St. Joseph's College of Engineering
Chennai - 600 119.

Perspective Plan and Deployment Documents

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2	Research Publications	4
3	Research Projects Received	31
4	Value added courses offered to students	34
5	In-plant Training	40
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PERSPECTIVE PLAN

Following is the perspective plan of the college

1. **Enhancing the quality of Teaching – Learning Process**
2. **Promotion of research among staff and student**
3. **Talent acquisition and retention**
4. **Quality Assurance Measures**
5. **Improving Entrepreneurship Development and Industry – Institute – Interaction**
6. **Placement and Training Activities**

The details are as follows:

1. **Enhancing the quality of Teaching – Learning**
   - ✓ To provide more student-centric teaching – learning methodology
   - ✓ Up-gradation of skills of staff through, FDP, QIP, web learning through NPTEL, etc
   - ✓ Creating infrastructure to use modern teaching aid
   - ✓ Industry interface through summer internship
   - ✓ Undertaking field project with participation from the industry
2. **Promotion of Research among staff and students**
   - ✓ Providing platform to the faculty and students for R & D activities
   - ✓ Encouraging faculty members to undertake research work and research publication in a reputed journal, conferences, etc
   - ✓ Encouraging & motivating students to attend conferences, workshops, undertake the project of research orientation, publish their research/review papers, etc
   - ✓ Inviting experts and eminent person on research committee for evaluating progress of research activities is in various departments.
   - ✓ Taking efforts to undertake sponsored research project
3. **Talent Acquisition and Retention**

   - ✓ Providing a transparent recruitment and selection process.
   - ✓ Providing career growth prospects
   - ✓ Having a transparent promotion policy
   - ✓ Effective Welfare measures for teaching and non teaching staff
4. **Quality Assurance Measures**

   - ✓ Accreditation of all the courses
   - ✓ Participating in NIRF
   - ✓ Quality improvement through   Internal Quality Assurance Cell (IQAC)

5. Improving Entrepreneurship Development Industry-Institution Interaction

- ✓ Providing an eco system for startups
- ✓ Organizing entrepreneurship awareness programmes for students
- ✓ Providing platform to the students to undertake internship in related industries
- ✓ Providing skill based training to the student.
- ✓ Signing MoU with organization/corporate/industry to exchange the knowledge and expertise in related program of engineering

6. Placement and Training Activities

- ✓ To enable students to be industry ready
- ✓ To achieve maximum placements
- ✓ To develop the overall personality of the students

Research P0075blications

Department of Mathematics:

Sl. No.	Publication details
1.	V. Vallinayagam, "A Fuzzy Neural System for water quality prediction", International review of Fuzzy Mathematics, Vol 12, No.1, pp.98-111, June 2017, (Online ISSN : 0973-4392)
2.	K. Sasikala,"Primitivity on Partial arrays", International Journal of Pure and Applied Mathematics, Vol.113, No.10, pp.138-147, 2017, (Print ISSN: 1311-8080, Online ISSN: 1314-3395)
3.	B. Shoba, "Bi-Magic Labelings of the Graphs Wn* Sk , Wn* 2Sk , and Wn* nP2",Global Journal of Pure and Applied Mathematics, Vol. 13, No. 5, pp. 1337-1345, 2017,(Print ISSN: 0973-1767, Online ISSN : 0973-9750)
4.	U. Venkateswara, "Integrating CLIL With CLT To Develop Speaking Skills In The Engineering Classroom", ARTESOLESP E-journal, Volume 7, No.1, pp.44-53, August 2017, (Online ISSN: 1853-7693)
5.	B. Shoba,"Super Magic and Arithmetic Labelings of the Graphs P3 Pn AND C3 C2n",Global Journal of Pure and Applied Mathematics, Vol. 13, No. 5, pp. 1365-1374, 2017, (Print ISSN: 0973-1767, Online ISSN : 0973-9750)
6.	R. Subramani,"Implementation of non-linear multi objective optimization for energy management systems", Global Journal of Engineering Science and Research Management, Vol.4,No.7, pp. 35-43, July 2017, Online ISSN 2349-4506
7.	R. Subramani,"Multi-objective optimization algorithms and performance test functions for energy efficiency : review ", International Journal of engineering sciences & research Technology, Vol.6,No.10,pp.39-52, October 2017. (Online ISSN: 2277-9655)
8.	R. Subramani,"Design and Analysis of Lagrangian Algorithm for Power Flow system using Renewable Energy Resources", Indonesian Journal of Electrical Engineering and Computer Science, Vol. 7, No.2, pp. 348 - 355, 2017, (Online ISSN:2502-4752, DOI: 10.11591/ijeecs.v7.i2.pp348-355
9.	R. Subramani,"Optimization in Distributed generation using Renewable Energy Resources - Review", International Journal of Research Science & Management, Vol.4, No.11, pp.39-43, 2017, (Online ISSN:2349-5197)
10.	R. Subramani, "Solution Approaches for unit commitment Problems - An Analysis", International Journal of Engineering Sciences &Research Technology,Vol.6, No.12, pp.326-333, 2017, . (Online ISSN: 2277-9655)
11.	G.Venkat Narayanan,"Simple Graphoidal covering number on Digraphs", International Journal of Pure and Applied Mathematics,Vol. 118 No. 2, March 2018, 239-253, doi: 10.12732/ijpam.v118i2.10
12.	M.Saravanan,"Concept of integrity and its value fuzzy graphs", Journal of Intelligent and Fuzzy System, Vol. 34 , 2429-2439, (Print ISSN : 1064-1246,, Online ISSN:1875-8967). DOI:10.3233/JIFS-171685
13.	K.S.Sudhakhar,"Generation and Scheduling through particle swarm optimization and Lagrangian relaxation", International Journal of Current Engineering and Scientific Research,Vol.5, No.3, 11-23,March 2018. (Print ISSN:2393-8374, Online ISSN:2394-0697)

Department of Computer Science and Engineering :

Sl. No.	Publication details
1.	B Dhanalakshmi, A Chandrasekar, "Analyzing Student's Performance Using Efficient Opinion Mining and Ranking Method with Machine Learning Techniques", Journal of Computational and Theoretical Nanoscience, 2018, vol 15, no. 2, pp .480-484
2.	R Balamurali, A Chandrasekar," Multiple parameter algorithm approach for adult image identification", Cluster Computing, 2018, pp. 1-9.
3.	B Dhanalakshmi, A Chandrasekar,"Optimal neural network to enhance classification accuracy for mining online reviews and opinions using improved PSO", International Journal of Networking and Virtual Organization, 2018, Vol 18, No. 4, pp. 338 - 356
4.	R Kingsly Stephen, A Chandra Sekar, K Dinakaran, "Sectional Transmission analysis approach for improved reliable transmission and secure routing in wireless sensor networks", Cluster Computing, 2018, pp. 1- 12.
5.	Sheryl Oliver A, Anuradha M,, Jean Justus J,, MaheshwariN,"Optimized low computational algorithm for elderly fall detection based on machine learning techniques.", Biomedical Research, November 2018, S36-S43,0970-938X
6.	Anuradha M, Sheryl Oliver A,, Jean Justus J,Maheswari N,"IOT based monitoring system to detect the ECG of soldiers using GPS and GPRS." Biomedical Research, November 2018, S36-S43,0970-938X
7.	Dhanalakshmi.B and Chandrasekar A. (2017), 'Clustering Based Text Summarization on Comments from Hotel Services Using IncreSTS Algorithm', Journal of Computational and Theoretical Nano science, Vol. 14, Issue.9 pp. 4496–4501. DOI:10.1166/jctn.2017.6766.
8.	Sudha Rajeshand Chandrasekar A., (2017), "Esteemed Software Patterns for Banking System" has been accepted for publication in Cluster Computing.
9.	S. Sengole Merlin and A. Chandrasekar (2017),'Towards Mobile Cloud Authentication and Gait based security Using Time Warping Technique", Cluster Computing-The Journal Of Networks Software Tools And Applications , DOI 10.1007/s10586-017-1136-5
10.	J. JebaJohannah, ReebaKorah, G. Maria Kalavathy, Sivanandham,"Standby and dynamic power inimization using enhanced hybrid power gating structure for deep-submicron CMOS VLSI", Microelectronics Journal, Elsevier, March 2017, 0026-2692, Vol. 62, pp. 137-145
11.	N. Sivarajan, Reeba Korah, G. Maria Kalavathy,"Relaxation rate and polarization charge density model for AlN/ AlNheterostructures", Turkish Journal of Electrical Engineering and Computer Sciences , Jan 2017,1300-0632,Vol. 25, No. 4, pp. 3468-3474
12.	D. Manohari, "Fault tolerant topology control with mobility prediction in MANETs for clinical care data transmission", Biomedical Research, January 2017, S36-S43,0970-938X
13.	D. Rosy Salomi Victoria, "Optimized Cooperative and Random Schedulings Packet Transmissions and Comparison of their Parameters"Wireless Personal Communications , SEP 2017 , 0929-6212.

14.	Dr. J Ramya,"A Comparison of Intelligent Soft Computing Techniques for Forecasting Earnings Per Share", International Journal of Pure and Applied Mathematics, Sep 2017, Vol. 114, No. 9
15.	K. Bala, S. Jothi, A. Chandrasekar , "An enhanced intrusion detection system for mobile ad-hoc network based on traffic analysis", Cluster Computing, Mar 2018, pp. 1-8.
16.	R Yuvaraj, A Chandrasekar, S Jothi, "Time orient LEAD based polling point selection algorithm for efficient data aggregation in wireless sensor networks , Cluster Computing, Mar 2018.
17.	Frederick Swartz Daniel D , Mohamed Junaid K.A Jaison B , Anita Rose J.T, , "Dynamic association and participant based adaptive streaming in small base station for live video conference on 5G networks", Transcations on Emerging Telecommunications Technology,,pp. 1-19
18.	Shanthini. S, "Virtual Keyboard Security System for Automated Teller Machine, "International Journal of Engineering and Technology, 2018, Vol 7, No. 2. PP. 59-63
19.	K.Vijayalakshmi and J.M.L. Manikkam , "A Cluster based mobile data gathering using SDMA and PSO techniques in WSN", Cluster Computing, 2018
20.	K.Vijayalakshmi," Mobile data gathering using PSO and minimum covering spanning tree clustered WSN", Mobile Network Design and Innovation, Vol. 8, No. 2.PP. 101-110., 2018
21.	Mercy Paul Selvan ; A. Chandra Sekar, "Ranking scientific journals based on research author's profile", 2016, International Conference on Control, Instrumentation, Communication and Computational Technologies (ICCICCT)
22.	Sneha, Sri R,A.Sheryl Oliver,S.Shanthini,"Detection of Hook worm infection in the wireless capsule Endoscopy Images",IEEE International Conference on Electrical Instrumentation and Communication Engineering April 2017,M.Kumaraswamy College of Engineeing, Karur,
23.	Sneha, Sri R,A.Sheryl Oliver,S.Shanthini,"Detection of Hook worm infection in the wireless capsule Endoscopy Images",IEEE International Conference on Electrical Instrumentation and Communication Engineering April 2017,M.Kumaraswamy College of Engineeing,Karur,
24.	Nivetha, J.Jean Justus, "A Secure Erasure Cloud Storage System using Advanced Encryption Standard Algorithm & Proxy Re-encryption", 7th IEEE International Conference on Communication and Signal Processing, Organized by Adhiparasakthi Engineering College, Melmaruvathur, Sponsored by IEEE, April 2018
25.	G. Murugesan,RosarioGilmary ,"Compression of text files using genomic code compression algorithm", International Journal Engineering and Technology, 2018, Vol 7, No. 2.
26.	P J Leo Evens, Jennings MC Enroe S, A.PrabhuChakkaravarthy "Dynamic Face Recognition and Tracking System using Machine Learning in MATLAB and BIGDATA", International Conference on Advanced Research in Engineering and Applied Sciences, March 2017

Sl. No.	Publication details
27.	R Kingsly Stephen, A Chandra Sekar, K Dinakaran, "Sectional Transmission analysis approach for improved reliable transmission and secure routing in wireless sensor networks", Cluster Computing, 2018, pp. 1- 12.

Department of Civil Engineering :

Sl. No.	Publication details
1.	S.ThangaPerumal, Devendran.G, ArunKumar.T "Land use change analysis using remote sensing technique in shollinganallurchennai India" on International Journal of Civil Engineering and Technology Volume 9, Issues 4, April 2018.
2.	Adlin Rose R, Kishore Kumar N S, Raja S published a paper on Engineering Behavior of Dredged Soil with Precipitated Silica, Silicon, 5th July, 2018. Silicon (2018). ISSN 1876-990X. https://doi.org/10.1007/s12633-018-9942-9

Master of Business Administration :

Sl. No.	Publication details
1.	Priya Sethuraman,"An Empirical Study on Consumer Attitude and Intention towards online Shopping, International Journal of Business Innovation and Research, Vol:18 Issue: 2, Jan 2019, ISSN-17510252.
2.	M. Manikandan and Sukanya Premkumar, "Green Banking: A path to Sustainable Development in Indian Banking Sector", Shanlax International Journal of Management, March 2018, Vol 5, Special Issue3,2018,2321-4643
3.	U. Abirami and .Jayasree Krishnan, "Attitude towards celebrity endorsement – a case study of adolescent students using personal care products' International Journal of Business Excellence, Vol. 14, No. 1 (2018) pp. 1 – 17
4.	Suresh and Jawaharrani" A study on brand Consumer Brand awareness about Global brand versus Indian apparels brands in Chennai city" International journal of Management and Management science research review, Review Vol.1. Issue.36, Jun 2017, E- ISSN-2349-6746 ISSN-2349-6738: PP-198-200
5.	C. Sonia, Jayasree Krishnan, "An investegation on teachers Competencies on Job Performances," International Journal of Research and Development (IJRD) , Volume 2 Issue 9,September2017.
6.	Suresh and Jawaharrani "Brand preference towards Global brands versus Indian brand in Chennai City" International Journal of Business Administration Review Vol.2. Issue.18, Apr-Jun 2017, E- ISSN-2347-856X ISSN-2348-0653PP-85-88
7.	Nirmala and Jawahar Rani Consumers online shopping attitudes in Chennai City; B-Digest International journal of Commerce and Management Consumers online shopping attitudes in Chennai City; B-Digest International journal of Commerce and Management

Sl. No.	
8.	G Aiswarya, Jayasree Krishnan, "A measure of shopping behaviour: Scale development and preliminary validation IEEE International Conference on Innovative Mechanisms for Industry Applications, ICIMIA 2017Proceedings
9.	K. Pushpa, Jayasree Krishnan (March2017)Effect of Quality of Worklife and Job satisfaction on Productivity Among Women Employees in IT Sector International Journal of Multidisciplinary Research(IJMR), Volume 3, Issue 3 March 2017.
10.	U. Abirami and Jayasree Krishnan 2017, 'Attitude towards celebrity endorsement – a case study of adolescent students using personal care products' International Journal of Business Excellence, Vol. 14, No. 1 (2018) pp. 1 – 17.

