



Yearly Status Report - 2017-2018

Part A

Data of the Institution

1. Name of the Institution		SRI SIVASUBRAMANIYA NADAR COLLEGE OF ENGINEERING
Name of the head of the Institution		Dr. S. Salivahanan
Designation		Principal
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		04427469752
Mobile no.		9444189433
Registered Email		info@ssn.edu.in
Alternate Email		principal@ssn.edu.in
Address		Rajiv Gandhi Salai (OMR), Kalavakkam
City/Town		Kalavakkam
State/UT		Tamil Nadu
Pincode		603110

2. Institutional Status					
Affiliated / Constituent		Affiliated			
Type of Institution		Co-education			
Location		Rural			
Financial Status		private			
Name of the IQAC co-ordinator/Director		Dr. Srinivas Gumparthy			
Phone no/Alternate Phone no.		04427469752			
Mobile no.		9444104060			
Registered Email		info@ssn.edu.in			
Alternate Email		srinivasG@ssn.edu.in			
3. Website Address					
Web-link of the AQAR: (Previous Academic Year)		http://www.ssn.edu.in/wp-content/uploads/2016/03/AQAR-2016-17.pdf			
4. Whether Academic Calendar prepared during the year		Yes			
if yes,whether it is uploaded in the institutional website: Weblink :		http://www.ssn.edu.in/wp-content/uploads/2018/10/College_Calendar_2018_-19.pdf			
5. Accrediation Details					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	A	3.13	2011	08-Jan-2011	07-Jan-2016
2	A+	3.55	2017	19-Jul-2017	18-Jul-2022
6. Date of Establishment of IQAC			01-Jul-2009		
7. Internal Quality Assurance System					
Quality initiatives by IQAC during the year for promoting quality culture					
Item /Title of the quality initiative by IQAC	Date & Duration		Number of participants/ beneficiaries		

Awareness programme on Intellectual Property Rights (IPR)	25-Jul-2017 1	170
workshop on Career Exploration and Guidance	04-Jul-2017 2	750
Framing of Curriculum, Regulations and Syllabi for SSN Autonomous by Dr. M.S. Ananth, Former Director, IIT Madras	19-Jun-2018 1	200
Faculty Development Programme on Communication Skills	10-Feb-2018 1	100
E-Learning initiative	04-Sep-2018 1	15
Workshop on Effective Implementation of Autonomous System	28-Aug-2017 1	50

8. Provide the list of Special Status conferred by Central/ State Government-UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Mechanical Engg.	CSR-KN	UGC-DAE- CSR	2017 3	45000
Physics	DAE- BRNS	DAE- BRNS	2011 6	119882
Physics	DAE- BRNS	DAE- BRNS	2017 3	1509250
Physics	ARMREB/MAA	DRDO	2015 3	725000
Physics	SR/WOS-A	DST (WOS-A)	2017 3	1250000
Physics	YSS	DST - SERB	2016 3	250000
Physics	EMR	DST-SERB	2017 3	676092
Physics	EMR	DST-SERB	2017 3	700000
Physics	EMR	DST-SERB	2017 3	700000
SSN Research Center	DAE-BRNS	DAE-BRNS	2016 3	504190
SSN Research Center	DAE-BRNS	DAE-BRNS	2012 5	187431
SSN Research Center	SB/EMEQ	DST - SERB	2013 4	225000

SSN Research Center	EMR	DST - SERB	2017 3	894970
SSN Research Center	DST/TMD/SERI	DST-SERI	2017 3	5290000
SSN Research Center	CSR-KN/CRS	UGC-DAE- CSR	2014 3	135822
Chemical Engg.	ECR	DST-SERB	2017 3	1400700
Chemical Engg	YSS	DST-SERB	2016 3	232330
Chemistry	DST	DST	2015 3	700000
Chemistry	NRB	NRB	2015 3	234950
Civil Engg.	ECR	DST-SERB	2017 3	586300
CSE	YSS	DST - SERB	2016 3	461660
ECE	RIFD/MODROB	AICTE MODROBS	2017 3	700000
ECE	DAE- BRNS	DAE- BRNS	2017 3	1491596
ECE	DST/SSTP/Tamilnadu	DST	2017 3	3812775
ECE	SEED/TIDE	DST-TIDE	2017 3	726146
ECE	TNSCST/DST-PRG/TD-AWE/VR	DST-TNSCST	2017 3	509700
EEE	RIFD/RPS	AICTE-RPS	2017 3	1952618
EEE	EEQ	DST-SERB	2017 3	2545000
EEE	SB/FTP/ETA	DST - SERB	2015 3	150000
Information Technology	TVA/Projet	TVA	2016 3	114240
Mechanical Engg.	RPS	AICTE- RPS	2015 2	56293
Mechanical Engg.	DST/TSG/WM	DST	2016 3	810000
Mechanical Engg.	ECR	DST-SERB	2016 3	250000
Mechanical Engg.	ECR	DST-SERB	2017 3	300000
Mechanical Engg.	YSS	DST - SERB	2015 3	341660

9. Whether composition of IQAC as per latest NAAC guidelines:	Yes
Upload latest notification of formation of IQAC	View File
10. Number of IQAC meetings held during the year :	1
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	No
Upload the minutes of meeting and action taken report	No Files Uploaded !!!
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No
12. Significant contributions made by IQAC during the current year(maximum five bullets)	
Obtained autonomous status	
Participated in NIRF 2018. SSNCE has been ranked 36th in Engineering category (among all Engineering colleges in India)	
Obtained accreditation from NBA for B.E. (Mechanical Engg.) and B.Tech. (Chemical Engineering) Programmes	
Regular internal academic audits: Twice a year	
ISO 9001:2015 Quality audits	
13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year	
Plan of Action	Achivements/Outcomes
E - content development	Templates developed for course content and the same is used and uploaded in SSN intranet
NIRF Ranking	SSNCE has been ranked 36 among all Engineering colleges in India by NIRF 2018, MHRD.
Autonomous status	The UGC inspection committee visited SSNCE during 23 to 24 Feb 2018 for the award of autonomous status
Outcome based Syllabus	Two workshops conducted for Faculty members
NBA accreditation	B.E. (Mechanical) and B.Tech (Chemical

Engg) Programmes were accredited for 3 years.

14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body

Meeting Date

Management

27-Dec-2018

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?

Yes

Date of Visit

12-Oct-2018

16. Whether institutional data submitted to AISHE:

Yes

Year of Submission

2018

Date of Submission

31-Jan-2018

17. Does the Institution have Management Information System ?

Yes

If yes, give a brief description and a list of modules currently operational (maximum 500 words)

Institutions have an MIS. The modules currently in operation include the admission application management system, the student on boarding and information system, Learning Management System among others. The HR modules and Finance modules are currently in the process of implementation.

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Planning and Implementation

1.1.1 – Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

Assessment results reflect on the student's ability to remember and apply course content and related knowledge in a structured manner (set question pattern). It is reviewed by a committee, consisting of HOD and subject experts from the department. The meeting is held regularly after publication of end semester results. The inputs are suitably incorporated in terms of removal of redundancies and additional emphasis on topics of current interest. Faculty who are the members of syllabus revision committee of Anna University will provide these inputs, for revision of the curriculum and syllabus. In 2017 Regulation, Manufacturing Technology Lab I exercises have been modified to include the concepts discussed in the theory course of Manufacturing Technology I, based on the suggestion from Mechanical department faculty members.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employability/entrepreneurship	Skill Development
Post Graduate Certificate in Business Analytics		03/07/2017	6	Focus is on employability To enable learners to build a career in emerging field	Programming, Database management, Data Visualization, Predictive modelling, Application of machine learning, big data technologies
Post Graduate Certificate in Business Analytics		03/01/2018	6	Focus is on employability - to enable learners to build a career in emerging field	Programming, Database management, Data Visualization, Predictive Modelling, Application of Machine Learning, Big data technologies

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Dates of Introduction
No Data Entered/Not Applicable !!!	

1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Date of implementation of CBCS/Elective Course System
BE	03/07/2017
BTech	03/07/2017
ME	06/09/2017
Mtech	06/09/2017
MBA	06/09/2017

1.2.3 – Students enrolled in Certificate/ Diploma Courses introduced during the year

	Certificate	Diploma Course
Number of Students	50	0

1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
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Life Skill Programme	19/06/2017	143
Enterpreneurship Awarness camp	22/01/2018	70
SYCON	14/03/2018	830
Crazy Bazaar	17/08/2017	80
Mela	07/02/2018	2000
Boot Camp by US consulate	30/08/2017	300
Career Development Workshop	11/07/2017	1000

1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	No. of students enrolled for Field Projects / Internships
BE	525
BTech	114
ME	28

1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

Feedback Obtained
<p>The score obtained in the feedback is taken as a part in the faculty appraisal (the faculty submits appraisal form for each semester). The total score obtained by the faculty for an academic year is taken as a criterion for the award of Best Teacher (Best Teacher Award is given during Teacher's day celebration). The faculty who is scoring less than 60, Feedback from alumni is collected every year and their suggestions are incorporated in revising Programme Educational Outcome (PEO). Feedbacks from parents are collected periodically about the academic environment, academic standard and overall development and progress of the student. Feedback from recruiters is obtained at the end of their recruitment process. This is used for improving the employability skills of the students.</p>

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Number of seats available	Number of Application received	Students Enrolled
BE	960	150000	960
ME	216	96	93

2.2 – Catering to Student Diversity

2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2017	3895	411	227	41	7

2.3 – Teaching - Learning Process

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
275	237	7	90	65	6

2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

Yes. An inhouse fulltime student counsellor is available in the campus. Besides, a group of 14 to 20 students are assigned to a faculty mentor who monitors the progress of the students and offer guidance to the students. The mentor is continuously monitoring the academic, cocurricular and Extracurricular activities of the mentee. If the mentee is struggling, the mentor gives proper counselling. The continuous assessment test reports and attendance particulars are periodically updated to the parents through mentors. The career guidance, elective selections are supported by mentors.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
4306	275	15.66

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
4	4	4	4	4

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2018	Dr. T. Sree Sharmila	Associate Professor	IEEE Outstanding Student Branch Councilor Award 2017, IEEE Madras Section
2017	Dr. I. Joe Louis Paul	Associate Professor	Best Faculty Award
2017	Dr. S. Sasirekha	Associate Professor	Best Faculty Award
2017	Dr K. Sathish Kumar	Associate Professor	Award for Excellence in Research

2017	Dr. P. Senthil Kumar	Associate Professor	IEI Young Engineers Award 2017
2017	Dr.R.Anantharaj	Associate Professor	Dr.ABJ.Abdul Kalam Award for Young Scientists
2018	B.Chitra	Assistant Professor	Young Woman in Chemical Engineering from Venus International Foundation
2017	Dr. R. Seyezhai	Associate Professor	Best Supervisors Award"by ISSRD 2017
2017	Dr. N. B.Muthuselvan	Associate Professor	Chartered Engineer by the Institution of Engineers (India) 2017
2018	Dr. R. Ramaprabha	Associate Professor	Green9 Energy Contributor Award
2018	Dr.S.Tamilselvi	Associate Professor	Institute For Exploring Advances In Engineering (IEAE) awarded Research Excellence Award
2017	Dr Pravin Kumar	Associate Professor	SSN Best teacher award
2017	Dr.R.Subasini	Assistant Professor	SSNCE Best Teacher Award
2017	Dr. M. Senthil Pandian	Assistant Professor	Best Poster Presentation Award in DAE
2018	Dr.Pravin Kumar	Associate Professor	Sataloff New Investigator Award
2017	S. Joseph Gladwin	Associate Professor	Appreciation for Notable Services and Contributions towards advancement of IEEE and the Engineering Professions
2018	Dr. P.Kaythry	Assistant Professor	Best Teacher (Accenture)
2017	Dr. Satheesh Kumar Gopal	Associate Professor	Best Faculty Award (Junior), Nehru Group of Institutions, Coimbatore
2017	Dr. N. Lakshmi Narasimhan	Associate Professor	Pride of Murugappa, Murugappa Group of Companies, Chennai
2017	Dr. Chitra Babu	Professor	Secretary, ACM W

			India, Chennai Professional Chapter
2017	Dr. Chitra Babu	Professor	Vice
2017	Dr. B. Bharathi	Associate Professor	Outstanding Woman in Engineering
2018	Dr.K. Vallidevi	Associate Professor	Top Performing Mentor
2018	Ms. M. Saritha	Assistant Professor	Top Performing Mentor
2017	Dr. Tanusree Sengupta	Assistant Professor	Reach the World Travel award by International society on Thrombosis and Hemostasis (ISTH)
2017	Dr. A. Murugesan	Assistant Professor	Bharat Vikas Award
2017	Dr. T. Sree Sharmila	Associate Professor	Professional Achievement, IEEE Madras Section

2.5 – Evaluation Process and Reforms

2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BE	106, 104,103,105,	1	20/12/2017	06/02/2018
BE	106,104,103,105	2	05/05/2018	02/07/2018
BE	106,104,103,105	3, 5, 7	21/10/2017	29/12/2017
BE	106,104,103,105	4, 6, 8	10/04/2018	02/07/2018
BTech	205,203	Odd Sem (3,5,7)	21/10/2017	29/12/2017
BTech	205,203	Even Sem (4,6,8)	10/04/2018	02/07/2018
ME	401, 403, 419, 405,415	1	20/12/2017	06/02/2018
ME	401, 403, 419, 405,415	2	05/05/2018	02/07/2018
ME	401, 403, 419, 405,415	3	21/10/2017	29/12/2017
ME	401, 403, 419, 405,415	4	10/04/2018	02/07/2018

2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

Institution conducts three tests per course in a semester. Tests are conducted after four weeks of teaching, during first two periods on Monday and Friday of every week. Marks obtained in the tests and attendance for the assessment period is intimated to the parents directly by post. The question papers are

set in line with the level of the course outcomes and the same is marked in the question paper.

2.5.3 – Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

The academic calendar is prepared and circulated to the students. The continuous assessment test schedules are given in the calendar and tests are conducted as per the schedule. The calendar circulated to the students can be found in the link given below.

http://www.ssn.edu.in/wpcontent/uploads/2018/10/College_Calendar_2018_19.pdf

2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

No Data Entered/Not Applicable !!!

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
121	BTech	61	59	97
455	ME	7	7	100
106	BE	150	135	90
401	ME	7	7	100
403	ME	22	22	100
419	ME	4	4	100
114	BE	143	141	99
410	ME	16	16	100
407	ME	7	7	100
104	BE	135	117	87
405	ME	19	19	100
205	BTech	134	133	99
510	Mtech	7	7	100
203	BTech	72	72	100
103	BE	71	64	90
105	BE	141	117	83
415	ME	12	12	100
631	MBA	111	111	100

2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

No Data Entered/Not Applicable !!!

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Resource Mobilization for Research

3.1.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Major Projects	3	DST SERB	19.51	7
Major Projects	3	DSTSERB	24.35	7
Major Projects	3	DAEBRNS	25.82	5.04
Major Projects	3	DAEBRNS	24.82	1.87
Major Projects	4	DST SERB	16.6	2.25
Major Projects	3	UGCDAE CSR	7.32	1.36
Industry sponsored Projects	2	Murasu Systems SdnBhd, Malaysia	4	0
Projects sponsored by the University	2	SSN Trust (8 Projects to ECE)	13.38	13.38
Projects sponsored by the University	2	SSN Trust (2 Projects to BME)	5.41	3.2
Projects sponsored by the University	2	SSN Trust (Mech)	9.35	9.35
Projects sponsored by the University	3	SSN Institutions (CSE)	2.1	2.1
Projects sponsored by the University	2	SSN Institutions (CSE)	2.85	2.85
Projects sponsored by the University	3	SSN Institutions (CSE)	0.3	0
Projects sponsored by the University	1.5	SSN Trust (IT)	2	1.95
Projects sponsored by the University	1.5	SSN Trust (IT)	3.5	3.49
Projects sponsored by the University	3	SSN Trust (Chemical)	12.5	12.5
Projects sponsored by the University	0.5	SSN Trust (English)	1.5	0
Major Projects	3	DST	39.01	7
Major Projects	3	NRB	24.92	23.5
Major Projects	3	DSTSERB	33.32	5.86
Major Projects	3	DST SERB	16.1	4.62
Major Projects	3	AICTE MODROBS	8.75	7
Major Projects	3	DAE BRNS	24.96	14.92

Major Projects	3	DST	50	38.13
Major Projects	3	DSTTIDE	13.73	7.26
Major Projects	3	DSTTNSCST	7.35	5.1
Major Projects	3	AICTE RPS	19.82	19.53
Major Projects	3	DST SERB	36.26	25.45
Major Projects	3	DST SERB	22.9	1.5
Major Projects	3	TVA	9.52	1.14
Major Projects	4	AICTE RPS	9.41	0.56
Major Projects	3	DST	74.16	8.1
Major Projects	3	DSTSERB	27.9	2.5
Major Projects	3	DSTSERB	26.52	14
Major Projects	3	DSTSERB	19.47	2.32
Projects sponsored by the University	1	JC	4.25	4.25
Projects sponsored by the University	2.5	SSN Trust (Civil)	7.8	1.35
Projects sponsored by the University	3	SSN Trust (EEE)	27.55	10.4
Students Research Projects (Other than compulsory by the University)	1	SSN Trust (37 Projects to ECE)	7.31	7.31
Students Research Projects (Other than compulsory by the University)	1	SSN Trust (9 Projects to BME)	1.68	1.68
Students Research Projects (Other than compulsory by the University)	1	SSN Trust (Mech)	5.83	5.83
Students Research Projects (Other than compulsory by the University)	1	SSN Trust (19 Projects to CSE)	3.15	1.22
Students Research Projects (Other than compulsory by the University)	1	SSN Trust (17 Projects to IT)	2.38	0

by the University)				
Students Research Projects (Other than compulsory by the University)	2	SSN Trust	2.59	2.59
Students Research Projects (Other than compulsory by the University)	1	SSN Trust (Civil)	2.69	2.3
Students Research Projects (Other than compulsory by the University)	2	SSN Trust (EEE)	61.5	8.02
International Projects	1	Cooperation and Development Center, EPFL (CODEV), Switzerland	13.75	6.72
Major Projects	3	DSTSERB	31.92	3
Major Projects	3	DST SERB	18.86	3.41
Major Projects	3	UGCDAE CSR	0.45	0.45
Major Projects	6	DAE BRNS	22.08	1.19
Major Projects	3	DAE BRNS	21.92	15.09
Major Projects	3	DRDO	50.25	7.25
Major Projects	3	DST (WOSA)	26	12.5
Major Projects	3	DST SERB	18.8	2.5
Major Projects	3	DSTSERB	17.94	6.76

3.2 – Innovation Ecosystem

3.2.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
Two days hands on workshop on "Embedded system design"	Biomedical Engineering	22/09/2017
One day workshop on "Analytical techniques in Biochemistry"	Biomedical Engineering	25/09/2017
A guest lecture on Technology and Entrepreneurship	Biomedical Engineering	03/01/2018
A one day "Hands on training on Dialysis	Biomedical Engineering	21/02/2018

machine'		
Guest Lecture on the topic Radiation and its Therapeutic Techniques by Prof.A.Kadiresan, Chief Physicist and Radiological Safety officer	Biomedical Engineering	02/03/2018
Fabrication of Polymer Matrix Composites	Mechanical Engineering	23/02/2018
Arduino Programming	Electrical and Electronics Engineering	15/02/2018
Cyber Security	Information Technology	01/02/2018
Decision Sciences Simplified	Information Technology	02/02/2018
2 days Workshop on Data Analytics with R	Biomedical Engg	10/07/2017
Two days "Workshop on Matlab and Simulink for engineering applications"	Biomedical Engineering	21/07/2017
Graph Theory and Hidden Markov Model	Biomedical Engineering	01/08/2017
Special lecture on Entrepreneurial Opportunities in Healthcare	Biomedical Engineering	03/08/2017
Abaqus An efficient research tool for automotive structure analysis	Mechanical Engineering	12/04/2018
Vibrational analysis and simulation of composite materials	Mechanical Engineering	13/04/2018
"International short course on Biomechanics".	Biomedical Engineering / Mechanical Engineering	19/03/2018
Five Day Faculty Development programme on "Advances in Medical Signal and Image Processing"	Biomedical Engineering	07/05/2018
Three Days Faculty Development Programme On Robotics, Automation And Mechatronics Project Endeavours	Mechanical Engineering	02/05/2018
Refresher course on Finite element analysis	Mechanical Engineering	23/03/2018
One Day Workshop On Particle Swarm Optimization (PSO), Simulated Annealing (SA)	Mechanical Engineering	06/04/2018

Artificial Neural Network (ANN)		
One Day National Workshop on Writing Scientific Research PaperPhase IV	Chemical Engineering	21/07/2017
One day hands on training on ANSYSFLUENT	Mechanical Engineering	08/07/2017
One day Workshop on Autodesk Design Now	Mechanical Engineering	25/07/2017
Machining of Advanced Materials	Mechanical Engineering	06/04/2018
Welding codes Standards	Mechanical Engineering	24/03/2018
SAESSNCE sponsored ThreeDay Workshop on Computational Fluid Dynamics - Practical applications in thermal systems	Mechanical Engineering	15/04/2018
One Day National Workshop on Writing Scientific Research PaperPhase V	Chemical Engineering	05/01/2018
Dynamics and Control: An Enthralling Journey with the Aerothrust Pendulum	Electrical and Electronics Engineering	14/06/2017
Research Challenges and Innovation on Solar Energy Systems	Electrical and Electronics Engineering	04/08/2017
Digital Design in FPGA using Matlab System Generator	Electrical and Electronics Engineering	31/08/2017
Application of PLC SCADA for Industrial Automation	Electrical and Electronics Engineering	19/09/2017
Power Converters, Control and Grid Integration of Renewable Energy Sources	Electrical and Electronics Engineering	15/11/2017
Guest lecture onSolving Multi Objective Optimization Problems using Genetic Algorithm	Biomedical Engineering	23/08/2017
Modeling and Simulation of Power Electronics Electric Machinery	Electrical and Electronics Engineering	19/04/2018
Awareness Program on Intellectual Property Rights	SSNCE	25/07/2017
IEEEExtreme: 24Hours Programming Competition.	Information Technology	06/09/2017
Latest Trends in Information Technology.	Information Technology	27/09/2017
Enterprise Trends in	Information Technology	27/09/2017

Database		
Data Science	Information Technology	03/01/2018
GNMT (Googles Neural Machine Translation)	Information Technology	08/01/2018

3.2.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Hackathon 18	Jothir Aditya Vickram A S Vignesh R Vignesh R Vignesh Sriram Sridharan Dr.L. Suganthi (Mentor)	Department of Science and Technology	18/06/2018	Hardware (Medical Devices)
Asthma Trigger Detection System	Indulakshmi S, Amirthavarshini S Uma A, Ramachandran S S, Sasidharan V, Sriram Vasan, Dr.A.Jawahar	MHRD, AICTE	22/06/2018	Students
Smart editor - A tool for converting an image to a document	Gokulakrishnan A, Sukanya S, Kishore J, Aparna S, Keerthika N, Deepika Devi R, Dr. Joseph Gladwin S, Vinoth Kumar C.	MHRD AICTE	31/03/2018	Students
SIH 2018 App Development	Muthu Annamalai CT, Keshav T, Prashant Mahesh, Avinash Bhart, Varun Ranganathan D, and Roopeshwar D	Department of Space (ISRO) Ministry	30/03/2018	Secured First Place and Cash prize of 1 Lakh rupees
SIH 2018 App Development	Avanthika Ravichandran, Sreenidhi V, Arjith N, Akshaya Natarajan, Ashwini Raja and Aparna A	Ministry of Water Resources and River and Ganga Rejuvenation	30/03/2018	Secured First Place and Cash prize of 0.50 Lakh rupees
SIH 2018 App Development	Yamini L, Geetika B, Rebecca Sharon J, Harini G and Preethi M	Education and Skills Ministry	30/03/2018	Secured First Place and Cash prize of 0.50 Lakh rupees
Hackathon App	Rithwin Siva,	Kerala StartUp	28/07/2017	Secured First

Development	Sricharan, Aditya J of IV Year Venkatesh	Mission		Prize with cash of Rs. 15000/
Mobile App Development	Adithya J (CSE), Aditya Manoharan (CSE)	IEEE Madras Section, IEEE Student Branch of SSN College of Engineering	28/07/2017	Best App Award
IEI Young Engineers Award 20172018	Dr. P. Senthil Kumar	The Institution of Engineers (India)	24/08/2017	Teacher
Hiyoshi Think of Ecology Award 2017	Dr. P. Senthil Kumar	Hiyoshi Corporation, Japan and Hiyoshi India Ecological Services Pvt. Ltd., India	16/09/2017	Teacher
Outstanding Researcher Scholar Icon 2017	Dr. P. Senthil Kumar	Jupiter Publications ConsortiumTM Ingenious Cyberonics Private Ltd	22/07/2017	Teacher
Technological Solutions for Safe Disposal of Menstrual WastePaver Bricks using Sanitary Waste	Elakiya C M	Ministry of Drinking Water and Sanitation	08/09/2017	Swachh Bharath Hackathon
Mechanization of parcel sorting in parcel processing centers (parcel hubs)	SMART INDIA HACKATHON	Panipat Institute and Engineering	30/03/2018	Department of post, ministry of state (ic) of communication
Swachhathon 1.0 Swachh bhara t mission	Priyadarshini, Aparna, Sreeja, Sucharitha, viswath	Ministry of drinking water and sanitation, Govt of India	07/09/2017	Early decomposition of fecal matter
Hackathon 18	Sucharitha Swetha T Arunkumar Sreeja Ancy Carchia Dr. S. Bagyaraaj (Mentor)	Department of Science and Technology	18/06/2018	Hardware (Medical Devices)

3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsered By	Name of the Start-up	Nature of Start- up	Date of Commencement
1	SSN	MSME	Nil	Nil	01/07/2017

	Incubation center			
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3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
2	7	3

3.3.2 – Ph. Ds awarded during the year (applicable for PG College, Research Center)

Name of the Department	Number of PhD's Awarded
Chemical Engineering	2
English	1
Physics	7
Electrical and Electronics Engineering	10
SSN Research Centre	3
Biomedical Engg.	2
Electronics and Communication Engineering	12
Mechanical Engineering	2
CSE	5

3.3.3 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
National	Civil Engg.	8	1.62
National	MBA	6	0
International	Biomedical Engineering	6	1
International	ECE	101	1.11
International	Mechanical	41	2
International	CSE	26	1
International	Information Technology	29	1.63
International	Mathematics	6	0.2
International	Chemical Engineering	78	3.02
International	MBA	9	0
International	English	7	0.03
International	Physics	26	1.43
International	Civil Engg.	3	2.17
International	Electrical and Electronics Engineering	63	2.16
International	SSN Research Centre	56	2.8
National	Biomedical Engg	2	0

National	ECE	5	1
National	Chemical Engineering	2	0

3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
ECE	3
Mechanical Engineering	8
CSE	2
Information Technology	4
Chemical Engineering	6
Mathematics	1
Physics	6
Civil Engineering	1
Electrical and Electronics Engineering	4
SSN Research Centre	4
Biomedical Engineering	5

3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Compact 4element SierpinskiK nopp fractal UWB MIMO antenna with dual band notch	S. Rajkumar K.T. Selvan P.H. Rao	Microwave and Optical Technology Letters	2018	0	SSN College of Engineering	0
Analysis and design of power conditioning circuit for piezoelectric vibration energy harvester	K. Savarimuthu R. Sankararajan S. Murugesan	IET Science, Measurement Technology	2017	0	SSN College of Engineering	0
Statistical Analysis on Ambient RF Energy Harvesting for Low Power	Divya.I Muthumeenakshi.K S. Radha	International Journal of Communication Systems, Wiley	2018	0	SSN College of Engineering	0

Wireless Applications						
Design of Solar cell Antenna (SOLAN) using Indium Tin Oxide mixed with Silver	A. Suresh Kumar S. Sundaravadivelu	African Journal of Basic Applied Sciences	2017	0	SSN College of Engineering	0
Study and analysis of DRVCO for radhardness in type II third order CPLL	Karthigeyan K.A. Premanand Venkatesh Chandramani	Microelectronics Reliability, Elsevier	2018	1	SSN College of Engineering	1
Energy Efficient Constellation Rotation for Multiple Symbol Differentially Encoded Communications	Kanthimathi M Amutha R	Journal of Computational and Theoretical Nanoscience	2017	0	SSN College of Engineering	0
Analysis of carotid ultrasound images for the assessment of stroke risk using level set method	Sumathy k, Mahesh Veezhinathan, Jesu christopher	Current medical imaging reviews	2017	0	Biomedical Engg., SSN College of Engg.	0
Assessment of Graph Metrics and Lateralization of Brain Connectivity in Progression of Alzheimer's Disease Using fMRI	Bhaskaran Bhuvaneshwari, Anandan Kavitha	International Journal of Software Science and Computational Intelligence	2017	0	Department of Biomedical Engineering, SSN College of Engineering, Chennai	0
Music Induced	B Geethanjali, Kanag	Journal of Clinical	2018	4	Department of	4

Emotion and Music Processing in the Brain- A Review	asabai Adalarasu, Mohan Jagannath	and Diagnostic Research			Biomedical Engineering, SSN College of Engineering, Chennai	
Music induced emotion using wavelet packet decomposition -An EEG study	Geethanjali Balasubramanian, Adalarasu Kanagasabai, Jagannath Mohan, N.P. Guhan Seshadria	Biomedical Signal Processing and Control	2018	6	Department of Biomedical Engineering, SSN College of Engineering, Chennai	6
Functional Connectivity Assessment for Episodic Memory by Decoding Theta Wave	Mallampalli Kapardi, Kavitha Anandan	International Journal of Cognitive Informatics and Natural Intelligence	2018	0	Department of Biomedical Engineering, SSN College of Engineering, Chennai	0
Investigations on the Brain Connectivity Parameters for Comorbidities of Autism Using EEG	Vishnu Priya K, Kavitha A	International Journal of Software Science and Computational Intelligence	2018	0	Department of Biomedical Engineering, SSN College of Engineering, Chennai	0
Identification of Proximal Caries from Panoramic Dental X Rays Images	Harshini S, Hasini M S, Shenbagavalli A, Nirmala K	International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering	2018	0	Department of Biomedical Engineering, SSN College of Engineering, Chennai	0
Integrated Adsorption -Coagulation and Nano filtration of Textile Effluent Using Threestage Filtration	Vanitha Priya D, Arun Karthick S, Sudharsan K, Arumugam P, Pandima Devi MK,	Global Scientific Journal	2018	0	Department of Biomedical Engineering, SSN College of Engineering, Chennai	0

Unit	Anuradha V					
Statistica l analysis on ambient RF energy harvesting for low?power wireless a pplication s	Divya. I, Muthumeena kshi.K, S. Radha	Internatio nal Journal of Communicat ions Systems	2018	0	SSN College of Engineerin g	0
Double image comp ression and encryption scheme using logistic mapped con volution and cellular automata	Hanis, S Amutha, R	Multimedia Tools and Applicatio ns	2018	11	SSN College of Engineerin g	9
A Multilin gual to Polyglot Speech Syn thesizer for Indian Languages Using a Vo iceConvert ed Polyglot Speech Corpus	P. Vijayal akshmi, B. Ramani, M. P. Actlin Jeeva, T. Nagarajan	Circuits, Systems, and Signal Processing	2018	3	SSN College of Engineerin g	3
Studies on the growth and charac terization of an organic single crystal 1,3,5 Triphenyl benzene', Materials Research I nnovations	Subramaniy an @ Raja, R, Anandha babu, G, Ramasamy, P	Materials Research I nnovations	2018	0	SSN College of Engineerin g	0
Enhanced adsorption of Cu ₂ , Ni ₂ , Cd ₂ and Zn ₂	A. Murugesan, M. Divakaran, P. Senthil	Desalinati on and Water Treatment, Vol. 122,	2018	0	SSN College of Engineerin g	0

ions onto physicochemically modified agricultural waste: Kinetics, isotherm and thermodynamic studies	Kumar	pp. 176191 , 2018				
In situ synthesis and characterization of polyaniline/prussian blue/zinc oxide nano composite	Suganthi Muthusamy, Julie Charles	Polymer Bulletin	2018	2	SSN College of Engineering	0
Characterization of Reclaim rubber and Reclaim rubber/Natural rubber blend	Julie Charles	International Journal of ChemTech Research	2017	0	SSN College of Engineering	0
New Asymmetric Seven Level Inverter with Minimum Number of Voltage Sources and Switches	Thiyagarajan V	Journal of Electrical Engineering (JEEE)	2017	3	SSN College of Engineering	3
Analysis of Stability and Dynamic Behaviour of Ultra Lift Luo Converter	J. Raji and V. Kamaraj	Journal of Electrical Engineering Technology	2017	0	SSN College of Engineering	0
Synthesis of itaconic acid from agricultural waste	Ramakrishnan Gnanasekaran, Balaji Dhandapani, Kannappan	Preparative Biochemistry and Biotechnology	2018	0	SSN College of Engineering	0

using novel Aspergillus niveus	Panchamoorthy Gopinath, Jeyaraj Iyyappan					
Morphological and Spectroscopic Studies on the Vertically Aligned Zinc Oxide Nanorods Grown on Low and High Temperature Deposited Seed Layer	A. Rayerfrancis, Bhargav P. Balaji, N. Ahmed, and C. Balaji	Semiconductors	2017	0	SSN College of Engineering	0
Simulation of Effect of Surface Tension in Molten Silicon During mcSilicon Growth Process for PV Applications	M. Srinivasan, V. Kesavan P. Ramasamy	Silicon	2018	0	SSN College of Engineering	0
Simulation Analysis of Direction Solidification Process with Fixed Partition Block to Grow Multicrystalline Silicon Ingot	S. G. Nagarajan G. Anbu M. Srinivasan K. Aravinth P. Ramasamy	Silicon	2018	0	SSN College of Engineering	0
Computational Modeling on the Influence of the Schmidt Number on Second Phase	M. Srinivasan P. Ramasamy	Silicon	2018	0	SSN College of Engineering	0

