.Kumara n	MME	Development of Ultra Fine Grained Super High Strengh Aluminium alloys (7XXX series) by Cryo Rolling	1390000	ISRO(RE SPOND)	3 YEARS	Ongoi ng	2000500

9	Ms.Sheela Priya	MBA	Stock price trend prediction: Comparative analysis in the classification of artificial neural network models based on Bayesian regularization with benchmark model arima	100000	ICSSR	2 YEARS	Ongoi ng	207000
10	Dr.S.Senthil Kumar	EEE	Dynamic Loadig of conveyor Drive Heads in Mines A18750 NLC		Ongoi ng	3098000		
11	Dr.S.Muthuk kumaran	MME	Friction Stir Welding (FSW) of Aluminium alloys for Aerospace Applications	1050000	ISRO(RE SPOND)	3 YEARS	Ongoi ng	2193000
12	Dr.S.Suresh	МЕСН	Experimental investigation on heat transfer characteristics of hybrid PCM in thermal storage system (TES) for solar applications	4259200	DST_TM _SERI	3 YEARS	Ongoi ng	6337600
13	Dr.Ramakaly an Ayyagari	ICE	De-congesting India's Transportation networks using mobile devices	2180000	DEITY- MLA	5 YEARS	Ongoi ng	
14	Dr.S.Kumara n	MME	Development nano- structured magnesium silicide thermo-electric materials by spark plasma sintering and evaluation of electric power generation from thermal systems	1200000	DST_NA NO	3 YEARS	Ongoi ng	2538200
15	Dr.B.Venkat aramani	ECE	Visvesvaraya PhD Scheme for Electronics and IT PHASE II	4062500	DEITY_ MLA II	5 YEARS	Ongoi ng	8357500

16	Dr.R.Anand	МЕСН	Experimental Investigation on dual Fuel Engine using Compressed Natural Gas and Pyrolysis waste engine oil	3150000	SERB	4 YEARS	Ongoi ng	5034000
17	Dr.Ramkalya n Ayyagiri	ICE	Model Driven Engineering for Integration Industrial Automation Systems with Application to Water Networks [Scope ABB GISPL shall provide scholarship to a max. 2 Research Scholars]	495900	ABB_GL OBAL	5 YEARS	Ongoi ng	495900
18	Dr.Shima P Damodaran	СНҮ	Innovation in Science Pursuit for Inspired Research	1900000	DST- INSPIRE	5 YEARS	Ongoi ng	1900000
19	Dr. Seenuvasan Vedachalam	СНҮ	Innovation in Science Pursuit for Inspired Research	1900000	DST- INSPIRE	5 YEARS	Ongoi ng	1900000
20	Vikram Kumar Suresh Jain	MME	Inspire Fellowship	380000	DST- INSPIRE	5 YEARS	Ongoi ng	380000
21	K Shalini	PHY	Inspire Fellowship	380000	DST- INSPIRE	5 YEARS	Ongoi ng	380000
22	Dr.R.Anand	МЕСН	Production of Biodiesel from Non- Edible Aegle marmelos Correa oil and its Use in Diesel Engine	1672000	SERB- YSS	3 YEARS	Ongoi ng	2936000
23	Dr.S.Kumara n	MME	Mechano-chemical Synthesis of Nanostructured Magnesium Silicide Thermo-electric Materials by Spark Plasma Sintering	158000	CSIR	3 YEARS	Ongoi ng	-
24	Dr.P.Sathiya	PROD	A Comparative study on the weldability of high strength aluminium- magnesium alloy (AA-5083)	2870000	SERB	4 YEARS	Ongoi ng	4909080

25	Dr.S.P.Sivapi rakasam & Dr.K.R.Balas ubramanian	МЕСН	Experimental Investigation of Impact Initation of Sound / Light Emitting Pyrotechnic Compositions	1904170	DRDO - ARM	3 YEARS	Ongoi ng	3218390
26	Dr.S.Lakshm i Prabha	CA	Fellowship 416000 NBHM YEARS		Ongoi ng			
27	Dr.S.Prasann a Venkatesan	PROD	Investigation on E- waste flow assessment and collection stratagies for a Sustainable and Economic e-waste value chain Design in India	820000	SERB	3 YEARS	Ongoi ng	1636000
28	Dr.S.Kumara n	SERB	Development of Nano-oxide dispersion strengthened ferritic / martenistic steels by spark plasma sintering and study their high temperature properties	1490000	SERB	4 YEARS	Ongoi ng	3544200
					Total Fun	d Released	in Year	4180332 0

2. MoU (Memorandum of Understandings) during 2015-2016

Sl.	Name of the	Initiating	Scope of Activities	Effect	Status	End Date	Rema
No	Partner	Faculty		Date			rks
1.	Sri Kavery Medical Centre, Trichy		Long term and short term exchanges of faculty students and staff for purpose of teaching and research.	15.04.2015	Active	15.04.2019	MoU
2.	Central Coir Research Institute, Kalavoor (*Revised)	Dr.Samso n Mathew		01.04.2015	Active	01.04.2017	MoU