Department of Instrumentation and Control :

Sl. No.	Publication details
1.	R. Reshmi, J. Gnanasoundharam, R. Kotteeswaran, "Design of Self-Tuning Regulator for Non-Linear Unstable System", International Journal of Pure and Applied Mathematics, Vol 118, No. 20, pp. 61-66, 2018, ISSN 1311-8080 (PRINT), 1314-3395 (ON-LINE),
2.	A. Sophia Mary, R. Kotteeswaran and C. Pandeeswaran, "Design of Wireless Sensor Network Protocol Using CONTIKI OS", International Journal of Pure and Applied Mathematics, Vol. 118 No. 18, pp. 4671-4678, 2018, ISSN 1311-8080 (PRINT), 1314-3395 (ON-LINE)
3.	T. Senthamizh Elakkiya, S.S.Harish, "FPGA Implementation of high performance and low power FIR filter design using rounding based approximate multiplier", International Journal of pure and applied mathematics, vol-119, issue-4, pp-1613-1622, 2018, ISSN: 13118080.
4.	J. Ramyashree, MR. Roja, G. Sivagurunathan, R. Kotteeswaran. "Firefly Algorithm Based Multivariable PID Controller Design for MIMO Process," International Journal of Engineering and Technology(UAE), Vol.7, pp.41-44, 2018.
5.	K. Muthukumaran, and K. Chitra and C. Selvakumar, "An energy efficient clustering scheme using multilevel routing for wireless sensor network", Computers and Electrical Engineering,Vol.69, 2018, pp 642–652.
6.	L.R.Swathika, V. Vijaya, "Tunable methods of PID controller for unstable system", International journal of pure and applied mathematics 119(15) 1591- 1598, 2018. ISSN: 1314-3395 (ONLINE), 1311-8080 (PRINT)
7.	C.Selvakumar, M.R.Shenkumar and K.Chitra" Blocking Probability Based Admission Control Technique for QoS Provisioning in WDM Networks", International Journal Operational Research, Inderscience Enterprises Ltd., 2018.

Department of Biotechnology :

Sl. No.	Publication details
1.	S. Swaminathana, N.M. Imayathamizhana , A. Muthumanickkama and G. Baskar, "Removal of methylene blue using Polyacrylonitrile yarn waste / Carboxylic group Functionalized Multiwall Carbon nanotube Nanofibrous composite", Desalination and Water Treatment, Vol. 113, pp. 244-253, May 2018 DOI: 10.5004/dwt.2018.22176 ISSN: 1944-3994
2.	Theresa Veeranan,, RamachandranKasirajaan, BaskarGurunathan and RenganathanSahadevan, "A Novel approach for extraction of algal oil from marine macroalgaeUlvafasciata" Renewable Energy, Vol 127, pp.64-73,Dec 2017 DOI: 10.1016/j.renene.2017.12.071 ISSN: 0960-1481
3.	Aiswarya Ravi and BaskarGurunathan, "Acrylamide mitigation in fried Kochchikesel chips using free and immobilized fungal asparaginase", Food Technology and Biotechnology, Vol. 56,Iss. 1, pp. 49-55, M.arch 2018 DOI: 10.17113/ftb.56.01.18.5422 ISSN: 1330-9862
4.	Iyyappan J, Bharathiraja B, Baskar G, Jayamuthunagai J, Barathkumar S and Anna Shiny R, "Production of malic acid by chemically induced Aspergillusniger MTCC 281 mutant from crude glycerol without pretreatment", Bioresource Technology, Vol. 251, pp. 264-267, 2018. DOI: 10.1016/j.biortech.2017.12.055 ISSN: 0960-8524
5.	G.Baskar, I.Aberna Ebenezer Selvakumari and R.Aiswarya, "Biodiesel production from castor oil using heterogeneous Ni doped ZnOnanocatalyst", Bioresource Technology, Vol. 250,pp.793-798,.2018 DOI:org/10.1016/j.biortech.2017.12.010 ISSN: 0960-8524
6.	M. Renganathan, S. Renganathan and G. Baskar, "Production of biodiesel from waste cooking oil using MgMoO4-supported TiO2 as a heterogeneous catalyst", Energy Sources, Part A: Recovery, Utilization and Environmental Effects, Vol. 39, Iss.16 ,pp. 2053-2059, 2017. DOI: org/10.1080/15567036.2017.1371815 ISSN: 15567036
7.	G.Baskar, B.G.Garrick, K.Lalitha and M.Chamundeeswari, "Gold nanoparticle mediated delivery of fungal asparaginase against cancer cells",Journal of Drug Delivery Science and Technology, Vol.44, pp. 498-504, Feb 2018. DOI: org/10.1016/j.jddst.2018.02.007 ISSN 1773-2247
8.	T. Muthukumar, G. Sreekumar, T.P. Sastry and M. Chamundeeswari, "Collagen as a potential biomaterial in biomedical applications", Reviews on Advanced materials Science, Vol. 53 Issue 1, pp. 29-39, 2018 ISSN: 16058127
9.	M. Renganathan, S. Renganathan G. Baskar and S. Nambirajan, "Extraction of non-edible oil from Catharanthusroseus seeds and kinetics on oil extraction", Energy Sources, Vol.39,Iss 16, Sep 2017

	DOI:org/10.1080/15567036.2017.1347732 ISSN: 1746-1743
10.	Ravi Aiswarya and GurunathanBaskar, " Enzymatic Mitigation of Acrylamide in fried Potato chips using Asparaginase from Aspergillusterreus", International Journal of Food Science and Technology, Vol 53, Iss 2, pp. 491-498, Aug 2017 DOI: org/10.1111/ijfs.13608 ISSN: 09505423
11.	S. Sivarathnakumar , G. Baskar , R. Praveenkumar and B. Bharathiraja, "Simultaneous Saccharification and Fermentation of woody stem Prosopisjuliflora by Zymomonasmobilis for the production of cellulosic ethanol", International Journal of Materials and Product Technology, Vol-55, pp. 236-253, 2017. DOI: org/10.1504/IJMPT.2017.084968 ISSN: 02681900
12.	N. Josephine Selvi , G. Baskar and , "Dehydration kinetics of Musa acuminata in osmotics and microwave drying",International Journal of Materials and Product Technology,Vol. 88; pp.173-187, 2017. DOI: org/10.1504/IJMPT.2017.084966 ISSN: 0268-1900
13.	Sathya K, Saravanathamizhan R and Baskar G, "Ultrasound assisted phytosynthesis of iron oxide nanoparticle", Ultrasonics-Sonochemistry, Vol.39, pp. 446-451, 2017. DOI: 10.1016/j.ultsonch.2017.05.017 ISSN: 13504177
14.	Anil Kumar Madhava, Seenichamy Poonam, Vaidyanathan Vinoth kumar and Baskar Gurunathan, "Mineralization of aromatic amines liberated during the degradation of a sulfonated textile colorant using Klebsiellapneumoniae strain AHM",Process Biochemistry, Vol 57; pp. 181-189, 2017. DOI: 10.1016/j.procbio.2017.03.012 ISSN: 13595113
15.	L F A Anand RajEmail authorR ShanmugapriyaJ Jeslin "Biosynthesis of cellulose microfibre from peanut shell for the preparation of bio-nanocomposite films for food-packaging application", Bulletin of Materials Science, Vol. 42, pp. 63, 2019 DOI: org/10.1007/s12034-019-1751.2 ISSN:
16.	R.Naveenkumar and G.Baskar "Biodiesel production from Calophyllum inophyllum oil using zinc doped calcium oxide (Plaster of Paris) nanocatalyst", Bioresource Technology, Volume 280, Pages 493-496, May 2019 DOI: org/10.1016/j.biortech.2019.02.078 ISSN: 0960-8524
17.	J.Iyyappan, B.Bharathiraja, G.Baskar and E.Kamalanaban "Process optimization and kinetic analysis of malic acid production from crude glycerol using Aspergillus niger",Bioresource Technology. Volume 281, Pages 18-25, June 2019 DOI: org/10.1016/j.biortech.2019.02.067 ISSN: 0960-8524
18.	Kalavathy G and Baskar G, "Synergism of Clay with Zinc oxide as nano particle for the production of biodiesel from marine algae Ulva Lactuca", Bioresource Technology, Vol. 271, pp.345-352, Feb 2019. DOI: 10.1016/j.biortech.2019.02.101.

	ISSN: 0960-8524
19.	E. Raja Sathendra, G. Baskar, R.Praveenkumar and Edgard Gnansounou, "Bioethanol Production from Palm wood using Trichodermareesei and Kluveromyces marxianus", Bioresource Technology, Vol. 271, pp.345-352, 2019 DOI:org/10.1016/j.biortech.2018.09.134 ISSN: 0960-8524
20.	GurunathanBaskarand Ravi Aiswarya, "Overview in Mitigation of acrylamide in starchy fried and baked foods", Journal of the Science of Food and Agriculture, Vol.98, pp.4385–4394, 2018 DOI:org/10.1002/jsfa.9013 ISSN: 00225142
21.	Baskar G, K. Lalitha, R. Aiswarya and R. Naveen Kumar, "Synthesis, Characterization and synergistic of Cerium-Selenium Nano biocomposite of fungal L-Asparaginase for Curbing Lung Cancer", Materials Science and Engineering C: Materials for Biological Applications, Vol. 93, pp. 809–815, 2018. DOI: 10.1016/j.msec.2018.08.051 ISSN: 09284931
22.	K. Sathya, R. Saravana thamizhan and G. Baskar, "Ultrasonic assisted Green synthesis of Fe and Fe/Zn bimetallic nanoparticles for invitro cytotoxicity study against Hela cancer cell line", Molecular Biology Report,Vol. 45 Issue 5, pp. 1397-1404, 2018 DOI: 10.1007/s11033-018-4302-9 ISSN: 15734978
23.	G.Baskar, R.Naveenkumar, N.Mohanapriya, S.Roselin Nivetha and R.Aiswarya, "Optimization and kinetics of Biooil Extraction from Madhucaindica seeds", Industrial Crops and Products, Vol. 124, pp. 954-959, 2018. DOI:org/10.1016/j.indcrop.2018.08.081 ISSN: 09266690
24.	J.Iyyappan, G.Baskar, B.Bharathiraja and R.Saravanathamizhan, "Malic acid production from biodiesel derived crude glycerol using morphologically controlled Aspergillus niger in batch fermentation", Bioresource Technology, Vol. 269, pp. 393-399, Dec 2018 DOI: org/10.1016/j.biortech.2018.09.002 ISSN: 0960-8524
25.	Sathya Karunakaran , Saravana thamizhan Ramanujam and Baskar Gurunathan, "Green synthesized iron and iron based nanoparticle in Environmental and Biomedical application-A Review", IET Nanobiotechnology, Volume 12, Issue 8, pp. 1003 – 1008, 2018. DOI: 10.1049/iet-nbt.2018.5048 ISSN: 17518741
26.	M. Karthikeyan, G. Baskar and S. Renganathan, "Evaluation of catharanthusroseus biodiesel as an alternative fuel to study the performance and emission characteristics via 4-S internal combustion engine", International Journal of Industrial Engineering, Vol 2 Iss 7, pp. 160-166, 2018. ISSN: 2456-8449
27.	R. Aiswarya and G. Baskar, "Microbial production of L-asparaginase and its immobilization on chitosan for the mitigation of acrylamide in heat processed carrot slices", Indian Journal of Experimental Biology, Vol 56, pp.504-510, Jul 2018. ISSN: 00195189
28.	G Baskar, K Lalitha and Garrick Bikku George, "Synthesis, Characterization and

Sl. No.	Publication details
	anticancer activity of selenium nanobiocomposite of L-asparaginase", Bull. Material Science,Vol 42, Iss 1, 2019 DOI: 10.1007/s12034-018-1686-z ISSN: 02504707
29.	Sharmila J, Saravanan P, SivasankarS and ChamundeeswariM, "A novel and an ecofriendly approach for organic dyes degradation using Spirulina platensis cultivated water", Catalysis Today, Nov-18. Available Online DOI: org/10.1016/j.cattod.2018.11.044 ISSN: 09205861
30.	Munusamy Chamundeeswari, John Jeslin and Madan Lal Verma, "Nanocarriers for drug delivery applications", Environmental Chemistry Letters, Nov-18, Available Online ISSN: 16103653
31.	Chamundeeswari Munusamy, Muthukumar Thangavelu, Aravinthan Adithan and Sastry Thotapalli Parvathaleswara, "Morphological Modification of carbon nanoparticles after interacting with methotrexate as a potential anticancer agent", Pharma Research, Vol 35, Iss 184, pp.1-10, October 2018. DOI: 10.1007/s11095-018-2468-4 ISSN: 1573904X
32.	M. Nanthini, M. Chamundeeswari, Seethalakshmi R, Rachel Lovlyna F and G. Sreekumar, "Cytotoxic activity of probiotic Bacillus subtilis SK09 against human colon cancer cell line (HT-29)", International Research Journal Of Pharmacy, Vol. 4,pp. 105-109, Apr 2017 DOI: 10.7897/2230-8407.080458 ISSN 2230 – 8407
33.	Jacob SJP, Prasad VLS, Sivasankar S and Muralidharan P, "Biosynthesis of silver nanoparticles using dried fruit extract of Ficus Carica-screening for its anticancer activity and toxicity in animal models", Food and Chemical Toxicology, ,Vol. 109, pp. 951-956, Apr 2017 DOI: 10.1016/j.fct.2017.03.066 ISSN: 02786915
34.	G.Baskar and S.Soumiya, "Production of biodiesel from castor oil using iron (II) doped zinc oxide nanocatalyst",Renewable Energy, Vol 98, PP. 101-107, DOI: org/10.1016/j.renene.2016.02.068. ISSN: 0960-1481
35.	G. Baskar; C. Sriharini; R. Sripriya and S.K. Pavithra, "Optimization and kinetics of biosorption of comasive brilliant blue G250 dye from synthetic effluent using Pennisetum purpureum", International Journal of Environment and Sustainable Development, Vol. 15, Iss. 3, pp. 241-253. DOI: 10.1504/IJESD.2016.077368. ISSN: 1478-7466

Department of Chemical Engineering :

Sl. No.	Publication details
1.	R. Baskaran, S. Nachiyappan, S. Senthil kumar, P. Gopinath, Intensified degradation of pharmaceutical effluents by novel aerobic iron-dwarf activated molecular oxygen in the presence of ascorbic acid" in Desalination and water treatment vol.102, pg 273-279 (Print ISSN: 1944-3994, Online ISSN: 1944-3986), SJR Impact

	factor1.631.(DOI:).10.5004/DWT.2018.21846
2.	R.Baskaran, B.S.Rathi, N.Deepa"Cfd Simulations For Mixing By Introducing Solid Object In Lid Driven Square Cavity" International Journal of Advanced Research, vol 6(6), pg 165-172, (Print ISSN:2320-5407, Online ISSN: 2320-5407), SJR Impact factor1.631.(DOI:)10.21474/IJAR01/7198.
3.	S. Vinod Kumar, B. S. Rathi, Sivaranjanee, N.Deepa, G. Sampath Kumar, "Trichodermaatroviride As Microbial Strain In Biogas Production From Lignocellulosic Wastes" Research Journal of Pharmaceutical, Biological and Chemical Sciences vol No. 9(4)pg 306-312, (Print ISSN: 0975-8585, Online ISSN: 0975-8585), SJR Impact factor1.631.
4.	R. Sivaranjane, P.,Senthil Kumar. P. Sudar Rajan, A. Saravanan "Carbon sphere: Synthesis, characterization and elimination of toxic Cr (VI) ions from aquatic system"I Journal of Industrial and Engineering Chemistry,vol No. 60pg 307-320, (Print ISSN: 1226-086X, Online ISSN: 1226-086X), SJR Impact factor1.631.(DOI:).10.1016/J.JIEC.2017.11.017

Department of Electronics and Communication Engineering :