Impurities SiC, Si ₂ N ₂ O and Si ₃ N ₄ in Grown mcSilicon for PV Applications						
Improving Heat Transfer Properties of DS furnace by the Geometrical Modifications for Enhancing the Multi Crystalline Silicon Ingot (mcSi) Quality Using Transient Simulation	S. G. Nagarajan M. Srinivasan K. Aravinth P. Ramasamy	Silicon	2018	0	SSN College of Engineering	0
Numerical analysis on effect of annealing mcSi ingot grown by DS process for PV application	G Aravindan, M Srinivasan, K Aravinth, P Ramasamy	Applied surface physics	2017	0	SSN College of Engineering	0
Simulation of directional solidification furnace with bottom opening insulation to grow quality mcSi ingot for PV applications	S. G. Nagarajan M. Srinivasan K. Aravinth P. Ramasamy	International Journal of materials Research	2017	0	SSN College of Engineering	0
Numerical modelling on meltcrystal	G Aravindan, M Srinivasan, K	Journal of Optoelectronics and Advance	2017	0	SSN College of Engineering	0

interface and thermal stress for multicrystalline silicon grown by directional solidification process	Aravinth, P Ramasamy	Materials				
Perception of the New Recruits on the Employee Induction and on boarding process	Dr.Vijaya Mani and Caroline KarunyaM	International Journal of Business and Management Invention	2017	0	SSN School of Management	0
Optimization of Medicine Procurement Process	Dr.Vijaya Mani, and VaniHaridasan	International Journal of Engineering Technology	2017	0	SSN School of Management	0
Relative Strength Index for Developing Effective Trading Strategies in Constructing Optimal Portfolio	Dr. Srinivas Gumparthi	International Journal of Applied Engineering Research	2017	4	SSN School of Management	4
Post content and its effect on consumer engagement rate in Indian life insurance Facebook brand pages	Dr.Sudarsan Jayasingh, Dr.T. Thiruvenkadam, and S. Arunkumar	International Journal of Engineering Technology	2018	0	SSN School of Management	0
An insight on consumer engagement in	Dr.Jayasingh, S. and Dr.Venkatesh, R	International Journal of Applied Business	2018	0	SSN School of Management	0

Facebook brand pages		and Economic Research				
Performance analysis of select companies in cement industry using various models	Dr. Kavitha Muthukumar, Dr. Vani Haridasan	International Journal of Civil Engineering and Technology	2018	0	SSN School of Management	0
Vendor Rating Using Analytical Hierarchical Process Insights from Indian Engineering Construction Industry	Vani Haridasan, Sudharsan M	International Journal of Scientific Research and Management (IJSRM)	2018	0	SSN School of Management	0
Impact of service quality on service loyalty in strengthening customer relationship in telecom services	Dr. Vani Haridasan P, Dr. Kavitha Muthukumar	International Journal of Mechanical Engineering and Technology	2018	0	SSN School of Management	0
Neuro Optics in Contemporary Marketing	Prof.B.Aso kumar and Mr.Praveen Prasath	International Journal of Creative Research Thoughts	2018	0	SSN School of Management	0
Modulation Diversity for Differential Amplitude and Phase Shift Keying technique	Kanthimathi M Amutha R Anusha S	International journal of Engineering Technology	2018	0	SSN College of Engineering	0
Heptaband swastik arm antenna for MIMO a	Sampath Rajkumar, Narayanaswamy Vivek Sivaraman,	IET Microwaves, Antennas Propagation	2017	4	SSN College of Engineering	4

pplications	Sharada Murali, and Krishnasamy T.					
A pentaband hybrid fractal MIMO antenna for ISM applications	Sampath Rajkumar, Nandagopal Srinivasan, Aadya Natesan, and Krishnasamy T. Selvan	International Journal of RF and Microwave ComputerAided Engineering	2017	1	SSN College of Engineering	1
Compact 4 element Sierpinski Knopp fractal UWB MIMO antenna with dual band notch	.Rajkumar, Krishnasamy T. Selvan, and P. H. Rao	Microwave and Optical Technology Letters	2018	5	SSN College of Engineering	5
A simpler reference antenna gain measurement method	S Krishnasamy T. Selvan Satish K. Sharma Ghanshyam Mishra Roshin Rose George	Microwave and Optical Technology Letters	2018	0	SSN College of Engineering	0
A Multiband, Mutipolarization SharedAperture Antenna: Design and evaluation	PH Rao, S Sujitha, KT Selvan	IEEE Antennas and Propagation Magazine	2018	6	SSN College of Engineering and SAMEER, Chennai	6
Continuous authentication consoles in mobile ad hoc network (MANET)	D. Ramkumar, C. Annadurai, K. Nirmaladevi	Cluster Computing	2017	2	SSN College of Engineering	2
Energy efficiency analysis of differential cooperative algorithm in	Kanthimathi M Amutha R Senthil Kumar K	Cluster Computing	2018	1	SSN College of Engineering	0

wireless sensor network						
Compressive sensing based simultaneous fusion and compression of multifocus images using learned dictionary	K. Ashwini R. Amutha	Multimedia Tools and Applications	2018	8	SSN College of Engineering	6
Improved finite range gain formula for open ended rectangular waveguides and pyramidal horns	TS Bird, V Lingasamy, KT Selvan, H Sun Krishnasamy T. Selvan and Ramakrishna Janaswamy	IET Microwaves, Antennas Propagation	2017	2	SSN College of Engineering and San Diego State University, USA	2
Intensified degradation of pharmaceutical effluents by novel aerobic iron sulfide activated molecular oxygen in the presence of ascorbic acid	A. Babu Ponnusami S. Nachiappan, P. Senthil Kumar, K. P. Gopinath, V. Rajinikanth, R. Baskaran	Desalination and Water Treatment	2018	0	SSN College of Engineering	2
Ultrasound assisted enhanced extraction of lutein (β, β-carotene3,3diol) from Microalgae (Chlorella pyrenoidosa)	J Arun, U Avinash, B Arun Krishna, M Pandimadevi, KP Gopinath	Global Nest Journal	2018	0	SSN College of Engineering	1

a) grown in wastewater: Optimization through Response Surface methodology						
Studies on influence of process parameters on hydrothermal catalytic liquefaction of microalgae (Chlorella vulgaris) biomass grown in wastewater	Jayaseelan Arun, Sivaraman Jayachandran Shreekanth, Ravishankar Sahana, Meenakshi Sundaram Raghavi, Kannappan Panchamoorthy Gopinath, Dhakshinamoorthy Gnanaprakash	Bioresourcetechnology	2017	0	SSN College of Engineering	4
Recent advancements in supporting materials for immobilised photocatalytic applications in wastewater treatment	B Srikanth, R Goutham, R Badri Narayan, A Ramprasath, KP Gopinath, AR Sankaranarayanan	Journal of environmental management	2017	0	SSN College of Engineering	36
Antimicrobial activity of Mukia maderasapata stem extract of jujube seeds activated carbon against gram positive /gram negative bacteria and fungi strains: A	A. Saravanan R. Gayathri, K.P. Gopinath, P. Senthil Kumar	Desalination and Water Treatment	2017	0	SSN College of Engineering	0

pplication in heavy removal						
Enhancement of mechanical properties and durability of the cement concrete by RHA as cement replacement: Experiments and modeling	B.Ambedkar JosephinAl exJ.Dhanal akshmi	Constructi on and building materials	2017	2	SSN College of Engineerin g	2
Compressiv e sensing based image comp ressionenc ryptionc ryption using Novel 1DChaotic map	Ponuma. R Amutha. R	Multimedia Tools and Applicatio ns	2017	0	SSN College of Engineerin g	0
Particle Swarm Opti mization aided Weighted Averaging Fusion Strategy for CT and MRI Medical Images	K Madheswari N Venkates waran	Internatio nal Journal of biomedical Engineerin g and Technology	2018	0	SSN College of Engineerin g	0
An Efficient Image Retrieval System Based on MultiScale Shape Features	T. T. Mirnalinee	Journal of Circuits, Systems, and Computers, World Scientific Publishers	2018	2	SSN College of Engineerin g	2
Stock Price Prediction Using Long Short Term Memory	Y. V. Lokeswari	Internatio nal Research Journal of Engineerin g and Technology	2018	0	SSN College of Engineerin g	0

Improving The Performance Of SmithWaterman Sequence Algorithm On GPU Using Shared Memory For Biological Protein Sequences	Prasad, D.V.V., Suresh J.	Cluster Computing, Springer	2018	0	SSN College of Engineering	0
Sequential Mining Of Real Time Moving Object By Using Fast Frequence Pattern Algorithm	Venkatavara Prasad	Cluster Computing, Springer	2018	0	SSN College of Engineering	0
Comparative Analysis of Machine Learning and Attribute selection techniques for Credit Approval Data	Rajalakshmi S	International Journal of Pure and Applied Mathematics	2018	0	SSN College of Engineering	0
RFIDBased Traffic Violation Detection and Traffic Flow Analysis System	Saritha M, Rajalakshmi S, Angel Deborah S, Milton R S,	International Journal of Pure and Applied Mathematics	2018	0	SSN College of Engineering	0
Data Analys?s of Natural Language Query?ng Us?ng NLP Interface	Sharath Chander P., R. Priyadharsini and B. Bharathi	International Journal of Applied Engineering Research	2018	0	SSN College of Engineering	0
Fuzzy Logic based ShortTerm Electricity Demand	V.S. Felix Enigo	International Journal of Engineering and Technology	2018	0	SSN College of Engineering	0

Forecast						
Thermal and Visible Video Fusion Using Curvelet Transform	K.Madheswari	International Journal of Applied Engineering Research	2018	0	SSN College of Engineering	0
Medicine Information Mobile Application Using Tablet Image Anaysis Using Android Studio	K.Madheswari	International Journal of Applied Engineering Research	2018	0	SSN College of Engineering	0
Survey on Digital Age Smarter Cradle System for Enhanced Parenting	K.Madheswari	International Journal of Applied Engineering Research	2018	0	SSN College of Engineering	0
High powered hybrid supercapacitor with microporous activated carbon	K. Shree Kesavan, K. Surya, M.S. Michael	Solid State Ionics	2018	2	SSN College of Engineering	2
A Novel SEPIC Power Factor Correction Converter for HBLED Applications	R.Seyezhai, R.Sreemallika	MAGNT Research Report	2017	0	SSN College of Engineering	0
Performance Evaluation of Hierarchical Routing Protocol with Multiple Transceivers and	Kavitha Balamurugan A. Jawahar, K. Chitra	Taga Journal of Research	2018	0	SSN College of Engineering	0

Cluster Based Routing Protocol in FSO MANET						
Chitosan as a biosorbent for adsorption of Iron from fracking wastewater	Aditya R. Kaveeshwar, Melanie Sanders, P. Senthil Kumar, Dilip Depan, S. Ramalingam	Polymers for Advanced Technologies: Vol. 29, pp. 961969, 2018	2018	2	SSN College of Engineering	2
Multiport RF MEMS Switch for Satellite Payload Applications	Balasbramian M, Joshitha C, B.S Sreeja, Prita Nair	Microsystem Technologies: Micro Nano Systems, Information Storage and Processing Systems	2018	2	SSN College of Engineering	2
Ultrasonic study of elastic anisotropy of unidirectional Rochelle salt single crystals grown using the Sankaranarayanan Ramsamy method	S. Singara vadivelu, A. Uthayakumar, Saju T. Abraham	Journal of Crystal Growth	2017	2	SSN College of Engineering	0
Fast kinetics and high adsorption capacity of green extract capped superparamagnetic iron oxide nanoparticles for the adsorption of Ni(II)	K. Nithya, Asha Sathish, P. Senthil Kumar, T. Ramachandran	Journal of Industrial and Engineering Chemistry, Vol. 59, pp. 230241, 2018	2018	10	SSN College of Engineering	10

ions						
Synthesis of novel Dy ³⁺ activated Ba ₂ CaZn ₂ Si ₆ O ₁₇ phosphors for white light emitting diodes	G. Annadurai, S. Masilla Moses Kennedy, V. Sivakumar	Luminescence	2018	1	SSN College of Engineering	1
Chitosan anchored Zinc Oxide nanocomposite as modified electrochemical sensor for the detection of Cd (II) ions	G. Padmalaya, B.S. Sreeja, P. Senthil Kumar, M. Arivanandhan	Desalination and Water Treatment, Vol. 97, pp. 295303, 2017	2017	2	SSN College of Engineering	2
Towards optimized nucleation control in multicrystalline silicon ingot for solar cells	G. Anandhababu, I. Takahashi, T. Muramatsu, N. Usami,	J. Crystal Growth	2017	2	SSN College of Engineering	2
Carbon sphere: Synthesis, characterization and elimination of toxic Cr(VI) ions from aquatic system	P. Senthil Kumar, R. Sivaranjanee, P. Sundar Rajan, A. Saravanan	Journal of Industrial and Engineering Chemistry, Vol. 60, pp. 307320, 2018	2018	8	SSN College of Engineering	8
Influence of ultrasonic waves on preparation of active carbon from coffee waste for	S. Suganya, P. Senthil Kumar	Journal of Industrial and Engineering Chemistry, Vol. 60, pp. 418430, 2018	2018	8	SSN College of Engineering	8

the reclamation of effluents containing Cr(VI) ions						
Treatment of dye wastewater using an ultrasonic aided nano particle stacked activated carbon: kinetic and isotherm modelling	P. Senthil Kumar, Sunita J. Varjani, S. Suganya	Bioresource Technology, Vol. 250, pp. 716722, 2018	2018	15	SSN College of Engineering	15
Pecan Shell based Activated Carbon for Removal of Iron (II) from Fracking Wastewater: Adsorption Kinetics, Isotherm and Thermodynamic Studies	Aditya Rajeev Kav eeshwar, P. Senthil Kumar, Emmanuel D. Revellame, Daniel D. Gang, Mark E. Zappi, S. Ramalingam	Process Safety and Environmental Protection, Vol. 114, pp. 107122, 2018	2018	12	SSN College of Engineering	12
Isolation, Structure elucidation and anticancer activity from Brevibacillus brevis EGS 9 that combats Multi Drug Resistant actinobacteria	T. Arumugam, P. Senthil Kumar, R.V. Hemavathy, V. Swetha, R. Karishma Sri	Microbial Pathogenesis, Vol. 115, pp. 146153, 2018	2018	0	SSN College of Engineering	0
Intensified degradation of pharmaceuticals	S. Nachiappan, P. Senthil Kumar, K. P.	Desalination and Water Treatment, Vol. 102,	2018	0	SSN College of Engineering	0

effluents by Novel Aerobic Ironswarf activated molecular oxygen in the presence of ascorbic acid	Gopinath, V. Rajinikanth, R. Baskaran, A. Babu Ponnusami	pp. 273279, 2018				
NanoZero Valent Iron Impregnated Cashew Nut Shell: A Solution to Heavy Metal Contaminated Water / Wastewater	P. Senthil Kumar, Akshaya S Nair, R. Ananya, A. Saravanan	IET Nanobiotechnology, Vol. 12 (5), pp. 591599, 2018	2018	1	SSN College of Engineering	1
Isolation, Characterization and Purification of Xylanase producing Bacteria from Sea Sediment	P. Senthil Kumar, P.R. Yaashikaa, A. Saravanan	Biocatalysis and Agricultural Biotechnology, Vol. 13, pp. 299303, 2018	2018	3	SSN College of Engineering	3
Modelling and analysis on the removal of methylene blue dye from aqueous solution using physically/chemically modified Ceiba pentandra seeds	G. Manikandan, P. Senthil Kumar, A. Saravanan	Journal of Industrial and Engineering Chemistry, Vol. 62, pp. 446461, 2018	2018	1	SSN College of Engineering	1
Theoretical and experimental investigation on the	N. Pavithra, R. Abhaiguru, U.	Journal of Industrial and Engineering Chemistry, Vol.	2018	0	SSN College of Engineering	0

removal of oil spill by selective sorbents	Avinash, D. Gnana Prakash, P. Senthil Kumar	63, pp. 111,2018				
Mass transfer and thermo dynamic analysis on the removal of naphthalene from aqueous solution using oleic acid modified palm shell activated carbon	J. Aravind Kumar, D. Joshua Amarnath, P. Senthil Kumar, C. Sai Kaushik, M. Edwin Varghese, A. Saravanan	Desalination and Water Treatment, Vol. 106, pp. 238250,2018	2018	1	SSN College of Engineering	1
Kinetic and Thermo dynamic analysis for the redemption of effluents containing Solochrome Black T onto Powdered activated carbon: A validation of new SolidLiquid phase equilibrium model	S.Suganya, P.Senthil Kumar	Journal of Molecular Liquids, Vol. 259, pp. 88101, 2018.	2018	3	SSN College of Engineering	3
Experimental Investigation on Bisphenol A and its Leaching Properties in Various Repositories: Real Time Analysis	V. Vishal, P. Senthil Kumar, V. Prasanna, B. Sudhan	Desalination and Water Treatment, Vol.110, pp. 139143, 2018	2018	0	SSN College of Engineering	0
Adsorption	A. R. Kave	Journal of	2018	5	SSN	5

properties and mechanism of barium (II) and strontium(I) removal from fracking wastewater using pecan shell based activated carbon	eshwar, P. Senthil Kumar, E. D. Revellame, D. D. Gang, M. E. Zappi, S. Ramalingam	Cleaner Production, Vol.193, pp. 113 , 2018			College of Engineering	
Management of printed circuit boards by newly designed thermal pyrolytic process: process optimization by RSM approach	A. Jayaprada, J. Abbas Mohaideen, P. Senthil Kumar, V. Kavitha, G. Narendra kumar	Environmental Progress Sustainable Energy, Vol., Issue No., pp., 2018.	2018	0	SSN College of Engineering	0
Study on soliton phase characteristic s in 100 Gbps single channel telecommunication system	Bhupeshwaran Mani Naicker, Jawahar A Radha S	Int J Commun Syst	2017	2	SSN College of Engineering	2
Design And Implementation Of High Speed And Area Efficient Mac Unit	M. Nivedha, V. Priyadharshini, K. Rathi Meena, C. Thiruvengatesan	International Journal of MC Square Scientific Research	2017	0	SSN College of Engineering	0
Design of Low Power Approximate Radix8 Booth Multiplier	Sindhuja K Thiruvengatesan C	International Journal of Engineering Research Technology	2017	0	SSN College of Engineering	0
Compact Bandpass Filter with Recon	M. H. Masood B S Sreeja	The Journal of Engineering, IET	2018	0	SSN College of Engineering	0

figurable XBand using Stepped Impedance Resonator and Folded Structure						
Multiport RF MEMS switch for satellite payload applications	M. Bala Subramanian C. Joshitha B. S. Sreej Prita Nair	Microsystem Technologies, Springer	2018	0	SSN College of Engineering	0
Chitosan anchored ZnO nanocomposite as modified electrochemical sensor for the detection of Cd (II) ions	Padmalaya G Sreeja BS Senthil kumar P Ari vanandan M	Desalination and water treatment	2017	0	SSN College of Engineering	0
Performance analysis of noncoherent MIMO MRC scheme with training using finite SNR diversity and multiplexing tradeoff	L. Nandita D. Jalihal	Physical Communication, Elsevier	2017	0	SSN College of Engineering	0
Analysis of a Code Construction Method for NonBinary QuasiCyclic Irregular Low Density Parity Check Decoder	Anbuselvi M. Saravanan P Gladwin S. Joseph	Journal of Computational and Theoretical Nanoscience	2018	0	SSN College of Engineering	0
Design and Performance	S. Joseph Gladwin M.	Journal of Computatio	2018	0	SSN College of	0

Comparison of 4Bit Adders Using Different Logic Styles	Mangayarkk arasi	nal and Th eoretical Nanoscienc e			Engineerin g	
A Novel Frequency and Pattern Reconfigurable Rhombic Patch Antenna with Switchable Polarization	Y. Panneer Selva Elumalai L Alsath M.G.N Kana gasabai Malathi S. Kingsly S. Subbaraj	IEEE Antennas and Wireless P ropagation Letters	2017	16	SSN College of Engineerin g	13
Characterization of Delamination in Fiber Reinforced Epoxy Based PCB Laminates, Using an Enhanced Planar Microwave Sensor	E.F.Sundar singh V.R. Samsingh S angeethaSu bbaraj M.K anagasabai Yogeshwari Saffrine	IEEE Trans actions on Components , Packaging and Manufa cturing Technology	2017	0	SSN College of Engineerin g	0
A new error analysis technique for cooperative 5G systems	Velmurugan Nagarajan Chinnamuth u Annadurai	Computers and Electrical Engineerin g, Elsevier	2018	1	SSN College of Engineerin g	1
Performance Analysis of Single Event Double Upset Immune D and SR Flip flops	G. Durga M.Meryl Rino	WSEAS Tran sactions on Electro nics	2018	0	SSN College of Engineerin g	0
Analysis and design of power conditioning circuit for piezoe	S. Kirubaveni S. Radha M. Sudha	IET Science, M easurement Technology	2017	3	SSN College of Engineerin g	3

lectric vibration energy harvester						
Performance of image transmission over MCCDMA based on super resolution technique	P. T. Vasanth Raj K. S. Vishvaksean	Cluster Computing, Springer	2017	0	SSN College of Engineering	0
Mutual information of massive MIMO systems on block Rayleigh faded channels	P. D. Selvam K. S. Vishvaksean	Springer's Cluster Computing The Journal of Networks, Software Tools and Applications	2018	0	SSN College of Engineering	0
A stretchable smart and highly efficient radio frequency antenna on low cost substrate	S. Deepa Nivethika B. S. Sreeja E. Manikandan S. Radha	Microwave and Optical Technology Letters	2018	0	SSN College of Engineering	0
Audio Transmission through Free Space Optics using Visible Light	M. Mohana Krishnan G. S. Sudharsana Prasad M. GulamNabi Alsath R. Balaji S. Logesh	International Journal of Scientific Research in Science, Engineering and Technology (IJSRSET)	2018	0	SSN College of Engineering	0
Design of Shared Aperture Microstrip Patch Antenna Array For Conformal 5G Communications	G. S. Sudharsana Prasad K. Arun M. GulamNabi Alsath	International Journal of Scientific Research in Science, Engineering and Technology (IJSRSET)	2018	0	SSN College of Engineering	0
Autonomous Indoor	Jayaparvathy R	International	2017	0	SSN College of	0

Navigation Robot	Sheeba Angel A Nitin Barattwaj P Srihaarika Vijjappu Srisruthi Sridhar	Journal of Engineering and Technology (IJET)			Engineering	
Feature Based Breast Cancer Detection using Discrete Wavelet Transform from Mammographic Images	J. Shiny Christobel C. Vinoth Kumar	International Journal of Emerging Technology in Computer Science Electronics	2017	0	SSN College of Engineering	0
Strain measurement for structural health monitoring using Fiber Bragg Grating Sensors	K.Vinnaras i, S.Sunda ravadivelu	Indian Journal of Scientific Research	2017	0	SSN College of Engineering	0
High temperature measurement using Fiber Bragg Grating Sensors	S.V.Shruth i, S.Sunda ravadivelu	Indian Journal of Scientific Research	2017	0	SSN College of Engineering	0
Experimental studies on the performance of a multiple PCM thermal storage unit	N. Lakshmi Narasimhan , Karthik P	Research Journal of Pharmaceutical, Biological and Chemical Sciences	2017	0	SSN College of Engineering	0
Modeling of soot characteristics of diesel engines -	Gowthama Krishnan, Rajkumar S	Research Journal of Pharmaceutical, Biological and	2017	0	SSN College of Engineering	0

A review		Chemical Sciences				
A comprehensive review on performance combustion and emission characteristics of biodiesel fuelled diesel engines	P. Tamilselvan, N. Nallusamy, S. Rajkumar	Renewable And Sustainable Energy Reviews	2017	60	SSN College of Engineering	58
A rapid method based on computer vision for the analysis of hardness and eutrophication levels in water bodies	G. Sivaranjani, P. Senthil Kumar, K.P. Gopinath	Desalination and Water Treatment. Vol. 123, pp. 5258, 2018	2018	0	SSN College of Engineering	0
On the growth mechanism of multicrystalline silicon ingots with small grains fabricated using single layer silicon beads	T. Muramatsu, I. Takahashi, G. Anandhababu, N. Usami	Japanese Journal of Applied Physics	2017	2	SSN College of Engineering	2
Fraunhofer and Fresnel Distances : Unified derivation for aperture antennas	Krishnasamy T. Selvan , Ramakrishna Janaswamy	IEEE Antennas and Propagation Magazine	2017	11	SSN College of Engineering and SAMEER, Chennai	11
Estimation of Glottal Closure	G. Anushiya Rachel, P.	Computer, Speech, and	2017	2	SSN College of Engineering	1

Instants from Degraded Speech using a Phase Difference Based Algorithm	Vijayalakshmi, T. Nagarajan	Language			g	
Speech Input Speech Output Communication for Dysarthric Speakers Using HMM Based Speech Recognition and Adaptive Synthesis System	M Dhanalakshmi, T. A. Mariya Celin, T. Nagarajan, P. Vijayalakshmi	Circuits, Systems and Signal Processing	2018	2	SSN College of Engineering	0
Significance of Differenced EGG Signal as a Spectrum in Phase Difference Computation for the Estimation of Glottal Closure Instants	G. Anushiya Rachel, N. Sripriya, P. Vijayalakshmi, T. Nagarajan	Circuits, Systems and Signal Processing	2018	1	SSN College of Engineering	0
Effect of Precursor Concentration on Structural, Morphological, and Optical Properties of ZnO Thin Film Sensor for Ethanol Detection	Sudha M, Radha S, Kirubaveni S, Kiruthika R, Govindaraj R, Santhosh N, Ramasamy P	IEEE Transactions on Nanotechnology	2018	5	SSN College of Engineering	0
Experimental study on structural, optoelectronic	Sudha M, Radha S, Kirubaveni S, Kiruthika	Solid State Sciences, Elsevier	2018	7	SSN College of Engineering	5

and room temperature sensing performance of nickel doped ZnO based ethanol sensors	R, Govindaraj R, Santhosh N					
Design and analysis of cantilever based piezoelectric vibration energy harvester	Kirubaveni Savarimuthu, Radha Shankararajan, Gulam Nabi Alsath M., Ani Melfa Roji M	Circuit World	2018	3	SSN College of Engineering	2
SSN College of Engineering	Kiruthika. R, Priyadarshini.E, Kirubaveni.S, Radha.S	International Journal of Pure and Applied Mathematics	2018	0	SSN College of Engineering	0
Fabrication of Nickel Doped ZnO/PEDOT: PSS Schottky Diode Based Ultraviolet Photodetector	Sudha Murugesan, Radha Shankararajan, Kirubaveni Savarimuthu	International Journal of Pure and Applied Mathematics	2018	0	SSN College of Engineering	0
Design of a Filter using Array of Pillars for Particle Separation	Indhu R, Anni Steffi Mercy J, Shreemathi K.M, S.Radha, S. Kirubaveni, B.S Sreeja	Material Today Proceeding, Springer	2018	0	SSN College of Engineering	0
Design and Implementation of Microwave Based Ethanol Sensor	Rapuru Srinithya, Velkani E., M. Gulam Nabi Alsath, Kirubaveni Savarimuthu	International Journal of Pure and Applied Mathematics	2018	0	SSN College of Engineering	0

Infrared and visible image fusion using discrete cosine transform and swarm intelligence for surveillance applications	Nirmala P aramanandha m, Kishore Rajendiran	Infrared Physics and Techno logy, Elsevier	2017	10	SSN College of Engineerin g	8
Efficient Multi Focus Image Fusion Technique Optimized Using MOPSO for Surveillance Applications	Nirmala P aramanandha m, Kishore Rajendiran	Internatio nal Journal of Intelligen t Informat ion Techno logies, IGI Global	2018	1	SSN College of Engineerin g	0
Energy Efficient Quasi Cyclic FEC for Wireless Sensor Networks	P.Kaythry, R.Kishore	Applied Ma thematics and Inform ation Sciences	2017	0	SSN College of Engineerin g	0
Energy Efficient Raptor Codes for Error control in Wireless Body Area Networks	P.Kaythry, R.Kishore, V.Praveena	Wireless Personal C ommunicati on	2018	3	SSN College of Engineerin g	3
An Image Contrast Enhancement Algorithm for grayscale images using particle swarm optimization	Madheswari .K N. Venk ateswaran	Multimedia Tools and applicatio ns, Springer	2018	2	SSN College of Engineerin g	0
Swarm Inte	K.	MULTIMEDIA	2017	3	SSN	2

lligent based Contrast Enhancement Algorithm with Improved Visual Perception for Color Images	Madheswari and N. Venkateswaran	TOOLS AND APPLICATIONS Springer			College of Engineering	
Quantization and Security Enabled Compressive Video CODEC for WSN	Angayarkanni Veeraputhiran, Radha S	Multimedia Tools and Applications	2017	0	SSN College of Engineering	0
Feature based fall detection system for elders using compressed sensing in WWSN	Angayarkanni Veeraputhiran, Radha S	Wireless Networks	2017	0	SSN College of Engineering	0
Web Enabled Plant Disease Detection System for Agricultural Applications Using WMSN	S. Aasha Nandhini, R. Hemalatha, S Radha, K. Indumathi	Wireless Personal Communication	2017	1	SSN College of Engineering	1
Energy efficient surveillance system using WWSN with reweighted sampling in modified fast Haar wavelet transform domain	Monika, R., Hemalatha, R. Radha, S.	Multimedia Tools and Applications	2018	0	SSN College of Engineering	0
Noninvasive Glaucoma Screening Using	N.Padmapriya, N. Venkateswaran, Toshita	Journal of Computing and Information	2017	1	SSN College of Engineering	0

Ocular Thermal Image Classification	Kannan Sindhu Madhuri,	Technology				
Coherence analysis of ambient noises in shallow water for underwater Communication	Annalakshmi G, Sakthivel Murugan S, Venugopal Padmanabhan, Swetha Vivekananthan, Vaishali Selvaraj	Journal of Marine Science and Technology	2017	0	SSN College of Engineering	0
AI Modeling and analysis of pivotal parameters in drilling hybrid fibre composite (HFC)	Visveshwar N, Vignesh K, Vimal Samsingh	FME Transactions	2017	0	SSN College of Engineering	0
A comparative analysis on tensile strength of dry and moisture absorbed hybrid kenaf/glass polymer composites	Dr.M.Nalla Mohamed, A.Praveen kumar	Journal of Industrial Textiles	2017	9	SSN College of Engineering	9
Design and performance analysis of boost converters in an energy harvesting system for underwater applications using sea water in microbial	Janani. P, Sakthivel Murugan S	Indian journal of Geo Marine Sciences	2017	1	SSN College of Engineering	1

fuel cell						
Study the effect of Cryogenic Cooling on Machinability Characteristics during Turning Duplex Stainless Steel 2205	Dr.M. Dhananchezian,	Materials Today: Proceedings	2018	0	SSN College of Engineering	0
Implementation of sea sand in microbial fuel cell for an energy harvesting system using LTC for underwater applications	Janani. P , Sakthivel Murugan S	Indian journal of Geo Marine Sciences	2017	0	SSN College of Engineering	0
Low Cost Flexible Multiband Terahertz Planar Antennas for Bolometer Applications	Manikandan E Sreeja B S Radha S	Journal of Active and Passive Electronic Device	2018	0	SSN College of Engineering	0
Potential applications of ionic liquids (IL) for the treatment of synthetic turbid water (STW)	Judith Emilian Christy S. S, Ambedkar Balraj, Anantharaj Ramalingam , Dhanalakshmi Jayaraman	Journal of Molecular Liquids 256 (2018) 121-126	2018	0	SSN College of Engineering	0
Treatment of Synthetic Turbid Water	Judith Emilian Christy SS, Anantharaj	Research Journal of Pharmaceutical, Biological	2017	0	SSN College of Engineering	0

using Natural Tamarind Seeds at Atmospheric Conditions	R, Ambedkar B and Dhanalakshmi J	and Chemical Sciences, 8 (2017) 352359.				
Cement Replacement by RHA in Concrete for Sustainable Development.	Josephin Alex, J. Dhanalakshmi, B. Ambedkar and R. Anantharaj.	Research Journal of Pharmaceutical, Biological and Chemical Sciences, 8 (2017) 325 334. IF:0.35	2017	0	SSN College of Engineering	0
Interaction energy of pyrrole and pyridine with 1ethyl-3-methylimidazolium ethyl sulphate	R. Anantharaj,	Journal of Molecular Liquids, 231(2017) 56-63. IF:4.513	2017	0	SSN College of Engineering	0
A DFT method analysis for formation of hydrogen rich gas from acetic acid by steam reforming process.	Md. Arafat Hossain, J. Jewaratnam, R. Anantharaj, J.N. Sahu, P. Ganesan,	Fuel, 212 (2018) 49 - 60. IF:4.601	2018	0	SSN College of Engineering	0
Reactivity, Stability Thermodynamic Feasibility of H ₂ O ₂ /H ₂ O at Graphite Cathode: Application of Quantum Chemical Calculations in MFCs.	Anam Asghar, Abdul Aziz Abdul Raman, Wan Mohd Ashri Wan Daud, R. Anantharaj,	Environmental Progress Sustainable Energy. DOI: 10.1002/ep.12806. IF:1.326	2017	0	SSN College of Engineering	0