3.	Bharat Heavy Electricals Limited	Dr.G.Kan nabiran, Professor	KM Process Benchmarking and Strategy formulation for values.	30.09.2015	Active		MoU
4.	Pepsico	The Director, NIT-T	Guest lectures, Research projects, Internships, Placements	15.10.2015	Active		MoU
5.	ABB Global Industries Private Limited, Bangalore	Dr.Ramk alyan Ayyagiri,	To provide scholarships for research scholars.	21.05.2015	Active	21.05.2020	Agree ment
6.	Robert Bosch Engineering and Business Solution Private Limited (RBEI), Bangalore	Dr.Ramk alyan Ayyagiri,	Algorithms development in Robotics application	28.10.2015	Active	28.10.2020	Non Disclo sureA greem ent
7.	Tata Consultancy Services		Exploring the areas of cooperation, benefiting both NIT and TCS	08.08.2016	Active	08.08.2018	MoU
8.	D'GIPRO SYSTEMS PRIVATE LTD & CENTRE FOR LAND WARFARE STUDIES & I-Scholar Education Services Pvt ltd, Bangalore		Collaboration for conduct of training programme short term certificate program in defence acquisition and technology utilisation management.	08.08.2016	Active	08.08.2018	MoU

3. Details of Consultancy Works during 2015-2016

Sl. No	Proj. No	Year	Project	Funding Agency	Project Investigato r	Dept	Designa tion	Amount Sanctio ned	Status
	C001	2015- 16	Vetting of Structural Design Parameter Detailed Design Calculations and Drawing for the Infrastructure and Facilities at Indian Naval Academy (Phase-II)	INA	Dr.K.Baskar	CIV	Associat e Professo	513000	
2	C002	2015-	Ezhimala, Kerala Soil Investigation Work for the proposed School Buildings at BHEL Township and Sri Paramahamsa BHEL Nursery & Primary School at Kattur, Trichy	BHEL	Dr.K.Muthu kumaran	CIV	Associat e Professo	529200	Ongoing
3	C003	2015- 16	Study on carbon sequestration capability of various microalgal species in the actual flue gas	BHEL	Dr.M.Prema	CEES AT	Associat e Professo r	475283	Ongoing
4	C008	2015- 16	Development of Surface Modification Technique to Improve the life of ID fan Blades	BHEL	Dr.M.Durai Selvam	PRO	Associat e Professo r	320670	Ongoing
5	C009	2015- 16	KM Process benchmarking and strategy	BHEL	Dr.G.Kanna biran	MBA	Professo r	207000	Ongoing

	C001	2015-	Soil investigation works at GAIL Adaikamangala	CAH	Dr.K.Muthu	CIV	Associat e Professo	70000	
6	0	16	m site	GAIL	kumaran	CIV	r	70000	Ongoing
			Development of						
			Thermal Interfce						
			Material (TIM)						
			for				Associat		
			Thermoelectric				e		
	C001	2015-	Generator (TEG)		Dr.M.Durai		Professo		
7	1	16	Sytem	BHEL	Selvam	PRO	r	1504447	Ongoing

CENTRE FOR ENTREPRENEURSHIP DEVELOPMENT AND INCUBATION (CEDI)

1. Awards for the Institute:

NITT won national level **High Impact Entrepreneurship Campus** award for the institution in March 2015. The award was conferred by National Entrepreneurship Network in collaboration with Ministry of Skills Development and Entrepreneurship, Government of India.



2. Industry Funding For CEDI:



CEDI NIT Trichy and Sonata Software in April 2015 announced a partnership to promote student innovation and entrepreneurship. This event focuses on continuing Sonata's support for innovation and fostering close link between industry and academia. In addition to technical and managerial support, Sonata has committed significant

funding to the extent of Rs 105 Lakhs for three years beginning 2014-15 to CEDI NIT Trichy to support technology business incubation and promotion of innovation and entrepreneurship.

3. Major Project Completed:



Business and Management Capacity Development of Rural Women Entrepreneurs of India and Sri Lanka funded (US \$ 55,000) by The Asia Foundation with support from the U.S.

Department of State. The project is being implemented in partnership with University of Jaffna and South Eastern University of Sri Lanka. These are achieved in collaboration with the networking partner, Women Entrepreneurs' Association of Tamil Nadu. The project focused on a 10-month long mentoring programme for 60 select rural women entrepreneurs in India areas including Marketing, financial management, quality management, distribution, etc. It is envisaged that the mentoring programme would help these women to move to next level of growth.

4. Collaboration with EDI Ahmedabad



Established a meaningful collaboration with **Entrepreneurship Development Institute, Ahmedabad.** I have led the efforts to conduct **EDP** for potential graduates by CEDI. CEDI is also the **Nodal centre for EDI's** PG Diploma in **Entrepreneurship & Business management.**

5. Conference Organized

Conference on **Women Entrepreneurship Ecosystem - Present & Future** was organized on 27.10.2015 at Trichy. More than 100 Women entrepreneurs, Development professionals, renowned Faculty members of prestigious institutions from India and Sri Lanka, Policy makers participated in the conference. The Vice Chancellor of **University of Jaffna** was the Chief Guest. Vice chancellor of **South Eastern university of Sri Lanka**, **National Entrepreneurship Network** were special invitees who attended the conference. The mentors identified for each group of women entrepreneurs mentored under the mentoring programme made presentation on each of the activities completed in the mentoring programme and future prospects.

Architecture Chemical Civil **Computer Science and Engineering Electrical and Electronics Electronics and Communitation Instrumentation and Control** Mechanical **Metallurgical and Materials Production** Chemistry **Computer Applications Energy and Environment Humanities Management Studies Mathematics Physics**