Sl. No.	Publication details
1	Shirley Selvan,Glory Precious,Neural Network classification of abnormalities in breast ultrasound images, International Journal of Pure and Applied Mathematics, 2018, 118 (11), 111-120
2	B. Vasudevana, M. Ayyaduraib, R. Maheswarc, P. Mahalakshmid, Ayyanare, Iraj S. Amirif,g,"Numerical study on optical properties of non-circular metamaterial optical fiber". Results in Physics-Elsevier. E-ISSN:2211-3797
3	Maheswari.S, Dr.ReebaKorah, "A framework of Secured Embedding Scheme Using Vector Discrete Wavelet Transformation and Lagrange Interpolation", Journal of Computer Networks and Communications.OCT'2017 ISSN: 2090715X (on-line version)https://doi.org/10.1155/2018/8695103
4	Maheswari.S, Dr.ReebaKorah, "Enhanced skin tone detection using heuristic thresholding", Biomedical Research, 2017; Volume 28 (9): 4147-4153 ISSN: *0970-938X*
5	Avudaiammal, R ,Swarnalatha.A and Seethalakshmi.P ,Network Processor Based High Speed Packet Classifier For Multimedia Applications, Wireless Personal Communications, Springer, pp. 1-18, Sep. 2017.
6	Daphinlilda, A.Swarnalatha, R.Avudaiammal "Survey on Memristor Applications" International Journal of Pure and Applied Mathematics, Jan 2018,118(11),pp.103-109
7	S.Dayana and .R.Avudaiammal, 'Automatic Building Extraction From VHR Satellite Image and Denoising with Various Filters', International Journal of Pure and Applied Mathematics, Volume 118, No. 11 (2018).Pp. 121 – 129.
8	A.ChristyPrecilla, Joselin George,S.RajeshKannan,R.Prabhu "Modified PCA based Image fusion using feature matching", International Journal of Pure Applied Mathematics, Vol 119,Issue 15, Pg 477-483, 2018. (ISSN No.1314-3395)
9	Sungeetha Dakshinamurthy and Vasumathi Narayanan, (2017) "A Computational model for Biomedical system", Biomedical Research- India, (Artificial Intelligent

	technique for Bio Medical signal Processing), ISSN (Print):0970-938X ISSN (Electronic): 0976-1683).
10	Vijayalakshmi, K., and Martin Leo Manickam, J., A cluster based mobile data gathering using SDMA and PSO techniques in WSN, cluster computing, Jan 2018, ISSN: 1386-7857 (Print) 1573-7543 (Online), https://doi.org/10.1007/s10586-018-1748-4
11	SamuthiraPandi, V., and Martin Leo Manickam, J., A novel of multi-hop transmission in integrated network of WLAN IEEE 802.11 n and IEEE 802.11 g using Riverbed Modeler 17.5, Cluster computing, pp. 1-8, Nov 2017, DOI:10.1007/s10586-017-1156. 1ISSN: 1386-7857 (Print) 1573-7543 (Online)
12	Karthikeyan, MV., and Martin Leo Manickam, J., A novel fast chaff point generation method using bio-inspired flower pollination algorithm for fuzzy vault systems with physiological signal for wireless body area sensor networks, Biomedical research, special issue, S242-S254, Feb 2017, 0970-938X (print); 0976-1683 (web)
13	Gomathi, RM., and Martin Leo Manickam, J., Energy Efficient Shortest Path Routing Protocol for Underwater Acoustic Wireless Sensor Network, Wireless personal communications, DOI: 10.1007/s11277-017-4897-5. Aug 2017, ISSN: 0929-6212 (Print) 1572-834X (Online)doi:10.1007/s11277-014-1998-2
14	Regan, R., and Martin Leo Manickam, J., Detecting and Denying Malicious Behavior using Adaptive Learning based Routing Protocol in Wireless Mesh Network, Applied Mathematics and Information Sciences, 2017, DOI: 10.18576/amis/110423, ISSN 1935-0090 (print) ISSN 2325-0399 (online)
15	V. Velmurugan, V and J. Martin Leo Manickam, A efficient and reliable communication to reduce broadcast storms in VANET protocol, pp. 1-7, Marchhttps://doi.org/10.1007/s10586-018-2250-8, Print ISSN1386-7857, Online ISSN1573-7543
16	C. Senthilkumar, J Manickam, PCM: A Path-Aware Clustering Mechanism for Energy-Efficient Routing Protocol in Wireless Sensor Networks, Journal of Computational and Theoretical Nanoscience, vol. 14, No. 11, pp.5478-5483, https://doi.org/10.1166/jctn.2017.6974, ISSN: 1546-1955 (Print): EISSN: 1546-1963 (Online)
17	C Senthilkumar and J Martin Leo Manickam, Efficient cluster-based routing protocol for wireless sensor networks with mobile sink using CRSSI, Advances in Natural and Applied Sciences, Vol, 11, No. 9, pp. 174-182, July 2017, ISSN:1995-0772 (Print)EISSN:1998-1090 (Online)
18	C Senthilkumar and J Martin Leo Manickam, REAS: Residual Energy Aware Angle Based Routing Protocol for Cluster-Based Wireless Sensor Networks, Sensor Letters, vol. 15, no. 7, pp. 597-603, 2017 (July), ISSN: 1546-198X (Print): EISSN: 1546-1971 (Online) https://doi.org/10.1166/sl.2018.4050
19	Joyce Jacob. Jand A.Swarnalatha "A PON Planning Using Fuzzy Clustering And Non-Linear Constrained Optimization Techniques" Global Journal of Pure and Applied Mathematics Aug 2017 13(1)
20	Avudaiammal, R ,Swarnalatha.A and Seethalakshmi.P ,Network Processor Based High Speed Packet Classifier For Multimedia Applications, Wireless Personal Communications, Springer, pp. 1-18, Sep. 2017. ISSN 09296212
21	Daphinlilda, A.Swarnalatha "Survey on Memristor Applications" International

	Journal of Pure and Applied Mathematics, Jan 2018,118(11) ISSN 13118080
22	Lakshmi Narayan, ReebaKorah, A.Swarnalatha Novel 10-T Write Driver SRAM Design using 45nm CMOS Technology with leakage Current reduction scheme for FPGA Routing Switch Architecture, Journal of Nanoelectronics and Optoelectronics, May'2018 -13(5). ISSN 1555130X
23	A.ChristyPrecilla, Joselin George,S.RajeshKannan,R.Prabhu "Modified PCA based Image fusion using feature matching", International Journal of Pure Applied Mathematics, Vol 119,Issue 15, Pg 477-483, 2018. (ISSN No.1314-3395)
24	R. Niruban., R.Deepa.,G.Aishwarya., S.Sivagowri., (2018), "Robust privacy preserving multi cloud architecture for improving data security", Journal of Advanced Research in Dynamical and Control Systems, Issue 05-Special Issue, pp.1048-1051.
25	P. Merlin SweethaVinola ; A.M. Balamurugan ; V. Chandana ; V. Durairaji, Enhanced HMAC structure based burst header authentication design for optical burst switched networks, 2nd IEEE International Conference On Recent Trends in Electronics Information & Communication Technology (RTEICT), May 19-20, 2017, India. ISBN: 10.1109/RTEICT.2017.8256628
26	S.Dayana and .R.Avudaiammal, R.Prabhu and A.Swarnalatha "Automatic Building Extraction From VHR Satellite Image" IEEE International Conference on Current trends towards Converging Technologies on 1st -3rd Mar 2018 at SVS College Of Engineering, Coimbatore. ISBN: CFP18M64-POD. 978-1-5386-3703-6
27	R.Prabhu, S.Umasree, Dr.R.Avudaiammal and Dr.R.A.Alaguraja, 'Urban Slum Extraction using GLCM based Statistical Approaches from Very High Resolution Satellite Data' in Proc.of International Conference in the field of Computer Science and Communication, on 14th-16th, Dec 2017 at Madras Institute of Technology, Chennai. ISBN: CFP1763H-POD. 978-1-5386-4350-1.
28	R. Udaiyakumar, B. Vasudevan, M. Bhupeshwaran, D. Vigneswaran, Domination of intra-pulse Raman scattering over third order dispersion on avoiding in-phase soliton interaction, Optoelectronics and Advanced Materials – Rapid Communications Vol. 12, No. 11-12, November-December 2018, p. ISSN: 1842-6573 Scimago Journal Ranking (2013): 0,103 Hirsh Index: 6
29	Maheswari.S, Dr.ReebaKorah, "Data hiding using YCbCr – DWT In addition to noise",International Journal of Engineering&Technology,volume 7(3.34)688-691. ISSN: 2227-524X.
30	Vijayarajan.Rand Avudaiammal, R Multiple MRI Image Fusion using Normalized Principal Components of DWT Sub bands, International Journal of Tomography & Simulation.pp.92-100.Vol 13, No.2.
31	Vijayarajan.Rand Avudaiammal, R A Novel Bio-Key Based AES Image Cryptosystem". Computer Journal (Accepted)
32	Bharathababu.K, ReebaKorah, Swarnalatha.A "Vedic Multiplier Using NikhilamNavatascaramamDasatah Sutra ModernVLSI High Speed Multiplier"Journal of Electrical Engineering University "POLITEHNICA" Timisoara, Romania Volume 18/2018 & Issue 2, June-2018 Pages419-425 ISSN:NO: 1582-4594
33	E Anna Devi, J Martin Leo Manickam, Reconnection of Wireless Sensor Network Partitions on Multi-Agent Platform, International Journal of Business Analytics, Vol, 6, issue 1, pp. 43-54. jan 2019, ISSN: 2334-4547|EISSN: 2334-4555 DOI: 10.4018/IJBAN.2019010103

Sl. No.	
34	P Julian, J Manickam, N Duraipandian, RV Kumar, Energy-Efficient Multihop Cooperative Multiple-Input-Multiple-Output Communications in Wireless Ad Hoc/Sensor Networks, Sensor letters, Volume 16, Number 12, pp. 944-950(7),December 2018, ISSN: 1546-198X (Print): EISSN: 1546-1971 (Online) https://doi.org/10.1166/sl.2018.4050
35	Karthikeyan, M. V.; Manickam, J. Martin Leo, Efficient Bio-Signal Feature Based Secure Secret Key Generation Scheme a Simplified Model for Wireless Body Area Network (EFSKG Scheme), Journal of Medical Imaging and Health Informatics, Volume 8, Number 5, June 2018, pp. 863-871(9), https://doi.org/10.1166/jmihi.2018.2415, ISSN: 2156-7018 (Print): EISSN: 2156-7026 (Online)
36	Anna Devi, E. and Martin Leo Manickam, Identifying Partitions in Wireless Sensor Network, International Journal of Parallel Programming, pp.1-14, https://doi.org/10.1007/s10766-018-0593-7, Aug 2018, ISSN: 0885-7458 (Print) 1573-7640 (Online)
37	K Vijayalakshmi, J Martin Leo Manickam, Mobile data gathering using PSO and minimum covering spanning tree clustered WSN, International Journal of Mobile Network Design and Innovation, Vol. 8, issue 2, pp. 101-110, ISSN:17442869, E. ISSN: 17442850, https://doi.org/10.1504/IJMNDI.2018.092346, 2018 June
38	R.Prabhu,R.A.AlaguRaja,"Urban Slum Detection Approaches from High Resolution Satellite Data Using Statistical and Spectral based Approaches ", Journal of Indian Society of Remote Sensing (Springer), Vol.46, Issue 12,Pg 2033-2044,Dec 2018, ISSN NO: 0255-660X,, https://doi.org/10.1007/s12524-018-0869-9.
39	SungeethaDakshinamurthy and Keerthana.G,(2018),Design and implementation of finite state machine using quantum –Dot cellular Automata(QCA) International Journal of Reasoning – based Intelligent systems".
40	Sundaravadivelu.S, Suresh R. Norman,.Johnsi Stella. I, SureshKumar.A Title: " Solar Photovoltaic Power Systems Principles, Design and Applications" Publisher: Notion Press ISBN 978-1-64249-709-0
41	Shirley Selvan,Glory Precious,Neural Network classification of abnormalities in breast ultrasound images, International Journal of Pure and Applied Mathematics, 2018, 118 (11), 111-120

Department of Electrical and Electronics Engineering :

Sl. No.	Publication details
1	Jayarama Pradeep, R. Devanathan Robust Feed forward Torque Control Of Surface Mounted PMSM Using Discrete Event System Approach, Journal of Electrical Engineering, Vol 17,Edition 3Pp 1-10
2	Nishant .S, Jayarama Pradeep,, Quadratic Boost converter using pi filter for distributed generation system,*International journal of pure and applied mathematics, Vol 118, No11 pp 137-144
3	Venkatesh Kumar. C Ramesh Babu, M Application of Cauchy Mutated Memetic Particle Swarm Optimization Algorithm to Economic Dispatch Problem with Practical Constraints ,Interciencia, Vol. 1, No. 1, pp. 132-147, January 2018.
4	P.Anbarasan A Reduced Switch count asymmetrical three phase multilevel inverter

	topology,Journal of Electrical Engineering, 2017.
5	Sam Reji Joseph,Sai Vighnesh P, Chamundeeswari. V, Implementation of fuzzy sliding Mode control for Negative output Superlift Luo converter, International Conference on Electrical Electronics and communication Engineering, July 2017.
6	Rajendra mayavan, Jaganath, V.Chamundeeswari Automated Hydroponic system for deep water culture to grow tomato using ATMEGA328, International Conference on Electrical,Electronics, Computer science, Mathematics, Physical Education and Management, June 2017
7	Jayarama Pradeep, S.Sridharan Low cost mobile safety band for fishermen using Bluetooth technology Proceedings of the International Conference on Technological Advances in Mechanical Engineering pp. 374-378, Sep 2017
8	Koushika A, Kirthana D, Vedhavalli S P Retinal Scanner and fingerprint detection for bank access National conference on cotemporary approaches of industrial –IOT in real time environment Dec 2017.
9	T.D.Sudhakar has contributed a chapter in a book titled "New Frontiers in Graph Theory" is a collection of latest research work in the area of Graph theory, edited by Dr. Yagang Zhang, North China Electrical Power Industry, Published by Intech.
10	Electric Energy generation ,utilisation and conservation,Dr.N.Chidambararaj & Mr.T.Srianandhaganesh,ARS publications, 978-93-84608-55-2 (ISBN No.)
11	Power quality, Mr.T.Srianandhaganesh, ARS publications, 978-93-84634-77-3(ISBN No.)
12	HVDC, Ms.S.Divya, ARS publications ,978-93-84634-54-4 (ISBN No.)
13	FACTS, Dr.N.Chidambararaj, Mr.K.Aravindhan,ARS publications, 978-93-84608-22-4(ISBN No.)
14	V. Krishnakumar Efficient Performance of Escalation in live migration with downturn in the migration time and down time, Springer-Cluster Computing
15	V.Balasubramanian, S.Jayaprakash, M.Kavitha,V.Elanangai, Development of Regenerative braking concept for Electric Vehicle enhanced with bidirectional converter, International journal of Power Electronics and drives system, Vol.9/No.4/PP.1584-1590/Dec 2018

Department of Mechanical Engineering :