Synthesis of itaconic acid from agricultural waste using novel <i>Aspergillus niveus</i>	Gnanasekaran Ramakrishna, Balaji Dhandapani, Gopinath Kannappan Panchamoorthy, and Iyyappan Jeyaraj	Preparative Biochemistry And Biotechnology	2018	0	SSN College of Engineering	0
Synthesis of itaconic acid from agricultural waste using novel <i>Aspergillus niveus</i>	Ramakrishnan Gnanasekaran, Balaji Dhandapani, Kannappan Panchamoorthy Gopinath, Jeyaraj Iyyappan	Preparative Biochemistry and Biotechnology	2018	0	SSN College of Engineering	0
Intensified degradation of pharmaceutical effluents by novel aerobic ironswarf activated molecular oxygen in the presence of ascorbic acid	A. Babu Ponnusami S. Nachiappan, P. Senthil Kumar, K. P. Gopinath, V. Rajinikanth, R. Baskaran	Desalination and Water Treatment	2018	0	SSN College of Engineering	2
Ultrasound assisted enhanced extraction of lutein (β, β-carotene3, 3diol) from Microalgae (<i>Chlorella pyrenoidosa</i>) grown in wastewater: Optimization through Response	J Arun, U Avinash, B Arun Krishna, M Pandimadevi, KP Gopinath	Global nest journal	2017	0	SSN College of Engineering	1

Surface methodology						
Studies on influence of process parameters on hydrothermal catalytic liquefaction of microalgae (Chlorella vulgaris) biomass grown in wastewater	Jayaseelan Arun, Sivaraman Jayachandran Shreekanth, Ravishankar Sahana, Meenakshi Sundaram Raghavi, Kannappan Panchamoorthy Gopinath, Dhakshinamoorthy Gnana prakash	Bioresource technology	2017	0	SSN College of Engineering	4
Recent advancements in supporting materials for immobilised photocatalytic applications in wastewater treatment	B Srikanth, R Goutham, R Badri Narayan, A Ramprasath, KP Gopinath, AR Sankaranarayanan	Journal of environmental management	2017	0	SSN College of Engineering	36
Antimicrobial activity of Mukia maderasapata stem extract of jujube seeds activated carbon against gram positive /gram negative bacteria and fungi strains: Application in heavy removal	A. Saravanan R. Gayathri, K.P. Gopinath, P. Senthil Kumar	Desalination and Water Treatment	2017	0	SSN College of Engineering	0
Edge detection	Nagarajan, D., Latham	International	2018	2	SSN College of	2

on DICOM image using triangular norms in type2 Fuzzy	aheswari, M., Sujatha, R., Kavikumar, J.	Journal of Advanced Computer Science and Applications			Engineering	
Concept of integrity and its value of fuzzy graphs	Saravanan, M., Sujatha, R., Sundar eswaran, R., Sahoo, S., Pal, M.	Journal of Intelligent and Fuzzy Systems	2018	2	SSN College of Engineering	2
Handwritten text recognition system for English	G. Azhaguv arthani, B. Ramani	International Journal of Pure and Applied Mathematics	2017	0	SSN College of Engineering	0
Feature based Breast Cancer Detection using Mammographic Images	J. Shiny Christobel and C. Vinoth Kumar	Indian Journal of Scientific Research	2017	0	SSN College of Engineering	0
Noniterative CS recovery algorithm for surveillance applications: subjective and realtime experience	J. Florence Gnana Poovathy, S. Radha, V. Suganesh	Multimedia Systems, Signal Process	2018	0	SSN College of Engineering	0
Design of Compressive Sensing based Fall Detection System for Elderly using WSN	Angayarkan ni Veeraputhiran, Radha S	Wireless Personal Communication	2017	0	SSN College of Engineering	0
Patterning of Thin Film Copper and ITO on Flexible Substrates for	Manikandan Esakkimuthu Sreeja B S, Radha S, Abhishek Gupta, Goutam Rana, Prabhu S	JLMN Journal of Laser Micro/Nano engineering	2017	3	SSN College of Engineering	0

Terahertz Antenna Applications						
Solar Power Compact and Flexible Monopole Antenna for UltraWideband Applications Deploying Fractal Geometry	E.Manikandan,G.Padmalaya,Sreeja B S,Radha S	Water and Energy International	2017	2	SSN College of Engineering	0
Compact and Flexible Monopole Antenna for UltraWideband Applications Deploying Fractal Geometry	Geetha, G, Sandeep, P, Alsath, M.G.N, Kanagasabai, M, Ramarao, T	Journal of Electrical Engineering and Technology	2018	2	SSN College of Engineering	2
A Low Profile Frequency and Pattern Reconfigurable Antenna	Y. Panneer Selvam., Elumalai, L., Alsath, M.G.N., K. Malathi, S. Kingsly, S. Subbaraj	IEEE Antennas and Wireless Propagation Letters	2017	9	SSN College of Engineering	7
A PatchSlot Antenna Array with Compound Reconfiguration	Y. P. Selvam, Alsath, M.G.N., K. Malathi, L. Elumalai, S. K. Palaniswamy, S. Subbaraj, S. Kingsly, G. Konganthan, I. K ulandhaisamy	IEEE Antennas and Wireless Propagation Letters	2018	3	SSN College of Engineering	1
An	Alsath,	IEEE Trans	2018	4	SSN	4

Integrated Triband/UWB Polarization Diversity Antenna for Vehicular Networks	M.G.N., A. Henridass, Y.P. Selvam, K. Malathi, S. Sangeetha, K. Saffrine, S. Ramprabhu, S. K. Palaniswamy, N. Rajesh	actions on Vehicular Technology			College of Engineering	
Compact Multiservice Monopole Antenna for Tablet Devices	S. Subbaraj, K. Malathi, Alsath, M.G.N, Y. P. Selvam, S. Kingsly	International Journal of Electronics	2018	0	SSN College of Engineering	0
Multi-band reconfigurable microwave filter using dual concentric resonators	S. Kingsly, K. Malathi, Alsath, M.G.N, Y. P. Selvam, S. Subbaraj, N. Rajesh	International Journal of RF and Microwave Computer Aided Engineering	2018	0	SSN College of Engineering	0
Miniaturized QuadBand Coplanar Fed Monopole Antenna for Tablet Computers	S. Subbaraj, K. Malathi, Alsath, M.G.N., Y. Panneer Selvam., S. Kingsly, Y.V.Ramana Rao	COMPEL International Journal for Computation and Mathematics in Electrical and Electronic Engineering	2018	0	SSN College of Engineering	0
Analytic hierarchy processes for spectrum sharing in 5G new radio standard	R. Kalidoss, M. Saravanan, K. Manikannan	Wireless Personal Communications	2018	7	SSN College of Engineering	7
Real Time Experimental Study	KS Vishvak senan, R K alaiarasan	Proceedings of the National	2018	11	SSN College of Engineering	9

and Analysis of Elliott Wave Theory in Signal Strength Prediction	, R Kalidoss, R Karthipan	Academy of Sciences, India Section A: Physical Sciences			g	
Isolation Enhancement in DualBand Microstrip Antenna Array Using Asymmetric Loop Resonator	B Lakshmi Dhevi, Kuttathati Srinivasan Vishvakshan, Kalidoss Rajakani	IEEE Antennas and Wireless Propagation Letters	2018	4	SSN College of Engineering	4
Optimized and lowcomplexity power allocation and beamforming with full duplex in massive MIMO and smallcell networks	Selvam Paranche Damodaran, Vishvakshan Kuttathati Srinivasan, Kalidoss Rajakani	The Journal of Supercomputing	2018	2	SSN College of Engineering	2
Security Improvement in Next Generation Wireless System by Interleaver in Transceiver Structures	B Partibane, R Kalidoss, R Karthipan	Journal of Cyber Security and Mobility	2017	5	SSN College of Engineering	0
Mitigation of cochannel interferences in cognitive multicarrier code division multiple access system by singular value deco	I Nelson, C Annadurai, R Kalidoss, B Partibane	Cluster Computing	2018	9	SSN College of Engineering	8

Composition techniques						
Mitigation of mutual exclusion problem in 5G new radio standards by token and non token based algorithms	M Saravanan, R Kalidoss, B Partibane, R Karthipan	Cluster Computing	2017	7	SSN College of Engineering	6
Design of a bandwidth enhanced hybrid slot loop antenna for GSM/UWB standards	Partibane B., Gulam Nabi Alsath M., Kalidoss Rajakani	Circuit World	2017	2	SSN College of Engineering	2
Image Processing Techniques for Segments Grouping in Monaural Speech Separation	S Shoba and R Rajavel	Circuits, Systems, and Signal Processing	2017	2	SSN College of Engineering	0
Patch based fast noise level estimation using DCT and standard deviation	S. B. Mohan, T. A. Raghavendaran and R. Rajavel	Cluster Computing	2018	1	SSN College of Engineering	1
Certain Investigation on the Source Separation Using Visual Cues under Noise Environment	Balasubramanian Sivasubramanian, Rajavel Ramadoss	Journal of Advanced Research in Dynamical Control Systems	2018	0	SSN College of Engineering	0
Certain Investigation on the	Joseph Sathiadhas Esra,	Journal of Advanced Research	2018	0	SSN College of Engineering	0

Design of Wavelet Filter Bank for Hearing Aid	Rajavel Ramadoss	in Dynamical Control Systems			g	
Parallelized Classification of Cancer Subtypes from Gene Expression Profiles Using Recursive Gene Selection	Lokeswari V., Shomona Gracia J., Rajavel R	Studies in Informatics and Control	2018	0	SSN College of Engineering	0
A Single Image Super Resolution Algorithm for Infrared Thermal Images	Kiran Y Srinidhi V W Jino Hans N Venkateswaran	International Journal of Computer Science and Network Security	2017	2	SSN College of Engineering	2
Selfie image super resolution using an implicit prior learned from self examples	W Jino Hans N Venkateswaran	Cluster Computing	2018	0	SSN College of Engineering	0
Completely integrated multilayered weave electrotextile antenna for wearable applications	Esther F. Sundarsingh, Malathi Kanagasabai and Vimal Samsingh Ramalingam	International Journal of Microwave and Wireless Technologies	2017	2	SSN College of Engineering	2
EBG Backed Flexible Printed Yagi-Uda Antenna for OnBody Communication	B. Sakthi Abirami and Esther Florence Sundarsingh	IEEE Transactions on Antenna and Propagation	2017	10	SSN College of Engineering	10
Transit Time	V. Ramalingam, M. Ka	IEEE Transactions on	2017	1	SSN College of	1

Dependent Condition Monitoring of PCBs during Testing for Diagnostics in Electronics Industry	nagasabai, Esther. Sundarsingh	Industrial Electronics			Engineering	
Hilbert fractal stubbased wideband microstrip bandpass filter with notched band on lowcost substrate	Karthie S, Salivahana S	Microwave and Optical Technology Letters	2018	1	SSN College of Engineering	1
Novel Reconfigurable 3D Frequency Selective Surface	R. Sivasamy, M. Kanagasabai	IEEE Transactions on Components, Packaging and Manufacturing Technology	2017	9	SSN College of Engineering	8
Performance enhancement of IPv6 low power wireless personal area networks (6LoWPAN) by Lamport's algorithm	R. Rajesh, C. Annadurai, K. Nirmaladevi	Cluster Computing	2017	1	SSN College of Engineering	0
A Wideband Frequency Tunable FSS for Electromagnetic Shielding Applications	R. Sivasamy, B. Moorthy, M. Kanagasabai, V. R. Samsingh, M. G. N. Alsath	IEEE Transactions on Electromagnetic Compatibility	2018	22	SSN College of Engineering	20
Experimental investigation and	B. Jagadeesh, P. Dinesh	Journal of Industrial Textiles	2017	1	SSN College of Engineering	1

optimization of AWJ cutting parameters for the improvement of cut quality in CFRP laminates	babu, M. Nalla Mohamed, P. Marimuthu				g	
Friction welding of selective laser melted TiAl4V parts	K.G. Prashanth, R. Damodaram, T. Maity, P. Wang, J. Eckert	Material Science and Engineering A	2017	11	SSN College of Engineering	11
Chemical ignition delay of candidate drop-in replacement jet fuels under fuel lean conditions: A shock tube study	Giacomo Flora, Jayakishan Balagurunathan, Saumitra Saxena, Jeremy P Cain, Moshan SP Kahandawala, Matthew J DeWitt, Sukhjinder S Sidhu, Edwin Corporan	Fuel	2017	4	SSN College of Engineering	3
Microstructure And Salt Fog Corrosion Behavior Of AA2219 Friction Stir Welded Aluminum Alloy	G. Srinivasa Rao, V. V. Subba Rao, and S. R. K. Rao	Metal Science and Heat Treatment	2017	0	SSN College of Engineering	0
Microstructure And Mechanical Properties Of Welded Joints Of Aluminum Alloy AA7020T6 Obtained By Friction	G. Srinivasa Rao, V. V. Subba Rao, and S. R. K. Rao	Metal Science and Heat Treatment	2017	0	SSN College of Engineering	0

Stir Welding						
Comparison of the welding behavior of P/M borated and I/M borated stainless steel	Tanniru Rajesh Babu, Sadayan Rajendra Boopathy, Sajja Rama Koteswara Rao, Guttikonda Raja Kumar and Gabbita Durga Janaki Ram,	Materials Testing	2017	0	SSN College of Engineering	0
Impact of cutting forces and chip micro structure in high speed machining of carbon fiber - epoxy composite tube	Y. Allwin roy, K. Gobivel, K.S. Vijay Sekar, S. Suresh Kumar	Arch. Metall. Mater	2017	2	SSN College of Engineering	2
A Novel Metamaterial Enhanced Microwave Testing System for Bare PCB Substrates Using Image Rendering Approach	V. R. Samsingh, M. Kanagasabai and E. F. Sundarsingh	IEEE Transactions on Components, Packaging and Manufacturing Technology	2017	0	SSN College of Engineering	0
Axial crash performance of pressformed open and end capped cylindrical tubes A comparative analysis	A. Praveen Kumar, M. Nalla mohamed, A. Jusuf, T. Dirgantara, L. Gunawan	Thin Walled Structures	2018	15	SSN College of Engineering	15
Experimental investigation and	B Jagadeesh, P Dinesh	Journal of industrial Textiles	2018	0	SSN College of Engineering	0

optimization of abrasive water jet cutting parameters for the improvement of cut quality in carbon fiber reinforced plastic laminates	Babu, M Nalla Mohamed and P Marimuthu				g	
A comparative analysis on tensile strength of dry and moisture absorbed hybrid kenaf/glass polymer composites	A Praveen Kumar and M Nalla Mohamed	Journal of industrial Textiles	2018	0	SSN College of Engineering	0
Mechanisms of friction and their correlation to bond strength of friction welded Ti6Al4V similar welds, Low Carbon steel Stainless steel and AluminiumCopper dissimilar welds	Dr.D.Ananthapadmanaban,	International Journal of Innovations in Engineering and Technology	2018	0	SSN College of Engineering	0
Solution for Biobjective Single Row Facility Layout Problem using Artificial Bee Colony	Lenin N, Sivakumar M, Selvakumar G, Vigneshkumar D	European Journal of Industrial Engineering (EJIE), Inderscience Publishers, Switzerland, Vol. 12	2018	0	SSN College of Engineering	0

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Solution for Multi-Objective Single Row Facility Layout Problem using Particle Swarm Optimization Algorithm	Lenin N, Selvakumar G and Sivakumar M	International Journal of Manufacturing Technology and Management. Inderscience Publishers, Switzerland	2018	0	SSN College of Engineering	0
Optimization of Laser cutting of SS 430 Plate using Advanced Taguchi Entropy Weighted based GRA Methodology	K. Velayutham, K. Venkadeswaran and G. Selvakumar	International Journal of Mechatronics and Manufacturing Systems	2018	0	SSN College of Engineering	0
Review of Finite Element Analysis in Machining Processes	Dr.K.S.Vijay Sekar, B. V. Ajay Subramanyam	Advanced Science, Engineering and Medicine	2018	0	SSN College of Engineering	0
3D Finite Element Analysis of Drilling of Glass Fiber Reinforced Polymer Composites	Dr.K.S.Vijay Sekar, C. Prakash	Advanced Science, Engineering and Medicine	2018	1	SSN College of Engineering	1
Investigation on the Cutting Quality Characteristics of Abrasive Water jet Machining on AA6061B 4ChBN	A. Gnanavelbabu, Kalaiyamoorthy Rajkumar P. Saravanan	Materials and Manufacturing Process	2018	2	SSN College of Engineering	0

Hybrid Metal Matrix Composites						
Numerical studies on mixed mode fracture behavior of dissimilar (AISI 304 and AA1050) welded joints with multiple cracks	Suresh Kumar S, Naren Balaji VPrrithvi P.M	Welding in the World	2018	0	SSN College of Engineering	0
Investigation on machining and surface characteristics of AA5083 for cryogenic applications by adopting trim cut in WEDM	G. Selvakumar, K. G. Thirupathi Kuttalin gam, S. Ram Prakash	Journal of the Brazilian Society of Mechanical Sciences and Engineering	2018	2	SSN College of Engineering	2
Finite Element Analysis of Heat Input Effect on Temperature, Residual Stresses and Distortion in Butt Welded Plates	D.Venkatkumara D.Ravindran, G. Selvakumar	Materials Today: Proceedings	2018	0	SSN College of Engineering	0
Assessment of ergonomically designed handle shapes for low frequency	B. Jain A.R Tony, M.S Alphin	Proceedings of the Institution of Mechanical Engineers part LJournal	2018	0	SSN College of Engineering	0

vibration responses		of Materials Design and Applications				
Transit time dependent condition monitoring of PCBs during testing for diagnostics in electronics industry	Vimal Samsingh R, Malathi K, and Esther Florence S	Industrial Electronics	2018	1	SSN College of Engineering	0
The sensitivity of contact stresses in the mandibular premolar region to the shape of Zirconia dental implant: A 3D finite element study	D Velmurugan, M S Alphin, B Jain AR Tony	Polish journal of Medical Physics and Engineering	2018	0	SSN College of Engineering	0
3D finite element analysis of slot milling of unidirectional glass fiber reinforced polymer composites	K.S. Vijay Sekar	Journal of the Brazilian Society of Mechanical Sciences and Engineering 40(6):279 · June 2018	2018	1	SSN College of Engineering	0
3D Finite element analysis of slot milling process for Titanium alloy Ti6Al4V	K.S. Vijay Sekar	IOSR Journal of Engineering	2018	0	SSN College of Engineering	0
Experimental Investigation on	R. Vimal Samsingh	FME Transactions	2018	2	SSN College of Engineering	2

the Influence of Process Parameters in Thermal Drilling of Metal Matrix Composites					g	
A decision making trial and evaluation laboratory approach to analyse the challenges to environmentally sustainable manufacturing in Indian automobile industry	L.Poovazhagan	International journal of Sustainable Production and Consumption	2018	0	SSN College of Engineering	0
Effect of Abrasive Waterjet Machining Parameters on Hybrid AA6061B4C CNT Composites	K.Rajkumar , A.Gnanavelbabua, P .Saravanan , S.Karthikeyan , Baskaran	Materials Today: Proceedings	2018	2	SSN College of Engineering	2
Experimental Investigations on Multiple Responses in Abrasive Waterjet Machining of Ti6Al4V Alloy	K.Rajkumar , A.Gnanavelbabua, P .Saravanan , S.Karthikeyan	Materials Today: Proceedings	2018	1	SSN College of Engineering	1
Preparation of Super Hydrophobic Loofah Sponge for Fast and Efficient Separation of Oil from	K. Rajkumar,	Materials Today: Proceedings	2018	1	SSN College of Engineering	1

Seawater						
Enhanced properties of Magnesium based metal matrix composites via Friction Stir Processing	S. Arokiasamy, B. Anand Ronald	Materials Today: Proceedings	2018	0	SSN College of Engineering	0
Spray Characteristics of Diesel Fuel Using Numerical Simulation	P. Vengatesh, P. Raghu, N. Nallusamy	International Research Journal of Engineering and Technology	2018	0	SSN College of Engineering	0
Analysis of a thermal storage unit containing multiple phase change materials dispersed with high conductivity particles	N. Lakshmi Narasimhan and G. Srinivasan	Journal of Mechanical Science and Technology (Springer)	2018	0	SSN College of Engineering	0
Studies on the inward spherical solidification of a phase change material dispersed with macro particles	N. Lakshmi Narasimhan, V. Veeraraghavan, G. Ramanathan, B. Sanjay Bharadwaj, M. Thamilmani	Journal of Energy Storage (Elsevier)	2018	1	SSN College of Engineering	1
A wavelet transform based contrast enhancement method for underwater acoustic images	R. Priyadarsini	Multidimensional System and Signal Processing	2017	6	SSN College of Engineering	5

Dynamic small world particle swarm optimizer for function optimization	Mirnalinee , T. T.	Natural Computing, Springer	2017	1	SSN College of Engineering	1
An Efficient Method to Detect Moving Object with Features by Using GLCM and ANN	D.V V prasad	International Journal of Pure and Applied Mathematics	2017	1	SSN College of Engineering	1
Approaches and Applications of Virtual Reality and Gesture Recognition: A Review	Shomona Gracia Jacob, Manisha S	International Journal of Ambient Computing and Intelligence	2017	1	SSN College of Engineering	1
Feature Selection Techniques for Alzheimers Disease: A Review	Shomona Gracia Jacob	International Journal of Engineering Technology Science and Research	2017	0	SSN College of Engineering	0
Performance Optimization of Nonlinear VLSI Interconnect Circuit using Schmitt Trigger	D.Venkatav araprasad , J.Suresh	International Journal of Computer Applications	2017	0	SSN College of Engineering	0
A Comparative Study on the performance of classifiers in predicting	Shomona Gracia Jacob	International Journal of Engineering Technology Science	2017	0	SSN College of Engineering	0

frequency of drug intake: A case study with Ketamine, Heroin, Crack and Meth		and Research				
Automatic and Efficient Cleansing of Illustration Images in Web	Priyadharsini .R, Manisha.S	Journal of Image Processing and Artificial Intelligence	2017	0	SSN College of Engineering	0
IoT based Door Alert System for People with Hearing Impairment, vol. 4, pp. no. 11,	Arun Vignesh M	International Journal of Engineering Researches and Management Studies	2017	0	SSN College of Engineering	0
Manuscript Analysis and Event Extraction using Natural Language Processing and Convolutional Neural Networks	Arun Vignesh M, Aarthe Jayaprakash, Krishnapriya.G.B	International Journal of Engineering Sciences Management	2017	0	SSN College of Engineering	0
An Image Contrast Enhancement Algorithm for Grayscale Images Using Particle Swarm Optimization	Madheswari .K	Multimedia Tools and Applications	2018	4	SSN College of Engineering	4
Designing towards an efficient Job Aware Scheduling Algorithm	Prasad, D.V.V., Suresh J.	Springer Cluster Computing	2018	0	SSN College of Engineering	0

for IaaS Cloud						
NullSpace based facial classifier using Linear regression and Discriminant Analysis method	Prasad, D.V.V., Suresh J.	Springer Cluster Computing	2018	0	SSN College of Engineering	0
Cloud data integrity checking using bilinear pairing and network coding	Balasubramanian, V.	Springer Cluster Computing	2018	0	SSN College of Engineering	0
A quick survey of Artificial Neural Network based face classification algorithms	Prasad, D.V.V., Suresh J.	Springer Cluster Computing	2018	0	SSN College of Engineering	0
Disc Bulge Diagnostic Model in Axial Lumbar MR Images using Intervertebral Disc Descriptor	Beulah A	Multimedia Tools and Applications, Springer	2018	0	SSN College of Engineering	0
A TwoLevel Secure Data Hiding Algorithm for Video Steganography	S. Manisha	Multidimensional systems and signal processing, Springer	2018	1	SSN College of Engineering	1
A Review on Advancement in NonNoble Metal based Oxides as	K.Surya, M .S.Michael, S.R.S. Prabakaran	Solid State Ionics	2018	5	SSN College of Engineering	2

Bifunctional Catalysts for Rechargeable Nonaqueous Li/air Battery						
Direct ZScheme heterojunction nanocomposite for the enhanced solar H ₂ production	N. Subha , M. Mahalakshmi , M. Myilsamy, B. Neppolian, V. Murugesan.	Applied Catalysis A: General .553, 4351,	2018	4	SSN College of Engineering	4
Effective excitons separation on graphene supported ZrO ₂ /TiO ₂ heterojunction for enhanced H ₂ production under solar light	N. Subha, M. Mahalakshmi, M. Myilsamy, N. Lakshmana Reddy, M.V. Shankar, B. Neppolian, V. Murugesan	The International Journal of Hydrogen Energy. 43, 3905 3919	2018	2	SSN College of Engineering	2
Cationic surfactant mediated room temperature synthesis and characterization of ZnO nanoparticles	Arun Luiz T	Inorganic and nanometal chemistry	2018	1	SSN College of Engineering	1
A Novel Method for the Synthesis of Racemic Pregabalin , Baclofen and 3Phenibut Involving Lossen Rearrangement	Kannan Ponnusamy, S. I. Davis Presley, Prakash Nagapillai, Eswaramoorthy Deivanayagam	Indian Journal of Heterocyclic Chemistry, 28(2) 275278	2018	0	SSN College of Engineering	0
An efficient	Kannan Ponnusamy,	Current Organic	2018	0	SSN College of	0

and improved process for the synthesis of itopride hydrochloride and tro methobenzamide hydrochloride	S. I. Davis Presley, Prakash Nagapillai, Eswaramoorthy Deivanayagam,	Synthesis, 15, 572575			Engineering	
A Multilingual to Polyglot Speech Synthesizer for Indian Languages Using a VoiceConverted Polyglot Speech Corpus	P. Vijayalakshmi, B. Ramani, M. P. Actlin Jeeva, T. Nagarajan	Circuits, Systems and Signal Processing	2018	3	SSN College of Engineering	3
Behavioral Modeling for Mental Health using Machine Learning Algorithms	Srividya, M., Mohanavalli, S. Bhalaji, N	Journal of Medical Systems	2018	5	SSN College of Engineering	5
BCI Cinema-tics-A prerelease analyser for movies using H2O deep learning platform	Sundhara Kumar KB, G Krishna, N Bhalaji, S Chithra	Computers Electrical Engineering,	2018	2	Department of Information Technology, SSN College of Engineering	2
Mutated SocioAgentSim (MSAS): semi supervised modelling of multiagent simulation to predict and detect the mutation in a camou	S. Karthika S. Bose	Turkish journal of electrical engineering and computer sciences	2018	0	SSN College of Engineering	0

flagged social network						
A twolevel secure data hiding algorithm for video steganography	S. Manisha, T. Sree Sharmila	Multidimensional Systems and Signal Processing	2018	1	SSN College of Engineering	1
An augmented approach for pseudofree groups in smart cyberphysical system	Kumar, M.V.R., Bhalaji, N. Singh, S.	Cluster Computing	2018	1	SSN College of Engineering	1
SpeechInput SpeechOutput Communication for Dysarthric Speakers Using HMMBased Speech Recognition and Adaptive Synthesis System	M. Dhanalakshmi, T. A. Mariyachelin, T. Nagarajan, P. Vijayalakshmi	Circuits, Systems and Signal Processing	2018	2	SSN College of Engineering	0
Analysis of machine learning algorithm for identifying key players in covert networks	R. Geetha S. Karthika	Disaster advances	2018	0	SSN College of Engineering Chennai India	0
Brain stormbased Whale Optimization Algorithm for privacy protected data publishing in cloud computing	S. Thanga Revathi, N. Ramaraj, S. Chithra	Cluster Computing	2018	2	SSNCE Chennai India	2

Image fusion for MODIS and Landsat images using top hat based moving technique with FIS	Swathika, R. Sharmila, T.S.	Cluster Computing	2018	0	Department of Information Technology SSN College of Engineering Chennai India	0
Enhanced Portable Text To Speech Converter For Visually Impaired	S. Chithra, N. Bhalaji	International Journal of Intelligent Systems Technologies and Applications	2018	0	Department of Information Technology, SSN College of Engineering	0
An Empirical Study of Feature Selection Methods over Classification Algorithms	N. Bhalaji, K.B. Sundharakumar, S. Chithra	International Journal of Intelligent Systems Technologies and Applications	2018	0	International Journal of Intelligent Systems Technologies and Applications	0
A New Optimized Distributed Scheduling Service using Genetic Computing	A. Sandana Karuppan, N. Bhalaji, N. Ramaraj	Applied Mathematics and Information Sciences	2018	0	Department of Information Technology, SSN College of Engineering	0
Estimation of Glottal Closure Instants from Degraded Speech using a PhaseDifferenceBased Algorithm	G. Anushiya Rachel, P. Vijayalakshmi, T. Nagarajan	Computer, Speech, and Language	2017	2	Speech Lab, SSN College of Engineering, Chennai, India	1
Performance Optimization of Junctionless FET in Nano regime using Segmented	Priscilla Scarlet, and R Srinivasan	Superlattices and Microstructures	2017	0	Department of IT, SSN College of Engineering, Kalavakkam, Tamilnadu, India	0

Channel A 3D Numerical simulation study						
An Applications Interoperability Model for heterogeneous Internet of Things Environments	R. Vinobchander, Saswati Mukherjee, Susan Elias	Computers and Electrical Engineering	2017	5	Department of Information Technology, SSN College of Engineering, Anna University, Chennai, Tamil Nadu, INDIA	4
Quantification of Software Code Coverage Using Artificial Bee Colony Optimization Based on Markov Approach	Boopathi, M., Sujatha, R., Senthil Kumar, C., Narasimman, S.	Arabian Journal for Science and Engineering	2017	1	SSN College of Engineering	1
Nanoscale Junctionless Devices Using RingFET Structure on Bulk Silicon Substrate	Scarlet, S, P, Srinivasan, R and Sasikala, P	International Journal of Electronic Letters (Taylor and Francis)	2017	0	Department of IT, SSN College of Engineering, Kalavakkam, Tamilnadu, India	0
SET and SEU performance of Single, Double, Triple and Quadruple Gate Junctionless FETs Using Numerical Simulations	N. Vinodh Kumar, and R. Srinivasan	Microelectronics Journal	2017	0	IT Department, Sri Sivasubramaniya Nadar (SSN) College of Engineering, Kalavakkam 603110, Tamil Nadu, India	0
Cluster-based agent routing algorithm	Sasirekha Selvakumar, and Sankaranarayanan Swamynatha	Journal of Communications and Networks	2017	23	Department of Information Technology, SSN College of	23

for efficient data aggregation in wireless sensor network	n				Engineering, Chennai, India	
Formation of Sol Gel Dried Droplets of Carbon Doped Titanium Dioxide (TiO ₂) at Low Temperature via Electrospraying	SU Halimi, S Abd Hashib, NF Abu Bakar, SN Ismail, M Nazli Naim, N Abd Rahman, J Krishnan	IOP Conference Series: Materials Science and Engineering	2018	1	SSN College of Engineering	1
Microbubbles Size Distribution at Different Palm Oil Mill Effluent (POME) Temperatures for Oil Recovery Study	Nurul Hazwani Mohamad, Alawi Sulaiman, Jagannathan Krishnan, Mohd Noriznan Mokhtar, Azhari Samsu Baharuddin	Scientific Research Journal	2017	0	SSN College of Engineering	0
Effect of N, S Codoped TiO ₂ concentration on photocatalytic degradation of phenol	Nur Najwa Yunus, Fazlena Hamzah, Mohamad Sufian So'aib, Jagannathan Krishnan	AIP Conference Proceedings	2017	0	SSN College of Engineering	0
Magnetic nanoparticles as a versatile carrier for enzymes in bioprocessing sectors	M Seenuvsan, G Vinodhini, Carlin geor Malar, N Balaji, K Sathish Kumar	IET Nanotechnology	2017	4	Department of Chemical Engineering, SSN college of Engineering, Kalavakkam	4
Sonication effects and	B.Chitra, K.Sathish Kumar	Iranian Journal of Chemistry	2017	0	SSN College of Engineering	0

Thermal properties of silicoparaflu nanofluids		and Chemical Engineering			g	
PhysioChemical Characteristics of calcium oxalate crystals in spinacia oleracea L	K.Sathishkumar, S.Subhashini	Indian Journal of Biophysics Biochemistry	2017	3	SSN College of Engineering	3
Computation of system availability using fifth order rungekutta method for furnace draft air cycle in a thermal power plant	C.G.Vignes h, V.K.Keshav, R.Sujatha, R.boopathy, K.Sathishkumar	International Journal of Pure and Applied mathematics	2017	0	SSN College of Engineering	0
Experimental Investigation on properties of concrete using silica and Titania Nanoparticles	K.Sathish Kumar, S.Narasimman, Anusha Krishnan	Research Journal of Chemistry and Environment	2018	0	SSN College of Engineering	0
Synthesis of MgO/TiO2 nanocomposite and its application in photocatalytic degradation, International Journal of Chemical Reactor Engineering	K.Sathish Kumar, KR Rohit Narayanan, S Sidarth, R Pawan kumar, R Badri Narayanan, R Goutham, V samynathan	International Journal of Chemical Reactor Engineering	2018	0	SSN College of Engineering	1
Prominent	Carlin	Applied Bi	2017	0	SSN	2

studies on surface properties and diffusion coefficient of Urease conjugated Magnetic Nanoparticles	Geor Malar, K Sathish Kumar, M S Seenuvasan	ochemistry Biotechnology			College of Engineering	
Comparison of experimental and calculated thermophysical properties of alumina /cupric oxide hybrid nanofluids	B.Chitra, K.Sathish Kumar, Avinash U, Abhaiguru R, Sneha S, Tiju Thomas	Journal of Molecular liquids	2017	20	SSN College of Engineering	20
Conversion of waste plastics into lowem issive hydrocarbon fuels through catalytic depolymerisation in a new laboratory scale batch reactor	P. Senthil Kumar, M. Bharathikumar, C. Prabhakaran, S. Vijayan K. Ramakrishnan	International Journal of Energy and Environmental Engineering Vol. 8, pp. 167173, 2017	2017	13	SSN College of Engineering	13
Sequestration of Pb(II) and Ni(II) ions from aqueous solution using microalga Rhizoclonium hookeri: Adsorption thermodynamics, kinetics and equilibrium	S. Suganya, A. Saravanan, P.Senthil Kumar, M.Yashwanthraj, P. Sundarajan K. Kayalvizhi	Journal of Water Reuse and Desalination Vol. 7, pp. 214227 2017	2017	4	SSN College of Engineering	4