Sl. No.	Publication details
1.	K. M. Kumar, P.Hariharan, "Prediction and investigation of surface roughness while turning SG iron with cubic boron nitride (CBN) and tungsten carbide inserts", Transactions of the Canadian Society for mechanical Engineering, Vol. 41(1), 129-141, 2017. ISSN:0315-8977.
2.	K. M. Kumar, P.Hariharan, B. Ramesh, "Study on the influential process parameters in machining the austempered ductile iron", Materials and Manufacturing Processes, 1 - 8, 2017, ISSN:1042-6914 & 1532-2475 10.1080/10426914.2017.1291951.
3.	S.M.Mullaikodi1,K.Shanmugasundaram,Vaddi Seshagiri Rao,Mechanical property evaluation and optimisation of K/G/C FRP composites with Aluminum oxide as filler material, 2018, , TAGA Journal , vol. 14,

	1906-1913, ISSN: 1748-0345.
4.	N.E.Arun Kumar and A. Suresh Babu, "Influence of input parameters on the near-dry WEDM of Monel alloy" Materials and Manufacturing Processes- Taylor and Francis Vol.33:1, pp.85-92. ISSN 10426914, 15322475.
5.	M. Arun and N. Arunkumar "Investigation on the performance of deep and shallow cryogenic treated tungsten carbide drills in austenitic stainless steel" Measurement 125 (2018) 687–693. ISSN 02632241
6.	Thamizhvalavan P., S. Arivazhagan, N. Yuvaraj& B. Ramesh (2018), 'Machinability study of abrasive aqua jet parameters on hybrid metal matrix composite', Materials and Manufacturing Processes. Volume 34, 2019 - Issue 3
7.	ChandramohanP, Murugesan S. N. &Arivazhagan S (2018), 'Experimental Investigation and CFD Analysis of Influence of Swirl, Arrangement of Nozzle, Cross Section And Diameter of Jets on Heat Transfer in Multi-Jet Air Impingement Cooling', Thermal Science2018. 177-177. 10.2298/TSCI170620177C. ISSN Number:0354-9836. eISSN Number :2334-7163
8.	Lionus Leo, G. M., Sekar, S. and Arivazhagan, S. "Experimental Investigation, Optimization and ANN Model Prediction of a Gasoline Premixed Waste Cooking Oil Fueled HCCI–DI Engine", Journal of the Brazilian Society of Mechanical Sciences and Engineering, Springer, vol. 40, no. 2,2018, ISSN: 1678-5878 (print version) ISSN: 1806-3691 (electronic version)
9.	L.Balamurugan, N.Sathishkumar, N.Arunkumar, G.Aravind, "Investigation of mechanical behaviour and surface roughness properties on electroplated FDM ABS parts," International Journal of Engineering Research in Mechanical and Civil Engineering, Vol.2, Issue 11, November 2017,Pages 61-66. ISSN: 2456-1290 (Online)
10.	Sathish Rengarajan, Vaddi Seshagiri Rao, Characteristics of AA7075-T6 And Aa6061-T6 Friction Welded Joints, Transactions of the Canadian Society for Mechanical Engineering, 2015, 39(4): 845-854(2018) ISSN: 03158977, https://doi.org/10.1139/tcsme-2015-0067
11.	R George Sahaya Nixon, BS Mohanty, R Sathish, Friction surfacing of AISI 316 over mild steel: A characteriation study, Defence Technology, Volume 14 Issue 4 Pages 306-312. ISSN:22149147. doi.org/10.1016/j.dt.2018.03.003
12.	Anand, G., Alagumurthi, N., Elansezhian, R. et al. "Investigation of Drilling Parameters on Hybrid Polymer Composites by using Grey Relational Analysis, Regression, Fuzzy Logic and ANN Models" J Braz. Soc. Mech. Sci. Eng. (2018) 40: 214.
13	Anand, G., N. Alagumurthi, K. Palanikumar, N. Venkateshwaran, and R. Elansezhain. "Influence of drilling process parameters on hybrid vinyl ester composite." Materials and Manufacturing Processes 33, no. 12 (2018): 1299-1305.
14.	G Anand, N Alagumurthi, R Elansezhian, N Venkateshwaran, "Ni-P Coated Glass Fiber/Al_2O_3 Nanowire Reinforced Vinyl Ester Composite" 폴리머 41 (3), 443-451,2017.

15.	G Anand, N Alagumurthi, R Elansezhian, N Venkateshwaran,"Dynamic mechanical, thermal and wear analysis of Ni-P coated glass fiber/Al_2O_3 nanowire reinforced vinyl ester composite", Alexandria Engineering Journal 57 (2), 621-631
16.	Selvam R., Karunamoorthy L. and Arunkumar N. (2017), 'Investigation on performance of abrasive water jet in machining hybrid composites', Materials and Manufacturing Processes, 1198039, Vol. 32, No.6, pp.700-706 ,http://dx.doi.org/10.1080/10426914.2016. ISSN: 1042-6914 (Print), ISSN: 1532-2475 (Online)
17.	Selvam R., Karunamoorthy L. and Arunkumar N.(2017),'Experimental investigation and numerical analysis of the dynamic characteristics of a laminated hybrid composite bed', Polymer Composites,Vol. 38, pp.20-26 Wiley Online Library, Society of Plastic Engineers DOI:10.1002/pc.23555, (2017). ISSN:1548-0569
18.	Thiyagu M., Karunamoorthy L. and Arunkumar N. (2017), 'Magnetorheological fluid-based nanotexturing of tool inserts for turning of duplex stainless steel', Materials and Manufacturing Processes,Vol.32 , No.9, pp.1019-1025. http://dx.doi.org/10.1080/10426914.2016.1257136, (2017), ISSN: 1042-6914 (Print), ISSN: 1532-2475 (Online)
19.	Nistone S. and Arunkumar N. (2017),'Experimental investigation and multi-objective analysis on single flute deep hole drilling of steel AISI 1045 using Grey relational analysis', International Journal of Pure and Applied Mathematics, Vol.117, No.16,pp.185-191ISSN1311-8080(Printed version)
20.	George Sahaya Nixon R, Mohanty B S & Bhaskar G B, "Effect of process parameters on physical measurements of AISI316 stainless steel coating on EN24 in friction surfacing" Materials and Manufacturing Processes, Volume 33,2018 Issue7 http://dx.doi.org/10.1080/10426914.2017.1388524 ISSN: 1042-6914 (Print) ISSN: 1532-2475 (Online)
21.	V. Ashok kumar, N.Sathishkumar, "Effect of fin geometry for various tubes shape using CFD simulation on multi-channel heat exchanger in mobile air conditioning (MAC)," International Journal of Mechanical and Production Engineering Research and Development (IJMPERD), Vol.8, Special issue 8, August 2018,Pages 26-32. ISSN: 2249-6890 (Print), ISSN: 2249-8001 (Online)
22.	M. Ganesh , D. Srinivasan , NarenVivekanandan, "Experimental Investigation on Mechanical and Wear Properties of Al7075-B4C-TiO2 Composite", Nano Hybrids and Composites, Vol. 23, pp 17-23 DOI:10.4028/www.scientific.net/NHC.23.17, ISSN: 2297-3400
23.	S.M.Mullaikodi, KShanmugasundaram, Vaddi Seshagiri Rao and Sathish Rengarajan, "Synthesis, characterization and machinability studies on thin hybrid composites with SiC nano particles "Material Research Express, 2019, ISSN:20531591. doi.org/10.1088/2053-1591/ab0ddc
24.	Balamurugan T., Karunamoorthy L., Arunkumar N. and Santhosh D. (2018),'Optimization of inventory routing problem to minimize carbon dioxide emission', International Journal of Simulation Modelling, Vol.17,No.1, pp.42-54.

Department of Information Technology :

Sl. No.	Publication details
1.	SherlyPushpa Annabel, K. Murugan, "An Asynchronous and Adaptive Quoram based MAC Protocol for Wireless Sensor networks", Journal of Information Science and Engineering, Vol. 33, pp. 1307-1322, Aug 2017. (Print ISSN: 1016-2364, DOI: 10.6688/JISE.2017.33.5.12,)
2.	L. Javid Ali, G. S. Anandhamala, "Actor-oriented approach for fault tolerance in e-commerce events", Cluster Computing, The Journal of Networks, Software Tools and Applications, Springer, June 2017. (Print ISSN: 1386-7857 E-ISSN: 1573-7543, doi. 10.1007/s10586-017-1005-2)
3.	L. Javid Ali, G. S. Anandhamala, "An Efficient Fuzzy Based Fault Classification With Fault Tolerance Level in Online Transaction Management", International Journal of Pure and Applied Mathematics, Vol. 117, No. 16, pp. 307-321, 2017. (Print ISSN: 1311-8080, E-ISSN: 1314-3395, SJR Impact Factor: 0.14)
4.	M.Anbu, S. Anandhamala, "Feature Selection using Firefly Algorithm in Software Defect Prediction", Cluster Computing, The Journal of Networks, Software Tools and Applications, Springer, Oct 2017.(Print ISSN: 1386-7857 E-ISSN: 1573-7543, doi 10.1007/s10586-017-1235-3)
5.	Sumathi S, Manju J, "Optimized Cluster based geographic adaptive fidelity routing protocol for WSN", PerspectivasemCiencia da Informacao, Vol. 22, No.4, pp. 80-91, Dec. 2017. (Print ISSN: 14139936, SJR Impact Factor: 0.2)
6.	S. Sumathi, Michael Jeffrey Josanne, "Speech synthesized auto correction based on Markov chaining with acoustic modeling", PerspectivasemCiencia da Informacao, Vol. 22, No.4, pp. 91-104, Dec. 2017. (Print ISSN: 14139936, SJR Impact Factor: 0.2)
7.	M. K. Kirubakaran, N. Sankarram, "IW-MAC: a invite and wait MAC protocol for power efficient wireless sensor networks", Journal of Ambient Intelligence and Humanized Computing, Dec 2017.(Print ISSN: 1868-5137,E-ISSN: 1868-5145https://doi.org/10.1007/s12652-017-0662-6)
8.	S. Duraimurugan, P. JesuJayarin P, "Maximizing quality of multimedia streaming services in heterogeneous wireless networks using optimal multi-server technique", Cluster Computing, Springer, pp.1-13, Feb 2018. (Print ISSN: 1386-7857, E-ISSN: 1573-7543, http://doi.org/10.1007/s10586-018-1797-8)
9.	C. J. Raman, Visumathi James, "FCC: Fast Congestion Control Scheme for wireless sensor Networks using Hybrid Optimal Routing Algorithm", Cluster Computing, Springer, pp.1-11, Jan 2018. (Print ISSN: 1386-7857 E-ISSN: 1573-7543, http://doi.org/10.1007/s10586-018-1744-8,
10.	Joseph Manoj R, M. D. AntoPraveena, K. Vijayakumar, "An ACO–ANN based feature selection algorithm for big data", Cluster Computing, Springer, pp. 1-8, Mar 2018. ((Print ISSN: 1386-7857, E-ISSN: 1573-7543, doi.org/10.1007/s10586-018-2550-z)
11.	Thejeswini C, Raman C J, "An Effective Audio on Demand Securing through Localizability aided Localization over Wireless Sensor Network", International Journal of Pure and Applied Mathematics, Vol.118, No.20, pp. 5021-5029, May 2018. . (Print ISSN: ISSN 1311-8080, E-ISSN: 1314-3395, SJR Impact Factor: 0.14).

12.	K. Pradeep, T. Prem Jacob, "CGSA scheduler: A multi-objective-based hybrid approach for task scheduling in cloud environment", Information Security Journal: A Global Perspective, Vol. 27, No. 2, pp.77-91, Nov 2017.(Print ISSN: 1939-3555,E-ISSN:1939-3547,SJR Impact Factor:0.19, https://doi.org//10.1080/19393555.2017.1407848)
13.	K. Pradeep, T. Prem Jacob, "A Hybrid Approach for Task Scheduling Using the Cuckoo and Harmony Search in Cloud Computing Environment", Wireless Personal Communications, Vol. 101, No. 4, pp. 2287-2311, May 2018.(Print ISSN: 0929-6212,E-ISSN:1572-834X,//doi.org/10.1007/s11277-018-5816-0)
14.	N. Gobalakrishnan, C. Arun, "A New Multi-Objective Optimal Programming Model for Task Scheduling using Genetic Gray Wolf Optimization in Cloud Computing", Section B: Computer And Communications Networks And Systems The Computer Journal, Vol. 61, No. 10, pp. 1523–1536 March 2018. (Print ISSN: 00104620, E-ISSN: 14602067.
15.	K. Pradeep, T. Prem Jacob, "GHSA: Task Scheduling in Heterogeneous Cloud",Lecture Notes on Data Engineering and Communication Technologies, pp.1025-1027, Aug 2018, Springer. Print ISSN 2367-4512, E-ISSN: 23674520, ISBN: 978-3-030-03145-9, E-ISBN: 978-3-030-03146-6, https://doi.org/10.1007/978-3-030-03146-6
16.	G. Annapoorani, G. LathaSelvi, "Application of Fuzzy Logic in Food Product Quality Control: A review", Fuzzy Systems and Data Mining IV, Vol. 309,pp. 395-408, IOS Press, Sep 2018. Print ISBN: 978-1-61499-926-3,E-ISBN: 978-1-61499-927-0, doi: 10.3233/978-1-61499-927-0-395
17.	C. Heltin Genitha, M. Indhumathi, "A Hybrid Approach to Super Resolution Mapping for Water-Spread Area and Capacity Estimation of Reservoir Using Satellite Image (India)", Advances in Science, Technology & Innovation book series, Springer, pp. 65-68, Dec 2018. Print ISBN978-3-030-01439-1 , Online ISBN978-3-030-01440-7 https://doi.org/10.1007/978-3-030-01440-7_16
18.	C. J. Raman, Visumathi James, "Comparative Analysis of Delay Minimizing and Energy Conserving Algorithms in Wireless Sensor Network", pp. 808 – 812, August 2017. Electronic ISBN: 978-1-5386-3570-4 DVD ISBN: 978-1-5386-3569-8 Print on Demand(PoD) ISBN: 978-1-5386-3571-1 DOI: 10.1109/ICOEI.2018.8553705
19.	S. Duraimurugan, P. JesuJayarin, "Analysis and Study of Multimedia Streaming and Congestion Evading Algorithms in Heterogeneous Network Environment", pp.1248 - 1252, 2018 Second International Conference on Intelligent Computing and Control Systems (ICICCS) August 2017. Electronic ISBN: 978-1-5386-2842-3 DVD ISBN: 978-1-5386-2841-6 Print on Demand(PoD) ISBN: 978-1-5386-2843-0 DOI: 10.1109/ICCONS.2018.8663163
20.	Dr. Esther Hannah, "A Hybrid Classification based Summarization Model Using Multiple Linear Regression", I International Conference on Recent Advances and Applications in Computer Engineering, Nov 2017.
21.	J. Threasa Jennifer, "Precision Agriculture System using Wireless Sensor Networks: A Study", International Conference on Emerging trends in Multidisciplinary research, Singapore, Dec 2017.

22.	NasreenFathima A.H, Joseph Manoj R, "Frequent Pattern Mining Techniques for Big data: A Literature Review", International Conference on Electrical, Computers, Communication, Mechanical and Computing, Feb 2018.
23.	Dr. Lilly Raamesh, "A Hybrid Memetic Framework for Effective Coverage Based Test Case Optimization", I International Conference on Recent Advances and Applications in Computer Engineering, Jaipur, Nov 2017.
24.	Anish M, C.Heltin Genitha, "Facial Anti-spoofing Analysis-A Literature Survey", Proceedings of International Conference on Computing, Communication and Drastic Innovations in Energy Thrive, 28th February, Panruti, India 2018.
25.	M. Esther Hannah, S. Nisha Nancy, Nisha Varghese, Pragathi, Nivedaa, "A Machine Learning based Approach towards Sentiment Analysis of Twitter Data", International Conference on Advanced Computing and Big Data Analytics, Mar 2018.
26.	Martina Valogia S, Gobalakrishnan N, "Medical Informatics for detecting the risk of patient getting a heart attack", International Conference on Informatics Computing in Engineering System, Mar 2018. ISBN: 978-1-5386-2591-0/18
27.	Sam Navin M, Pradeep K, "A Study on Ant Colony Optimization for Load Balancing and Scheduling Problems in Cloud Computing", 2018 International Conference on Informatics Computing in Engineering Systems (ICICES), 2018. ISBN: 978-1-5386-2591-0/18
28.	R. Deepa, J.Shwetha, "Combined Approach of Index based and Improved Palyfair Cipher for Secured Data transmission", International Conference on Innovation in Science and Engineering Research, Vol. 2, No. 1, pp. 8-16, ISSN: 2456-8619, March 2018.
29.	R. Deepa, S. Vigneshwari, Harold V Prabhu, "A Survey of Ontology Management based on Semantic Technologies in Big Data Analytics", International Conference on Innovation in Science and Engineering Research, Vol. 2, No. 1, pp. 153-161, ISSN: 2456-8619, March 2018.
30.	K. Priyadharshini, R. AroulCanessane, ShivaniDhanasamy, "A Survey of big Data Analysis: Security Issues", International Conference on Innovation in Science and Engineering Research, Vol. 2, No. 1, pp. 145-152, ISSN: 2456-8619, March 2018.
31.	C. J. Raman, Visumathi James, "Comparative Analysis of Delay Minimizing and Energy Conserving Algorithms in Wireless Sensor Network", pp. 808 – 812, August 2017. Electronic ISBN: 978-1-5386-3570-4 DVD ISBN: 978-1-5386-3569-8 Print on Demand(PoD) ISBN: 978-1-5386-3571-1 DOI: 10.1109/ICOEI.2018.8553705
32.	S. Duraimurugan, P. JesuJayarin, "Analysis and Study of Multimedia Streaming and Congestion Evading Algorithms in Heterogeneous Network Environment", pp.1248 - 1252, 2018 Second International Conference on Intelligent Computing and Control Systems (ICICCS) August 2017. Electronic ISBN: 978-1-5386-2842-3 DVD ISBN: 978-1-5386-2841-6 Print on Demand(PoD) ISBN: 978-1-5386-2843-0 DOI: 10.1109/ICCONS.2018.8663163
33.	Dr. Esther Hannah, "A Hybrid Classification based Summarization Model Using Multiple Linear Regression", I International Conference on Recent Advances and Applications in Computer Engineering, Nov 2017.
34.	J. Threasa Jennifer, "Precision Agriculture System using Wireless Sensor Networks: A Study", International Conference on Emerging trends in Multidisciplinary research, Singapore, Dec 2017.
35.	NasreenFathima A.H, Joseph Manoj R, "Frequent Pattern Mining Techniques for Big data: A Literature Review", International Conference on Electrical, Computers, Communication, Mechanical and Computing, Feb 2018.
36.	Dr. Lilly Raamesh, "A Hybrid Memetic Framework for Effective Coverage Based Test Case

	Optimization", I International Conference on Recent Advances and Applications in Computer Engineering, Jaipur, Nov 2017.
37.	Anish M, C.Heltin Genitha, "Facial Anti-spoofing Analysis-A Literature Survey", Proceedings of International Conference on Computing, Communication and Drastic Innovations in Energy Thrive, 28th February, Panruti, India 2018.
38.	M. Esther Hannah, S. Nisha Nancy, Nisha Varghese, Pragathi, Nivedaa, "A Machine Learning based Approach towards Sentiment Analysis of Twitter Data", International Conference on Advanced Computing and Big Data Analytics, Mar 2018.
39.	Martina Valogia S, Gobalakrishnan N, "Medical Informatics for detecting the risk of patient getting a heart attack", International Conference on Informatics Computing in Engineering System, Mar 2018. ISBN: 978-1-5386-2591-0/18
40.	Sam Navin M, Pradeep K, "A Study on Ant Colony Optimization for Load Balancing and Scheduling Problems in Cloud Computing", 2018 International Conference on Informatics Computing in Engineering Systems (ICICES), 2018. ISBN: 978-1-5386-2591-0/18
41.	R. Deepa, J.Shwetha, "Combined Approach of Index based and Improved Palyfair Cipher for Secured Data transmission", International Conference on Innovation in Science and Engineering Research, Vol. 2, No. 1, pp. 8-16, ISSN: 2456-8619, March 2018.
42.	R. Deepa, S. Vigneshwari, Harold V Prabhu, "A Survey of Ontology Management based on Semantic Technologies in Big Data Analytics", International Conference on Innovation in Science and Engineering Research, Vol. 2, No. 1, pp. 153-161, ISSN: 2456-8619, March 2018.
43.	K. Priyadharshini, R. AroulCanessane, ShivaniDhanasamy, "A Survey of big Data Analysis: Security Issues", International Conference on Innovation in Science and Engineering Research, Vol. 2, No. 1, pp. 145-152, ISSN: 2456-8619, March 2018.
44.	Linnet Princy Justina V, Tamilselvi A, "Building a secure Web Application against Web attacks", International Conference Covering Research in Contemporary Engineering and Technology, Mar 2017. ISBN: 978-81-904760-9-6.
45.	M.KarunyaKeerthana, L.Javid Ali, "Mitigating Timing Analysis And Phishing Attacks by Balancing Load And Using Web Crawler", 2nd International Conference on Recent Trends in Engineering and Technology, May 2017.
46.	M. KarunyaKeerthana, L. Javid Ali, " Mitigating Timing Analysis Attack Using Load Balancing", International Conference on Science, Technology Engineering and Management, 2017.
47.	C. Heltin Genitha, M. Indhumathi, "Comparison of Per-Pixel, Sub Pixel and Super Resolution Mapping Techniques to Estimate the Water Spread Area and Capacity of Reservoirs in Chennai City Using Satellite Images", Recent Advances in Earth and Atmospheric Monitoring from Space, Sathyabama, Chennai, 2017.
48.	C. Heltin Genitha, M. Indhumathi, "Techniques to estimate the reservoir water spread area and Volume using satellite images – a study", Recent Advances in Earth and Atmospheric Monitoring from Space, Sathyabama, Chennai, 2017.
49.	C. Heltin Genitha, S. ShanmugaPriyaa, M. Indhumathi, S. Sanjeevi, "Super Resolution Mapping of Satellite Images for Reservoir Studies", National Workshop on Reservoir Sedimentation Studies, Trends and Techniques of Measurement and Analysis, Centre for Water Resources, Anna University, pp. 61-73, 2017.
50.	K. Suresh, U. Sakthi, "Robust Multi-thresholding in Noisy Graysacle Images Using Otsu's Function and Harmony Search Optimization Algorithm", Lecture Notes in Electrical Engineering book series, Vol. 443, pp. 491-499, Oct 2017 Springer. Print ISBN978-981-10-4764-0 Online ISBN978-981-10-4765-7 DOI:https://doi.org/10.1007/978-981-10-4765-7_52

Sl. No.	Publication details
51.	K. Pradeep, T. Prem Jacob, "GHSA: Task Scheduling in Heterogeneous Cloud",Lecture Notes on Data Engineering and Communication Technologies, pp.1025-1027, Aug 2018, Springer. Print ISSN 2367-4512, E-ISSN: 23674520, ISBN: 978-3-030-03145-9, E-ISBN: 978-3-030-03146-6, https://doi.org/10.1007/978-3-030-03146-6
52.	G. Annapoorani, G. LathaSelvi, "Application of Fuzzy Logic in Food Product Quality Control: A review", Fuzzy Systems and Data Mining IV, Vol. 309,pp. 395-408, IOS Press, Sep 2018. Print ISBN: 978-1-61499-926-3,E-ISBN: 978-1-61499-927-0, doi: 10.3233/978-1-61499-927-0-395
53.	C. Heltin Genitha, M. Indhumathi, "A Hybrid Approach to Super Resolution Mapping for Water-Spread Area and Capacity Estimation of Reservoir Using Satellite Image (India)", Advances in Science, Technology & Innovation book series, Springer, pp. 65-68, Dec 2018. Print ISBN978-3-030-01439-1 ; Online ISBN978-3-030-01440-7 https://doi.org/10.1007/978-3-030-01440-7_16
54.	Gobalakrishnan N, Arun C, "Opposition Learning based Grey Wolf Optimizer Algorithm for Parallel Machine Scheduling in Cloud Environment", International Journal of Intelligent Engineering and Systems, Vol. 10, No. 1, pp. 186-195, 2017.

Department of Electronics and Instrumentation Engineering :

Sl. No.	Publication details
1.	T.D. Varsha Shree, K. Revanth, N. Sri Madhava Raja, and V. Rajinikanth, "A hybrid image processing approach to examine abnormality in retinal optic disc," Procedia Computer Science, Vol.125, pp.157-164, 2018. DOI: https://doi.org/10.1016/j.procs.2017.12.022 ISSN: 1877-0509 (Online)
2.	N.Dey, V. Rajinikanth, A.Ashour, and J.M. Tavares, "Social group optimization supported segmentation and evaluation of skin melanoma images," Symmetry, Vol. 10, No.2, pp. 51, 2018. DOI: https://doi.org/10.3390/sym10020051 ISSN: 2073-8994
3.	A. Bakiya, K. Kamalanand, V. Rajinikanth, R.S. Nayak, and S. Kadry, "Deep neural network assisted diagnosis of time-frequency transformed electromyograms,"Multimedia Tools and Applications, pp. 1-17, 2018. DOI: https://doi.org/10.1007/s11042-018-6561-9 ISSN: 1380-7501 (Print) ISSN: 1573-7721 (Online)
4.	A. Bakiya, K. Kamalanand, and V. Rajinikanth, "Assessment of electromyograms using genetic algorithm and artificial neural networks," Evolutionary Intelligence, pp.1-11, 2018. DOI: https://doi.org/10.1007/s12065-018-0174-0 ISSN: 1864-5909 (Print) ISSN: 1864-5917 (Online)
5.	S.C. Satapathy, and V. Rajinikanth, "Jaya Algorithm Guided Procedure to Segment

	Tumor from Brain MRI,"Journal of Optimization,Volume 2018, Article ID 3738049, 12 pages, 2018. DOI: https://doi.org/10.1155/2018/3738049 ISSN: 2356-752X (Print) ISSN: 2314-6486 (Online)
6.	Y. Wang, F. Shi, L. Cao, N.Dey, Q. Wu, A.S.Ashour, S.Sherratt, and V. Rajinikanth,"Morphological segmentation analysis and texture-based support vector machines classification on mice liver fibrosis microscopic images,"Current Bioinformatics, 2018. DOI : 10.2174/1574893614666190304125221 ISSN: 2212-392X (Online) ISSN: 1574-8936 (Print)
7.	N. Sri Madhava Raja, S.L. Fernandes, N. Dey, S.C. Satapathy, and V. Rajinikanth, "Contrast enhanced medical MRI evaluation using Tsallis entropy and region growing segmentation,"Journal of Ambient Intelligence and Humanized Computing, pp.1-12, 2018. DOI: https://doi.org/10.1007/s12652-018-0854-8 ISSN1868-5137 (Print) ISSN1868-5145 (Online)
8.	S.C. Satapathy, N. Sri Madhava Raja, V. Rajinikanth, A.S. Ashour, and N. Dey, "Multi-level image thresholding using Otsu and chaotic bat algorithm,"Neural Computing and Applications, pp.1-23, 2018. DOI: https://doi.org/10.1007/s00521-016-2645-5 (Print)ISSN0941-0643 (Online) ISSN1433-3058
9.	V. Rajinikanth, and S.C. Satapathy, "Segmentation of ischemic stroke lesion in brain MRI based on social group optimization and Fuzzy-Tsallis entropy,"Arabian Journal for Science and Engineering, Vol. 43, No.8, pp. 4365-4378, 2018. DOI: https://doi.org/10.1007/s13369-017-3053-6 (Print) ISSN2193-567X (Online) ISSN2191-4281
10.	V. Rajinikanth, N. Dey, S.C. Satapathy, and A.S. Ashour, "An approach to examine magnetic resonance angiography based on Tsallis entropy and deformable snake model,"Future Generation Computer Systems, Vol. 85, pp.160-172, 2018.
11.	Deepti, S, Raja, N Sri Madhava, Godweena, A Kirthini. Kapur/Tsallis Entropy Guided Segmentation of Plasmodium Species from Thin Blood Smear Images. Journal of Engineering Science and Technology. 2018;83-93, 18234690
12.	N. Sri Madhava Raja, Deeptisuresh, A. KirthiniGodweena.A novel image processing scheme to evaluate breast thermal images.Journal of Engineering Science and Technology. 2018;106-115,18234690.
13.	L.R. Swathika, and V. Vijayan, Tunable method of PID controller for unstable system. International Journal of Pure and Applied Mathematics. 119(15), 1591-1598, 2018. ISSN: 1311-8080
14.	V. Vijayan, A. Srinivasan, and K. Palani Thanaraj, Design of PID Controller for IPDT System Based On Double First Order plus Time Delay Model. International Journal of Pure and Applied Mathematics. 2018; 119(15), 1563-1569. ISSN: 1314-3395 (on-line version)
15.	V. Supraja, and V. Vijayan, Optimal H2 IMC-PID controller with set-point weighting for integrating processes. International Journal of Pure and Applied

	Mathematics. 118(11), 195-198, 2018. ISSN: 1311-8080
16.	S. Meena, and K. Chitra, An approach of firefly algorithm with modified brightness for PID and I-PD controllers of SISO systems. Journal of Ambient Intelligence and Humanized Computing. 2018;, 1-9 ISSN:1868-5137. DOI:10.1007/s12652-018-0747-x
17.	D. Singaravelu, B. SenthilKumar, Yuvanesh Kumar, and M. Nivethitha Devi, Sliding mode control for a second order unstable system. International Journal of Pure and Applied Mathematics. 2018; 118(20), 337-342
18.	Kumar, BSenthil, Manic, KS. Fast Terminal Sliding Mode Control for High Pressure Rated Modified CSTR System. Advances in Systems, Control and Automation. 2018;, 559-568 https://doi.org/10.1007/978-981-10-4762-6_53
19.	R. Anisha Rajam, P. Deepa, and R. Reshmi . A soft computing approach to segment tumour region from Brain MRI. International journal of Pure and applied mathematics,Volume 117 No:20,2017, pg 131-139.
20.	N. Siva Balan, J. Surya, and D. Shriranjani 2018, 'A Human-Computer Interface Based On Single Channel EMG Signal To Control A Robotic Wheelchair', International Journal of Pure and Applied Mathematics, vol. 118, no. 5, pp. 11053-11065
21.	S. Suganya, P. Deepa, and V. Rajinikanth, "Design of PID controller for chemical process-heuristic algorithm approach," In. Third International Conference on Science Technology Engineering & Management (ICONSTEM), pp. 1001 – 1004, 2018. DOI: 10.1109/ICONSTEM.2017.8261314 ISBN: 978-1-5090-4855-7 (Electronic) Print on Demand(PoD) ISBN: 978-1-5090-4856-4
22.	K. Revanth, T.D. Varshashree, N. Sri Madhava Raja, and V. Rajinikanth, "Computational Investigation of Stroke Lesion Segmentation from Flair/DW Modality MRI," In. Fourth International Conference on Biosignals, Images and Instrumentation (ICBSII), pp. 206-212 , 2018. DOI: 10.1109/ICBSII.2018.8524617 ISBN: 978-1-5386-4472-0 (Electronic) DV ISBN: 978-1-5386-4471-3 (DVD) Print on Demand(PoD) ISBN: 978-1-5386-4473-7
23.	N.Kowsalya, A.Kalyani, C. Jasmine Chalcedony, R.Sivakumar, M.Janani, and V. Rajinikanth, "," In. Fourth International Conference on Biosignals, Images and Instrumentation (ICBSII), pp. 206-212, 2018. DOI: 10.1109/ICBSII.2018.8524655 ISBN: 978-1-5386-4472-0 (Electronic) DV ISBN: 978-1-5386-4471-3 (DVD) Print on Demand(PoD) ISBN: 978-1-5386-4473-7
24.	S.P. Sachin Raj, N. Sri Madhava Raja, M.R. Madhumitha, and V. Rajinikanth, "Examination of Digital Mammogram Using Otsu's Function and Watershed Segmentation," In. Fourth International Conference on Biosignals, Images and Instrumentation (ICBSII), pp. 206-212, 2018. DOI: 10.1109/ICBSII.2018.8524794 ISBN: 978-1-5386-4472-0 (Electronic) DV ISBN: 978-1-5386-4471-3 (DVD) Print on Demand(PoD) ISBN: 978-1-5386-4473-7