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Using Humor as a Supplementary Tool in the ESL Classroom	D. Praveen Sam	The IUP Journal of English Studies	2017	0	SSN College of Engineering	0
Review on nano adsorbents: A solution for heavy metal removal from wastewater	T. Vinni Novi, V. Vinoth Kumar, P. Senthil Kumar, Charles Christy, Sundar Sai Lavanyaa, Dhanya Vishnu, A. Saravanan, V. Vasanth Kumar S. Sivanesan	IET Nanotechnology Vol. 11, pp. 213224 2017	2017	9	SSN College of Engineering	9
Higher adsorption capacity of Spirulina platensis alga for Cr(VI) ions removal : Parameter optimization, equilibrium, kinetic and thermodynamic predictions	E. Gunasundari, P. Senthil Kumar	IET Nanotechnology Vol. 11, pp. 317328 2017	2017	10	SSN College of Engineering	10
Surface adsorption of poisonous Pb(II) ions from water using chitosan functionalized magnetic nanoparticles	C. Femina Carolin, A. Saravanan, P. Senthil Kumar, P. Sundar Rajan, V. Vinoth Kumar	IET Nanotechnology Vol. 11, Issue No. 4, pp. 433442 2017	2017	5	SSN College of Engineering	5

Sequestration of toxic Cr(VI) ions from industrial wastewater using waste biomass: A review	A. Saravanan, P. Senthil Kumar M.Yashwanthraj	Desalination and Water Treatment Vol.68, pp. 245266 2017	2017	8	SSN College of Engineering	8
Enhanced adsorption capacity of biomass through ultrasonication for the removal of toxic cadmium ions from aquatic system : Temperature influence on isotherms and kinetics	A. Saravanan, P.Senthil Kumar, C. Femina Carolin, S. Sivanesan	Journal of Hazardous, Toxic, and Radioactive Waste Vol. 21, Issue No. 3, pp. 124, 2017	2017	3	SSN College of Engineering	3
Prediction and interpretation of adsorption parameters for the sequestration of methylene blue dye from aqueous solution using microwave assisted corncob activated carbon	V. Tharaneedhar, P. Senthil Kumar, A. Saravanan, C. Ravikumar, V. Jaikumar	Sustainable Materials and Technologies Vol.11, pp. 111 2017	2017	11	SSN College of Engineering	11
HPTLC fingerprint profile, in vitro antioxidant and	T. Arumugam, P. Senthil Kumar K.P. Gopinath	Microbial Pathogenesis Vol.102, pp. 166172 2017	2017	3	SSN College of Engineering	3

evaluation of antimicrobial compound produced from Brevibacillus brevis EGS9 against multidrug resistant Staphylococcus aureus						
Microwave assisted fast pyrolysis of corn cob, corn stover, saw dust and rice straw: Experimental investigation on biooil yield and high heating values	C. Ravikumar, P. Senthil Kumar, S.K. Subhashni, P.V.Tejaswini, V.Varshini	Sustainable Materials and Technologies Vol.11, pp. 1927 2017	2017	10	SSN College of Engineering	10
Computation of adsorption parameters for the removal of dye from wastewater by microwave assisted sawdust: Theoretical and experimental analysis	S. Suganya, P. Senthil Kumar, A. Saravanan, P. Sundar Rajan, C. Ravikumar	Environmental Toxicology and Pharmacology Vol.50, pp. 4557 2017	2017	11	SSN College of Engineering	11
Antimicrobial activity of Mukia maderasapata stem extract of jujube seeds	R. Gayathri, K.P. Gopinath, P. Senthil Kumar, A. Saravanan	Desalination and Water Treatment Vol. 72, pp. 418427 2017	2017	0	SSN College of Engineering	0

activated carbon against Gram positive / Gram negative bacteria and Fungi strains: Application in heavy metal removal						
A simplified model for evaluating best biodiesel production method: Fuzzy analytic hierarchy process approach	K. Anish Kumar, P. Senthil Kumar, Sai Madhusudan, Vignesh Pasupathy, P.R. Vignesh, A. R. Sankaranarayanan	Sustainable Materials and Technologies, Vol. 12, pp. 1822, 2017	2017	4	SSN College of Engineering	4
Screening of novel actinobacteria and characterization of the potential isolates from mangrove sediment of south coastal India	T. Arumugam, P. Senthil Kumar, R. Kameshwar, K. Prapanchana	Microbial Pathogenesis, Vol. 107, pp. 225233, 2017	2017	3	SSN College of Engineering	3
Sorption of Cu(II) ions by nanoscale zero valent iron supported on rubber seed shell	D. Prabu, R. Parthiban, P. Senthil Kumar, A. Aravanan, Reni John, Tani Titus	IET Nanobiotechnology, Vol. 11, Issue No. 6, pp. 714724, 2017	2017	4	SSN College of Engineering	4
Structural Concrete using Expanded Clay	Vijayalakshmi R, Ram anagopal S	Indian Journal of Science and Technology	2017	2	SSN College of Engineering	2

Aggregate: A Review						
Experimental Investigation of Surface Modified EOF Steel Slag as Coarse Aggregate in Concrete	Sabapathy Y K	Journal of King Saud University Engineering Sciences	2017	5	SSN College of Engineering	5
Uncertainty based Model Averaging for Prediction of Long Time Prestress Losses in Concrete Structures	Suryakanta Biswal	Construction and Building Materials	2017	2	SSN College of Engineering	2
Fabrication and characterization of a nanocomposite hydrogel for combined photocatalytic degradation of a mixture of malachite green and fast green dye	Gaurav Sharma, Zeid Abdullah ALothman, Amit Kumar, Shweta Sharma, P. Senthil Kumar, Mu. Naushad	Nanotechnology for Environmental Engineering,, Vol. 2 (4), pp. 17, 2017	2017	18	SSN College of Engineering	18
Modelling and analysis of packed bed column for the effective removal of zinc from aqueous solution using dual surface modified biomass	A. Saravanan, P. Senthil Kumar, M. Yaswanthra j	Particulate Science and Technology, Vol. 36 (8), pp. 934944, 2018	2018	1	SSN College of Engineering	1

Constructi on Of Active Bio Nanocompos ite By Ins eminated Metal Nano particles Onto Activated Carbon: Probing To Antimicrob ial Activity	S. Suganya, P. Senthil Kumar, A. Saravanan	IET Nanobi otechnolog y, Vol. 11, Issue No. 6, pp. 746753, 2017	2017	6	SSN College of Engineerin g	6
Green synthesis of metal n anoparticl es loaded ultrasonic assisted Spirulina platensis using algal extract and their antimicrob ial activity	E. Gunasun dari, P. Senthil Kumar,C. Femina Carolin,T. Arumugam, A. Saravanan	IET Nanobi otechnolog y,Vol. 11, Issue No. 6, pp. 754758, 2017	2017	6	SSN College of Engineerin g	6
Functional group assisted green synt hesized su perparamag netic nano particles for the rapid removal of hexavalent chromium from aqueous solution	K. Nithya, Asha Sathish, P. Senthil Kumar, T. Ramachandr an	IET Nanobi otechnolog y, Vol. 11, Issue No. 7, pp. 852860,201 7	2017	4	SSN College of Engineerin g	4
Efficient Techniques for the Removal of Toxic Heavy Metals from Aquatic En vironment:	C. Femina Carolin,P. Senthil Kumar,A. S aravanan,G . Janet Jo shiba,Mu. Naushad	Journal of Environmen tal Chemical E ngineering ,Vol. 5 (3), pp. 27822799, 2017	2017	133	SSN College of Engineerin g	133

A Review						
Removal of Toxic Cr(VI) ions from Tannery Industrial Wastewater Using a Newly Designed Threephase Threedimensional Electrode Reactor	K. Grace Pavithra, P. Senthil Kumar, C. Femina Carolin, A. Saravanan	Journal of Physics and Chemistry of Solids, Vol. 110, pp. 379385 2017	2017	8	SSN College of Engineering	8
Adsorption isotherm, kinetics and thermodynamic analysis of Cu (II) ions onto the dried algal biomass (Spirulina platensis)	E. Gunasundari, P. Senthil Kumar	Journal of Industrial and Engineering Chemistry, Vol. 56, pp. 129144, 2017	2017	16	SSN College of Engineering	16
A review on analytical methods and treatment techniques of pharmaceutical wastewater	A. Annam Renita, P. Senthil Kumar, S. Srinivas, S. Priyadarshini, M. Karthika	Desalination and Water Treatment Vol. 87, pp. 160178, 2017	2017	2	SSN College of Engineering	2
The Situation Analysis of Migrant Population Residing in the Flood Prone Areas in Chennai	S. Keerthy and D. Praveen Sam	Anthropologist	2018	0	SSN College of Engineering	0
Analytical approaches to predict the different guiding	G.Latha , P. Nair	Journal of Optoelectronics and Advanced Materials	2017	43	SSN College of Engineering	0

regimes for the design of SCPCFs and their applications						
Treatment of Municipal Wastewater using Scenedesmus abundans : Studies on saccharification of grown biomass using ultrasound assistance	T. Siva Kumar, P. Senthil Kumar	Desalination and Water Treatment Vol. 89, pp. 94100, 2017	2017	0	SSN College of Engineering	0
Analysis of Multicarrier PWM techniques for Photovoltaic fed Cascaded HBridge Multilevel Inverter	Thiyagarajan V	Journal of Electrical and Electronics Engineering (JEEEE)	2017	2	SSN College of Engineering	2
Optimization of media components for production of antimicrobial compound by Brevibacillus brevis EGS9 isolated from mangrove ecosystem	T. Arumugam, P. Senthil Kumar	Journal of Microbiological Methods Vol. 142, pp. 8389, 2017	2017	1	SSN College of Engineering	1
Sources and impacts of pharmaceutical components in wastewater	K. Grace Pavithra, P. Senthil Kumar, P. Sundar Rajan, A. Saravanan, Mu.	Korean Journal of Chemical Engineering Vol. 34, pp. 27872805, 2017	2017	2	SSN College of Engineering	2

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Hybrid synthesis of novel material through acid modification followed ultrasonication to improve adsorption capacity for zinc removal	A. Saravanan, P. Senthil Kumar, A. Annam Renita	Journal of Cleaner Production Vol. 172, pp. 92105, 2018	2018	10	SSN College of Engineering	10
Assessment of Heavy Metal Contamination in Marine Sediments of East Coast of Tamil Nadu Affected by Different Pollution Sources	N. Harikrishnan, R. Ravisankar, A. Chandrasekaran, M. Suresh Gandhic, K.V. Kanagasabapathy, M.V.R. Prasad, K.K. Satapathy	Marine Pollution Bulletin	2017	9	SSN College of Engineering	9
Soil pollution assessment in salt field area of Kelambakkam, Tamilnadu using different analytical techniques	A. Rajalakshmi, A. Chandrasekaran, R. Ravisankar	Acta Ecologica Sinica	2017	0	SSN College of Engineering	0
Data on heavy metal and magnetic relationships in coastal sediments from South East Coast of	R. Ravisankar, N. Harikrishnan, A. Chandrasekaran, M. Suresh Gandhi, R. Alagarsamy	Data in Brief	2018	3	SSN College of Engineering	3

Tamilnadu, India						
Assessing heavy metal toxicity in sediments of Chennai Coast of Tamil Nadu using Energy Dispersive XRay Fluorescence Spectroscopy (EDXRF) with statistical approach	M. Tholkapian, R. Ravisankar, A. Chandrasekaran, J. Prince Prakash Jebakumar, K.V. Kanagasabapathy, M.V.R. Prasad, K.K. Satapathy	Toxicology Reports	2017	5	SSN College of Engineering	5
Statistical Assessment to Magnetic Susceptibility and Heavy Metal Data for Characterizing the Coastal Sediment of East Coast of Tamilnadu, India	N. Harikrishnan, A. Chandrasekaran, R. Ravisankar, R. Alagarsamy	Applied Radiation and Isotopes	2018	3	SSN College of Engineering	3
Effect of tin oxide crystallite size on the efficacy of polyaniline tin oxide nano composite based counter electrode for DSSC applications	Elakhya N, Gayatri G, Aparna, P. Rajesh P. Ramasamy	Optik International Journal for Light and Electron Optics	2017	3	SSN College of Engineering	3
Investigation	A Silambar	New J.	2017	1	SSN	1

ion on the Structural , LinearNonlinear Optical and Electrical Characteristics of Cd and Mn doped Polar Lithium Sulfate Monohydrate Crystals.	asan, Rajesh Paulraj, Rajeev Bhatt, Indranil Bhaumik, KK Maurya, AK Karnal, Ramasamy P, P.K. Gupta,	Chem.,				College of Engineering	
Crystal growth, structural, optical, thermal and dielectric properties of lithium hydrogen oxalate monohydrate single crystals,	Senthilkumar Chandran, Rajesh Paulraj, P Ramasamy,	Optical Materials,	2017	4		SSN College of Engineering	3
Investigations on the growth, structural, optical, mechanical, dielectric and SHG behavior of GPMG crystals	S. R.Thilagavathy, P. Rajesh, P. Ramasamy, G.Bhagavan narayana, K. Ambujam	Material Research Innovations	2018	0		SSN College of Engineering	0
Influence of Polyani line In PolyanilineT in Oxide Nanocomposite as Counter Electrode for Dye Sensitized Solar Cells	S Aparna, N Elakhya, Gayatri Gopal, P Rajesh, P Ramasamy	OptikInternational Journal for Light and Electron Optics	2018	6		SSN College of Engineering	6
Optical	Rajesh	Journal of	2018	6		SSN	6

properties of Eu ³⁺ activated SrLa ₂ O ₄ red emitting phosphors for WLED applications	Narayana Perumal, G. Subalakshmi, E. Varadarajan, S. Sadhasivam, G. Vinitha	Materials Science: Materials in Electronics			College of Engineering	
Investigations on HoTiO ₂ nanoparticles synthesized by precipitation method for optical applications	Rajesh Narayana Perumal, G. Subalakshmi	Optik International Journal for Light and Electron Optics	2018	1	SSN College of Engineering	0
Synthesis and photoluminescence properties of Sr _{0.95} Ba _{0.05} La ₂ O ₄ :xRE ₃ (RE: Eu, Er, Ce and Ho) for WLEDs application	Rajesh Narayana Perumal, G. Subalakshmi, C.K. Jayasankar	Journal of Alloys and Compounds	2018	4	SSN College of Engineering	4
Melt growth of organic 4(2-Phenylisopropyl)phenol single crystal and its structural, thermal, dielectric permittivity and optical properties	S. Sadhasivam, N.P. Rajesh	Journal of Molecular Structure	2017	1	SSN College of Engineering	0
Synthesis, photoluminescence properties of Sr _{1.95} Ba _{0.05} CeO ₄ :Eu ³⁺ for	Rajesh Narayana Perumal, G. Subalakshmi, and G. Vinitha	Journal of Material Science materials in electronics	2017	2	SSN College of Engineering	0

LED applications						
Growth and characterization of organic nonlinear optical single crystal 2, 7dihydroxy naphthalene	S. Sadhasivam, N.P. Rajesh	Optics Laser Technology	2017	1	SSN College of Engineering	1
Growth and Characterization of ethyl 4hydroxybenzoate single crystals by modified vertical Bridgman technique	S. Siva Bala Solanki, N.P. Rajesh , T. Suthan	Optics Laser Technology	2017	1	SSN College of Engineering	1
Resonant Gate Driver for Series Operation of MOSFETs	S. Krishnaveni AP/EEE, Dr. V. Rajini	Energy Procedia	2017	1	SSN College of Engineering	1
Design and Simulation of Modified Symmetric and Asymmetric Multilevel Inverter	Thiyagarajan V	Research Journal of Pharmaceutical, Biological and Chemical Sciences	2017	0	SSN College of Engineering	0
Impact of modified perturb and observe control on MPPT of PV/battery fed three port DCDC converter	M. Venmathi (FT Research Scholar/EEE) and Dr. R. Ramaprabha (ASSP./EEE)	ActaScientiarum Technology	2017	0	SSN College of Engineering	0
Analysis and Experimentation of Quadratic	P. Priya, G. ShabbeerBasha, S. V. SujithNiranjan,	Indian Journal of Science and Technology	2017	0	SSN College of Engineering	0

Boost Converter for Photovoltaic Applications	R. Seyezhai					
A Simplified Direct Torque Control Space Vector Modulation Based Induction Motor Drive for Trinary Hybrid Cascaded HBridge Multilevel Inverter	Dr.R.Seyezhai, ASSP/EEE and M.Sudhakaran	Journal of Computational and Theoretical Nanoscience	2017	0	SSN College of Engineering	0
Design and Simulation of an Integrated PFC ACDC Converter for Telecoms	R.Mahalakshmi (passed out PG Student) and Dr. R. Seyezhai, ASSP/EEE	International Journal of Control Theory and Applications	2017	0	SSN College of Engineering	0
Comparative Study on Control Methods for PMSM Based Wind Energy Using PI and Fractional Order Controller	G. Ramya (FT Research Scholar/EEE), M. Mohana Krishnan (PG Student/EEE) and R. Ramaprabha (Asso.Prof./EEE,	International Journal of Control Theory and Applications	2017	0	SSN College of Engineering	0
Investigation on Isolated Derived Topology For Differential Power Processing in Photovoltaic System	M. Venmathi (FT Research Scholar/EEE) and R. Ramaprabha	International Journal of Control Theory and Applications	2017	0	SSN College of Engineering	0
Performanc	S. Malathy	Internatio	2017	0	SSN	0

e Analysis of Reduced Device Count Multilevel Inverter with Low Frequency PWM Schemes	(Asso.Prof ./EEE), R. Ramaprabha (Asso.Prof ./EEE), B. Kabilram, K. Manirajan, K. Marriappan and G. Vignesh (UG Students),	nal Journal of Control Theory and Applications				College of Engineering	
Fault Tolerant Single Switch PWM DCDC Converters for Battery charging Applications	S. Gowtham (Part Time Research Scholar), M.Balaji(A SSP/EEE), S. Harish, M.S. Abraham Pinto, G. Jagadeesh,	Energy Procedia	2017	1		SSN College of Engineering	1
Analysis of Neural Network Approaches for Nonlinear Modeling of Switched Reluctance Motor Drive	P. Saravanan, M. Balaji, K. Balaji Nagaraj and R. Arumugam	Journal of Electrical Engineering and Technology	2017	1		SSN College of Engineering	1
Design of Battery less Hybrid PV System for DC Distribution System in Building Applications with Improved Transient Response	M. Joly and R. Ramaprabha ASSP/EEE	Journal of Electrical Engineering	2017	0		SSN College of Engineering	0
A Review of MultiInput DCDC Converter	Dr.R.Seyezhai, ASSP/EEE and S.T.NamithaShani	International Journal of Control Theory and	2017	0		SSN College of Engineering	0

Topologies for DC Micro Grid	li	Applications				
A Single Stage Power Conditioning of Extended Boost Quasi ZSource Inverter for PV Applications	Dr.R.Seyezhai, ASSP/EEE and N.Hemalatha	Journal of Electrical Engineering	2017	0	SSN College of Engineering	0
Reconfiguration strategies to extract maximum power from photovoltaic array under partially shaded conditions	S. Malathy and R. Ramaprabha	International Journal on Renewable Sustainable Energy Reviews	2017	11	SSN College of Engineering	11
PSOPID maximum power point tracking controller using modified superlift Luo Converter	Dr.R.Seyezhai, ASSP/EEE and V.Chamundeswari	Energy Procedia	2017	0	SSN College of Engineering	0
Image coding using Cellular Automata based LDPC codes	Dr P Saravanan ASSP/EEE	International Journal of Computer Science and Network Security	2017	0	SSN College of Engineering	0
Microgrid Grid Outage Management using Multi Agent Systems	Leo Raju, Antony AmalrajMorais, Ramyaathnakumar, P. Soundaryaa, L. D. Thavam	Energy Procedia	2017	2	SSN College of Engineering	2
Modified Nine Level	V. Thiyagarajan and	International	2017	0	SSN College of	0

Inverter with Reduced Number of Switches	P. Somasundaram	Journal of Control Theory and Applications			Engineering	
Impedance source converter for photovoltaic standalone system with vanadium redox flow battery storage	Dr.U. Shajith Ali, ASSP/EEE	International Journal Materials Today Proceedings, Elsevier	2017	0	SSN College of Engineering	0
Multi Objective Evolutionary Algorithm for Designing Energy Efficient Distribution Transformers	S.Tamilselvi (ASSP/EE), S.Baskar, L.Anandapadmanaban, V.Karthikeyan, S.Rajasekar	Swarm and Evolutionary Computation Elsevier	2018	1	SSN College of Engineering	1
Nominal features based class specific learning model for fault diagnosis in industrial applications	Kannan R, SolaiManohar S, SenthilKumaran M.(ASSP/EE),	Elsevier Computers Industrial Engineering	2018	2	SSN College of Engineering	2
Analysis and Implementation of PSPWM Technique for Quasi-Z Source Multilevel Inverter	Dr.R.Seyezhai (ASSP/EE), Ms.D. Umarani (AP/EEE),	Journal of Electrical Engineering and Technology	2018	0	SSN College of Engineering	0
Investigations On Embedded Processor Architectures For The Speed	Saravanan P, Balaji M, Anbuselvi M and Arumugam R	Journal of Electrical Engineering	2018	0	SSN College of Engineering	0

Control Of Switched Reluctance Motor Drive						
Simulation and Implementation of FPGA based three phase BLDC drive for Electric Vehicles	Dr.R.Seyezhai,ASSP/EE, Mr.A.BharathiSankar	International Journal of Pure and Applied Mathematics	2018	0	SSN College of Engineering	0
A real time pricing strategy for remote microgrid with economic emission dispatch and stochastic renewable energy sources'	HithuAnand and Dr.R.R.Rengaraj ASSP/EEE	Renewable Energy, Elsevier	2018	1	SSN College of Engineering	1
A new green energy interface for telecommunications	A. Margaret Amutha, V. Rajini,Prof/EEE	International journal of Electronics, Taylor Francis publishers	2018	2	SSN College of Engineering	2
A New Seven Level Symmetrical Inverter with Reduced Switch Count	Thiyagarajan V	International Journal of Power Electronics and Drive System (IJPEDS)	2018	0	SSN College of Engineering	0
Modelling and controlling of PV connected quasi Zsource cascaded multilevel inverter	V.V. Rajasegharan, L. Premalatha, Dr.R. Rengaraj ASSP/EEE	Electric Power Systems Research, Elsevier	2018	0	SSN College of Engineering	0

system: An HACSNN based control approach'						
Glass surface etching with Aluminium induce d texture process for thin film solar cell applications	Arokiyados s Rayerfrancis, P. Balaji Bhargav , Nafis Ahmed , C. Balaji , Ganesh Kumar	Materials Letters	2018	1	SSN College of Engineering	0
Optimization of the texturization of ZnO:Al surface using HClHNO3 for application in thin film silicon solar cells	Arokiyados s Rayarfrancis, P. Balaji Bhargav, Gufran Ahmad, Sumita Mukhopadhyay, Sourav Mandal, A. K. Barua	Journal of Materials Science: Materials in Electronics	2018	4	SSN College of Engineering	0
Study the effect of plasma power density and gold catalyst thickness on Silicon Nanowires growth by Plasma Enhanced Chemical Vapour Deposition	Nafis Ahmed, P. Balaji Bhargav , Arokiyados s Rayerfrancis , Balaji Chandra, P. Ramasamy	Materials Letters	2018	1	SSN College of Engineering	0
Modification of surface morphology of sputtered AZO films with the variation of the	Sukanta Bose, Rayerfrancis Arokiyadoss , P. Balaji Bhargav, Gufran Ahmad, Sourav	Materials Science in Semiconductor Processing	2018	5	SSN College of Engineering	0

oxygen	Mandal, A.K. Barua, Sumita Mukhopadhyay					
Synthesis of ITO nanoparticles at room temperature using plasma treatment process and use it as back reflector in a Si flexible solar cell	Gourab Das. Sourav Mandal, Sukanta Dhar, P. Balaji Bhargav, Chandan Banerjee. Sumita Mukhopadhyay, A.K.Barua	Surfaces and Interfaces	2017	4	SSN College of Engineering	0
Growth of organic nonlinear optical 4hydroxy LProline (HLP) single crystal by conventional solution method and its structural, vibrational, optical and mechanical characterizations	N. Prabavathi, R. Jayanthi, V. Sivasubramani, M. Senthil Pandian, P. Ramasamy	Materials Research Innovations	2017	0	SSN College of Engineering	0
Bulk growth of organic nonlinear optical (NLO) Larginine 4nitrophenolate 4nitrophenol dihydrate (LAPP) single crystals by SankaranarayananR	V. Sivasubramani, M. Senthil Pandian, P. Ramasamy	Materials Research Innovations	2017	0	SSN College of Engineering	0

amasamy (SR) method						
Growth of ethyl 2cyano 3(4 (dimethyla mino) phenyl) acrylate single crystal and its st ructural, optical, thermal and electrical characteri sations	S. Kottesw aran, M. Senthil Pandian, P. Ramasamy	Materials Research I nnovations	2017	0	SSN College of Engineerin g	0
Preparatio n of one d imensional titanium dioxide nanowires using elec trospinnin g process for dyesen sitized solar cells	C. Brundha, R. Govinda raj, N. Santhosh, M. Senthil Pandian, P. Ramasamy, S. Karuppu chamy	Journal of Materials Science: Materials in Electro nics	2017	0	SSN College of Engineerin g	0
A facile onestep synthesis and fabric ation of hexagonal palladiumc arbon nanocubes (HPd/C NCs) and their appl ication as an efficient counter electrode for dyesen sitized solar cell (DSSC)	P. Vijayak umar, M. Senthil Pandian, A. Pandiku mar, P. Ramasamy	Ceramic In ternationa l	2017	0	SSN College of Engineerin g	0
Crystal growth and	P. Karuppa samy, M.	Journal of Crystal	2017	0	SSN College of	0

characterization of third order nonlinear optical piperazine bis (4hydroxybenzene sulphate) (P4HBS) single crystal	Senthil Pandian, P. Ramasamy	Growth				Engineering	
Synthesis of nanocrystalline TiO ₂ nanorods via hydrothermal method: An efficient photoanode material for dye sensitized solar cells	R. Govindaraj, N. Santhosh, M. Senthil Pandian, P. Ramasamy	Journal of Crystal Growth	2017	0		SSN College of Engineering	0
Monocrystal growth and characterization study of ? and ?polymorph of glycine to explore superior performance of ?glycine crystal	Mohd Anis, M. Senthil Pandian, M.I. Baig, P. Ramasamy, G.G. Mulley	Materials Research Innovations	2017	0		SSN College of Engineering	0
Electrochemical interfacial charge transfer dynamics and photovoltaic performances of nanofibrous vanadium derivatives based platinum	P. Vijayakumar, M. Senthil Pandian, A. Pandikumar, P. Ramasamy	Materials Science and Engineering. B	2017	0		SSN College of Engineering	0

free counter electrodes in dye sensitized solar cells						
Photovoltaic performance of Agdoped CdS quantum dots for Solar Cell application	K. Veerathangam, M. Senthil Pandian, P. Ramasamy	Materials Research Bulletin	2017	0	SSN College of Engineering	0
Spectral, optical, thermal and electrochemical characterizations of organic nonlinear optical (NLO) triphenylamine single crystal	S. Kotteswaran, M. Senthil Pandian, P. Ramasamy	Journal of Optoelectronics and Advanced Materials	2017	0	SSN College of Engineering	0
Effect of Dimethylaminophenyl and Thienyl donor groups on ZnPorphyrin for Dye Sensitized Solar Cell (DSSC) Applications	S. Kotteswaran, V. Mohan Kumar, M. Senthil Pandian, P. Ramasamy	Inorganic Chimica Acta	2017	0	SSN College of Engineering	0
Synthesis, crystal growth, physicochemical properties and quantum chemical investigations on D π A type	V. Sivasubramani, V. Mohan Kumar, M. Senthil Pandian, P. Ramasamy	RSC, Crystal Engineering and Communications	2017	0	SSN College of Engineering	0

organic single crystal: 2-amino-5-nitropyridinium phenolsulfonate (2A5NPP) for nonlinear optical (NLO) applications						
Bulk growth of organic 4-hydroxyproline (HLP) single crystals grown by conventional slow evaporation and Sankaranarayanan-Ramasamy (SR) method	L. Jayanthi, N. Prabavathi, V. Sivasubramani, M. Senthil Pandian, P. Ramasamy, S.A. Martin Britto Dhas	Journal of Materials Science: Materials in Electronics	2017	0	SSN College of Engineering	0
Hydrothermally derived nanoporous titanium dioxide nanorods/nanoparticles and their influence in dye-sensitized solar cell as a photoanode	R. Govindaraj, N. Santhosh, M. Senthil Pandian, P. Ramasamy	Chemical Physics Letters	2017	0	SSN College of Engineering	0
Crystal growth and characterization of semiorganic 2-amino-5-nitropyridinium bromide (2A5NPBr) single crystals	V. Sivasubramani, A. Raja, P. Karuppasamy, K. Ramchandran, M. Senthil Pandian, P. Ramasamy	Applied Physics A	2017	0	SSN College of Engineering	0

for thirdorder nonlinear optical (NLO) applications						
Crystal growth, structural, optical, thermal and dielectric studies of nonlinear optical 2-amino-5-nitropyridinium nitrate (2A5NPN) single crystals	V. Sivasubramani, M. Senthil Pandian, P. Ramasamy	Materials Research Innovation	2018	0	SSN College of Engineering	0
Numerical Simulation on the Suppression of Crucible Wall Constraint in Directional Solidification Furnace	S. Sanmugavel M. Srinivasan K. Aravinth P. Ramasamy	Silicon	2018	0	SSN College of Engineering	0
Crystal growth and characterization of an efficient semiorganic nonlinear optical Donor-Acceptor single crystal: 2-amino-5-nitropyridinium nitrate (2A5NPN) grown by slow evaporation solution technique	V. Sivasubramani, V. Mohan Kumar, M. Senthil Pandian, P. Ramasamy, S.A.M. Britto Dhas	Journal of Materials Science: Materials in Electronics	2018	0	SSN College of Engineering	0

(SEST)						
Size dependent photovoltaic performance of cadmium sulfide (CdS) quantum dots for solar cell applications	K. Veeratham, M. Senthil Pandian, P. Ramasamy	Journal of Alloys and Compounds	2018	0	SSN College of Engineering	0
Fabrication of stable dye sensitized solar cell with hydrothermally synthesized titanium dioxide nanorods as a photoanode material	R. Govindaraj, N. Santhosh, M. Senthil Pandian, P. Ramasamy	Journal of Materials Science: Materials in Electronics	2018	0	SSN College of Engineering	0
Investigation of suitable binders combination and electrochemical charge transfer dynamics of vanadium carbide nanoparticle based counter electrode in Pt free dye sensitized solar cell	P. Vijayakumar, R. Govindaraj, N. Santhosh, A. Pandikumar, M. Senthil Pandian, P. Ramasamy	Journal of Materials Science	2018	0	SSN College of Engineering	0
The effect of different bridge configuration on bianchored	P. Pounraj, V. Mohan Kumar, M. Senthil Pandian, P.	Journal of Molecular Graphics and Modeling	2018	0	SSN College of Engineering	0

triphenylamine and phenyl modified triphenylamine based dyes for dye sensitized solar cell (DSSC) application: a theoretical approach	Ramasamy					
Growth and characterization of semiorganic nonlinear optical (NLO) Guanidinium trichloroacetate (GTCA) single crystal	P. Karuppasamy, M. Senthil Pandian, P. Ramasamy, S.K. Das	Optik: International Journal for Light and Electron Optics	2018	0	SSN College of Engineering	0
Optimizing structural, microhardness, surface growth mechanism, luminescence and thermal traits of KH ₂ PO ₄ crystal exploiting multidirectional Hbonding quality of dopant tartaric acid	Mohd Anis, M.I. Baig, M. Senthil Pandian, P. Ramasamy, S. Alfaify, V. Ganesh, G.G. Muley, P. Ramasamy, H.A. Ghramh	Crystal Research and Technology	2018	0	SSN College of Engineering	0
Directional growth, physicochemical and quantum chemical investigation	V. Sivasubramani, M. Senthil Pandian, P. Ramasamy, D. Sajan,	RSC New Journal of Chemistry	2018	0	SSN College of Engineering	0

ons on Pyridinium 2carboxylate: 4nitro phenol (P2C4N) single crystal for nonlinear optical (NLO) applications	J. George					
Influence of SILAR deposition cycles in CdS quantum dot sensitized solar cells	K. Veerathangam, M. Senthil Pandian, P. Ramasamy	Journal of Materials Science: Materials in Electronics	2018	0	SSN College of Engineering	0
Synthesis, optical, electrochemical and photovoltaic properties of donor modified organic dyes for dye sensitized solar cell (DSSC) applications	S. Kotteswaran, M. Senthil Pandian, P. Ramasamy	Journal of Materials Science: Materials in Electronics	2018	0	SSN College of Engineering	0
Photovoltaic performance of Pb doped CdS quantum dots for solar cell applications	K. Veerathangam, M. Senthil Pandian, P. Ramasamy	Materials Letters	2018	0	SSN College of Engineering	0
Computational modelling on donor configuration for wide solar energy	V. Mohankumar, M. Senthil Pandian, P. Ramasamy	Materials Letters	2018	0	SSN College of Engineering	0

capture						
Investigations on 4Methyl Benzophenone (4MB) single crystal grown by Czochralski method and its characterization	K. Ramachandran, P. Vijayakumar, A. Raja, V. Mohankumar, G. Vinitha M. Senthil Pandian, P. Ramasamy	Journal of Materials Science: Materials in Electronics	2018	0	SSN College of Engineering	0
Crystal growth, structural, optical, thermal, mechanical, laser damage threshold and electrical properties of triphenylphosphine oxide and nitrophenol (TP4N) single crystals for nonlinear optical applications	P. Karuppasamy, M. Senthil Pandian, P. Ramasamy, Sunil Verma	Optical Materials	2018	0	SSN College of Engineering	0
Comparative Study on Flexible ZnO Based NanoGenerator Using Schottky and pn junction Contact for Energy Harvesting Applications	Kirubaveni S, Radha S, Govindaraj R Santhosh N	Nanoscale	2018	0	SSN College of Engineering	0
Fabrication of stable dye sensitized solar cell with hydro	Govindaraj R, Santhosh N, Senthil Pandian M, Ramasamy P	Journal of Materials Science: Materials in Electronics	2018	0	SSN College of Engineering	0

thermally synthesized titanium dioxide nanorods as a photoanode material	Sumita M					
Effect of Precursor Concentration on Structural, Morphological, and Optical Properties of ZnO ThinFilmed Sensor for Ethanol Detection	Sudha M, Radha S, Kirubaveni S, Kiruthika R, Govindaraj R, Santhosh N Ramasamy P	IEEE Transactions on Nanotechnology	2018	0	SSN College of Engineering	0
Experimental study on structural, optoelectronic and room temperature sensing performance of Nickel doped ZnO based ethanol sensors	Sudha M, Radha S, Kirubaveni S, Kiruthika R, Govindaraj R	Solid State Sciences	2018	0	SSN College of Engineering	0
Investigation of suitable binder combination and electrochemical charge transfer dynamics of vanadium carbide nanoparticles based counter electrode in Ptfree dyesensitized solar cell	Vijayakumar P, Govindaraj R, Santhosh N, Senthil Pandian M, Pandikumar A Ramasamy P	Journal of Materials Science	2018	0	SSN College of Engineering	0