25.	Manisha. S. Mani, S. Manisha, K. Palani Thanaraj, and V. Rajinikanth, "Automated segmentation of Giemsa stained microscopic images based on entropy value," In. International Conference on Intelligent Computing, Instrumentation and Control Technologies (ICICICT), pp. 1124 – 1128, 2018. DOI: 10.1109/ICICICT1.2017.8342727 ISBN: 978-1-5090-6106-8 (Electronic) Print on Demand(PoD) ISBN: 978-1-5090-6107-5
26.	V. Rajinikanth, N. Sri Madhava Raja, S. Chandra Satapathy, N. Dey, and G. GlanDevadhas, "Thermogram Assisted Detection and Analysis of Ductal Carcinoma In Situ (DCIS)," In. International Conference on Intelligent Computing, Instrumentation and Control Technologies (ICICICT), pp. 1641 - 1646, 2018. DOI: 10.1109/ICICICT1.2017.8342817 ISBN: 978-1-5090-6106-8 (Electronic) Print on Demand(PoD) ISBN: 978-1-5090-6107-5
27.	N.Kowsalya, A.Kalyani, T.D.Varsha Shree, N. Sri Madhava Raja, and V. Rajinikanth, "Skin-Melanoma Evaluation with Tsallis's Thresholding and Chan-Vese Approach," In. IEEE International Conference on System, Computation, Automation and Networking (ICSCA), pp.1-5, 2018. DOI: 10.1109/ICSCAN.2018.8541178 ISBN: 978-1-5386-4866-7 (Electronic) ISBN: 978-1-5386-4865-0 (CD-ROM) Print on Demand(PoD) ISBN: 978-1-5386-4867-4
28.	S.Varsha, V. Rajinikanth, and G.AnanthPrabhu, "Gray Scale Image Multi-Thresholding with Chaotic Cuckoo Search," In. IEEE International Conference on System, Computation, Automation and Networking (ICSCA), pp.1-5, 2018. ISBN: 978-1-5386-4866-7 (Electronic) ISBN: 978-1-5386-4865-0 (CD-ROM) Print on Demand(PoD) ISBN: 978-1-5386-4867-4
29.	J.G. Leena, K. Sundaravadivu, R. Monisha, and V. Rajinikanth, "Design of Fractional-Order PI/PID Controller for SISO System Using Social-Group-Optimization," In. IEEE International Conference on System, Computation, Automation and Networking (ICSCA), pp.1-5, 2018. DOI: 10.1109/ICSCAN.2018.8541203 ISBN: 978-1-5386-4866-7 (Electronic) ISBN: 978-1-5386-4865-0 (CD-ROM) Print on Demand(PoD) ISBN: 978-1-5386-4867-4
30.	Leena, JG, Sundaravadivu, K, Monisha, R, Rajinikanth, V. Design of Fractional-Order PI/PID Controller for SISO System Using Social-Group-Optimization. 2018 IEEE International Conference on System, Computation, Automation, 2018; DOI: 10.1109/ICSCAN.2018.8541203
31.	Karthicraja, VM, Prasad, VLK, Kruthika, U, Sivakumar, R. Smart Wearable Systems for Personal Care with Internet of Things. 2018 Fourth International Conference on Biosignals, Images , 2018; DOI: 10.1109/ICBSII.2018.8524612
32.	Kowsalya, N, Kalyani, A, Chalcedony, CJ, Sivakumar, R, Janani, M, An Approach to Extract Optic-Disc from Retinal Image Using K-Means Clustering. 2018 Fourth International Conference on Biosignals, Images and , 2018; DOI: 10.1109/ICBSII.2018.8524655
33.	Narayanan, VS, Elavarasan, R, Gnanaprakasam, C N, Raja, NSM, Heuristic

	Algorithm based Approach to Classify EEG Signals into Normal and Focal. 2018 IEEE International Conference on System, Computation, Automation, 2018;DOI: 10.1109/ICSCAN.2018.8541180
34.	Maheswari, B, Mohanapriya, N, Raja, NSM. Robust RGB Image Thresholding with Shannon's Entropy and Jaya Algorithm. 2018 IEEE International Conference on System, Computation, Automation, 2018; DOI: 10.1109/ICSCAN.2018.8541205
35.	Elson, J, Precilla, J, Reshma, P, Madhavaraja, NS. Automated extraction and analysis of retinal blood vessels with Multi Scale Matched Filter. International Conference on Intelligent Computing, Instrumentation, 2018; DOI: 10.1109/ICICICT1.2017.8342662
36.	Sudhan, GHariHara, Aravind, RG, Thanaraj, KP. Multispectral Analysis of Satellite Images Using Heuristic Algorithm. 2018 International Conference on Communication and Signal Processing (ICCSP) , 2018; DOI: 10.1109/ICCSP.2018.8524429
37.	Shijo, John K, Palani, TK, Kumar, SS. Design of Controllers for T1DM blood Glucose Insulin Dynamics based on Constrained Firefly Algorithm. 2018 4th International Conference on Electrical Energy Systems (ICEES). 2018;, 116-120 DOI: 10.1109/ICEES.2018.8443246
38.	Mohanraj M, BSethilKumar. Design and analysis of sliding mode control for an unstable FOPTD. International Conference on Recent Trends in Electrical, Control, 2018; ISBN:978-1-5386-4310-5/18
39.	Vijayakumari, SG, Sindhuja, S, Sivagurunathan, G. Kapur's Thresholding and DRLS Segmentation to Extract Lung Region from Chest CT Picture. 2018 IEEE International Conference on System, Computation, Automation, 2018; DOI: 10.1109/ICSCAN.2018.8541190
40.	Suganya, S, Deepa, P, Rajinikanth, V. Design of PID controller for chemical process-heuristic algorithm approach. Science Technology Engineering & Management (ICONSTEM), 2017
41.	B. Dinesh, S. Abdul Kaleem Shah, C.R. Aishwarya, R. Angel Sujitha, A.G. Naveenya,"An Automated Tool to Segment Blood Vessel from RGB Retinal Images," IEEE International Conference on Computational Intelligence and Computing Research (ICCIC), pp.1-4, 2018. Doi: 10.1109/ICCIC.2017.8524357.
42.	AmirthaPriyadharshini; N. Hariprasad; S. Asvitha; V. Anandhi; A.P. SwethaPriyadarshini. An Approach to Segment Computed Tomography Images using Bat Algorithm. 2018 International Conference on Recent Trends in Electrical, Control and Communication (RTECC)
43.	V.Rajinikanth, S.L.Fernandes, B.Bhushan, and N.R. Sunder, "Segmentation and analysis of brain tumor using Tsallis entropy and regularised level set," In: Satapathy S., Bhateja V., Chowdary P., Chakravarthy V., Anguera J. (eds) Proceedings of 2nd International Conference on Micro-Electronics, Electromagnetics and Telecommunications. Lecture Notes in Electrical Engineering, vol. 434, pp. 313-321, 2018. Springer, Singapore. DOI: https://doi.org/10.1007/978-981-10-4280-5_33 ISBN978-981-10-4279-9 (Print) ISBN978-981-10-4280-5 (Online)
44.	I. ThivyaRoopini, M. Vasanthi, V. Rajinikanth, M. Rekha, and M. Sangeetha, "Segmentation of Tumor from Brain MRI Using Fuzzy Entropy and Distance

	Regularised Level Set,"In: Nandi A., Sujatha N., Menaka R., Alex J. (eds) Computational Signal Processing and Analysis. Lecture Notes in Electrical Engineering, vol. 490, pp. 297-304, 2018. Springer, Singapore. DOI: https://doi.org/10.1007/978-981-10-8354-9_27 Print ISBN978-981-10-8353-2 Online ISBN978-981-10-8354-9
45.	D.Shriranjani, S.G.Tebby, S.C. Satapathy, N.Dey, and V.Rajinikanth, "Kapur's entropy and active contour-based segmentation and analysis of retinal optic disc,"In: Nandi A., Sujatha N., Menaka R., Alex J. (eds) Computational Signal Processing and Analysis. Lecture Notes in Electrical Engineering, vol. 490, pp. 287-295, 2018. Springer, Singapore. DOI: https://doi.org/10.1007/978-981-10-8354-9_26 Print ISBN978-981-10-8353-2 Online ISBN978-981-10-8354-9
46.	V. Rajinikanth, S.C. Satapathy, N. Dey, andR.Vijayarajan, "DWT-PCA image fusion technique to improve segmentation accuracy in brain tumor analysis,"In: Anguera J., Satapathy S., Bhateja V., Sunitha K. (eds) Microelectronics, Electromagnetics and Telecommunications. Lecture Notes in Electrical Engineering, vol. 471, pp. 453-462, 2018. Springer, Singapore. DOI: https://doi.org/10.1007/978-981-10-7329-8_46 ISBN: 978-981-10-7328-1 (Print) ISBN: 978-981-10-7329-8 (Online)
47.	V. Rajinikanth, S.C. Satapathy, N. Dey, and Hong Lin, "Evaluation of ischemic stroke region from CT/MR images using hybrid image processing techniques,"In. Intelligent Multidimensional Data and Image Processing, pp. 194-219, 2018. IGI Global. DOI: 10.4018/978-1-5225-5246-8.ch00 ISBN-10: 1522552464
48.	Thendral, N, Lakshmi, D. Performance Comparison of SVM Classifier Based on Kernel Functions in Colposcopic Image Segmentation for Cervical Cancer.;DOI: 10.1007/978-3-030-00665-5_168, Lecture Notes in Computational Vision and Biomechanics, Vol. 30.
49.	Lakshmi, D, Niruban, R. Mathematical Model for Characterization of Lung Tissues using Multiple Regression Analysis.DOI:10.1007/978-981-13-0514-6_12, Advances in Intelligent Systems and Computing, Vol .758.

Department of Science and Humanities:

Sl. No.	Publication details
1.	R. Sasikala, B. Subash, K. Jayamoorthy, S. Kutti Rani, "Synthesis, Characterization and Recyclable Cerium Loaded CuO Nanocatalyst for the Synthesis of 1, 4-Disubstituted 1, 2, 3-Triazoles and Propargylamines," Silicon, 10(3), 1095-1101, 2018.
2.	R. Sasikala, B. Subash, Oxidative Degradation of Glycine by Peroxomonosulphate at Neutral Medium-Catalytic effect of Copper (II), Research Journal of Pharmacy and Technology, 11(10), 4679-4682, 2018.
3.	S.M. Prakash, K. Jayamoorthy, N. Srinivasan, T.S. Rajasekar, B. Subash, "Nano-SiO2: An Efficient Catalyst for the Synthesis of Some new Benzimidazoles - NMR

	Spectral Characterization," Silicon, 9(6), 949-954, 2017.
4.	S. Suresh, B. Subash, S. Karthikeyan, "Electrical, optical and photocatalytic properties of Ti-loaded ZnO/ZnO and Ti-loaded ZnO nanospheres," Journal of the Iranian Chemical Society, 14(7), 1591-1600, 2017.
5.	B. Subash, M. Shanthi, "Photocatalytic Detoxification of NBB Dye Over Cerium Loaded Ag–ZnO Photocatalyst Under UV-A Light Irradiation," DJ Journal of Engineering Chemistry and Fuel, 2(1), 30-40, 2017.
6.	S. Savitha, S. Srinivasalu, S. Suresh, K. Jayamoorthy, "Distribution of Heavy Metals in the Marine Sediments of Various Sites in Karaichalli Island, Tuticorin, Gulf of Mannar, India," Silicon, 10(4), 1419-1425, 2018.
7.	S. Suresh, P. Nisha, P. Saravanan, K. Jayamoorthy, S. Karthikeyan, "Investigation of the Thermal and Dielectric Behavior of Epoxy Nano-Hybrids by using Silane Modified Nano-ZnO," Silicon, 10(4), 1291-1303, 2018.
8.	S. Suresh, K. Jayamoorthy, S. Karthikeyan, "Switch-on fluorescence of 5-amino-2-mercapto benzimidazole by Mn3O4 nanoparticles: Experimental and theoretical approach," Journal of Luminescence, 198, 28-33, 2018.
9.	N.R. Rajagopalan, P. Krishnamoorthy, K. Jayamoorthy, "Experimental and Computational Studies of Bis (thiourea) Lead Chloride: Semi-organic Material for NLO Applications," Silicon, pp.1-11, 2018.
10.	P. Navamani, P. Loganayaki, K. Jayamoorthy, N. Srinivasan, "Synthesis, NMR Spectral and DFT Studies of Styryl Imidazole Derivatives—Nano-SiO2 as an Efficient Catalyst," Silicon, 10(3), 1045-1050, 2018.
11.	N.R. Rajagopalan, P. Krishnamoorthy, K. Jayamoorthy, "Experimental and Theoretical Investigations of Tetrakis (Thiourea) Palladium Chloride Semi-Organic Non-Linear Optical Crystal: An Approach to NLO Application," 10(3), 841-850, 2018.
12.	P. Saravanan, D. Duraibabu, K. Jayamoorthy, S. Suresh, S. Ananda Kumar, "Twin applications of tetra-functional epoxy monomers for anticorrosion and antifouling studies," Silicon, 10(2), 555-565, 2018.
13.	NR. Rajagopalan, P. Krishnamoorthy, K. Jayamoorthy, S. Manikandan, "Synthesis, Characterization, Thermal Analysis, Nucleation Kinetics and DFT Studies of Bis (thiourea) Antimony Tribromide as Potential NLO Material: Comparison of Experimental ," Journal of Inorganic and Organometallic Polymers and Materials, 27(5), 1457-1465, 2017.
14.	NR. Rajagopalan, P. Krishnamoorthy, K. Jayamoorthy, P. Krishnan, "Synthesis, characterization, nucleation kinetics, mechanical, photo conductivity, birefringence and DFT studies of tris (thiourea) zinc selenate as potential NLO material," Journal of Inorganic and Organometallic Polymers and Materials, 27(5), 1199-1210, 2017.
15.	NR. Rajagopalan, P. Krishnamoorthy, K. Jayamoorthy, "A strategic approach to physico-chemical analysis of bis (thiourea) lead chloride–A reliable semi-organic nonlinear optical crystal," Optics & Laser Technology, 89, pp.6-15. 2017.
16.	S. Pandi Prabha, Johanna Rajkumar, S. Suresh, S. Karthikeyan, "Antiosteoporotic effect of Hydrilla verticillata against lead induced damage in bone samples of edible fish Labeo rohita–an FTIR approach," Materials Science and Engineering: C, 90, pp. 657-663, 2018.
17.	Saravanan Palanivelu, Duraibabu Dhanapal, Ananda Kumar Srinivasan, "Studies on Silicon Containing Nano-hybrid Epoxy Coatings for the Protection of Corrosion and Bio-Fouling on Mild Steel," Silicon, 9(3), 447-458, 2017.

Research projects received :

Year wise fund received for research projects sponsored by the government and non-government (Amount Received, Year Wise)

S. No.	Name of the Principal Investigator/Co-investigator	Department of Principal Investigator	Name of the Project/ Endowments, Chairs	Amount Received	Month and Year Received	Name of the Funding Agency	Type (Government/non-Government)
2013-14							
1	Dr. Chitra	ELECTRONICS AND COMMUNICATION ENGINEERING	Modernaization and development of measurements and Instrumentation lab using VLSI Technology	Sep-13	550000	1 year	AICTE
2014-15							
NIL							
2015-16							
1	Dr.G.Baskar	Biotechnology	Enzymatic mitigation of a crylamide in heat processed starchy food products using fungal asparaginase	20,54,866	September 2015	Science & Engineering Research Board, Government of India	Government
2	Dr.G.Baskar (PI) Dr.M.Chamundeeswari (Co-PI)	Biotechnology	Anticancer activity of multifunctional nano bio composites of L-asparaginase and metal nano particles	13,76,000	October 2015	Department of Biotechnology, Government of India	Government
3	Dr. N. Arunkumar	Mechanical	Investigation of deep hole drilling of ASI1045 steel and analysis of tool wear under varying aspect ratio with different cutting fluids.	12,70,588	September 2015	AICTE	Government
4	Dr. C.Heltin Genitha M. Indhumathi	Information Technology	Super-Resolution Mapping Algorithms for Accurate Estimation of the Capacity of Reservoirs of Chennai City Using Satellite Images	510000	Feb 2016	Department of Science and Technology (Natural Resources Data	Government

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						Management System)	
5	K. Suresh	Information Technology	Big Data Analytics Lab	490000	Sep 2016	CTS	Non-Government

2016-17

1	Dr.G.Baskar (PI) Dr.M.Chamundeeswari (Co-PI)	Biotechnology	Anticancer activity of multifunctional nanobiocomposites of L-asparaginase and metal nanoparticles	5,67,000	May 2017	Science & Engineering Research Board, Government of India	Government
2	Dr. N. Arunkumar	Mechanical	Investigation of deep hole drilling of ASI1045 steel and analysis of tool wear under varying aspect ratio with different cutting fluids.	70588	September 2016	AICTE	Government

2017-18

1	Dr.R. Sivakumar	EIE	Sewage Block detection	10,000	Jan 2018	Tamil Nadu State Council for Science and Technology	Government
	Mrs. S. Meena	EIE	Controller design for TITO Processes using optimization algorithm	10,000	Jan 2018	do	do
	Mr. D. Dineshkumar	EIE	Design and Controller for interacting spherical tank system	10,000	Jan 2018	do	do
2	Dr. N. Arunkumar	Mechanical	Investigation of deep hole drilling of ASI1045 steel and analysis of tool wear under varying aspect ratio with different cutting fluids.	70588	September 2017	AICTE	Government

2018-19

1	Dr.G.Baskar	Biotechnology	Enzymatic mitigation of acrylamide in heat processed starchy food products using fungal asparaginase	8,00,000	July 2018	Science & Engineering Research Board, Government of India	Government
2	Dr.G.Baskar (PI) Dr.M.Chamundeeswari (Co-PI)	Biotechnology	Anticancer activity of multifunctional nano bio composites of L-asparaginase and metal nano	5,80,000	August 2018	Department of Biotechnology, Government of India	Government

			particles				
3	Dr. V. Muthulakshmi	Information Technology	Healthcare using IOT	20000	Nov 2018	Tamil Nadu State Council for Science and Technology	Government
4	G. Lathaselvi K.Deepa	Information Technology	Smart tariff for power consumption using smart energy meter	7500	Feb 2019	Tamil Nadu State Council for Science and Technology	Government
5	Dr.S.Rajesh Kannan	ELECTRONICS AND COMMUNICATION ENGINEERING	Automatic crop based irrigation system	Rs. 7500	Feb 2019	Tamil Nadu State Council for Science and Technology	Government
6	Mr. D. Dineshkumar	EIE	Wireless pollution monitoring and pest eradication in Agricultue for Eco-friendly	Rs. 7500	Feb 2019	Tamil Nadu State Council for Science and Technology	Government
7	Dr.K.M.Kumar	Mechanical Engineering	Fabrication and analysis of mechanical behaviour of polymer matrix hybrid composite reinforced with carbon fibre and SMA shee	Rs. 7500	Feb 2019	Tamil Nadu State Council for Science and Technology	Government
8	Sangeetha B	Biotechnology	Testing of anti-psoriatic activity using a combination of aloe vera and marine algae as TNF ALPHA inhibiton	Rs. 7500	Feb 2019	Tamil Nadu State Council for Science and Technology	Government

Value Added Courses Offered To Students:

DEPARTMENT OF COMPUTER SCIENCE ENGINEERING:

Sl No	Name of the Course	Year	Organization / Institute	Course Duration	Date Conducted	No of Students Attended	Course Objective
1.	CCNA	III	AMAS Technologies	6 Days	27-06-2017 to 03-07-2017	22	To prepare for Cisco CCNA certification with CCNA switching and routing devices.
2.	Cloud Computing	II	Innovians Technologies	6 Days	27-06-2017 to 03-07-2017	29	To practice using a network of remote servers hosted on the internet.
			Stigmata Solutions	6 Days	27-06-2017 to 03-07-2017	25	To develop we applications and learn about cloud computing architecture, infrastructure and cloud deployment and service models
3.	Cyber Security	III	Stigmata Solutions	6 Days	27-06-2017 to 03-07-2017	25	To learn technologies and processes to protect networks, computers programs and data from attack, damage or unauthorized access.
4.	Python &IoT	III	Digiterati	6 Days	27-06-2017 to 03-07-2017	32	To learn introduction to IoT and Role of python in interfacing Devices and Computer
5.	Bigdata Analytics	III	Stigmata Solutions	6 Days	27-06-2017 to 03-07-2017	35	To get knowledge about Bigdata, Hadoop ecosystem and

Sl No	Name of the Course	Year	Organization / Institute	Course Duration	Date Conducted	No of Students Attended	Course Objective
							querying bigdata with Hive
6.	IoT with Data analytics	III	Stigmata Solutions	6 Days	27-06-2017 to 03-07-2017	35	To learn about the inter-networking of physical devices as it become a increasingly growing topic in the workplace and outside world.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING:

Sl No	Name of the Course	Year	Organization / Institute	Course Duration	Date Conducted	No of Students Attended	Course Objective
1	Internet of Things	III	Eye open Technologies	6	27.06.2017 to 03.07.2017	123	To learn about the inter-networking of physical devices
2	Embedded Robotics	III	Ielektron Technologies	6	27.06.2017 to 03.07.2017	85	To gain practical knowledge to do projects in Embedded Robotics

DEPARTMENT OF MECHANICAL:

Sl No	Name of the Course	Year	Organization / Institute	Course Duration	Date Conducted	No of Students Attended	Course Objective
1.	Computational Fluid Dynamics with open ware software	III	UDVAVISK Technologies.	64	19-06-2017 to 24-06-2017	96	Theoretical and Practical study of CFD with open source software
2.	Finite Element Analysis	III	UDVAVISK Technologies.	64	19-06-2017 to 24-06-2017	59	Theoretical and Practical study of FEA with open source software
3.	Advanced Hydraulics and Pneumatics	III	Michelin Tyres India	64	19-06-2017 to 24-06-2017	50	Industrial hands on training in hydraulic and pneumatic.

Sl No	Name of the Course	Year	Organization / Institute	Course Duration	Date Conducted	No of Students Attended	Course Objective
4.	Hands on Training in Automotive Engine assembly, Transmission drives and Air Conditioning Unit	III	Goodwin motors	64	19-06-2017 to 24-06-2017	79	Knowledge that in basic parts of engine, transmissionparts them of automotive systems and R&AC

DEPARTMENT OF CIVIL ENGINEERING:

Sl No	Name of the Course	Year	Organization / Institute	Course Duration	Date Conducted	No of Students Attended	Course Objective
1.	REVIT Architecture	III	ARK Info solutions Pvt. Ltd.	6 Days	27-06-2017 to 03-07-2017	75	To design a building and structure and its components in 3D, annotate the model with 2D drafting elements.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING:

Sl No	Name of the Course	Year	Organization / Institute	Course Duration	Date Conducted	No of Students Attended	Course Objective
1.	Introduction to 32-bit ARM Cortex-M0+ Microcontroller Programming	III	SANDS	6 Days	27.06.2017-03.07.2017	49	To learn an Embedded System and microcontroller (CPU, Busses, Memory, I/O ports)
2.	Automation using PLC & HMI	III	Progyaan	6 Days	27.06.2017-03.07.2017	49	The course deals mainly with data acquisition and management. Students will learn about the communication with PLC and

Sl No	Name of the Course	Year	Organization / Institute	Course Duration	Date Conducted	No of Students Attended	Course Objective
							other hardware, and commissioning of network nodes.
3.	PCB Design	III	Prolific Systems	6 Days	27.06.2017-03.07.2017	48	To Learn PCB layout design for SMD (Surface mount devices) components.
4.	Solar Photovoltaic System Design, Installation & Maintenance	III	TRANSUN Energy Systems	6 Days	27.06.2017-03.07.2017	48	To plan and execute an integrated programme on development and implementation of renewable energy projects

DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING:

Sl No	Name of the Course	Year	Organization / Institute	Course Duration	Date Conducted	No of Students Attended	Course Objective
1.	Embedded real time Instrumentation system	III	iElectron Technologies and solutions	6 days	26-06-2017 to 03-07-2017	55	To understand the integration of wireless sensor networks into process instrumentation.
2.	Robotics based on IoT	III	Emsol systems	6 days	26-06-2017 to 03-07-2017	48	To Learn programming and implementation of Raspberrypiapplicable to robotics.
3.	PLC and DCS	III	Vipra Engineers and Projects	6 days	26-06-2017 to 03-07-2017	62	To learn about intelligent instrumentation to address industrial automation using PLC and DCS

DEPARTMENT OF INSTRUMENTATION AND CONTROL ENGINEERING:

Sl No	Name of the Course	Year	Organization / Institute	Course Duration	Date Conducted	No of Students Attended	Course Objective
1.	E-Box	II	Amphisoft Technologies Pvt.Ltd	3 Days	12-06-2017 to 14-06-2017	58	Active Learning and assessment platform in C programming.
2.	BEC	II	Cambridge English assessment	6 Days	27-06-2017 to 03-07-2017	58	To have a good knowledge of English for practical, everyday use in business.
3.	PLC	III	Yokogawa	6 Days	19-06-2017 to 24-06-2017	61	Developing knowledge in PLC programming

DEPARTMENT OF BIOTECHNOLOGY TECHNOLOGY:

Sl No	Name of the Course	Year	Organization / Institute	Course Duration	Date Conducted	No of Students Attended	Course Objective
1.	Animal handling, Animal dosing, Animal blood Collection, ELISA Techniques	I/ M.Tech	Micro Therapeutics Laboratory, Ambattur, Chennai	4 days	25-28th September 2017	6	To gain experience on hands on training on Rabbit and Guinea pigs
2.	Real Time PCR techniques	II/ M.Tech	Micro Therapeutics Laboratory, Ambattur, Chennai	1 day	21st September 2017	5	To acquire knowlege about real time PCR and its application
3.	Hands on Trainng on Molecular Biology Techniques	III/B.Tech	Abbes Biotech, Chennai	6 days	19-24th June 2017	6	To understand the principle of blotting techniques

DEPARTMENT OF CHEMICAL ENGINEERING:

Sl No	Name of the Course	Year	Organization / Institute	Course Duration	Date Conducted	No of Students Attended	Course Objective
1.	Instrumentation in Chemical Industries	III	Yokogawa India Limited	6 Days	27/06/2017	72	To learn Instrumentation and process control in Chemical Industries
2.	C/C++ course	II	EBOX	3 Days	27/06/2017 to 29/06/2017	65	To enhance the programming aspects in C/C++.

DEPARTMENT OF INFORMATION TECHNOLOGY:

Sl No	Name of the Course	Year	Organization / Institute	Course Duration	Date Conducted	No of Students Attended	Course Objective
1.	CCNA	II	AMOS Technologies	6 Days	19-06-2017 to 24-06-2017	43	To prepare for Cisco CCNA certification with CCNA switching and routing devices.
2.	Cloud Computing	II	Innovians	6 Days	19-06-2017 to 24-06-2017	54	To practice using a network of remote servers hosted on the internet.