Hydrothermally derived nanoporous titanium dioxide nanorods/nanoparticles and their influence in dye sensitized solar cell as a photoanode	Govindaraj R, Santhosh N, Senthil Pandian M, Sumita M Ramasamy P	Chemical Physics Letters	2017	0	SSN College of Engineering	0
Preparation of one dimensional titanium dioxide nanowires using electrospinning process for dye sensitized solar cells	Brundha C, Govindaraj R, Santhosh N, Senthil Pandian M, Ramasamy P Karuppuchamy S	Journal of Materials Science: Materials in Electronics	2017	0	SSN College of Engineering	0
Fabrication of stable dye sensitized solar cell with hydrothermally synthesized titanium dioxide nanorods as a photoanode material	Govindaraj R, Santhosh N, Senthil Pandian M, Ramasamy P Sumita M	Journal of Materials Science: Materials in Electronics	2018	0	SSN College of Engineering	0
The Influence of Multiple Heaters on the Reduction of Impurities in mcSi for Directional Solidification	V. Kesavan M. Srinivasan P. Ramasamy	Silicon	2018	0	SSN College of Engineering	0
Modelling on	G. Anbu M. Srinivasan	Silicon	2018	0	SSN College of	0

Modified Heater Design of DS System for Improving the Quality of McSilicon Ingot	P. Ramasamy				Engineering
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3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Screening of novel actinobacteria and characterization of the potential isolates from mangrove sediment of south coastal India	T. Arumugam, P. Senthil Kumar, R. Kameshwar, K. Prapanchana	Microbial Pathogenesis, Vol. 107, pp. 225233, 2017	2017	62	3	SSN College of Engineering
Sorption of Cu(II) ions by nanoscale zero valent iron supported on rubber seed shell	D. Prabu, R. Parthiban, P. Senthil Kumar, A. Saravanan, Reni John, Tani Titus	IET Nanotechnology, Vol. 11, Issue No. 6, pp. 714724, 2017	2017	28	4	SSN College of Engineering
Effect of tin oxide crystallite size on the efficacy of polyaniline tin oxide nano composite based counter electrode for DSSC applications	Elakhya N, Gayatri G, Aparna, P. Rajesh P. Ramasamy	Optik International Journal for Light and Electron Optics	2017	46	3	SSN College of Engineering

Investigation on the Structural, Linear, Nonlinear Optical and Electrical Characteristics of Cd and Mn doped Polar Lithium Sulfate Monohydrate Crystals	A Silambarasan, Rajesh Paulraj, Rajeev Bhatt, Indranil Bhaumik, KK Maurya, AK Karnal, Ramasamy P, P.K. Gupta,	New J. Chemistry	2017	112	1	SSN College of Engineering
Crystal growth, structural, optical, thermal and dielectric properties of lithium hydrogen oxalate monohydrate single crystals,	Senthilkumar Chandran, Rajesh Paulraj, P Ramasamy,	Optical Materials,	2017	92	3	SSN College of Engineering
Investigations on the growth, structural, optical, mechanical, dielectric and SHG behavior of GPMG crystals	S. R.Thilagavathy, P. Rajesh, P. Ramasamy, G.Bhagavan narayana, K. Ambujam	Material Research Innovations	2018	44	0	SSN College of Engineering
Influence of Polyaniline In Polyaniline in Oxide Nanocomposite as Counter Electrode for Dye Sensitized Solar Cells	S Aparna, N Elakhya, GayatriGopal, P Rajesh, P Ramasamy	OptikInternational Journal for Light and Electron Optics	2018	46	6	SSN College of Engineering

Assessing heavy metal toxicity in sediments of Chennai Coast of Tamil Nadu using Energy Dispersive XRay Fluorescence Spectroscopy (EDXRF) with statistical approach	M. Tholkapian, R. Ravisankar, A. Chandrasekaran, J. Prince Prakash Jebakumar, K.V. Kanagasabapathy, M.V.R. Prasad, K.K. Satapathy	Toxicology Reports	2018	21	5	SSN College of Engineering
Statistical Assessment to Magnetic Susceptibility and Heavy Metal Data for Characterizing the Coastal Sediment of East Coast of Tamilnadu, India	N. Harikrishnan, A. Chandrasekaran, R. Ravisankar, R. Alagarsamy	Applied Radiation and Isotopes	2018	71	3	SSN College of Engineering
Towards optimized nucleation control in multicrystalline silicon ingot for solar cells	G. Anandhababu, I. Takahashi, T. Muramatsu, N. Usami,	Journal of Crystal Growth	2017	136	2	SSN College of Engineering
Assessment of Heavy Metal Contamination in Marine Sediments of East Coast of Tamil Nadu Affected	N. Harikrishnan, R. Ravisankar, A. Chandrasekaran, M. Suresh Gandhic, K.V. Kanagasabapathy	Marine Pollution Bulletin	2017	147	9	SSN College of Engineering

by Different Pollution Sources	, M.V.R. Prasad, K.K. Satapathy					
Soil pollution assessment in salt field area of Kelamba kkam, Tamilnadu using different analytical techniques	A. Rajalak shmi, A. C handraseka ran, R. Ravisankar	Acta Ecologica Sinica	2017	37	0	SSN College of Engineerin g
Experiment al Investi gations on Multiple Responses in Abrasive Waterjet Machining of Ti6Al4V Alloy	K.Rajkumar , A.Gnanav elbabua, P .Saravanan , S.Karthi keyan	Materials Today: Pro ceedings	2018	18	1	SSN College of Engineerin g
Preparatio n of Super Hydrophobi c Loofah Sponge for Fast and Efficient Separation of Oil from Seawater	K. Rajkumar,	Materials Today: Pro ceedings	2018	18	1	SSN College of Engineerin g
Enhanced properties of Magnesium based metal matrix composites via Friction Stir Processing	S. Arokias amy, B. Anand Ronald	Materials Today: Pro ceedings	2018	18	0	SSN College of Engineerin g
Spray Char acteristic s of Diesel Fuel Using Numerical	P. Vengatesh, P. Raghu, N. Nallusamy	Internatio nal Research Journal of Engineerin g and	2018	17	0	SSN College of Engineerin g

Simulation		Technology				
Analysis of a thermal storage unit containing multiple phase change materials dispersed with high conductivity particles	N. Lakshmi Narasimhan and G. Srinivasan	Journal of Mechanical Science and Technology (Springer)	2018	28	0	SSN College of Engineering
Studies on the inward spherical solidification of a phase change material dispersed with macro particles	N. Lakshmi Narasimhan , V. Veeraghavan, G. Ramanathan, B. Sanjay Bharadwaj, M. Thamilmani	Journal of Energy Storage (Elsevier)	2018	20	1	SSN College of Engineering
A wavelet transform based contrast enhancement method for underwater acoustic images	R. Priyadarsini	Multidimensional System and Signal Processing	2017	33	5	SSN College of Engineering
Dynamic small world particle swarm optimizer for function optimization	Mirnalinee , T. T.	Natural Computing, Springer	2017	34	1	SSN College of Engineering
Automatic stenosis detection using SVM from CTA projection images	Mirunalini , P, Aravindan C	Multimedia Systems	2017	53	0	SSN College of Engineering
Feature Selection Techniques	Shomona Gracia Jacob	Procedia Computer Science,	2017	47	1	SSN College of Engineering

for Prediction of NeuroDegenerative Disorders: A CaseStudy with Alzheimer's And Parkinson's Disease		Elsevier				g
An Efficient Preprocessing of Video/Image Using Stationary Wavelet Transform with Joint Bilateral Filtering	D.VV Prasad	Journal of Advanced Research in Dynamical and Control Systems	2017	8	0	SSN College of Engineering
An Efficient Method to Detect Moving Object with Features by Using GLCM and ANN	D.V V prasad	International Journal of Pure and Applied Mathematics	2017	20	0	SSN College of Engineering
Approaches and Applications of Virtual Reality and Gesture Recognition: A Review	Shomona Gracia Jacob, Manisha S	International Journal of Ambient Computing and Intelligence	2017	13	1	SSN College of Engineering
Feature Selection Techniques for Alzheimers Disease: A Review	Shomona Gracia Jacob	International Journal of Engineering Technology Science and Research	2017	0	0	SSN College of Engineering
Performance Optimization of Nonlinear	D.Venkatavaraprasad, J.Suresh	International Journal of Computer A	2017	0	0	SSN College of Engineering

VLSI Inter connect Circuit using Schmitt Trigger		pplications				
A Comparative Study on the performance of classifiers in predicting frequency of drug intake: A case study with Ketamine, Heroin, Crack and Meth	Shomona Gracia Jacob	International Journal of Engineering Technology Science and Research	2017	0	0	SSN College of Engineering
Automatic and Efficient Cleansing of Illustration Images in Web	Priyadharsini .R, Manisha.S	Journal of Image Processing and Artificial Intelligence	2017	0	0	SSN College of Engineering
IoT based Door Alert System for People with Hearing Impairment, vol. 4, pp. no. 11,	Arun Vignesh M	International Journal of Engineering Researches and Management Studies	2017	0	0	SSN College of Engineering
Manuscript Analysis and Event Extraction using Natural Language Processing and Convolutional Neural Networks	Arun Vignesh M, Aarthe Jayaprakash, Krishnapriya.G.B	International Journal of Engineering Sciences Management	2017	0	0	SSN College of Engineering
An Image Contrast Enhancement Algorithm	Madheswari .K	Multimedia Tools and Applications	2018	52	2	SSN College of Engineering

for Grayscale Images Using Particle Swarm Optimization						
Designing towards an efficient Job Aware Scheduling Algorithm for IaaS Cloud	Prasad, D.V.V., Suresh J.	Springer Cluster Computing	2018	35	0	SSN College of Engineering
NullSpace based facial classifier using Linear regression and Discriminant Analysis method	Prasad, D.V.V., Suresh J.	Springer Cluster Computing	2018	35	0	SSN College of Engineering
Cloud data integrity checking using bilinear pairing and network coding	Balasubramanian, V.	Springer Cluster Computing	2018	35	0	SSN College of Engineering
A quick survey of Artificial Neural Network based face classification algorithms	Prasad, D.V.V., Suresh J.	Springer Cluster Computing	2018	35	0	SSN College of Engineering
Disc Bulge Diagnostic Model in Axial Lumbar MR Images using Intervertebral Disc Descriptor	Beulah A	Multimedia Tools and Applications, Springer	2018	52	0	SSN College of Engineering
A TwoLevel Secure	S. Manisha	Multidimensional	2018	33	0	SSN College of

Data Hiding Algorithm for Video Steganography		systems and signal processing , Springer				Engineering
An Efficient Image Retrieval System Based on MultiScale Shape Features	T. T. Mirnalinee	Journal of Circuits, Systems, and Computers, World Scientific Publishers	2018	24	1	SSN College of Engineering
Stock Price Prediction Using Long Short Term Memory	Y. V. Lokeswari	International Research Journal of Engineering and Technology	2018	0	0	SSN College of Engineering
Improving The Performance Of SmithWaterman Sequence Algorithm On GPU Using Shared Memory For Biological Protein Sequences	Prasad, D.V.V., Suresh J.	Cluster Computing, Springer	2018	35	0	SSN College of Engineering
Sequential Mining Of Real Time Moving Object By Using Fast Frequence Pattern Algorithm	Venkatavara Prasad	Cluster Computing, Springer	2018	35	0	SSN College of Engineering
Comparative Analysis of Machine Learning and Attribute selection techniques for Credit Approval Data	Rajalakshmi S	International Journal of Pure and Applied Mathematics	2018	20	0	SSN College of Engineering

RFIDBased Traffic Violation Detection and Traffic Flow Analysis System	Saritha M, Rajalakshmi S, Angel Deborah S, Milton R S,	International Journal of Pure and Applied Mathematics	2018	20	0	SSN College of Engineering
Data Analysis of Natural Language Querying Using NLP Interface	Sharath Chander P., R. Priyadharsini and B. Bharathi	International Journal of Applied Engineering Research	2018	25	0	SSN College of Engineering
Fuzzy Logic based ShortTerm Electricity Demand Forecast	V.S. Felix Enigo	International Journal of Engineering and Technology	2018	20	0	SSN College of Engineering
Thermal and Visible Video Fusion Using Curvelet Transform	K.Madheswari	International Journal of Applied Engineering Research	2018	25	0	SSN College of Engineering
Medicine Information Mobile Application Using Tablet Image Analysis Using Android Studio	K.Madheswari	International Journal of Applied Engineering Research	2018	25	0	SSNCE
Survey on Digital Age Smarter Cradle System for Enhanced Parenting	K.Madheswari	International Journal of Applied Engineering Research	2018	25	0	SSNCE
Significance of Differenced EGG Signal as a	G. Anushiya Rachel N. Sripriya, P. Vijayal	Circuits, Systems, and Signal Processing	2018	45	0	Speech Lab, SSN College of Engineering,

Spectrum in Phase Difference Computation for the Estimation of Glottal Closure Instants	akshmi T. Nagarajan					Chennai, India
A Multilingual to Polyglot Speech Synthesizer for Indian Languages Using a VoiceConverted Polyglot Speech Corpus	P. Vijayalakshmi, B. Ramani, M. P. Actlin Jeeva, T. Nagarajan	Circuits, Systems and Signal Processing	2018	45	1	SSN College of Engineering, Chennai, India
Optimization of media components for production of antimicrobial compound by Brevibacillus brevis EGS9 isolated from mangrove ecosystem	T. Arumugam, P. Senthil Kumar	Journal of Microbiological Methods, Vol. 142, pp. 8389, 2017	2017	115	1	SSN College of Engineering
Sources and impacts of pharmaceutical components in wastewater and its treatment process: A Review	K. Grace Pavithra, P. Senthil Kumar, P. Sundar Rajan, A. Saravanan, Mu. Naushad	Korean Journal of Chemical Engineering, Vol. 34, pp. 27872805, 2017	2017	46	2	SSN College of Engineering
Hybrid synthesis of novel material through	A. Saravanan, P. Senthil Kumar, A. Annam	Journal of Cleaner Production, Vol. 172, pp. 92105,	2018	132	10	SSN College of Engineering

acid modification followed ultrasonication to improve adsorption capacity for zinc removal	Renita	2018				
Chitosan as a biosorbent for adsorption of Iron from fracking wastewater	Aditya R. Kaveeshwar, Melanie Sanders, P. Senthil Kumar, Dilip Depan, S. Ramalingam	Polymers for Advanced Technologies, Vol. 29, pp. 961969, 2018	2018	76	2	SSN College of Engineering
Fast kinetics and high adsorption capacity of green extract capped superparamagnetic iron oxide nanoparticles for the adsorption of Ni(II) ions	K. Nithya, Asha Sathish, P. Senthil Kumar, T. Ramachandran	Journal of Industrial and Engineering Chemistry, Vol. 59, pp. 230241, 2018	2018	60	10	SSN College of Engineering
Effect of N, S Codoped TiO ₂ concentration on photocatalytic degradation of phenol	Nur Najwa Yunus, Fazlena Hamzah, Mohamad Sufian So'aib, Jagannathan Krishnan	AIP Conference Proceedings	2017	60	0	SSN College of Engineering
Magnetic nanoparticles as a versatile carrier for enzymes in bioprocessing sectors	M Seenuvsan, G Vinodhini, Carlin George Malar, N Balaji, K Sathish Kumar	IET Nanobiotechnology	2017	28	2	SSN College of Engineering
Sonication effects	B.Chitra, K.Sathish	Iranian Journal of	2017	18	0	SSN College of

and Thermal properties of silicap araflu nanofluids	Kumar	Chemistry and Chemical Engineering				Engineering
PhysioChemical Characteristics of calcium oxalate crystals in spinacia oleracea L	K.Sathish kumar, S.S ubhashini	Indian Journal of Biophysics Biochemistry	2017	33	2	SSN college of Engineering
Computation of system availability using fifth order rungekutta method for furnace draft air cycle in a thermal power plant	C.G.Vignes h, V.K.Keshav, R.Sujatha, R.boopathy , K.Sathish kumar	International Journal of Pure and Applied mathematics	2017	21	0	SSN college of Engineering
Experimental Investigation on properties of concrete using silica and Titania Nanoparticles	K.Sathish Kumar, S.N arasimman, Anusha Krishnan	Research Journal of Chemistry and Environment	2018	13	0	SSN college of Engineering
Synthesis of MgO/TiO2 nanocomposite and its application in photocatalytic degradation,	K.Sathish Kumar, KR Rohit arayanan, S Sidarth, R Pawan kumar, R Badri Narayanan, R Goutham, V samynathan	International Journal of Chemical Reactor Engineering	2018	29	1	SSN college of Engineering
Prominent studies on surface	Carlin Geor Malar, K	Applied Biochemistry Biotechnol	2018	91	2	SSN college of Engineering

properties and diffusion coefficient of Urease conjugated Magnetic Nanoparticles	Sathish Kumar, M S Seenuvasan	ogy				g
Comparison of experimental and calculated thermophysical properties of alumina /cupric oxide hybrid nanofluids	B.Chitra, K.Sathish Kumar, Avinash U, Abhaiguru R, Sneha S,Tiju Thomas	Journal of Molecular liquids	2017	67	20	SSN college of Engineering
Conversion of waste plastics into lowemissive hydrocarbon fuels through catalytic depolymerisation in a new laboratory scale batch reactor	P. Senthil Kumar, M. Bharathikumar, C. Prabhakaran, S. Vijayan K. Ramakrishnan	International Journal of Energy and Environmental EngineeringVol. 8, pp. 167173, 2017	2017	17	13	SSN College of Engineering
Comparison of the welding behavior of P/M borated and I/M borated stainless steel	Tanniru Rajesh Babu, Sadayan Rajendra Boopathy, Sajja Rama Koteswara Rao, Guttikonda Raja Kumar and Gabbita Durga Janaki Ram,	Materials Testing	2017	29	0	SSN College of Engineering
Sequestration of	S. Suganya,	Journal of Water	2017	8	4	SSN College of

Pb(II) and Ni(II) ions from aqueous solution using microalga Rhizoclonium hookeri: Adsorption thermodynamics, kinetics and equilibrium studies	A. Saravanan, P.Senthil Kumar, M.Yashwanthra j, P. Sundar rajan K. Kayalvizhi	Reuse and Desalination, Vol. 7, pp. 214-227, 2017				Engineering
Review on nano adsorbents: A solution for heavy metal removal from wastewater	T. Vinni Novi, V. Vinoth Kumar, P. Senthil Kumar, Charles Christy, Sundar Sai Lavanyaa, Dhanya Vishnu, A. Saravanan, V. Vasanth Kumar S. Sivanesan	IET Nanotechnology, Vol. 11, pp. 213224, 2017	2017	28	9	SSN College of Engineering
Heptaband swastik arm antenna for MIMO applications	S. Rajkumar N.Vivek Sivaraman M. Sharada K. T. Selvan	IET Microwaves Antennas and Propagation	2017	60	4	SSN College of Engineering
Higher adsorption capacity of Spirulina platensis alga for Cr(VI) ions removal : Parameter optimization, equilibrium, kinetic and thermodynamic pr	E. Gunasundari, P. Senthil Kumar	IET Nanotechnology Vol. 11, pp. 317328, 2017	2017	28	10	SSN College of Engineering

edications						
Fabrication of Nickel Doped ZnO/PEDOT:PSS Schottky Diode Based Ultraviolet Photodetector	Sudha Murugesan, Radha Shankararajan, Kirubaveni Savarimuthu	International Journal of Pure and Applied Mathematics	2018	20	0	SSN College of Engineering
Surface adsorption of poisonous Pb(II) ions from water using chitosan functionalized magnetic nanoparticles	C. Femina Carolin, A. Saravanan, P. Senthil Kumar, P. Sundar Rajan, V. Vinoth Kumar	IET Nanotechnology, Vol. 11, Issue No. 4, pp. 433442, 2017	2017	28	5	SSN College of Engineering
Functional Connectivity Assessment for Episodic Memory by Decoding Theta Wave	Mallampalli Kapardi, Kavitha Anandan	International Journal of Cognitive Informatics and Natural Intelligence	2018	23	0	Department of Biomedical Engineering, SSN College of Engineering, Chennai
Statistical Analysis on Ambient RF Energy Harvesting for Low Power Wireless Applications	Divya. I Muthumeenakshi. K S. Radha	International Journal of Communications System, Wiley	2018	37	0	SSN College of Engineering
Design of Solar cell Antenna (SOLAN) using Indium Tin Oxide mixed with Silver	A. Suresh Kumar, S. Sundaravadevelu	African Journal of Basic Applied Sciences	2017	0	0	SSN College of Engineering

Estimation of Glottal Closure Instants from Degraded Speech using a Phase Difference Based Algorithm	G. Anushiya Rachel P. Vijayalakshmi T. Nagarajan	Computer, Speech, and Language, Elsevier	2017	62	1	SSN College of Engineering
Energy Efficient Constellation Rotation for Multiple Symbol Differentially Encoded Communications	Kanthimathi M and Amutha R	Journal of Computational and Theoretical Nanoscience	2017	35	0	SSN College of Engineering
Compressive sensing based image compression encryption using Novel 1D Chaotic map	Ponuma. R Amutha. R	Multimedia Tools and Applications	2017	52	0	SSN College of Engineering
Modulation Diversity for Differential Amplitude and Phase Shift Keying technique	Kanthimathi M Amutha R Anusha S	International journal of Engineering Technology	2018	20	0	SSN College of Engineering
Energy efficiency analysis of differential cooperative algorithm	Kanthimathi M Amutha R Senthil Kumar K	Cluster Computing	2018	31	0	SSN College of Engineering
Compressive sensing based simultaneous fusion and compression of	K. Ashwini R. Amutha	Multimedia Tools and Applications	2018	45	0	SSN College of Engineering

multifocus images using learned dictionary						
Improved finite range gain formula for open ended rectangular waveguides and pyramidal horns	T. S. Bird, V. Lingasamy K.T. Selvan H. Sun	IET Microwaves Antennas and Propagation	2017	60	2	SSN College of Engineering
A pentaband hybrid fractal MIMO antenna for ISM applications	S. Rajkumar N. Srinivasan A. Natesan K.T. Selvan	International Journal of RF and Microwave Computer Aided Engineering	2018	35	1	SSN College of Engineering
Compact 4 element Sierpinski-Knopp fractal UWB MIMO antenna with dual band notch	S. Rajkumar K.T. Selvan P.H. Rao	Microwave and Optical Technology Letters	2018	68	5	SSN College of Engineering
Performance Evaluation of Hierarchical Routing Protocol with Multiple Transceivers and Cluster Based Routing Protocol in FSO MANET	Kavitha Balamurugan A. Jawahar K. Chitra	Taga Journal of Research	2018	7	0	SSN College of Engineering
Patch based fast noise level estimation using DCT	S. B. Mohan, T. A. Raghavendaran and R. Rajavel	Cluster Computing	2018	35	1	SSN College of Engineering

and standard deviation						
Study on soliton phase characteristics in 100 Gbps single channel telecommunication system	Bhupeshwaran Mani Naicker Jawahar A Radha S	International Journal of Communication System	2017	41	0	SSN College of Engineering
Design And Implementation Of High Speed And Area Efficient Mac Unit	M.Nivedha, V.Priyadharshini K.Rathi Meena, C.T hiruvenkatesan	International Journal of MC Square Scientific Research	2017	0	0	SSN College of Engineering
Design of Low Power Approximate Radix8 Booth Multiplier	Sindhuja K, Thiruvankatesan C	International Journal of Engineering Research Technology (IJERT)	2017	2	0	SSN College of Engineering
Compact Bandpass Filter with Reconfigurable XBand using Stepped Impedance Resonator and Folded Structure	M.H.Masood B S Sreeja	The Journal of Engineering, IET	2017	13	0	SSN College of Engineering
Multiport RF MEMS switch for satellite payload applications	M.Bala Subramanian C. Joshitha B. S. Sreeja Prita Nair	Microsystem Technologies, Springer	2018	57	2	SSN College of Engineering
Chitosan anchored ZnO nanocomposite as modified electrochemical sensor for the detection	Padmalaya G Sreeja BS Senthil kumar P Arivanandan M	Desalination and water treatment	2017	45	0	SSN College of Engineering

of Cd (II) ions						
Performance analysis of noncoherent MIMO MRC scheme with training using finite SNR diversity and multiplexing tradeoff	L. Nandita D. Jalihal	Physical Communication (Elsevier)	2017	27	0	SSN College of Engineering
Analysis of a Code Construction Method for NonBinary QuasiCyclic Irregular Low Density Parity Check Decoder	Anbuselvi M. Saravanan P Gladwin S. Joseph	Journal of Computational and Theoretical Nanoscience	2018	43	0	SSN College of Engineering
Design and Performance Comparison of 4Bit Adders Using Different Logic Styles	S. Joseph Gladwin M. Mangayarkk arasi	Journal of Computational and Theoretical Nanoscience	2018	43	0	SSN College of Engineering
A Novel Frequency and Pattern Reconfigurable Rhombic Patch Antenna with Switchable Polarization	Y. Panneer Selvam Elumalai, L. Alsath, M.G.N., Ka nagasabai, Malathi S. Kingsly S. Subbaraj	IEEE Antennas and Wireless Propagation Letters	2017	97	13	SSN College of Engineering
Characterization of Delamination in Fiber Reinforced	E.F.Sundarsingh V.R. Samsingh S angeethaSu bbarajM. K	IEEE Transactions on Components, Packaging	2017	39	0	SSN College of Engineering

d EpoxyBased PCB Laminates, Using an E BEnhanced Planar Microwave Sensor	anagasabai Yogeshwari Saffrine(R esearch	and Manufa cturing Technology				
A new error analysis technique for cooper ative 5G systems	Velmurugan Nagarajan Chinnamuth u Annadurai	Computers and Electrical Engineerin g, Elsevier	2018	49	1	SSN College of Engineerin g
Performanc e Analysis of Single Event Double Upset Immune D and SR Flip flops	G. Durga M.Meryl Rino	WSEAS Tran sactions on Electro nics	2018	9	0	SSN College of Engineerin g
A Single Image Supe rresolutio n Algorithm for Infrared Images	Y. Kiran V. Shrinidhi W. Jino Hans N. Ve nkateswara n	Internatio nal Journal of Computer Science and Network Security	2017	0	2	SSN College of Engineerin g
Analysis and design of power c onditionin g circuit for piezoe lectric vibration energy harvester	S. Kirubaveni S. Radha M. Sudha	IET Science, M easurement Technology	2017	43	3	SSN College of Engineerin g
Performanc e of image transmissi on over MCCDMA based on super resolution technique	P. T. Vasanth Raj K. S. Vishvakse nan	Cluster Computing, Springer	2017	35	0	SSN College of Engineerin g
Mutual inf ormation of massive MIMO	P. D. Selvam K. S. Vishvak senan	Springer's Cluster Computing The	2018	35	0	SSN College of Engineerin g

systems on block Rayleigh faded channels		Journal of Networks, Software Tools and Applications				
Noniterative CS recovery algorithm for surveillance applications: subjective and realtime experience	J. Florence Gnanapoovathy S. Radha V. Suganesh,	Springer's Multidimensional Systems and Signal Processing	2018	33	0	SSN College of Engineering
Analysis of Stability and Dynamic Behaviour of Ultra Lift Luo Converter	J. Raji and V. Kamaraj	Journal of Electrical Engineering Technology	2017	12	0	SSN College of Engineering
A stretchable smart and highly efficient radio frequency antenna on low cost substrate	S. Deepa Nivethika B. S. Sreeja E. Manikandan S. Radha	Microwave and Optical Technology Letters	2018	68	1	SSN College of Engineering
Audio Transmission through Free Space Optics using Visible Light	M. Mohana Krishnan G. S. Sudharsana Prasad M. Gulam Nabi Alsath R. Balaji S. Logesh	International Journal of Scientific Research in Science, Engineering and Technology (IJSRSET),	2018	0	0	SSN College of Engineering
Feature based Fall Detection System for elders using compressed sensing in WWSN	V. Angayarkanni S. Radha	Wireless Network	2017	82	2	SSN College of Engineering

Design of Shared Aperture Microstrip Patch Antenna Array For Conformal 5G Communications	G. S. Sudharsana Prasad K. Arun M. Gu lamNabiAlsat	International Journal of Scientific Research in Science, Engineering and Technology (IJSRSET),	2018	0	0	SSN College of Engineering
A simpler reference antenna gain measurement method	Krishnasamy T. Selvan, Satish K. Sharma, Ghanshyam Mishra, Roshin Rose George	Microwave and Optical Technology Letters	2018	68	0	SSN College of Engineering
SpeechInput SpeechOutput Communication for Dysarthric Speakers Using HMMBased Speech Recognition and Adaptive Synthesis System, Volume 37, Issue 2, pp 674-703	M. Dhanalakshmi, T. A. Mariya Celin, T. Nagarajanl, P. Vijayalakshmi	Circuits, Systems, and Signal Processing	2018	45	0	SSN College of Engineering
Strain measurement for structural health monitoring using Fiber Bragg Grating Sensors	K.Vinnarasi, S.Sundaravadivelu	Indian Journal of Scientific Research	2017	0	0	SSN College of Engineering
High temperature measurement using Fiber Bragg	S.V.Shruthi, S.Sundaravadivelu	Indian Journal of Scientific Research	2017	0	0	SSN College of Engineering

Grating Sensors							
Experimental studies on the performance of a multiple PCM thermal storage unit	N. Lakshmi Narasimhan, Karthik P	Research Journal of Pharmaceutical, Biological and Chemical Sciences	2017	24	0	SSN College of Engineering	
Modeling of soot characteristics of diesel engines - A review	Gowthama Krishnan, Rajkumar S	Research Journal of Pharmaceutical, Biological and Chemical Sciences	2017	24	0	SSN College of Engineering	
A comprehensive review on performance combustion and emission characteristics of biodiesel fuelled diesel engines	P. Tamilselvan, N. Nallusamy, S. Rajkumar,	Renewable And Sustainable Energy Reviews	2017	222	58	SSN College of Engineering	
AI Modeling and analysis of pivotal parameters in drilling hybrid fibre composite (HFC)	Visveshwar N, Vignesh K, Vimal Samsingh	FME Transactions	2017	16	0	SSN College of Engineering	
A comparative analysis on tensile strength of dry and moisture absorbed hybrid kenaf/glass	Dr.M.Nalla Mohamed, A.Praveenkumar,	Journal of Industrial Textiles	2017	31	8	SSN College of Engineering	

polymer composites						
Experimental investigation and optimization of AWJ cutting parameters for the improvement of cut quality in CFRP laminates	B. Jagadeesh, P. Dinesh babu, M. Nalla Mohamed, P. Marimuthu	Journal of Industrial Textiles	2017	0	0	SSN College of Engineering
Friction welding of selective laser melted TiAl4V parts	K.G. Prashanth, R. Damodaram, T. Maity, P. Wang, J. Eckert	Material Science and Engineering A	2017	204	10	SSN College of Engineering
Chemical ignition delay of candidate dropin replacement jet fuels under fuellean conditions: A shock tube study	Giacomo Flora, Jayakishan Balagurunathan, Saumitra Saxena, Jeremy P Cain, Moshan SP Kahandawala, Matthew J DeWitt, Sukhjinder S Sidhu, Edwin Corporan	Fuel	2017	181	3	SSN College of Engineering
Microstructure And Salt Fog Corrosion Behavior Of AA2219 Friction Stir Welded Aluminum Alloy	G. Srinivasa Rao, V. V. Subba Rao, and S. R. K. Rao	Metal Science and Heat Treatment	2017	23	0	SSN College of Engineering
Microstructure And Mechanical Properties Of Welded Joints Of Aluminum	G. Srinivasa Rao, V. V. Subba Rao, and S. R. K. Rao	Metal Science and Heat Treatment	2017	23	0	SSN College of Engineering

Alloy AA7020T6 Obtained By Friction Stir Welding						
Fraunhofer and Fresnel distances: Unified derivation for aperture antennas	K.T. Selvan R. Janaswamy	IEEE Antennas and Propagation Magazine	2017	76	11	SSN College of Engineering
Design and analysis of cantilever based piezoelectric vibration energy harvester	Kirubaveni Savarimuthu, Radha Sankararajan, Gulam Nabi Alsath M., Ani Melfa Roji M	Circuit World	2018	19	2	SSN College of Engineering
Mechanisms of friction and their correlation to bond strength of friction welded Ti6Al4V similar welds, Low Carbon steel, Stainless steel and Aluminium-Copper dissimilar welds	Dr.D.Ananthapadmanaban,	International Journal of Innovations in Engineering and Technology	2018	30	0	SSN College of Engineering
Solution for Biobjective Single Row Facility Layout Problem using Artificial Bee Colony Algorithm"	Lenin N, Sivakumar M, Selvakumar G, Vigneshkumar D	European Journal of Industrial Engineering (EJIE), Inderscience Publishers, Switzerland, Vol. 12 (2), Pp.	2018	22	0	SSN College of Engineering

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Solution for Multi Objective Single Row Facility Layout Problem using Particle Swarm Optimization Algorithm	Lenin N, Selvakumar G and Sivakumar M	International Journal of Manufacturing Technology and Management. Inderscience Publishers, Switzerland	2018	18	0	SSN College of Engineering
Optimization of Laser cutting of SS 430 Plate using Advanced Taguchi Entropy Weighted based GRA Methodology	K. Velayutham, K. Venkadeswaran and G. Selvakumar	International Journal of Mechatronics and Manufacturing Systems	2018	12	0	SSN College of Engineering
Review of Finite Element Analysis in Machining Processes	Dr.K.S.Vijay Sekar, PG alumni B. V. Ajay Subramanyam	Advanced Science, Engineering and Medicine	2018	16	0	SSN College of Engineering
3D Finite Element Analysis of Drilling of Glass Fiber Reinforced Polymer Composites	Dr.K.S.Vijay Sekar, C. Prakash	Advanced Science, Engineering and Medicine	2018	16	1	SSN College of Engineering
"Investigation on the Cutting Quality Characteristics of Abrasive Water jet Machining on AA6061B 4ChBN	A. Gnanavelbabu, Kalaiyamoorthy Rajkumar P. Saravanan	Materials and Manufacturing Process	2018	53	6	SSN College of Engineering

Hybrid Metal Matrix Composites						
Numerical studies on mixed mode fracture behavior of dissimilar (AISI 304 and AA1050) welded joints with multiple cracks	Suresh Kumar SEmail author Naren Balaji VPrrithvi P.M	Welding in the World	2018	25	0	SSN College of Engineering
Investigation on machining and surface characteristics of AA5083 for cryogenic applications by adopting trim cut in WEDM	G. Selvakumar Email author K. G. Thiruppathi Kutta lingam S. Ram Prakash	Journal of the Brazilian Society of Mechanical Sciences and Engineering	2018	29	2	SSN College of Engineering
Finite Element Analysis of Heat Input Effect on Temperature, Residual Stresses and Distortion in Butt Welded Plates	D.Venkatkumara D.Ravindran, G. Selvakumar	Materials Today: Proceedings	2018	18	0	SSN College of Engineering
Assessment of ergonomically designed handle shapes for low frequency	B. Jain A.R Tony, M.S Alphin, "	Proceedings of the Institution of Mechanical Engineers part L Journal	2018	3	0	SSN College of Engineering

vibration responses		of Materials Design and Applications,				
Certain Investigation on the Source Separation Using Visual Cues under Noise Environment	Balasubramanian Sivasubramanian, Rajavel Ramadoss	Journal of Advanced Research in Dynamical Control Systems	2018	8	0	SSN College of Engineering
Certain Investigation on the Design of Wavelet Filter Bank for Hearing Aid	Joseph Sathiadhas Esra, Rajavel Ramadoss	Journal of Advanced Research in Dynamical Control Systems	2018	8	0	SSN College of Engineering
Parallelized Classification of Cancer Subtypes from Gene Expression Profiles Using Recursive Gene Selection	Lokeswari V., Shomona Gracia J., Rajavel R	Studies in Informatics and Control	2018	16	1	SSN College of Engineering
"Continuous authentication consoles in mobile ad hoc network (MANET)", D.	D. Ramkumar C. Annadurai, K. Nirmaladevi	Cluster Computing	2017	35	2	SSN College of Engineering
Performance enhancement of IPv6 low power wireless personal area networks (6LoWPAN) by Lamport's	R. Rajesh, C. Annadurai, K. Nirmaladevi	Cluster Computing	2017	35	0	SSN College of Engineering

algorithm						
Novel Reconfigurable 3D Frequency Selective Surface	R. Sivasamy, M. Kanagasabai	IEEE Transactions on Components, Packaging and Manufacturing Technology	2017	39	8	SSN College of Engineering
A Wideband Frequency Tunable FSS for Electromagnetic Shielding Applications	R. Sivasamy, B. Moorthy, M. Kanagasabai, V. R. Samsingh, M. G. N. Alsath	IEEE Transactions on Electromagnetic Compatibility	2018	82	20	SSN College of Engineering
Hilbert fractal stubbased wideband microstrip bandpass filter with notched band on lowcost substrate	Karthie S, Salivahana nS	Microwave and Optical Technology Letters	2018	68	1	SSN College of Engineering
Energy Efficient Raptor Codes for Error control in Wireless Body Area Networks	P.Kaythry, R.Kishore, V.Praveena	Wireless Personal Communication	2018	48	3	SSN College of Engineering
Energy Efficient Quasi Cyclic FEC for Wireless Sensor Networks	P.Kaythry, R.Kishore,	Applied Mathematics and Information Sciences	2017	31	0	SSN College of Engineering
Experimental Study on Strength of Slag Mortar by Replacing the Fine	Y K Sabapathy, P Sangeetha,	International Journal of Civil Engineering and Technology	2017	18	0	SSN College of Engineering

Aggregate with EOF Slag						
Effect of Precursor Concentration on Structural, Morphological, and Optical Properties of ZnO ThinFilmed Sensor for Ethanol Detection	Sudha M , Radha S, Kirubaveni S, Kiruthika R, Govindaraj R, Santhosh N, Ramasamy P	IEEE Transactions on Nanotechnology	2018	73	0	SSN College of Engineering
Experimental study on structural, optoelectronic and room temperature sensing performance of nickel doped ZnO based ethanol sensors	Sudha M, Radha S, Kirubaveni S, Kiruthika R, Govindaraj R, Santhosh N	Solid State Sciences, Elsevier	2018	79	6	SSN College of Engineering
Fabrication and Characterization of ZnO Nanostructured Thin Film Piezoelectric Sensor for Accelerometer Application	Kiruthika. R , Priyadarshini.E , Kirubaveni.S , Radha.S	International Journal of Pure and Applied Mathematics	2018	20	0	SSN College of Engineering
Design of a Filter using Array of Pillars for Particle Separation	Indhu R, Anni Steffi Mercy J , Shreemathi K.M, S.Radha, S. Kirubaveni, B.S Sreeja	Material Today Proceeding, Springer	2018	18	0	SSN College of Engineering
Transit time dependent	Vimal Samsingh R, Malathi	Industrial Electronics	2018	236	1	SSN College of Engineering

condition monitoring of PCBs during testing for diagnostics in electronics industry	K, and Esther Florence S,					g
The sensitivity of contact stresses in the mandibular premolar region to the shape of Zirconia dental implant: A 3D finite element study	D Velmurugan, M S Alphin, B Jain AR Tony	Polish journal of Medical Physics and Engineering	2018	3	0	SSN College of Engineering
Study the effect of Cryogenic Cooling on Machinability Characteristics during Turning Duplex Stainless Steel 2205	Dr.M. Dhananchezian,	Materials Today: Proceedings	2018	18	0	SSN College of Engineering
3D finite element analysis of slot milling of unidirectional glass fiber reinforced polymer composites	K.S. Vijay Sekar	Journal of the Brazilian Society of Mechanical Sciences and Engineering 40(6):279 · June 2018	2018	29	1	SSN College of Engineering
3D Finite element analysis of slot milling process for Titanium	K.S. Vijay Sekar	IOSR Journal of Engineering	2018	14	0	SSN College of Engineering

alloy Ti6Al4V						
Experimental Investigation on the Influence of Process Parameters in Thermal Drilling of Metal Matrix Composites	R. Vimal Samsingh	FME Transactions	2018	16	2	SSN College of Engineering
A decision making trial and evaluation laboratory approach to analyse the challenges to environmentally sustainable manufacturing in Indian automobile industry	L.Poovazhagan	international journal of Sustainable Production and Consumption	2018	15	0	SSN College of Engineering
Effect of Abrasive Waterjet Machining Parameters on Hybrid AA6061B4C CNT Composites	K.Rajkumar , A.Gnanavelbabua, P .Saravanan , S.Karthikeyan , Baskaran	Materials Today: Proceedings	2018	18	2	SSN College of Engineering
Chitosan anchored Zinc Oxide nanocomposite as modified electrochemical sensor for the detection of Cd (II) ions	G. Padmalaya, B.S. Sreeja, P. Senthil Kumar, M. Arivanandhan	Desalination and Water Treatment, Vol. 97, pp. 295303, 2017	2017	40	2	SSN College of Engineering
A multiband, multipolar	P.H. Rao, R. Sujitha K.T.	IEEE Antennas and Propag	2017	76	6	SSN College of Engineering

ization shared aperture antenna: Design and evaluation	Selvan	ation Magazine				g
Carbon sphere: Synthesis, characterization and elimination of toxic Cr(VI) ions from aquatic system	P. Senthil Kumar, R. Sivaranjanee, P. Sundar Rajan, A. Saravanan	Journal of Industrial and Engineering Chemistry, Vol. 60, pp. 307320, 2018	2018	60	8	SSN College of Engineering
Influence of ultrasonic waves on preparation of active carbon from coffee waste for the reclamation of effluents containing Cr(VI) ions	S. Suganya, P. Senthil Kumar	Journal of Industrial and Engineering Chemistry, Vol. 60, pp. 418430, 2018	2018	60	8	SSN College of Engineering
Treatment of dye wastewater using an ultrasonic aided nano particle stacked activated carbon: kinetic and isotherm modelling	P. Senthil Kumar, Sunitha J. Varjani, S. Suganya	Bioresource Technology, Vol. 250, pp. 716722, 2018	2018	229	15	SSN College of Engineering
Sequestration of toxic Cr(VI) ions from industrial wastewater using waste	A. Saravanan, P. Senthil Kumar, M. Yashwanthraj	Desalination and Water Treatment, Vol. 68, pp. 245266, 2017	2017	40	8	SSN College of Engineering

biomass: A review						
Pecan Shell based Activated Carbon for Removal of Iron (II) from Fracking Wastewater: Adsorption Kinetics, Isotherm and Thermodynamic Studies	Aditya Rajeev Kav eeshwar, P. Senthil Kumar, Emmanuel D. Revellame, Daniel D. Gang, Mark E. Zappi, S. Ramalingam	Process Safety and Environmental Protection Vol. 114, pp. 107122, 2018	2018	48	12	SSN College of Engineering
Isolation, Structure elucidation and anticancer activity from Brevibacillus brevis EGS 9 that combats Multi Drug Resistant actinobacteria	T. Arumugam, P. Senthil Kumar, R.V. Hemavathy, V. Swetha, R. Karishma Sri	Microbial Pathogenesis, Vol. 115, pp. 146153, 2018	2018	62	0	SSN College of Engineering
Data on heavy metal and magnetic relationships in coastal sediments from South East Coast of Tamilnadu, India	R.Ravisankar, N. Harikrishnan, A. Chandrasekaran, M. Suresh Gandhi, R. Alagarsamy	Data in Brief	2018	17	3	SSN College of Engineering
Intensified degradation of pharmaceutical effluents by Novel Aerobic Ironswarf activated	S. Nachiappan, P. Senthil Kumar, K. P. Gopinath, V. Rajinikanth, R. Baskaran, A. Babu	Desalination and Water Treatment, Vol. 102, pp. 273279, 2018	2018	40	0	SSN College of Engineering

molecular oxygen in the presence of ascorbic acid	Ponnusami					
NanoZero Valent Iron Impregnated Cashew Nut Shell: A Solution to Heavy Metal Contaminated Water / Wastewater	P. Senthil Kumar, Akshaya S Nair, R. Ananya, A. Saravanan	IET Nanobiotechnology, Vol. 12 (5), pp. 591599, 2018	2018	28	1	SSN College of Engineering
Isolation, Characterization and Purification of Xylanase producing Bacteria from Sea Sediment	P. Senthil Kumar, P.R. Yaashikaa, A. Saravanan	Biocatalysis and Agricultural Biotechnology, Vol. 13, pp. 299303, 2018	2018	19	3	SSN College of Engineering
Modelling and analysis on the removal of methylene blue dye from aqueous solution using physically/chemically modified Ceiba pentandra seeds	G. Manikandan, P. Senthil Kumar, A. Saravanan	Journal of Industrial and Engineering Chemistry, Vol. 62, pp. 446461, 2018	2018	60	1	SSN College of Engineering
Theoretical and experimental investigation on the removal of oil spill by selective sorbents	N. Pavithra, R. Abhaiguru, U. Avinash, D. Gnana Prakash, P. Senthil Kumar	Journal of Industrial and Engineering Chemistry, Vol. 63, pp. 111, 2018	2018	60	0	SSN College of Engineering

Mass transfer and thermo dynamic analysis on the removal of naphthalene from aqueous solution using oleic acid modified palm shell activated carbon	J. Aravind Kumar, D. Joshua Amarnath, P. Senthil Kumar, C. Sai Kaushik, M. Edwin Varghese, A. Saravanan	Desalination and Water Treatment, Vol. 106, pp. 238250, 2018	2018	40	1	SSN College of Engineering
Kinetic and Thermo dynamic analysis for the redemption of effluents containing Solochrome Black T onto Powdered activated carbon: A validation of new SolidLiquid phase equilibrium model	S.Suganya, P.Senthil Kumar	Journal of Molecular Liquids, Vol. 1. 259, pp. 88101, 2018	2018	67	3	SSN College of Engineering
Experimental Investigation on Bisphenol A and its Leaching Properties in Various Repositories: Real Time Analysis	V. Vishal, P. Senthil Kumar, V. Prasanna, B. Sudhan	Desalination and Water Treatment, Vol. 110, pp. 139143, 2018	2018	40	0	SSN College of Engineering
Adsorption properties and mechanism of barium (II) and strontium(I	A. R. Kaveeshwar, P. Senthil Kumar, E. D. Revellame, D. D.	Journal of Cleaner Production, Vol. 193, pp. 113, 2018	2018	132	5	SSN College of Engineering

I) removal from fracking wastewater using pecan shell based activated carbon	Gang, M. E. Zappi, S. Ramalingam					
Case Study on the Repair and Rehabilitation of G3 Residential Apartment Located on Sea Shore, Tamilnadu, India	Vijayalaks hmi R, Ram anagopal S et al	Indian Journal of Science and Technology	2017	33	0	SSN College of Engineerin g
Management of printed circuit boards by newly designed thermal pyrolytic process: process op timization by RSM approach	A. Jayapra dha, J.Abb asMohaidee n, P. Senthil Kumar, V.Kavitha, G.Narendra kumar	Environmen tal Progress S ustainable Energy, Vol ., Issue No., pp., 2018	2018	53	0	SSN College of Engineerin g
A rapid method based on computer vision for the analysis of hardness and eutrop hication levels in water bodies	G. Sivaran jani, P. Senthil Kumar, K.P. Gopinath	Desalinati on and Water Treatment, Vol. 123, pp. 5258, 2018	2018	40	0	SSN College of Engineerin g
Enhanced adsorption of Cu ²⁺ , Ni ²⁺ , Cd ²⁺ and Zn ²⁺ ions onto physicoche	A. Murugesan, M. Divakaran, P. Senthil Kumar	Desalinati on and Water Treatment, Vol. 122, pp. 176191, 2018	2018	40	0	SSN College of Engineerin g

<p>mically modified agricultural waste: Kinetics, isotherm and thermodynamic studies</p>						
<p>Synthesis of itaconic acid from agricultural waste using novel Aspergillus niveus</p>	<p>Ramakrishnan Gnanasekaran, Balaji Dhandapani, Kannappan Panchamoorthy Gopinath, Jeyaraj Iyyappan</p>	<p>Preparative Biochemistry and Biotechnology</p>	<p>2018</p>	<p>23</p>	<p>1</p>	<p>SSN College of Engineering</p>
<p>Design and Implementation of Microwave Based Ethanol Sensor</p>	<p>Rapuru Srinithya, Velkani E., M. Gulam Nabi Alsath, Kirubaveni Savarimuthu</p>	<p>International Journal of Pure and Applied Mathematics</p>	<p>2018</p>	<p>20</p>	<p>0</p>	<p>SSN College of Engineering</p>
<p>Intensified degradation of pharmaceutical effluents by novel aerobic ironswarf activated molecular oxygen in the presence of ascorbic acid</p>	<p>A. Babu Ponnusami S. Nachiappan, P. Senthil Kumar, K. P. Gopinath, V. Rajinikanth, R. Baskaran</p>	<p>Desalination and Water Treatment</p>	<p>2018</p>	<p>40</p>	<p>2</p>	<p>SSN College of Engineering</p>
<p>Ultrasound assisted enhanced extraction of lutein (β, β-carotene3, 3diol) from Microalga</p>	<p>J Arun, U Avinash, B Arun Krishna, M Pandimadevi, KP Gopinath</p>	<p>Global nest journal</p>	<p>2017</p>	<p>22</p>	<p>2</p>	<p>SSN College of Engineering</p>

(Chlorella pyrenoidosa) grown in wastewater: Optimization through Response Surface methodology						
Studies on influence of process parameters on hydrothermal catalytic liquefaction of microalgae (Chlorella vulgaris) biomass grown in wastewater	Jayaseelan Arun, Sivaraman Jayachandran Shreekanth, Ravishankar Sahana, Meenakshi Sundaram Raghavi, Kannappan Panchamoorthy Gopinath, Dhakshinamoorthy Gnana prakash	Bioresourc e technology	2017	229	10	SSN College of Engineerin g
Recent advancements in supporting materials for immobilised photocatalytic applications in wastewater treatment	B Srikanth, R Goutham, R Badri Narayan, A Ramprasath , KP Gopinath, AR Sankaranarayanan	Journal of environmental management	2017	131	56	SSN College of Engineerin g
Antimicrobial activity of Mukia maderasapata stem extract of jujube seeds activated carbon against gram positive /gram negative bacteria	A. Saravanan R. Gayathri, K.P. Gopinath, P. Senthil Kumar	Desalinati on and Water Treatment	2017	40	2	SSN College of Engineerin g

and fungi strains: Application in heavy removal						
Enhancement of mechanical properties and durability of the cement concrete by RHA as cement replacement: Experiments and modeling	B.Ambedkar Josephin Alex, J.Dhanalakshmi	Construction and building materials	2017	109	2	SSN College of Engineering
Potential applications of ionic liquids (IL) for the treatment of synthetic turbid water (STW)	Judith Emiliah Christy S. Ambedkar Balraj, Anantharaj Ramalingam, Dhanalakshmi Jayaraman	Journal of Molecular Liquids 256 (2018) 121-126	2018	67	3	SSN College of Engineering
Treatment of Synthetic Turbid Water using Natural Tamarind Seeds at Atmospheric Conditions	Judith Emiliah Christy SS, Anantharaj R, Ambedkar B and Dhanalakshmi J	Research Journal of Pharmaceutical, Biological and Chemical Sciences	2017	21	0	SSN College of Engineering
Cement Replacement by RHA in Concrete for Sustainable Development.	Josephin Alex, J. Dhanalakshmi, B. Ambedkar and R. Anantharaj.	Research Journal of Pharmaceutical, Biological and Chemical Sciences	2017	21	0	SSN College of Engineering
Interaction energy of pyrrole and	R. Anantharaj	Journal of Molecular Liquids	2017	67	0	SSN College of Engineering

pyridine with lethy 13methylim idazolium ethyl sulphate						
A DFT method analysis for formation of hydrogen rich gas from acetic acid by steam reforming process.	Md.Arafat Hossain, J .Jewaratnam, R.Anantharaj, J.N.Sahu, P.Ganesan	Fuel	2018	165	4	SSN College of Engineering
Reactivity , Stability Thermodynamic Feasibility of H2O2/H2O at Graphite Cathode: Application of Quantum Chemical Calculations in MFCs.	Anam Asghar, Abdul Aziz Abdul Raman, Wan Mohd Ashri Wan Daud, R Anantharaj,	Environmental Progress Sustainable Energy.	2018	53	3	SSN College of Engineering
Synthesis of itaconic acid from agricultural waste using novel Aspergillus niveus	Gnanasekaran Ramakrishnana, Balaji Dhandapani, Gopinath Kannappan Panchamoorthy, and Iyyappan Jeyaraj	Preparative Biochemistry And Biotechnology	2018	23	0	SSN College of Engineering
Behavioral Modeling for Mental Health using Machine Learning Algorithms	Srividya, M., Mohanavalli, S. Bhalaji, N	Journal of Medical Systems	2018	63	5	SSN College of Engineering Chennai India
BCI Cinematics-A	Sundhara Kumar KB,	Computers Electrical	2018	49	0	Department of Informa

prerelease analyser for movies using H2O deep learning platform	G Krishna, N Bhalaji, S Chithra	Engineering,				tion Technology, SSN College of Engineering, Kalavakkam, Chennai, India
MutatedSocioAgentSimulation (MSAS): semi supervised modelling of multiagent simulation to predict and detect the mutation in a camouflaged social network	S. Karthika S. Bose	Turkish journal of electrical engineering and computer sciences	2018	25	0	Department of Information Technology, SSN College of Engineering, Chennai, India
A twolevel secure data hiding algorithm for video steganography	S. Manisha, T. Sree Sharmila	Multidimensional Systems and Signal Processing	2018	33	1	Department of Information Technology SSN College of Engineering Chennai India
An augmented approach for pseudofree groups in smart cyberphysical system	Kumar, M.V.R., Bhalaji, N. Singh, S.	Cluster Computing	2018	35	1	Department of IT SSN College of Engineering Chennai India
SpeechInput SpeechOutput Communication for Dysarthric Speakers Using HMMBased Speech Recognition and Adaptive	M. Dhanalakshmi, T. A. Mariyachelin, T. Nagarajan, P. Vijayalakshmi	Circuits, Systems and Signal Processing	2018	45	0	Speech Lab SSN College of Engineering Chennai India

Synthesis System						
Analysis of machine learning algorithm for identifying key players in covert networks	R. Geetha S. Karthika	Disaster advances	2018	13	0	SSN College of Engineering Chennai India
A Simplified Direct Torque Control Space Vector Modulation Based Induction Motor Drive for Trinary Hybrid Cascaded HBridge Multilevel Inverter	Dr.R.Seyezhai, ASSP/EEE and M.Sudhakaran	Journal of Computational and Theoretical Nanoscience	2017	14	0	SSN College of Engineering
Design and Simulation of an Integrated PFC ACDC Converter for Telecoms	R.Mahalakshmi (passed out PG Student) and Dr. R. Seyezhai, ASSP/EEE	International Journal of Control Theory and Applications	2017	14	0	SSN College of Engineering
New Asymmetric Seven Level Inverter with Minimum Number of Voltage Sources and Switches	Thiyagarajan V	Journal of Electrical Engineering (JEEE)	2017	1	3	SSN College of Engineering
Comparative Study on Control Methods for PMSM Based Wind Energy Using PI	G. Ramya (FT Research Scholar/EEE), M. Mohana Krishnan (PG Student)	International Journal of Control Theory and Applications	2017	16	0	SSN College of Engineering

and Fractional Order Controller	t/EEE) and R. Ramaprabha (Asso.Prof ./EEE,					
Investigation on Isolated Derived Topology For Differential Power Processing in Photovoltaic System	M. Venmathi (FT Research Scholar/EEE) and R. Ramaprabha	International Journal of Control Theory and Applications	2017	16	0	SSN College of Engineering
Performance Analysis of Reduced Device Count Multilevel Inverter with Low Frequency PWM Schemes	S. Malathy (Asso.Prof ./EEE), R. Ramaprabha (Asso.Prof ./EEE), B. Kabilram, K. Manirajan, K. Marriappan and G. Vignesh (UG Students),	International Journal of Control Theory and Applications	2017	16	0	SSN College of Engineering
Fault Tolerant Single Switch PWM DCDC Converters for Battery charging Applications	S. Gowtham (Part Time Research Scholar), M.Balaji(A SSP/EEE), S. Harish, M.S. Abraham Pinto, G. Jagadeesh,	Energy Procedia	2017	7	1	SSN College of Engineering
Analysis of Neural Network Approaches for Nonlinear Modeling of Switched Reluctance Motor Drive	P. Saravanan, M. Balaji, K. Balaji Nagaraj and R. Arumugam	Journal of Electrical Engineering and Technology	2017	2	1	SSN College of Engineering
Design of	M. Joly	Journal of	2017	16	0	SSN

Battery less Hybrid PV System for DC Distribution System in Building Applications with Improved Transient Response	and R. Ramaprabha ASSP/EEE	Electrical Engineering				College of Engineering
A Review of MultiInput DCDC Converter Topologies for DC Micro Grid	Dr.R.Seyezhai, ASSP/EEE and S.T.NamithaShanili	International Journal of Control Theory and Applications	2017	14	0	SSN College of Engineering
A Single Stage Power Conditioning of Extended Boost Quasi ZSource Inverter for PV Applications	Dr.R.Seyezhai, ASSP/EEE and N.Hemalatha	Journal of Electrical Engineering	2017	14	0	SSN College of Engineering
Reconfiguration strategies to extract maximum power from photovoltaic array under partially shaded conditions	S. Malathy and R. Ramaprabha	International Journal on Renewable Sustainable Energy Reviews	2017	16	11	SSN College of Engineering
PSOPID maximum power point tracking controller using modified superlift Luo Converter	Dr.R.Seyezhai, ASSP/EEE and V.Chamundeswari	Energy Procedia	2017	14	0	SSN College of Engineering

Image coding using Cellular Automata based LDPC codes	Dr P Saravanan ASSP/EEE	International Journal of Computer Science and Network Security	2017	2	0	SSN College of Engineering
Microgrid Grid Outage Management using Multi Agent Systems	Leo Raju, Antony AmalrajMorais, RamyaaRathnakumar, P. Soundaryaa, L. D. Thavam	Energy Procedia	2017	4	2	SSN College of Engineering
Modified Nine Level Inverter with Reduced Number of Switches	V. Thiyagrajan and P. Somasundaram	International Journal of Control Theory and Applications	2017	1	0	SSN College of Engineering
Impedance source converter for photovoltaic standalone system with vanadium redox flow battery storage	Dr.U. Shajith Ali, ASSP/EEE	International Journal Materials Today Proceedings, Elsevier	2017	7	0	SSN College of Engineering
Case Study on Double Tube Stub Columns	S Ramanagopal	Indian Journal of Science and Technology	2017	33	0	SSN College of Engineering
Structural Concrete using Expanded Clay Aggregate: A Review	Vijayalakshmi R, Ramanagopal S	Indian Journal of Science and Technology	2017	33	2	SSN College of Engineering
Behaviour of Concrete Short Columns with GFRP Reinforcement	Y K Sabapathy	International Journal of Civil Engineering and Technology	2017	18	0	SSN College of Engineering

Seismic Performance on NonStructural Elements -An Experimental Investigation and Numerical Analyses	Rajkumar R	International Journal of Civil Engineering and Technology	2017	18	0	SSN College of Engineering
Experimental Investigation of Surface Modified EOF Steel Slag as Coarse Aggregate in Concrete	Sabapathy Y K	Journal of King Saud University Engineering Sciences	2017	20	5	SSN College of Engineering
Uncertainty based Model Averaging for Prediction of Long Time Prestress Losses in Concrete Structures	Suryakanta Biswal	Construction and Building Materials	2017	129	2	SSN College of Engineering
Experimental Study on the Service Load Behaviour of the Composite Space Truss	P Sangeetha	Journal of Structural Engineering	2017	10	0	SSN College of Engineering
Experimental Behaviour of Steel Tubular Columns for Varying Infilled Concrete	P Sangeetha	Archives of Civil Engineering	2017	10	0	SSN College of Engineering
Resonant Gate	S. Krishna veni	Energy Procedia	2017	1	1	SSN College of

Driver for Series Operation of MOSFETs	AP/EEE, Dr. V. Rajini					Engineering
Design and Simulation of Modified Symmetric and Asymmetric Multilevel Inverter	Thiyagarajan V	Research Journal of Pharmaceutical, Biological and Chemical Sciences	2017	1	0	SSN College of Engineering
Impact of modified perturb and observe control on MPPT of PV/battery fed three port DCDC converter	M. Venmathi (FT Research Scholar/EEE) and Dr. R. Ramaprabha (ASSP./EEE)	ActaScientiarum Technology	2017	16	0	SSN College of Engineering
Analysis and Experimentation of Quadratic Boost Converter for Photovoltaic Applications	P. Priya, G. ShabbeerBasha, S. V. SujithNiranjan, R. Seyezhai	Indian Journal of Science and Technology	2017	14	0	SSN College of Engineering
A Novel SEPIC Power Factor Correction Converter for HBLED Applications	R.Seyezhai, R.Sreemallika	MAGNT Research Report	2017	14	0	SSN College of Engineering
Analysis of Multicarrier PWM techniques for Photovoltaic fed Cascaded HBridge Multilevel Inverter	Thiyagarajan V	Journal of Electrical and Electronics Engineering (JEEEE)	2017	2	2	SSN College of Engineering
Multi Objective Evolutionary	S.Tamilselvi (ASSP/EEE),	Swarm and Evolutionary Computation	2018	2	1	SSN College of Engineering

ry Algorithm for Designing Energy Efficient Distributi on Transfo rmers	S.Baskar, L.Anandapa dmanaban, V.Karthike yan, S.Raj asekar	tion Elsevier				g
Nominal fe aturesbase d class specific learning model for fault diagnosis inindustri al applica tions	Kannan R, SolaiManoh ar S, Sent hilKumaran M.(ASSP/EE E),	Elsevier Computers Industrial Engineerin g	2018	4	2	SSN College of Engineerin g
Analysis and Implem entation of PSPWAM Technique for QuasiZ Source Multilevel Inverter	Dr.R.Seyez hai(ASSP/E EE), Ms.D. Umarani (AP/EEE),	Journal of Electrical Engineerin g and Technology	2018	14	0	SSN College of Engineerin g
Investigat ions On Embedded Processor Architectu res For The Speed Control Of Switched Reluctance Motor Drive	Saravanan P, Balaji M, Anbuselvi M and Arumugam R	Journal of Electrical Engineerin g	2018	2	0	SSN College of Engineerin g
Simulation and Implem entation of FPGA based three phase BLDC drive for Electric Vehicles	Dr.R.Seyez hai,ASSP/E EE, Mr.A.B harathiSan kar	Internatio nal Journal of Pure and Applied Ma thematics	2018	14	0	SSN College of Engineerin g
A real time pricing strategy for remote	HithuAnand and Dr.R.R engaraj ASSP/EEE	Renewable Energy, Elsevier	2018	5	1	SSN College of Engineerin g

microgrid with economic emission dispatch and stochastic renewable energy sources						
A new green energy interface for telecommunications	A. Margaret Amutha, V. Rajini, Prof/EEE	International journal of Electronics, Taylor Francis publishers	2018	16	0	SSN College of Engineering
A New Seven Level Symmetrical Inverter with Reduced Switch Count	Thiyagarajan V	International Journal of Power Electronics and Drive System (IJPEDS)	2018	1	0	SSN College of Engineering
On the growth mechanism of multicrystalline silicon ingots with small grains fabricated using single layer silicon beads	T. Muramatsu, I. Takahashi, G. Anandhababu, N. Usami	Japanese Journal of Applied Physics	2017	62	2	SSN College of Engineering
Studies on the growth and characterization of an organic single crystal 1,3,5 Triphenyl benzene', Materials Research Innovations	Subramanian @ Raja, Anandhababu, G, Ramasamy, P	Materials Research Innovations	2018	44	0	SSN College of Engineering
In situ synthesis	Suganthi Muthusamy,	Polymer Bulletin	2018	55	0	SSN College of

and characterization of polyaniline/prussian blue/zinc oxide nano composite	Julie Charles					Engineering
Characterization of Reclaim rubber and Reclaim rubber/Natural rubber blend	Julie Charles	International Journal of ChemTech Research	2017	34	0	SSN College of Engineering
Optical properties of Eu ³⁺ activated SrLa ₂ O ₄ red emitting phosphors for WLED applications	Rajesh Narayana Perumal, G. Subalakshmi, E. V aradarajan , S. Sadhasivam, G. Vinitha	Journal of Materials Science: Materials in Electronics	2018	63	6	SSN College of Engineering
Investigations on HoTiO ₂ nanoparticles synthesized by precipitation method for optical applications	Rajesh Narayana Perumal, G. Subalakshmi	Optik International Journal for Light and Electron Optics	2018	46	0	SSN College of Engineering
Synthesis and photoluminescence properties of Sr _{0.95} Ba _{0.05} La ₂ O ₄ :xRE ³⁺ (RE = Eu, Er, Ce and Ho) for WLEDs application	Rajesh Narayana Perumal, G. Subalakshmi, C.K. Jayasanka	Journal of Alloys and Compounds	2018	145	4	SSN College of Engineering
Melt growth of organic 4(2Phenylisopropyl) phenol	S.Sadhasivam, N.P.Rajesh	Journal of Molecular Structure	2018	89	0	SSN College of Engineering

single crystal and its structural, thermal, dielectric permittivity and optical properties						
Synthesis, photoluminescence properties of Sr _{1.95} Ba _{0.05} CeO ₄ : Eu ³⁺ for LED applications	Rajesh Narayana Perumal, G. Subalakshmi, and G. Vinitha	Journal of Materials Science: Materials in Electronics	2017	63	0	SSN College of Engineering
Growth and characterization of organic nonlinear optical single crystal 2,7-dihydroxynaphthalene	S. Sadhasivam, N.P. Rajesh	Optics and Laser Technology	2017	63	1	SSN College of Engineering
Growth and Characterization of ethyl 4-hydroxybenzoate single crystals by modified vertical Bridgman technique	S. Siva Bala Solanki, N.P. Rajesh, T. Suthan	Optics and Laser Technology	2017	63	1	SSN College of Engineering
Modelling and controlling of PV connected quasi-Zsource cascaded multilevel inverter system: An HACSNN based control	V.V. Rajasegharan, L. Premalatha, Dr.R. Rengaraj ASSP/EEE	Electric Power Systems Research, Elsevier	2018	5	1	SSN College of Engineering

approach						
Analysis of carotid ultrasound images for the assessment of stroke risk using level set method	Sumathy K, Mahesh Veezhinathan, Jesu Christopher	current medical imaging reviews	2017	22	0	Department of Biomedical Engg., SSN College of Engg
Assessment of Graph Metrics and Lateralization of Brain Connectivity in Progression of Alzheimer's Disease Using fMRI	Bhaskaran Bhuvaneshwari, Anandan Kavitha	International Journal of Software Science and Computational Intelligence	2017	0	1	Department of Biomedical Engineering, SSN College of Engineering, Chennai
Music Induced Emotion and Music Processing in the Brain- A Review	B Geethanjali, Kanagasabai Adalarasu, Mohan Jagannath	Journal of Clinical and Diagnostic Research	2018	28	4	Department of Biomedical Engineering, SSN College of Engineering, Chennai
Music induced emotion using wavelet packet decomposition -An EEG study	Geethanjali Balasubramanian, Adalarasu Kanagasabai, Jagannath Mohan, N.P. Guhan Seshadria	Biomedical Signal Processing and Control	2018	51	6	Department of Biomedical Engineering, SSN College of Engineering, Chennai
Fabrication and characterization of a nanocomposite hydrogel for combined photocatalytic degradation of a mixture of malachite green and fast green	Gaurav Sharma, Zeid Abdullah AlOthman, Amit Kumar, Shweta Sharma, P. Senthil Kumar, Mu. Naushad	Nanotechnology for Environmental Engineering, Vol. 2 (4), pp. 17, 2017	2017	1	18	SSN College of Engineering

dye						
Modelling and analysis of packed bed column for the effective removal of zinc from aqueous solution using dual surface modified biomass	A. Saravanan, P. Senthil Kumar, M. Yaswanthraj	Particulate Science and Technology, Vol. 36 (8), pp. 934944, 2018	2018	28	1	SSN College of Engineering
An insight into the Prediction of Biosorption Mechanism, and Isotherm, Kinetic and Thermodynamic Studies for Ni(II) ions Removal from Aqueous Solution using Acid Treated Biosorbent: the Lantana camara fruit	K. Nithya, Asha Sathish, P. Senthil Kumar, T. Ramachandran	Desalination and Water Treatment, Vol. 80, pp. 276287, 2017	2017	40	2	SSN College of Engineering
Construction Of Active Biosorbent By Immobilized Metal Nanoparticles Onto Activated Carbon: Probing To Antimicrobial Activity	S. Suganya, P. Senthil Kumar, A. Saravanan	IET Nanotechnology, Vol. 11, Issue No. 6, pp. 746753, 2017	2017	28	6	SSN College of Engineering