3.	Cyber Security	II	Stigmata	6 Days	19-06-2017 to 24-06-2017	40	To learn technologies and processes to protect networks, computers programs and data from attack, damage or unauthorized access.
4.	Web development	II	Guvi	6 Days	19-06-2017 to 24-06-2017	48	To practice in advanced web development languages jquery, boostrap and nodejs

Inplant training :

Sl. No	Name of the Student	Register No.	Course Code	Company with Address	Duration
1	R.Riju	312317114136	**114**	Southern petrochemical industries corporation limited SPIC Nagar,muthiahpuram post,Tuticorin-628005	26/11/18 to 30/11/18
2	J.Jerdin Nesakumar	312317114080	**114**	Southern petrochemical industries corporation limited SPIC Nagar,muthiahpuram post,Tuticorin-628005	26/11/18 to 30/11/18
3	M.Kalai Selvan	312317114088	**114**	Hyundai Motor Pvt Ltd,Irungattukotai-602117.	26/11/18 to 30/11/18
4	M.Vishal Aravinth	312317114188	**114**	Susee Hyundai Pvt Ltd,Madurai	19/11/18 to 23/11/18
5	W.Robin Shelton	312317114138	**114**	Chennai Port,Rajaji Salai, Chennai-600001	27/11/18 to 1/12/18
6	M.Vishal	312317114186	**114**	Chennai Port,Rajaji Salai, Chennai-600001	27/11/18 to 1/12/18
7	Rohit Hariharan.R	312317114140	**114**	Schwing Stetter,Irungattukotai,Sriperumbudur-602117.	20/11/18 to 23/11/18
8	Hariharan.A	312317114064	**114**	Indo Shell Cast Pvt.Ltd,Ambattur IE,Chennai-600058	26/11/18 to 30/11/18

9	Naveen Kumar.R	312317114117	**114**	CRI Pumps Pvt Ltd,Coimbatore-641035.	26/11/18 to 29/11/18
10	Hejo Antony.H.J	312317114069	**114**	Travancore Titanium Pvt.Ltd,Trivandrum,Kerala-695021	26/11/18 to 30/11/18
11	G.Hemanth Prakash	312317114070	**114**	Southern Railway,Office of the senior divisional electrical engineer, Rolling stockElectric loco shed ,Electric loco shed,Royapuram-600013	26/12/18 to 31/12/18
12	Pugazhendhi	312317114129	**114**	Southern Railway,Office of the senior divisional electrical engineer, Rolling stockElectric loco shed ,Electric loco shed,Royapuram-600013	26/12/18 to 31/12/18
13	Moulis.B.S	312317114112	**114**	Southern Railway,Office of the senior divisional electrical engineer, Rolling stockElectric loco shed ,Electric loco shed,Royapuram-600013	26/12/18 to 31/12/18
14	Merwin Milton	312317114107	**114**	Southern Railway,Office of the senior divisional electrical engineer, Rolling stockElectric loco shed ,Electric loco shed,Royapuram-600013	26/12/18 to 31/12/18
15	S.Vigneshwar	312317114185	**114**	Auto tech Solutions,Chennai.	23/11/18 to 30/11/18
16	S.Vignesh	312317114184	**114**	Auto tech Solutions,Chennai.	23/11/18 to 30/11/18
17	N.Shri Vishnu	312317114163	**114**	Auto tech Solutions,Chennai.	23/11/18 to 30/11/18
18	P.Sethuvelappan	312317114155	**114**	Auto tech Solutions,Chennai.	23/11/18 to 30/11/18
19	V.Kamalraj	312317114315	**114**	Cafoma Autoparts Pvt Ltd,Ranipet,Vellore-63240.	24/12/18 to 29/12/18
20	R.Kamalesh Kumar	312317114089	**114**	Madras Electroplaters,Thirumudivakkam,Chennai-44	03/12/18 to 08/12/18
21	G.K.Vishwanath	312317114189	**114**	VAMTEC Machines & Automation Pvt Ltd,Ambattur, Chennai	19/11/18 to

					24/11/18
22	Shibi Jose	312317114161	**114**	VAMTEC Machines & Automation Pvt Ltd,Ambattur, Chennai	19/11/18 to 24/11/18
23	K.Amudhan	312317114012	**114**	Tvs Tyres,7B, West velli street,Madurai-625001	3/12/18 to 6/12/18
24	J.Sriram	312317114167	**114**	UNIQ Technologies,1 Shifa Arcade,3rd floor,Bharathi Nagar first street,T.Nagar,Chennai-600017.	23/11/18 to 27/11/18
25	Akash.D	312317114001	**114**	Southern Railway,Golden Rock,Trichy-620004	3/12/18 to 8/12/18
26	Sanjay Ramesh	312317114150	**114**	New Tech Auto Components Pvt Ltd,Thirumudivakam, Chennai-44.	26/12/18 to 28/12/18
27	S.V.Rohith	312317114139	**114**	NCR Corporation India Pvt Ltd,Kanchipuram-603002	7/12/18 to 11/12/18
28	G.Shankaranarayanan	312317114156	**114**	NCR Corporation India Pvt Ltd,Kanchipuram-603002	7/12/18 to 11/12/18
29	Anju.C	312317114017	**114**	Rane TRW Steering Systems Pvt Ltd,Guduvancherry, Kanchipuram-603202	30/11/18 to 4/12/18
30	Surendhar.R	312317114174	**114**	Rane TRW Steering Systems Pvt Ltd,Guduvancherry, Kanchipuram-603202	30/11/18 to 4/12/18
31	Tamil Selvan	312317114147	**114**	Rane TRW Steering Systems Pvt Ltd,Guduvancherry, Kanchipuram-603202	30/11/18 to 4/12/18
32	Sanjay.R.N	312317114148	**114**	Rane TRW Steering Systems Pvt Ltd,Guduvancherry, Kanchipuram-603202	30/11/18 to 4/12/18
33	S.Kavin Raghav	312317114092	**114**	Samy tyres,Thoothukudi-628002.	26/12/18 to 29/12/18
34	S.Sakthivel	312317114145	**114**	ISUZU Motors,Chittoor,Andhra Pradesh-517646	23/11/18 to 30/11/18
35	Veebesh.R.K	312317114182	**114**	Sree Ganapathy Motors (Maruti Suzuki),Ramavarmapuram, Nagercoil-1	26/11/18 to 29/11/18
36	J.Kevin Levis	312317114093	**114**	TAKRAF,TTK road,Alwarpet,Chennai-18	11/6/18 to 15/6/18
37	Nebin Thomas	312317114118	**114**	Madras Electroplaters,	03/12/18 to

Sl No	Name of the Student	Register No.	Course Code	Company with Address	Duration
				Thirumudivakkam,Chennai-44	08/12/18
38	A.Sanjai King	312317114147	**114**	UNIQ Technologies,1 Shifa Arcade,3rd floor,Bharathi Nagar first street,T.Nagar,Chennai-600017.	30/11/18 to 04/12/18
39	J.Sarathraj	312317114152	**114**	Kaashiv Infotech,Anna nagar,Chennai -40.	21/12/18 to 25/12/18
40	U.Jaiprakash	312317114076	**114**	TVS Training & Services,Ambattur IE, Chennai-58.	3/12/18 to 8/12/18
41	M.Nethaji	312317114119	**114**	PAR Active Technologies,Alandur, Kanchipuram-603103.	26/11/18 to 30/11/18
42	L.Suganeshwaran	312317114171	**114**	Kaashiv Infotech,Anna nagar,Chennai -40.	21/12/18 to 25/12/18
43	Sanjay Khanna	312317114149	**114**	Kaashiv Infotech,Anna nagar,Chennai -40.	21/12/18 to 25/12/18
44	J.Kevin Levis	312317114093	**114**	Madras Electroplaters,Thirumudivakkam, Chennai-44	03/12/18 to 08/12/18

Industrial projects :

Sl. No	Name of the Student	Register No.	Course Code	Company with Address	Duration	Project Title
1	Dinesh kumarS	312315114041	**114**	Indira Gandhi Centre For Atomic Research (IGCAR) Kalpakkam, Tamilnadu - 603127	3 months	Development of Manufacturing Methodology of Special Double Module Glove Box for Nuclear Application
2	Dhanush D	312315114039	**114**	Indira Gandhi Centre For Atomic Research (IGCAR) Kalpakkam, Tamilnadu - 603127	3 months	Development of Manufacturing Methodology of Special Double Module Glove Box for Nuclear Application
3	Dayanithy dhanpal GV	312315114037	**114**	Sri Vinayaka Engineering,New No. 89, Old No. 180, North Phase, Periyar St, Pattravakkam, Sidco Industrial Estate,	1 months	Productivity Improvement by LED (Losses, Errors & Defects) Analysis

			Ambattur - 600098		
4	Daniel ronaldo F	312315114035	**114**	Sri Vinayaka Engineering,New No. 89, Old No. 180, North Phase, Periyar St, Pattravakkam, Sidco Industrial Estate, Ambattur - 600098	1 months	Productivity Improvement by LED (Losses, Errors & Defects) Analysis
5	Gokul balaji T	312315114052	**114**	BHEL, Trichy	2months	Design of Spiral Wall Support for hopper full of ash load condition in SC boiler using FEA techniques
6	Jebin gift alphaeus D	312315114061	**114**	BHEL, Trichy	2months	Design of Spiral Wall Support for hopper full of ash load condition in SC boiler using FEA techniques
7	Hariprasath.P	312315114056	**114**	Infodesign, Mylapore	2months	Digger arm analysis in earth movers
8	Harsha Vardhan Teja.P.M.	312315114057	**114**	Infodesign, Mylapore	2months	Digger arm analysis in earth movers
9	Kathiravan B	312315114081	**114**	Seimens Software Industries India Private Limited, Navigator Building, 7th Floor, ITPL, Banglore - 560066	2months	CFD Analysis of Screw Compressor
10	Karthik EA	312315114078	**114**	Seimens Software Industries India Private Limited, Navigator Building, 7th Floor, ITPL, Banglore - 560066	2months	CFD Analysis of Screw Compressor

Anna university Approved Research centers :

F.2.7

CENTRE FOR RESEARCH
ANNA UNIVERSITY
CHENNAI - 600 025

Dr. K.P. JAYA
DIRECTOR

Telephone : +91-44-2235 7366/2235 0361
Fax   : +91-44-2220 1213
Email   : dirresearch@annauniv.edu
             dirresearch@gmail.com

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Lr.No. 1317/IR/Bio-Tech/AR2

Date : 31.08.2018

To
The Principal
St.Joseph's College of Engineering,
Semmencherry,
Chennai - 600119

Sir/Madam,

      Sub : Anna University - Research centre recognition - Department of
Bio-Technology - Renewal - Orders - Issued.
*****

      I am to inform that the recognition of the Department of Bio-Technology of your Institution has been renewed up to June 2021 as per "Common Renewal Session" to do collaborative research programme with this University.

      The recognized supervisors working in the above Department may be permitted to guide candidates to carry out Ph.D./M.S. (By Research) programme relevant to their field of specialization. Please refer "clause 7" of Ph.D./M.S. (By Research) Regulations.

      The above recognition shall be renewed once in three years in compliance with the required norms for research centre including the availability of two faculty members with Ph. D. Degree in the broad area of research.

      In all future correspondence quote "4131702" for reference.

      The next renewal application in the prescribed format available in our website: cfr.annauniv.edu along with the number of papers published in SCI Journals during the recognized period shall be made during June 2021 with a renewal fee.

Yours faithfully,

DIRECTOR

45

CENTRE FOR RESEARCH
ANNA UNIVERSITY
CHENNAI - 600 025

Dr. K.P. JAYA
DIRECTOR

Telephone : +91 44 2235 7466/2235 0361
Fax : +91-44-2220 1213
Email : dirresearch@annauniv.edu
dirresearch@gmail.com

Lr.No.: 1317/IR/Mech/AR2

Date : 31.08.2018

To
The Principal
St.Joseph's College of Engineering,
Semmencherry,
Chennai - 600119

Sir/Madam,

Sub : Anna University - Research centre recognition - Department of
Mechanical Engineering - Renewal - Orders - Issued.

*****

I am to inform that the recognition of the Department of Mechanical Engineering of your Institution has been renewed up to June 2021 as per "Common Renewal Session" to do collaborative research programme with this University.

The recognized supervisors working in the above Department may be permitted to guide candidates to carry out Ph.D./M.S. (By Research) programme relevant to their field of specialization. Please refer "clause 7" of Ph.D./M.S. (By Research) Regulations.

The above recognition shall be renewed once in three years in compliance with the required norms for research centre including the availability of two faculty members with Ph. D. Degree in the broad area of research.

In all future correspondence quote "4131717" for reference.

The next renewal application in the prescribed format available in our website: cfr.annauniv.edu along with the number of papers published in SCI Journals during the recognized period shall be made during June 2021 with a renewal fee.

Yours faithfully,

DIRECTOR

46

CENTRE FOR RESEARCH
ANNA UNIVERSITY
CHENNAI – 600 025

Dr. R. JAYAVEL
DIRECTOR

Telephone : +91-44-2235 7366/2235 0361
Fax : +91-44-2220 1213
Email : dirresearch@annauniv.edu
dirresearch@gmail.com

Lr.No. 1317/IR/CSE/AR2

Date : 14.02.2018

To

The Principal
St. Joseph's College of Engineering,
Jeppiaar Nagar OMR,
Chennai-600119

Sir/Madam,

Sub : Anna University - Research centre recognition - Department of
Computer Science and Engineering - Renewal - Orders - Issued.
*****

I am to inform that the recognition of the Department of Computer Science and Engineering of your Institution has been renewed up to December 2020 as per "Common Renewal Session" to do collaborative research programme with this University.

The recognized supervisors working in the above Department may be permitted to guide candidates to carry out Ph.D./M.S. (By Research) programme relevant to their field of specialization. Please refer "clause 7" of Ph.D./M.S. (By Research) Regulations.

The above recognition shall be renewed once in three years in compliance with the required norms for research centre including the availability of two faculty members with Ph. D. Degree in the broad area of research.

In all future correspondence quote "4131706" for reference.

The next renewal application in the prescribed format available in our website: cfr.annauniv.edu along with the number of papers published in SCI Journals during the recognized period shall be made during **December 2020** with a renewal fee.

Yours faithfully,

DIRECTOR

CENTRE FOR RESEARCH
ANNA UNIVERSITY
CHENNAI – 600 025

Dr. K.P. JAYA
DIRECTOR

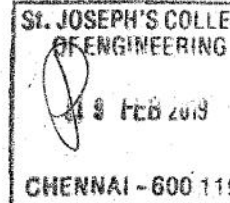Telephone : +91-44-2235 7366/2235 0361
Fax : +91-44-2220 1213
Email : dirresearch@annauniv.edu
dirresearch@gmail.com

Lr.No. 1317/IR/ECE/AR2

Date : 29.01.2019

To

The Principal
St.Joseph's College of Engineering,
OMR Semmencherry,
Chennai - 600119

Sir/Madam,

Sub : Anna University - Research Centre Recognition - Department of
Electronics and Communication Engineering - Renewal - Orders - Issued.
*****

I am to inform that the recognition of the Department of Electronics and Communication Engineering of your Institution has been renewed up to December 2021 as per "Common Renewal Session" to do collaborative research programme with this University.

The recognized supervisors working in the above Department may be permitted to guide candidates to carry out Ph.D./M.S. (By Research) programme relevant to their field of specialization. Please refer "clause 7" of Ph.D./M.S. (By Research) Regulations.

The above recognition shall be renewed once in three years in compliance with the required norms for research centre including the availability of two faculty members with Ph. D. Degree in the broad area of research.

In all future correspondence quote "4131707" for reference.

The next renewal application in the prescribed format is available on our website: cfr.annauniv.edu along with the number of papers published in SCI Journals during the recognized period shall be made during **December 2021** with a renewal fee.

Yours faithfully,

DIRECTOR

CENTRE FOR RESEARCH
ANNA UNIVERSITY
CHENNAI - 600 025
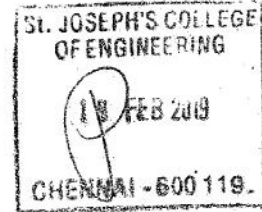
Dr. K.P. JAYA
DIRECTOR

Telephone : +91-44-2235 7366/2235 0361
Fax : +91-44-2220 1213
Email : dirresearch@annauniv.edu
dirresearch@gmail.com

Lr.No. 1317/IR/EEE/AR2

Date : 29.01.2019

St. JOSEPH'S COLLEGE
OF ENGINEERING

1 9 FEB 2019

CHENNAI - 600 119.

To
The Principal
St.Joseph's College of Engineering,
Old Mamallapuram Road,
Chennai - 600119

Sir/Madam,

Sub : Anna University - Research Centre Recognition - Department of
Electrical and Electronics Engineering - Renewal - Orders - Issued.
*****

I am to inform that the recognition of the Department of Electrical and Electronics Engineering of your Institution has been renewed up to December 2021 as per "Common Renewal Session" to do collaborative research programme with this University.

The recognized supervisors working in the above Department may be permitted to guide candidates to carry out Ph.D./M.S. (By Research) programme relevant to their field of specialization. Please refer "clause 7" of Ph.D./M.S. (By Research) Regulations.

The above recognition shall be renewed once in three years in compliance with the required norms for research centre including the availability of two faculty members with Ph. D. Degree in the broad area of research.

In all future correspondence quote "4131708" for reference.

The next renewal application in the prescribed format is available on our website: cfr.annauniv.edu along with the number of papers published in SCI Journals during the recognized period shall be made during **December 2021** with a renewal fee.

Yours faithfully,

DIRECTOR