Green synthesis of metal nanoparticles loaded ultrasonic assisted Spirulina platensis using algal extract and their antimicrobial activity	E. Gunasundari, P. Senthil Kumar, C. Femina Carolin, T. Arumugam, A. Saravanan	IET Nanotechnology, Vol. 11, Issue No. 6, pp. 754758, 2017	2017	28	6	SSN College of Engineering
Functional group assisted green synthesized superparamagnetic nanoparticles for the rapid removal of hexavalent chromium from aqueous solution	K. Nithya, Asha Sathish, P. Senthil Kumar, T. Ramachandran	IET Nanotechnology, Vol. 11, Issue No. 7, pp. 852860, 2017	2017	28	4	SSN College of Engineering
Efficient Techniques for the Removal of Toxic Heavy Metals from Aquatic Environment: A Review	C. Femina Carolin, P. Senthil Kumar, A. Saravanan, G. Janet Joshiba, Mu. Naushad	Journal of Environmental Chemical Engineering, Vol. 5 (3), pp. 27822799, 2017	2017	37	135	SSN College of Engineering
Removal of Toxic Cr(VI) ions from Tannery Industrial Wastewater Using a Newly Designed Threephase Threedimensional Electrode	K. Grace Pavithra, P. Senthil Kumar, C. Femina Carolin, A. Saravanan	Journal of Physics and Chemistry of Solids, Vol. 110, pp. 379385, 2017	2017	93	8	SSN College of Engineering

Reactor						
Study and analysis of DRVCO for radhardness in type II third order CPLL	KA Karthigeyan, Premanand Venkatesh Chandramani	Microelectronics Reliability, Elsevier	2018	80	1	SSN College of Engineering
An Image Contrast Enhancement Algorithm for grayscale images using particle swarm optimization	Madheswari .K N. Venkateswaran	Multimedia Tools and applications, Springer	2018	52	0	SSN College of Engineering
Swarm Intelligent based Contrast Enhancement Algorithm with Improved Visual Perception for Color Images	K. Madheswari and N. Venkateswaran	Multimedia Tools and applications, Springer	2017	52	2	SSN College of Engineering
Noninvasive Glaucoma Screening Using Ocular Thermal Image Classification	N.Padmapriya, N. Venkateswaran, Toshita Kannan Sindhu Madhuri,	Journal of Computing and Information Technology	2017	22	1	SSN College of Engineering
Coherence analysis of ambient noises in shallow water for underwater Communication	Annalakshmi G, Sakthivel Murugan S, Venugopal Padmanabhan, Swetha Vivekananthan, Vaishali Selvaraj	Journal of Marine Science and Technology	2017	39	0	SSN College of Engineering
Design and performance analysis	Janani. P, Sakthivel	Indian journal of Geo Marine	2017	31	1	SSN College of Engineering

of boost converters in an energy harvesting system for underwater applications using sea water in microbial fuel cell	Murugan S	Sciences				g
Implementation of sea sand in microbial fuel cell for an energy harvesting system using LTC for underwater applications	Janani. P , Sakthivel Murugan S	Indian journal of Geo Marine Sciences	2017	31	0	SSN College of Engineering
Low Cost Flexible Multiband Terahertz Planar Antennas for Bolometer Applications	Manikandan E, Sreeja B S, Radha S,	Journal of Active and Passive Electronic Device	2017	19	0	SSN College of Engineering
Compact 4element SierpenskiiK nopp fractal UWB MIMO antenna with dual band notch	S. Rajkumar, K.T. and P.H. Rao, Selvan	Microwave and Optical Technology Letters,	2018	68	5	SSN College of Engineering
Quantization and Security Enabled Compressive Video CODEC for WSN,	V. Angayarkanni S. Radha	Multimedia Tools and Applications	2017	52	1	SSN College of Engineering
Relative	Dr.	Internatio	2017	25	4	SSN School

Strength Index for Developing Effective Trading Strategies in Constructing Optimal Portfolio	Srinivas Gumparthi	International Journal of Applied Engineering Research				of Management
Impact of service quality on service loyalty in strengthening customer relationship in telecom services	Dr. Vani Haridasan P, Dr. Kavitha Muthukumaran	International Journal of Mechanical Engineering and Technology	2018	3	0	SSN School of Management
Performance analysis of select companies in cement industry using various models	Dr. Kavitha Muthukumaran, Dr. Vani Haridasan	International Journal of Civil Engineering and Technology	2018	18	0	SSN School of Management
An insight on consumer engagement in Facebook brand pages	Dr. Jayasingh, S. and Dr. Venkatesh, R	International Journal of Applied Business and Economic Research	2018	11	0	SSN School of Management
Post content and its effect on consumer engagement rate in Indian life insurance Facebook brand pages	Dr. Sudarshan Jayasingh, Dr. T. Thiruvankadam, and S. Arunkumar	International Journal of Engineering Technology	2018	20	0	SSN School of Management
Optimization of Medicine Procurement	Dr. Vijaya Mani, and Vani Haridasan	International Journal of Engineering	2017	20	0	SSN School of Management

Process		g Technology				
Adsorption isotherm, kinetics and thermodynamic analysis of Cu (II) ions onto the dried algal biomass (Spirulina platensis)	E. Gunasundari, P. Senthil Kumar	Journal of Industrial and Engineering Chemistry, Vol. 56, pp. 129144, 2017	2017	60	16	SSN College of Engineering
A review on analytical methods and treatment techniques of pharmaceutical wastewater	A. Annam Renita, P. Senthil Kumar, S. Srinivas, S. Priyadarshini, M. Karthika	Desalination and Water Treatment, Vol. 87, pp. 160178, 2017	2017	40	2	SSN College of Engineering
Brain storm based Whale Optimization Algorithm for privacy protected data publishing in cloud computing	S. Thangaravathi, N. Ramaraj, S. Chithra	Cluster Computing	2018	35	0	SSNCE Chennai India
Image fusion for MODIS and Landsat images using top hat based moving technique with FIS	Swathika, R. Sharmila, T.S.	Cluster Computing	2018	35	0	Department of Information Technology SSN College of Engineering Chennai India
Enhanced Portable Text To Speech Converter For Visually Impaired	S. Chithra, N. Bhalaji	International Journal of Intelligent Systems Technologies and Applications	2018	15	0	Department of Information Technology, SSN College of Engineering

An Empirical Study of Feature Selection Methods over Classification Algorithms	N. Bhalaji, K.B. Sundharakumar, S. Chithra	International Journal of Intelligent Systems Technologies and Applications	2018	15	0	Department of Information Technology, SSN College of Engineering
A New Optimized Distributed Scheduling Service using Genetic Computing	A. Sandana Karuppan, N. Bhalaji, N. Ramaraj	Applied Mathematics and Information Sciences	2018	31	0	Department of Information Technology, SSN College of Engineering
Design of a Compressive Sensing based Fall Detection System for Elderly using WSN	V. Angayarkanni, V. Akshya, S. Radha	Wireless Personal Communication,	2017	48	2	SSN College of Engineering
Estimation of Glottal Closure Instants from Degraded Speech using a PhaseDifferenceBased Algorithm	G. Anushiya Rachel, P. Vijayalakshmi, T. Nagarajan	Computer, Speech, and Language	2017	62	1	Speech Lab, SSN College of Engineering, Chennai, India
Performance Optimization of Junctionless FET in Nano regime using Segmented Channel A 3D Numerical simulation study	Priscilla Scarlet, and R Srinivasan	Superlattices and Microstructures	2017	66	0	Department of IT, SSN College of Engineering, Kalavakkam, Tamilnadu, India
An Applications Interoperability Model	R. Vinobhander, Saswati Mukherjee,	Computers and Electrical Engineering	2017	49	4	Department of Information Technology, SSN

for heterogeneous Internet of Things Environments	Susan Elias	g				College of Engineering, Anna University, Chennai, Tamil Nadu, INDIA
Nanoscale Junctionless Devices Using RingFET Structure on Bulk Silicon Substrate	Scarlet, S, P, Srinivasan, R and Sasikala, P	International Journal of Electronic Letters (Taylor and Francis)	2017	5	0	Department of IT, SSN College of Engineering, Kalavakkam, Tamilnadu, India
SET and SEU performance of Single, Double, Triple and Quadruple Gate Junctionless FETs Using Numerical Simulations	N. Vinodh Kumar, and R. Srinivasan	Microelectronics Journal	2017	59	0	IT Department, Sri Sivasubramaniya Nadar (SSN) College of Engineering, Kalavakkam 603110, Tamil Nadu, India
Cluster-based agent routing algorithm for efficient data aggregation in wireless sensor network	Sasirekha Selvakumar, and Sankaranarayanan Swamynathan	Journal of Communications and Networks	2017	40	23	Department of Information Technology, SSN College of Engineering, Chennai, India
Dissipativity and stability analysis of fractional order complex valued neural networks with time delay	Velmurugan, G., Rakkaiyappan, R., Vembarasan, V., Cao, J., Alsaedi, A.	Neural Networks	2017	128	25	SSN College of Engineering
Quantification of Software	Boopathi, M., Sujatha,	Arabian Journal for	2017	33	1	SSN College of Engineering

Code Coverage Using Artificial Bee Colony Optimization Based on Markov Approach	R., Senthil Kumar, C., Narasimman, S.	Science and Engineering				g
Investigations on the Brain Connectivity Parameters for Comorbidities of Autism Using EEG	Vishnu Priya K, Kavitha A	International Journal of Software Science and Computational Intelligence	2018	0	0	Department of Biomedical Engineering, SSN College of Engineering, Chennai
Identification of Proximal Caries from Panoramic Dental X Rays Images	Harshini S, Hasini M S, Shenbagavalli A, Nirmala K	International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering	2018	0	0	Department of Biomedical Engineering, SSN College of Engineering, Chennai
Integrated Adsorption-Coagulation and Nano filtration of Textile Effluent Using Threestage Filtration Unit	Vanitha Priya D, Arun Karthicks, Sudharsan K, Arumugam P, Pandima Devi MK, Anuradha V	Global Scientific Journal	2018	0	0	Department of Biomedical Engineering, SSN College of Engineering, Chennai
Autonomous Indoor Navigation Robot	Jayaparvathy RF Sheeba Angel Nitin Barattwaj P, Srihaarika Vijippu, Srisruthis	International Journal of Engineering and Technology	2017	20	0	SSN College of Engineering
Completely integrated multilayered weave e	Esther F. Sundarsingh, Malathi Kanagasaba	International Journal of Microwave	2017	16	2	SSN College of Engineering

lectrotextile antenna for wearable applications	i and Vimal Samsingh Ramalingam	and Wireless Technologies				
EBG Backed Flexible Printed Yagi-Uda Antenna for OnBody Communication	B. Sakthi Abirami and Esther Sundarsingh	IEEE Transactions on Antenna and Propagation	2017	175	10	SSN College of Engineering
Transit Time Dependent Condition Monitoring of PCBs during Testing for Diagnostics in Electronics Industry	V. Ramalingam, M. Kagnasabai, Esther. Sundarsingh	IEEE Transactions on Industrial Electronics	2018	236	1	SSN College of Engineering
Infrared and visible image fusion using discrete cosine transform and swarm intelligence for surveillance applications	Nirmala Paramanandham, Kishore Rajendiran	Infrared Physics and Technology, Elsevier	2017	56	8	SSN College of Engineering
Efficient Multi Focus Image Fusion Technique Optimized Using MOPSO for Surveillance Applications	Nirmala Paramanandham, Kishore Rajendiran	International Journal of Intelligent Information Technologies, IGI Global	2018	14	0	SSN College of Engineering
Double image comp	Hanis, S Amutha, R,	Multimedia Tools and	2018	52	11	SSN College of

ression and encryption scheme using logistic mapped convolution and cellular automata		Applications				Engineering
Statistical analysis on ambient RF energy harvesting for low power wireless applications	Divya.I, Muthumeenakshi.K, S. Radha	International Journal of Communication Systems	2018	41	0	SSN College of Engineering
Handwritten text recognition system for English	G. Azhaguvarthani, B. Ramani,	International Journal of Pure and Applied Mathematics	2017	20	0	SSN College of Engineering
Web Enabled Plant Disease Detection System for Agricultural Applications Using WMSN	S.Aasha Nandhini, R.Hemalatha, Radha S, K.Indumathi	Wireless Personal Communication, Springer	2017	48	1	SSN College of Engineering
Energy efficient surveillance system using WWSN with reweighted sampling in modified fast Haar wavelet transform domain	Monika, R., Hemalatha, R. Radha, S.	Multimedia Tools and Applications	2018	52	0	SSN College of Engineering
Feature based Breast Cancer Detection	J. Shiny Christobel and C. Vinoth Kumar	Indian Journal of Scientific Research	2017	0	0	SSN College of Engineering

using Mammographic Images						
Feature Based Breast Cancer Detection using Discrete Wavelet Transform from Mammographic Images	J. Shiny Christobel and C. Vinoth Kumar	International Journal of Emerging Technology in Computer Science Electronics (IJETCSE)	2017	0	0	SSN College of Engineering
Patterning of Thin Film Copper and ITO on Flexible Substrates for Terahertz Antenna Applications	Manikandan Esakkimuthu Sreeja B S, Radha S, Abhishek Gupta, Goutam Rana, Prabhush	JLMN Journal of Laser Micro/Nano engineering	2017	24	0	SSN College of Engineering
Solar Power	E. Manikandan, G. Padmalaya, Sreeja B S, Radha S	Water and Energy International	2017	6	0	SSN College of Engineering
Compact and Flexible Monopole Antenna for Ultra Wideband Applications Deploying Fractal Geometry	Geetha, G., Sandeep, P., Alsath, M.G.N, Kanagasabai, M., Ramarao, T.,	Journal of Electrical Engineering and Technology	2018	22	2	SSN College of Engineering
A Low Profile Frequency and Pattern Reconfigurable Antenna	Y. Panneer Selvam., Elumalai, L., Alsath, M.G.N., K. Malathi, S. Kingsly, S. Subbaraj,	IEEE Antennas and Wireless Propagation Letters	2017	97	7	SSN College of Engineering
A Patch Slot Antenna	Y. P. Selvam, Alsath,	IEEE Antennas and	2018	97	1	SSN College of Engineering

Array with Compound Reconfiguration	M.G.N., K. Malathi, L. Elumalai, S. K. Palaniswamy, S. Subbaraj, S. Kingsly, G. Konganthan, I. K ulandhaisamy	Wireless Propagation Letters				g
An Integrated Triband/UB Polarization Diversity Antenna for Vehicular Networks	Alsath, M.G.N., A. Henridass, Y.P. Selvam, K. Malathi, S. Sangeetha, K. Saffrine, S. Ramprabhu, S. K. Palaniswamy, N. Rajesh	IEEE Transactions on Vehicular Technology	2018	146	4	SSN College of Engineering
Compact Multiservice Monopole Antenna for Tablet Devices	S. Subbaraj, K. Malathi, Alsath, M.G.N, Y. P. Selvam, S. Kingsly	International Journal of Electronics	2018	47	0	SSN College of Engineering
Particle Swarm Optimization aided Weighted Averaging Fusion Strategy for CT and MRI Medical Images	K Madheswari N Venkateswaran	International Journal of biomedical Engineering and Technology	2017	13	0	SSN College of Engineering
Multi-band reconfigurable microwave filter using dual concentric	S. Kingsly, K. Malathi, Alsath, M.G.N, Y. P. Selvam,	International Journal of RF and Microwave Computer Aided Engi	2018	35	0	SSN College of Engineering

resonators	S. Subbaraj, N. Rajesh,	neering				
Miniaturized QuadBand Coplanar Fed Monopole Antenna for Tablet Computers	S. Subbaraj, K. Malathi, Alsath, M.G.N., Y. Panneer Selvam., S. Kingsly, Y.V.Ramana Rao	COMPEL International Journal for Computation and Mathematics in Electrical and Electronic Engineering	2018	27	0	SSN College of Engineering
Selfie image superresolution using an implicit prior learned from self examples	W Jino Hans N Venkateswaran	Cluster Computing	2018	35	0	SSN College of Engineering
Analytic hierarchy processes for spectrum sharing in 5G new radio standard	R Kalidoss, M Saravanan, K Manikannan	Wireless Personal Communications	2018	48	7	SSN College of Engineering
Real Time Experimental Study and Analysis of Elliott Wave Theory in Signal Strength Prediction	KS Vishvak senan, R K alaiarasan, R Kalidoss, R Karthipan	Proceedings of the National Academy of Sciences, India Section A: Physical Sciences	2018	11	8	SSN College of Engineering
Isolation Enhancement in DualBand Microstrip Antenna Array Using Asymmetric Loop Resonator	B Lakshmi Dhevi, Kuttathati Srinivasan Vishvak senan, Kalidoss Rajakani	IEEE Antennas and Wireless Propagation Letters	2018	97	4	SSN College of Engineering

Optimized and low complexity power allocation and beamforming with full duplex in massive MIMO and smallcell networks	Selvam Paranche Damodaran, Vishvakshen an Kuttathati Srinivasan , Kalidoss Rajakani	The Journal of Supercomputing	2018	49	2	SSN College of Engineering
Security Improvement in Next Generation Wireless System by Interleaver in Transceiver Structures	B Partibane, R Kalidoss, R Karthipan	Journal of Cyber Security and Mobility	2017	7	2	SSN College of Engineering
Mitigation of cochannel interferences in cognitive multicarrier code division multiple access system by singular value decomposition techniques	I Nelson, C Annadurai, R Kalidoss, B Partibane	Cluster Computing	2018	35	8	SSN College of Engineering
Mitigation of mutual exclusion problem in 5G new radio standards by token and non token based algorithms	M Saravanan, R Kalidoss, B Partibane, R Karthipan	Cluster Computing	2017	35	6	SSN College of Engineering
Design of a bandwidth enhanced hybrid	Partibane B., Gulam Nabi Alsath M., Kalidoss	Circuit World	2017	19	2	SSN College of Engineering

slot loop antenna for GSM/UWB standards	Rajakani					
Formation of Sol Gel Dried Droplets of Carbon Doped Titanium Dioxide (TiO ₂) at Low Temperature via Electrospraying	SU Halimi, S Abd Hashib, NF Abu Bakar, SN Ismail, M Nazli Naim, N Abd Rahman, J Krishnan	IOP Conference Series: Materials Science and Engineering	2018	24	1	SSN College of Engineering
Enhanced adsorption capacity of biomass through ultrasonication for the removal of toxic cadmium ions from aquatic system : Temperature influence on isotherms and kinetics	A. Saravanan, P.Senthil Kumar, C. Femina Carolin, S. Sivanesan	Journal of Hazardous, Toxic, and Radioactive Waste, Vol. 21, Issue No. 3, pp. 124, 2017	2017	23	3	SSN College of Engineering
Prediction and interpolation of adsorption parameters for the sequestration of methylene blue dye from aqueous solution using microwave assisted corncob activated	V. Tharaneedhar, P. Senthil Kumar, A. Saravanan, C. Ravikumar, V. Jaikumar	Sustainable Materials and Technologies, Vol.11, pp. 111, 2017	2017	9	11	SSN College of Engineering

carbon						
HPTLC fingerprint profile, in vitro antioxidant and evaluation of antimicrobial compound produced from Brevibacillus brevis EGS9 against multidrug resistant Staphylococcus aureus	T. Arumugam, P. Senthil Kumar, K.P. Gopinath	Microbial Pathogenesis, Vol.102, pp. 166172, 2017	2017	62	3	SSN College of Engineering
Treatment of Municipal Wastewater using Scenedesmus abundans : Studies on saccharification of grown biomass using ultrasound assistance	T. Siva Kumar, P. Senthil Kumar	Desalination and Water Treatment, Vol. 89, pp. 94100, 2017	2017	40	0	SSN College of Engineering
Image Processing Techniques for Segments Grouping in Monaural Speech Separation	S Shoba and R Rajavel	Circuits, Systems, and Signal Processing	2017	41	0	SSN College of Engineering
Microwave assisted fast pyrolysis of corn cob, corn stover, saw dust and rice straw: Exp	C. Ravikumar, P. Senthil Kumar, S.K. Subhashni, P.V.Tejaswini, V.Varshini	Sustainable Materials and Technologies, Vol.11, pp. 1927, 2017	2017	9	10	SSN College of Engineering

Experimental investigation on biooil yield and high heating values						
Computation of adsorption parameters for the removal of dye from wastewater by microwave assisted sawdust: Theoretical and experimental analysis	S. Suganya, P. Senthil Kumar, A. Saravanan, P. Sundar Rajan, C. Ravikumar	Environmental Toxicology and Pharmacology, Vol.50, pp. 4557, 2017	2017	65	11	SSN College of Engineering
Impact of cutting forces and chip micro structure in high speed machining of carbon fiber - epoxy composite tube	Y. Allwinroy, K. Gobivel, K.S. Vijay Sekar, S. Suresh Kumar,	Arch. Metall. Mater	2017	25	2	SSN College of Engineering
A Novel Metamaterial Enhanced Microwave Testing System for Bare PCB Substrates Using Image Rendering Approach	V. R. Samsingh, M. Kanagasabai and E. F. Sundarsingh	IEEE Transactions on Components, Packaging and Manufacturing Technology	2017	39	1	SSN College of Engineering
Axial crash performance of pressformed open and end capped cylindrical	A. Praveen Kumar, M. Nalla mohamed, A. Jusuf, T. Dirgantara, L.	Thin Walled Structures	2018	73	9	SSN College of Engineering

1 tubes A comparative analysis	Gunawan					
Experimental investigation and optimization of abrasive water jet cutting parameters for the improvement of cut quality in carbon fiber reinforced plastic laminates	B Jagadeesh, P Dinesh Babu, M Nalla Mohamed and P Marimuthu	Journal of industrial Textiles	2018	31	1	SSN College of Engineering
Analysis and design of power conditioning circuit for piezoelectric vibration energy harvester	K. Savarimuthu R. Sankararajans. Murugesan	IET Science, Measurement Technology	2017	41	0	SSN College of Engineering
Antimicrobial activity of Mukiamaderasapattina stem extract of jujube seeds activated carbon against Gram positive / Gram negative bacteria and Fungi strains: Application in heavy metal removal	R. Gayathri, K.P. Gopinath, P. Senthil Kumar, A. Saravanan	Desalination and Water Treatment, Vol. 72, pp. 418427, 2017	2017	40	0	SSN College of Engineering
A simplified model for	K. Anish Kumar, P. Senthil	Sustainable Materials	2017	9	4	SSN College of Engineering

evaluating best biodiesel production method: Fuzzy analytic hierarchy process approach	Kumar, Sai Madhusudan, Vignesh Pasupathy, P.R. Vignesh, A. R. Sankaranarayanan	and Technologies, Vol.12, pp. 1822, 2017				g
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3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	56	101	58	34
Resource persons	40	47	73	38
Presented papers	140	21	1	1

3.4 – Extension Activities

3.4.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Street Play on Environmental Awareness	Environmental foundation of India	1	10
Aid India Eureka Marathan	Aid India	1	50
Skill Fest	Aid India	1	30
Coastal Clean up	Environmental foundation of India	1	35
Dengue Awareness Rally	Govt. Primary Health Centre. Kelambakkam	1	50
Ground Water Survey	Sub Collector, Chengalpet	1	20
Food Safety Awareness Talk	FSSAI	1	50
Lake Safari	Environmental foundation of India	1	25
Lake Clean up	Environmental foundation of India	1	25
NSS Conclave	Yuva sakthi	1	100
Polio Immunization	Primary Health Centre, Kelambakkam	1	30
Public Library Volunteering	Roja Muthaiah Research Library	1	40

Turtle Walk	Chennai Trekkers Club	1	10
Voters Registration camp	Election Dept.	1	15

3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
NSS	Best SSN unit	Anna University	200
Smart India Hackathon	First Prize	AICTE	35

3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Lake Clean up	Environmentalists Foundation of India	Lake Clean up	1	25
Street Play on Environmental Awareness	Environmentalists foundation of India	Street Play on Environmental Awareness	1	10
Coastal Clean up	Environmentalists foundation of India	Coastal Clean up	1	35
Dengue Awareness Rally	Govt. Primary Health Centre. Kelambakkam	Dengue Awareness Rally	1	50

3.5 – Collaborations

3.5.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
Research Collaboration	Adhiparasakthi Engineering College	SSN Trust	12
Characterization studies at NPL, New Delhi	DR. PR and Phd students	DR. PR and Phd students	1
Student Exchange	Malena Farber, Ashley Bishop, Amin Nadim	Drexel University	3
Research Scholar Exchange	Ms.Vidhusha S	Drexel University	3
Internship	Students	Industry	3
Field Trip	Students	SSNCE	1
Research projects	Students and Faculty	Industry	6
Research Collaboration	Anna University	SSN Trust	12

Research Collaboration	TNPCC, Chennai	SSN Trust	12
Research Collaboration	SRM Institute of Science and Technology	SSN Trust	12
Research Collaboration	VNIT Nagpur	SSN Trust	12
Research Collaboration	Sathyabama Institute of Science and Technology	SSN Trust	12
Research Collaboration	King Saud University, Saudi Arabia	SSN Trust	12
Research Collaboration	King Saud University, Saudi Arabia	SSN Trust	12
Research Collaboration	University of Louisiana at Lafayette	SSN Trust	12
Research Collaboration	University of Louisiana at Lafayette	SSN Trust	12
Research Collaboration	Gujarat Pollution Control Board	SSN Trust	12
Research Collaboration	Rajalakshmi Engineering College	SSN Trust	12
Research Collaboration	VIT Vellore	SSN Trust	12

3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Hospital training	Hospital training	Chennai National hospital	12/06/2017	17/06/2017	Nivedha.S
Research	Functional connectivity analysis in Autism	Dr. Vijayalakshmi, NIEPMD	02/01/2017	29/06/2018	Dr. A. Kavitha, Ms. Vidhusa
Research	Cerebral Hemispherical Lateralization Differences in Autism	Professor Hualou Liang, Drexel School of Biomedical	02/01/2017	31/12/2018	Dr. A. Kavitha, Ms. Vidhusa

	Spectrum Disorders	Engineering, Philadelphia , USA			
Project training	Project training	DEBEL, Defence Research and Development Organisation (DRDO)	26/11/2017	22/12/2017	Meghna Murali K.T
Internship	Internship	DEBEL, DRDO	27/11/2017	23/12/2017	Divya. R
Project	Isolation and screening of microbes for enzyme production	Shri A.M.M Murugappa Chettiar Research Centre	27/11/2017	07/12/2017	Apurva S, Viswanath.S
Project	Utilization of algal biomass for microbial cultivation	MCRC	27/11/2017	07/12/2017	Praveen Kumar G
Internship	Internship	Pantech technologies	27/11/2017	02/12/2017	Deepa
Internship	Internship	Panren group of company	28/11/2017	02/12/2017	Vedavalli nivetha . S
Internship	Internship	Pantech proed	28/11/2017	02/12/2017	S.Subashini
Electronics internship	Electronics internship	Kaashiv infotech	01/12/2017	05/12/2017	Aishwarya R, Se. Durgaadevi
Implant and intern	Implant and intern	Kaashiv infotech	01/12/2017	05/12/2017	Saranya T
Project	Matlab Image processing	Spiro solutions	04/12/2017	08/12/2017	Suhashine S
Project	Study Of MATLAB Image processing	Spiro Solutions Private Limited	04/12/2017	08/12/2017	T Akshara Reddy
Hospital Training	Hospital Training	Kauvery Hospitals	04/12/2017	08/12/2017	S Pavithran
Internship	Internship	Cancer institute adyar chennai	04/12/2017	09/12/2017	Kavya vijaya Kannan
Internship Training	Internship Training	Apollo Speciality Hospitals ,Madurai	04/12/2017	08/12/2017	Prem Aravindan J
Internship in the field of	Internship in the field of	Cancer Institute (WIA)	04/12/2017	09/12/2017	N.Kirthana

Biochemistry	Biochemistry	Chennai, Adyar			
Workshop completion	Workshop completion	Kaashiv infotech	05/12/2017	05/12/2017	Saranya T
Internship	Internship	Ramachandra university	06/12/2017	11/12/2017	Sandhanakrishnan.R
In plant training	In plant training	Sri Ramachandra Medical Centre	06/12/2017	11/12/2017	Varsha sriram, Nithya Mylakumar.M
Internship	Internship	Admatic Solutions	13/11/2017	13/01/2018	3
Internship	Internship	Amazon	13/11/2017	02/02/2018	3
Internship	Internship	AjiraSoft	04/12/2017	27/12/2017	1
Internship	Application development	Uber9 Business Process services Pvt Ltd	05/06/2017	28/07/2017	1
Internship	Application development	SPI Cinemas Pvt	06/07/2017	07/07/2017	1
Internship	Application development	Tata Consultancy Services Ltd.,	12/06/2017	11/07/2017	1
Internship	Application development	KRIMS hospital	27/11/2017	06/12/2017	1
Internship	Application development	United India Insurance Co. Ltd	01/12/2017	05/01/2018	3
Internship	Application development	IIT Madras	18/12/2017	25/12/2017	2
Internship	Application development	KOGNIFY	18/12/2017	25/12/2017	1
Internship	Application development	Prakiya Green wisdom school	18/12/2017	25/12/2017	1
Internship	Application development	SIRIUS COMPUTER SOLUTIONS	02/01/2018	23/03/2018	2
Internship	Analysis Design of Process Structure	Dow Chemicals	14/05/2018	06/07/2018	S Saranya, P Shobana
Internship	360° Assessment on Façade stability	Saint Gobain	01/06/2017	21/07/2017	Akshay Krishnan
Intern	Intern at Ashok	Ashok Leyland	13/12/2017	23/12/2017	2

	Leyland				
In Plant Training	In Plant Training	Chennai Petroleum Corporation	13/12/2017	23/12/2017	1
Internship	Internship	IIT	19/06/2017	15/07/2017	1
Intern	Intern	Lucid Software Ltd	19/06/2017	04/07/2017	1
Intern	Intern	Swadha Energies Pvt Ltd, Taramani, Chennai	19/06/2017	12/07/2017	4
Intern	Intern	Auckam Electronics	19/06/2017	07/07/2017	1
Internship	Internship	ICF	19/06/2017	20/06/2017	1
Internship	Internship	Culture Machine Media Pvt.Ltd	19/06/2017	14/07/2017	1
In Plant Training	In Plant Training	CPCL	25/06/2018	29/06/2018	1
Internship	Internship	DOW chemicals	02/07/2018	06/07/2018	1
In Plant Training	In Plant Training	BHEL , Ranipet	25/06/2018	29/06/2018	1
Internship	Internship	Zyklar technologies private limited	25/06/2018	28/06/2018	1
In Plant Training	In Plant Training	North Chennai Thermal Power StationI	03/07/2018	06/07/2018	2
Internship	Quality Department	Schneider Electronics India Pvt. Ltd.	18/06/2018	23/06/2018	Akshya Rajesh
Internship	Internship	IITM	06/12/2017	06/01/2018	Kirthana M, Abarna R
Internship	Internship	Siemens , Puducherry	18/12/2017	22/12/2017	Aniruddh Balaji R, Jerome Jayakar S A
Internship	Internship	Tata Elxsi	17/11/2017	24/12/2017	1
Internship	Internship	NetworkGeek	18/12/2017	24/12/2017	1
Internship	Application development	KUMOLUS INDIA pvt ltd	28/06/2018	30/06/2018	1

Inplant training with mini project	Inplant training with mini project	NSICTechnical Services Centre	12/06/2017	16/06/2017	S.Apurva
Internship	Internship	National Institute of Technology, Raipur	24/11/2017	06/12/2017	Arun Kumar K
Internship	Internship	Thoht Delta Research Centre	20/11/2017	31/12/2017	1
Internship	Internship	Intellect Design Arena	24/11/2017	05/01/2018	1
Internship	Internship	HTC Institute for Technology Management Research	22/11/2017	23/12/2017	1
Internship	Internship	SPI Cinemas Private Limited	10/12/2017	10/01/2018	2
Field Trip	Field Trip	Manatec Electronics Pvt Ltd, Pondichery	25/07/2017	25/07/2017	44
Field Trip	Field Trip	National Institute of Ocean Technology (NIOT), Chennai	22/08/2017	22/08/2017	120
Field Trip	Field Trip	Manatec Electronics Pvt Ltd, Pondichery	26/07/2017	26/07/2017	26
Using SRM Instrument facilities	Collaboration work	SRM University	06/11/2017	30/06/2018	B. Neppolian, M. Mahalakshmi
Using Instrument facilities	Collaboration work	IISER, Pune	01/07/2017	30/06/2018	A. Murugesan Prof. S. Sivaram
Using Instrument facilities	Collaboration work	CSIRNCL, Pune	01/07/2017	30/06/2018	A. Murugesan Prakash P. Wadgaonkar
Project Work	Collaboration work	Manipal Institute of Technology, MAHE, Manipal, Karnataka	01/07/2017	30/06/2018	A. Murugesan Gurumurthy S C

Project	Design of biocompatible implant for the closure of Post discectomy void and rent	Dr G Sudhir, Orthopedic Surgeon, Sri Ramachandra Medical College, Porur, Chennai	04/12/2017	24/04/2018	Dr A Kavitha, Krian Kailash S , Rathi Adarshi R
Project training	Project training	DEBEL, Defence Research and Development Organisation (DRDO)	26/11/2017	22/12/2017	Meghna Murali K.T
Internship	Internship	DEBEL, DRDO	27/11/2017	23/12/2017	Divya. R
Project training	Project training	Shri A.M.M Murugappa Chettiar Research Centre	27/11/2017	07/12/2017	Apurva S
Project training	Project training	Ssn organisation	27/11/2017	07/12/2017	Viswanath.S
Project training	Project training	MCRC	27/11/2017	07/12/2017	Praveen Kumar G
Internship	Internship	Pantech technologies	27/11/2017	02/12/2017	Deepa
Internship	Internship	Panren group of company	28/11/2017	02/12/2017	Vedavallinivetha . S
Internship	Digital VLSI Design	IIT Guwahati	12/06/2018	02/07/2018	Keerthana Ravi
Internship	Take note Tactograph	IIT Madras	14/05/2018	13/07/2018	Kashyap Ravi nchandran
Internship	Competency Development in ICET - Level IV	United Electronics	14/05/2018	08/06/2018	V.Nilavathan i
Internship	Building technologies for next generation intelligent, autonomous unmanned aerial robots	NavStik Autonomous Systems	16/05/2018	13/07/2018	Rakesh Vivekanandan
Internship	Electrical insulation of Aluminium Winding wires strips	Hyderabad Insulated Wires Pvt. Ltd	10/05/2018	08/06/2018	Aadesh Samdaria
Internship	Overview of the	Larsen Toubro	15/05/2018	14/06/2018	Ajay Nair

	Operations Management in Smart World Communication				
Internship	Ocean Electroics	NIOT	25/05/2018	27/06/2018	O.S. Sarjana
Internship	Operation of ultrasonicator, centrifuge, UVVis spectrophotometer, FTIR, DLS	Central University of Gujarat	19/06/2018	27/07/2018	Shreya Gaur
Internship	UX Writer	Moon Product	01/06/2018	30/11/2018	A.Kishore
Internship	Web page creation for IoT based OEE Project	Nokia SolutionsNSN, Oragadam, Chennai	16/05/2018	15/06/2018	Gali Kavya Shree Sai
Internship	Internship	Siemens technologies	18/12/2017	23/12/2017	Bhargav Mohan
Internship	Acceleration of deep convolutional neural networks for object detection on resource constrained devices	IITHHyderabad	07/05/2018	24/07/2018	S.Savitha
Internship	Application of advanced video processing for motion and pulse detection	CSIRCEERI centre, Chennai	24/11/2017	22/12/2017	P.Anusha S.A mirthavarshini
Internship	Bluetooth technology, IoT, Voice control robotics	AltSense	20/11/2017	20/12/2017	Yogesh V Narayan, Shaktivelu.J
Internship	Optimized video and audio transfer on android platform using media SDK	Robert Bosch Engineering business solutions Pvt.Ltd, Bangalore	04/12/2017	29/12/2017	Nikhilesh.N
Internship	Web UI	Chargebee Technologies Pvt.Ltd	27/11/2017	05/01/2018	Kiruthika kannan

Internship	Database Management systems	TATA Consultancy Services	12/06/2017	07/07/2017	Mohana Mouli Krishnan
Internship	Web development	TATA Consultancy Services	12/06/2017	07/07/2017	Lavanya.K.M
Internship	Signal beamforming using XILINX VIRTEX 6FPGA	Bharat electronics limited	14/06/2017	11/07/2017	Krishna.S
Internship	Face recognition	Tata consultancy services	12/06/2017	07/07/2017	Elakhya N
Internship	Adapts for Lobby LCDs website images and hack for cinema logo	SPI cinemas private Ltd , Chennai	12/06/2017	07/07/2017	Monisha G
Internship	Internship	WOLLTE	21/12/2017	27/12/2017	1
Internship	Designing an arduino based wireless system for data acquisition in EIT technique	CSIRCEERI centre	08/06/2017	11/07/2017	Vijayalakshmi M
Internship	Design of WiFi modules for IOT interface and smart automation	CSIRCEERI centre	08/06/2017	12/07/2017	Praveen Narayan, Jayavanta Shakthi Poorna
In plant training	In plant training	Sri Ramachandra Medical Centre	06/12/2017	11/12/2017	Varsha sriram, Nithya Mylakumar.M
Internship	Internship	IITM	06/12/2017	06/01/2018	Kirthana M, Abarna R
Internship	Internship	Siemens technologies	18/12/2017	22/12/2017	Aniruddh Balaji R, Jerome Jayakar S A, Bhargav Mohan
Training	Bridge 2018	Autodesk	28/03/2018	28/03/2018	Viswanath.S
Inplant training	Inplant training	Cancer Institute, Adyar	21/05/2018	25/05/2018	P.Kawya, S SRIJA
Inplant training	Inplant training	Uniq technologies	27/05/2018	31/05/2018	S.N.Jaya Sree,

					Deepa.s, Vedavalli Nivetha . S, S.Subashini
Internship	Internship	Kauvery hospital	06/06/2017	06/12/2017	Harshni V
Training	Prosthesis and Orthopedic inplant training.	Sun orthotics	06/08/2017	06/12/2017	viswanath.s
Internship	Improvement in DPMO Metrics	Continental Automotive Components (India) Pvt. Ltd.	14/05/2018	08/06/2018	S.R. Krithig aRajan
Internship	Improvement of FPY in ICT station	Continental Automotive Components (India) Pvt. Ltd	04/05/2018	08/06/2018	A. Krithika
Internship	Improvement of PCB handling Storage	Continental Automotive Components (India) Pvt. Ltd.	14/05/2018	08/06/2018	M. Mahalakshmi
Internship	Application development	Prakiya Green wisdom school	18/12/2017	25/12/2017	1
Internship	Application development	SIRIUS COMPUTER SOLUTONS	02/01/2018	23/03/2018	2
Internship	Application development	Zilker Technology	02/01/2018	31/03/2018	2
Internship	Datacenter Operations	Trimax IT In frastructure service Ltd.	22/05/2018	31/05/2018	M.Kirubakara n, S.R.Deepak, B.KishoreKar thic S.Abishekh
Internship	Application development	IIT madras	28/06/2018	04/07/2018	2
Internship	Training in the Electronics Department	Airport Authority of India	04/06/2018	11/06/2018	Adithya Prem Anand, S. AnirudVelan, C.N. Dinesh kumar, A.Muthu Kumaran P.Abhishek
Internship	Application development	TCS	28/06/2018	04/07/2018	7

Internship	SCADA, optical fiber communication, PC Lab, Grid Relay Test and AIS/GIS substation aspects	Tamilnadu Transmission Corporation	21/05/2018	25/05/2018	M.Jeyaram G.Karthick
Internship	Web App Development TATA Consultancy Service	TATA Consultancy Service	24/05/2018	25/07/2018	Keshav subramaniam, A.L.Arunachalam, R.Reshma Immaculate P.Anusha
Internship	Image Processing at TATA Consultancy Service	TATA Consultancy Service	24/05/2018	25/07/2018	S.Pramodh Kumar
Internship	Designing an arduino based wireless system for data acquisition in EIT technique	CSIRCEERI centre	08/06/2017	12/07/2017	Saranya L
Internship	Fatigue diagnosis project	CSIRCEERI centre	08/06/2017	05/07/2017	Prakash V Ravishankar R
Internship	Integrating advanced analytical instruments with cloud	CSIRCEERI centre	08/06/2017	05/07/2017	Naveen narayanan M Somasundar S
Internship	Design of XBEE modules for IOT	CSIRCEERI centre	08/06/2017	05/07/2017	Sivasankar P KushalMullagiri
Internship	Image and video reconstruction from event - based cameras using dictionary learning	IIT Madras	08/06/2017	09/07/2017	Srivaishnavi
Internship	Computer division	Indira Gandhi centre atomic	12/06/2017	05/07/2017	Gayathri Gopal

		research			
Internship	Human resources	Siemens ltd	08/06/2017	07/07/2017	Niveditha Shankar Sruthi K
Internship	Exponential organization workshop, internet Hackathon and rated W	SPI Cinemas	12/06/2017	07/07/2017	Shyam Sundar R
Internship	Graphics design and UI/UX design	SPI Cinemas	12/06/2017	05/07/2017	Vignesh V
Internship	Optimization of Compressive sensing in IOT Wireless sensor networks	CSIRCEERI	08/06/2017	11/07/2017	B.Varshini
Internship	Head mount display hardware layout design	IIT Madras	16/05/2017	13/07/2017	Swati Ravichandran
Internship	Human Resource	UBER 9	08/06/2017	14/07/2017	Ms.V.Shruthie
Internship	Convolutional Sparse coding and Light Field Imaging	IIT Madras	26/06/2017	21/07/2017	Shrinidhi.V
Internship	Compressive light field sensing	IIT Madras	15/05/2017	29/07/2017	Vijayalakshmi.K
Internship	Image Processing	IIT Madras	15/05/2017	15/08/2017	Sanjana.S.Mallya
Internship	Networking	Mxwell Global Software	12/06/2017	07/07/2017	D.S.Karthika
Internship	Scheduling tensor flow graphs for optimal execution	Indian Institute of Science (Narendra Summer Internship Program)	07/06/2017	31/07/2017	Satchit Sivakumar
Internship	Development of noncontact respiratory rate monitor	HTICIIT Madras	05/06/2017	10/07/2017	Savitha Srinivasan
Internship	Image	IIT Madras	07/06/2017	07/07/2017	Pranamika B

	Processing				
Internship	Growth Hacker	Crayon digital reach pvt ltd	07/06/2017	07/07/2017	Rakshana S
Internship	IOT and smart alcohol deduction with ignition breaking system	CSIRCEERI centre	12/06/2017	11/07/2017	Shakthivelu J Yogesh V Narayan
Internship	Internship	SAP Labs	26/10/2017	06/07/2018	1
Joint MS Course	MS in Biomedical Engineering	Dr. Vivek Indramohan and Prof. Loiuise Tomer, Birhingham City University, UK	02/01/2017	31/12/2018	Dr. A. Kavitha and Dr. Vijay
Internship	Internship	Kauvery Hospital	06/06/2017	06/12/2017	Sahana V
Internship	Internship	Pantech proed	28/11/2017	02/12/2017	S.Subashini
Summer Internship	Summer Internship	Billroth Hospitals , Chennai	24/07/2017	30/07/2017	Viswath Narayanan R
Inplant training	Inplant training	Barola technologies	05/10/2017	06/10/2017	Gayathiri.R. R, G.Aghil Kavya
Internship	Application development	FRESHWORKS	08/01/2018	28/02/2018	3
Internship	Application development	Dvita Solutions	16/01/2018	16/04/2018	2
Internship	Application development	8K Miles Software Services	16/05/2018	13/07/2018	1
Internship	Application development	Imagingors	16/05/2018	16/07/2018	1
Internship	Application development	Mad Street Den Technologies Ltd.	17/05/2018	17/08/2018	1
Internship	Application development	Ramco Systems	21/05/2018	21/07/2018	1
Internship	Application development	BeeBox Studios	24/05/2018	15/07/2018	1
Internship	Internship	ChargeBee	27/11/2017	16/01/2018	1

Internship	Internship	IIT Madras	11/12/2017	10/01/2018	5
Internship	Application development	Renovite Technologies	25/05/2018	04/07/2018	1
Internship	Application development	Nihon Technology Private Ltd.	28/05/2018	28/06/2018	1
Internship	Application development	NPCI Summer Intern	01/06/2018	01/08/2018	1
Internship	Application development	Adya Sports Tech Private Ltd.	28/06/2018	04/07/2018	7
Internship and implant training ,participated in the technical talk on virtual reality	Internship and implant training ,participated in the technical talk on virtual reality	National small industries corporation limited	12/06/2017	16/06/2017	Sangeetha.B
Implant Training on Electrical, Electronics IT installations	Implant Training on Electrical, Electronics IT installations	AIRPORTS AUTHORITY OF INDIA	12/06/2017	16/06/2017	N.Kirthana
Inplant Training	Inplant Training	Kauvery hospital	13/06/2017	17/06/2017	Devayani S
Inplant training	Inplant training	Global health city	10/07/2017	15/07/2017	Deepa.s
Internship	Internship	Gleneagles Global Health City	10/07/2017	15/07/2017	Nagalakshmi. K
Internship	Internship	Gleneagles Global health city	10/07/2017	15/07/2017	M.Santhiya
Internship	Internship	Gleneagles Global health city	10/07/2017	15/07/2017	S.N.Jaya Sree
Internship	Internship	Gleneagles Global health city	10/07/2017	15/07/2017	S.Kanimozhi
Internship	Internship	Gleneagles global health city	10/07/2017	15/07/2017	Jayapradha.R , Vedavalli Nivetha . S
Inplant Training	Inplant Training	Uniq technologies	15/07/2017	30/07/2017	Devayani S, Anitha M, Dharani U, S.Ancy Carshia
Internship	Internship	Siemens	16/07/2017	28/07/2017	Sangeetha.B

		building technologies, pondicherry			
Internship	Internship	Billroth Hospital	24/07/2017	30/07/2017	Nissy Elan S haji,M.Rajal akshmi, Nivedha.S, D.Yaamini, Viswath Narayanan R
Inplant training	Inplant training	Barola technologies	10/05/2017	10/06/2017	Gayathiri.R. R, G.Aghil Kavya
Electronics internship.	Electronics internship.	Kaashiv infotech	01/12/2017	05/12/2017	Aishwarya R, Saranya T, Se. Durgaadevi
Training	Matlab Image processing	Spiro solutions	04/12/2017	08/12/2017	Suhashine S
training	Study Of MATLAB Image processing	Spiro Solutions Private Limited	04/12/2017	08/12/2017	T Akshara Reddy
Hospital Training	Hospital Training	Kauvery Hospitals	04/12/2017	08/12/2017	S Pavithran
Internship	Internship	Cancer institute adyar chennai	04/12/2017	09/12/2017	Kavya vijaya Kannan, N.Kirthana
Internship Training	Internship Training	Apollo Speciality Hospitals ,Madurai	04/12/2017	08/12/2017	Prem Aravindan J
Training	Workshop completion	Kaashiv infotech	05/12/2017	05/12/2017	Saranya T
Internship	Internship	Ramachandra university	06/12/2017	11/12/2017	Sandhanakrishnan.R
Internship	Side Channel Analysis on Secure Crypto Primitives	Society for Electronics Transactions and Security	14/05/2018	06/07/2018	S.Varsha
Internship	Automation	IIT Madras	25/06/2018	29/06/2018	Harini Balasubramaniyam
Internship	Application development	Uber9 Business Process services Pvt Ltd	06/05/2017	28/07/2017	1
Internship	Application development	SPI Cinemas Pvt	06/07/2017	07/07/2017	1

Internship	Application development	Tata Consultancy Services Ltd.,	12/06/2017	11/07/2017	1
Internship	Application development	KRIMS hospital	27/11/2017	06/12/2017	1
Internship	Application development	United India Insurance Co. Ltd	01/12/2017	05/01/2018	3
Internship	Application development	IIT Madras	18/12/2017	25/12/2017	2
Internship	Application development	KOGNIFY	18/12/2017	25/12/2017	1
Internship	Internship	SCCIP, Japan	18/11/2017	08/01/2018	1
Project	Measurement of gait and vital parameters using wearable insole system	Dr.R.Saraswathi, Senior Scientist, Gait Lab, CLRI, Adyar, Chennai, Email: saraswathyg@clri.res.in, Phone:91 44 24437290	04/12/2017	24/04/2018	Dr.S.Bagyara j, M. Abhinaya, S. Deepika, Kertana.S
Project	Analysis of cognitive processing in dyslexic	Dr.Sakthi MBBS, MD - Paediatrics	04/12/2017	24/04/2018	Aashika Nandakumar, Abinaya.S, Divya raghavi.N
Project	Identification of proximal caries using dental panoramic radiographs	Dr.M.S.Priyanka, BDS, Mahathma Gandhi Dental College, Pondicherry.	04/12/2017	24/04/2018	S.Harshini, A .Shenbagavalli, M S.Hasini
Internship	Application development	crazy buggs	28/06/2018	04/07/2018	1
Internship	Application development	Global Analytics	28/06/2018	04/07/2018	2
Project	Automated detection of malarial parasite in microscopic blood images using image analysis	Dr.R.Veena, M.D.Pathology, Assistant Professor, Department of Pathology, SRM Medical college Hospital and Research Centre, Chenna	04/12/2017	24/04/2018	Anjali S, Manasvi S, Sai Aarthi Ganesh

Research	Cognitive performance of autistic children	Dr. Udaykumar, Senior Consultant, Department of Paediatrics	01/06/2017	31/12/2018	Dr. A. Kavitha, Ms. Divya
Internship	Internship	Outofshop Online services	21/11/2017	31/12/2017	1
Internship	Internship	PIND Consultants	29/11/2017	28/12/2017	1
Internship	Internship	GUVI GEEK Technologies	26/11/2017	05/01/2018	2
Internship	Internship	TCS	27/11/2017	27/12/2017	1
Internship	Internship	Assess People	03/12/2017	27/12/2017	1
Internship	Internship	Blackboard Technology Ltd	25/11/2017	15/12/2017	1
Internship	Internship	Gleneagles Global health city	06/10/2017	07/12/2017	S.Subashini
Inplant training	Inplant training	SRM Institutes for medical science	12/06/2017	19/06/2017	Sowmiya B
Inplant training	Inplant training	SRM Institutes for medical science	12/06/2017	19/06/2017	Anitha M
Inplant training with mini project	Inplant training with mini project	NSIC Technical Service Centre	12/06/2017	16/06/2017	Kirthana.M
Inplant training	Inplant training	NSIC technical services	12/06/2017	16/06/2017	Abarna R

3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
DIAT, Pune	18/01/2018	Academic and Research Relationship	1
Brimingham University, UK	11/10/2017	Research promotions, students and faculty mobility, collaboration in	30

		seminars, workshops and other academic meetings	
Drexel University, Philadelphia, USA	31/05/2017	Research promotions, students and faculty mobility, collaboration in seminars, workshops and other academic meetings	5
Carleton University, Canada	17/11/2017	Academic and Research relationship	0
Preethi Kitchen Appliances	01/04/2018	NDA for Projects carried out with them	14
Preethi Kitchen Appliances	01/06/2018	Internships, Projects, Workshops, Guest Lectures	15
Vimana Technologies Pvt. Ltd (Group Company of AspecScireInc), Bangalore	13/02/2017	Sponsorship for technical events • Setting Engineering lab • Personnel Exchange • Accessing to laboratories and product testing methods • Joint RD	6
ACI Automation Private Limited	15/09/2017	Joint RD	8
Intellect Design Arena Limited	27/09/2017	Industrial Research Project Work	8

CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
2165	1853

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Newly Added
Laboratories	Newly Added
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Classrooms with Wi-Fi OR LAN	Existing
Seminar halls with ICT facilities	Existing

Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added

4.2 – Library as a Learning Resource

4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
KOHA	Fully	16.05.05.000	2000

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	76107	41858850	4356	1763307	80463	43622157
Reference Books	3335	20010000	44	344285	3379	20354285
e-Books	0	0	921	296446	921	296446
Journals	0	0	250	5679712	250	5679712
e-Journals	0	0	6083	6901102	6083	6901102
Digital Database	0	0	10	6901102	10	6901102
CD & Video	398	219307	0	0	398	219307
Library Automation	2	230625	0	0	2	230625
Others (specify)	2	20000	0	0	2	20000

4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Ms R Nithya	EC8251 Circuit Analysis	SSN Intranet	04/12/2017
Dr. S. Arun Karthick	BM 6401 Medical Physics	SSN Intranet	04/12/2017
Dr. V. Mahesh	BM 6403 Analog and Digital ICs	SSN Intranet	04/12/2017
Dr. R. Subhasini	BM 6404 Pathology and Microbiology	SSN Intranet	04/12/2017
Ms. M. Dhanalakshmi	CS 6304 Analog and Digital Communication	SSN Intranet	04/12/2017
Ms. K. Nirmala Ms. R. Nithya	BM6601 Radiological Equipments	SSN Intranet	04/12/2017
Dr. Sachin	BM6602 Bio Mechanics	SSN Intranet	04/12/2017

Dr. S. Bagyaraj	BM6603 Diagnostic and Therapeutic Equipments II	SSN Intranet	04/12/2017
Dr. J. Vijay	EC 6502 Principles of Digital Signal Processing	SSN Intranet	04/12/2017
Ms. B. Divya	BM6002 Biometric Systems (E1)	SSN Intranet	04/12/2017
Dr. S. Arun Karthick	BM 6801 Rehabilitation Engineering	SSN Intranet	04/12/2017
Ms. K. Nirmala	BM 6010 Assist Devices	SSN Intranet	04/12/2017
Dr. B. Geethanjali	GE6075 Professional Ethics in Engineering	SSN Intranet	04/12/2017
Dr. L. Suganthi	BM 6012 Wearable systems	SSN Intranet	04/12/2017
Dr. A. Kavitha	BM5291 Applied Medical Image Processing	SSN Intranet	04/12/2017
Dr. B. Geethanjali	MX5201 Medical Imaging and Radio Therapy	SSN Intranet	04/12/2017
Dr. Sachin	MX5202 Biomechanics	SSN Intranet	04/12/2017
Ms. B. Divya	MX5203 Healthcare and Hospital equipment management	SSN Intranet	04/12/2017
Dr. L. Suganthi	MX5092 BIOMEMS	SSN Intranet	04/12/2017
Dr. V. Mahesh Ms. M. Dhanalakshmi	BM5391 Rehabilitation Engineering	SSN Intranet	04/12/2017
Dr. R. Subashini	BM6301 Biochemistry	SSN Intranet	02/07/2018
Ms. N. Laxmi	EC6303 Signals and Systems	SSN Intranet	02/07/2018
Dr. S. Bagyaraj	BM6302 Sensors and Measurements	SSN Intranet	02/07/2018
Dr. Sachin	BM6303 Anatomy and Human Physiology	SSN Intranet	02/07/2018
Dr. A. Kavitha	BM6501 Bio Control Systems	SSN Intranet	02/07/2018
Ms. N. Laxmi	BM6502 Diagnostic and Therapeutic Equipment I	SSN Intranet	02/07/2018
Dr. S. Arun Karthick	BM6503 Bio Materials and Artificial Organs	SSN Intranet	02/07/2018
Ms. B. Divya	BM6504 Biomedical	SSN Intranet	02/07/2018

	Instrumentation		
Dr. L. Suganthi	EC6504 Microprocessor and Microcontroller	SSN Intranet	02/07/2018
Dr. J. Vijay	MD6501 Hospital Management	SSN Intranet	02/07/2018
Dr. R. Subashini	BM6301 Biochemistry	SSN Intranet	02/07/2018
Ms. N. Laxmi	EC6303 Signals and Systems	SSN Intranet	02/07/2018
Dr. S. Bagyaraj	BM6302 Sensors and Measurements	SSN Intranet	02/07/2018
Dr. Sachin	BM6303 Anatomy and Human Physiology	SSN Intranet	02/07/2018
Dr. A. Kavitha	BM6501 Bio Control Systems	SSN Intranet	02/07/2018
Ms. N. Laxmi	BM6502 Diagnostic and Therapeutic Equipment I	SSN Intranet	02/07/2018
Dr. S. Arun Karthick	BM6503 Bio Materials and Artificial Organs	SSN Intranet	02/07/2018
Ms. B. Divya	BM6504 Biomedical Instrumentation	SSN Intranet	02/07/2018
Dr. L. Suganthi	EC6504 Microprocessor and Microcontroller	SSN Intranet	02/07/2018
Dr. J. Vijay	MD6501 Hospital Management	SSN Intranet	02/07/2018
Dr. V. Mahesh	BM6701 Pattern Recognition and Neural Networks	SSN Intranet	02/07/2018
Dr. R. Subashini	BM6301 Biochemistry	SSN Intranet	02/07/2018
Ms. N. Laxmi	EC6303 Signals and Systems	SSN Intranet	02/07/2018
Dr. S. Bagyaraj	BM6302 Sensors and Measurements	SSN Intranet	02/07/2018
Dr. Chitra Babu	Cloud Computing Techniques	SSN Intranet	03/12/2018
Dr.R.S.Milton	Graph Theory and Applications	SSN Intranet	03/07/2017
Dr.R.S.Milton	Programming In C	SSN Intranet	04/12/2017
Dr.R.S.Milton	C Programming Laboratory	SSN Intranet	04/12/2017
Dr.D.Venkatavara Prasad	Advanced Computer Architecture	SSN Intranet	04/09/2017
Dr.D.Venkatavara Prasad	Multi - Core Architectures and Programming	SSN Intranet	04/12/2017

Dr.T.T.Mirnalinee	Data Mining Techniques	SSN Intranet	03/07/2017
Dr.T.T.Mirnalinee	Internet of Things	SSN Intranet	04/12/2017
Dr.A.Chamundeswari	Cyber Forensics	SSN Intranet	03/07/2017
Dr.A.Chamundeswari	Software Process and Project Management	SSN Intranet	03/07/2017
Dr.A.Chamundeswari	Software Engineering	SSN Intranet	04/12/2017
Dr.R.Kanchana	Programming and Data Structure Ii	SSN Intranet	03/07/2017
Dr.R.Kanchana	Programming and Data Structure Laboratory Ii	SSN Intranet	03/07/2017
Dr.R.Kanchana	Software Engineering	SSN Intranet	04/12/2017
Dr.S.Sheerazuddin	Graph Theory and Applications	SSN Intranet	03/07/2017
Dr.S.Sheerazuddin	Artificial Intelligence	SSN Intranet	04/12/2017
Dr. G. Raghuraman	Problem Solving and Python Programming Laboratory	SSN Intranet	04/09/2017
Dr. G. Raghuraman	Problem Solving and Python Programming Laboratory	SSN Intranet	04/09/2017
Dr. G. Raghuraman	Social Network Analysis	SSN Intranet	04/12/2017
Dr.V.S.Felix Enigo	Problem Solving and Python Programming Laboratory	SSN Intranet	04/09/2017
Dr.V.S.Felix Enigo	Problem Solving and Python Programming Laboratory	SSN Intranet	04/09/2017
Dr.V.S.Felix Enigo	Social Network Analysis	SSN Intranet	04/12/2017
Dr.B.Bharathi	Internet Programming	SSN Intranet	03/07/2017
Dr.B.Bharathi	Internet Programming Laboratory	SSN Intranet	03/07/2017
Dr.B.Bharathi	Compiler Design	SSN Intranet	04/12/2017
Dr.B.Bharathi	Compiler Laboratory	SSN Intranet	04/12/2017
Dr.J.Suresh	Managing Big Data	SSN Intranet	03/07/2017
Dr.J.Suresh	Problem Solving and Python Programming Laboratory	SSN Intranet	04/09/2017
Dr.J.Suresh	Problem Solving and	SSN Intranet	04/09/2017

	Python Programming Laboratory		
Dr.J.Suresh	Big Data Analytics	SSN Intranet	04/12/2017
Dr.J.Suresh	Data Analytics Laboratory	SSN Intranet	04/12/2017
Dr.J.Bhuvana	Cryptography and Network Security	SSN Intranet	03/07/2017
Dr.J.Bhuvana	Security Laboratory	SSN Intranet	03/07/2017
Dr.J.Bhuvana	Security Practices	SSN Intranet	04/12/2017
Dr.J.Bhuvana	Soft Computing and Optimization Techniques	SSN Intranet	04/12/2017
Dr.S.Kavitha	Theory of Computation	SSN Intranet	04/09/2017
Dr.S.Kavitha	Machine Learning Techniques	SSN Intranet	03/07/2017
Dr.S.Kavitha	Artificial Intelligence	SSN Intranet	04/12/2017
Dr.S.Kavitha	Soft Computing and Optimization Techniques	SSN Intranet	04/12/2017
Dr.P.Mirunalini	Problem Solving and Python Programming Laboratory	SSN Intranet	04/09/2017
Dr.P.Mirunalini	Problem Solving and Python Programming Laboratory	SSN Intranet	04/09/2017
Dr.P.Mirunalini	Data Warehousing and Data Mining	SSN Intranet	04/12/2017
Dr.D.Thenmozhi	Programming and Data Structure Ii	SSN Intranet	03/07/2017
Dr.D.Thenmozhi	Programming and Data Structure Laboratory Ii	SSN Intranet	03/07/2017
Dr.D.Thenmozhi	Information Retrieval Techniques	SSN Intranet	04/12/2017
Dr.S.Saraswathi	Cyber Forensics	SSN Intranet	03/07/2017
Dr.S.Saraswathi	Computer Graphics Laboratory	SSN Intranet	03/07/2017
Dr.S.Saraswathi	Object Oriented Programming	SSN Intranet	04/12/2017
Dr.S.Saraswathi	Object Oriented Programming Lab	SSN Intranet	04/12/2017
Dr.K.Vallidevi	Grid And Cloud Computing	SSN Intranet	03/07/2017
Dr.K.Vallidevi	Grid And Cloud Computing	SSN Intranet	03/07/2017

	Laboratory		
Dr.K.Vallidevi	Programming In C	SSN Intranet	04/12/2017
Dr.K.Vallidevi	C Programming Laboratory	SSN Intranet	04/12/2017
Dr.B.Prabhavathy	Internet Programming	SSN Intranet	03/07/2017
Dr.B.Prabhavathy	Internet Programming Laboratory	SSN Intranet	03/07/2017
Dr.B.Prabhavathy	Compiler Design	SSN Intranet	04/12/2017
Dr.B.Prabhavathy	Compiler Laboratory	SSN Intranet	04/12/2017
Ms.K.Lekshmi	Computer Architecture	SSN Intranet	03/07/2017
Ms.K.Lekshmi	Multi - Core Architectures And Programming	SSN Intranet	04/12/2017
Ms.K.Lekshmi	Computer Architecture	SSN Intranet	04/12/2017
Dr.K. Madheswari	Object Oriented Analysis And Design	SSN Intranet	04/09/2017
Dr.K. Madheswari	Case Tools Laboratory	SSN Intranet	03/07/2017
Dr.K. Madheswari	Advance Software Engineering	SSN Intranet	03/07/2017
Dr.K. Madheswari	Mobile Computing	SSN Intranet	04/12/2017
Dr.K. Madheswari	Mobile Application Development Laboratory	SSN Intranet	04/12/2017
Mr.V.Balasubramanian	Cryptography and Network Security	SSN Intranet	03/07/2017
Mr.V.Balasubramanian	Security Laboratory	SSN Intranet	03/07/2017
Mr.V.Balasubramanian	Design And Analysis Of Algorithms	SSN Intranet	04/12/2017
Ms.S.Rajalakshmi	Data Analytics	SSN Intranet	03/07/2017
Ms.S.Rajalakshmi	Operating Systems	SSN Intranet	04/12/2017
Ms.S.Rajalakshmi	Operating Systems Laboratory	SSN Intranet	04/12/2017
Mr.K.R.Sarath Chandran	Computer Architecture	SSN Intranet	03/07/2017
Mr.K.R.Sarath Chandran	Microprocessor and Microcontroller	SSN Intranet	04/12/2017
Mr.K.R.Sarath Chandran	Computer Architecture	SSN Intranet	04/12/2017
Mr.K.R.Sarath Chandran	Microprocessor and Microcontroller Laboratory	SSN Intranet	04/12/2017

Mr.B.Senthil Kumar	Database Management Systems	SSN Intranet	03/07/2017
Mr.B.Senthil Kumar	Database Management Systems Laboratory	SSN Intranet	03/07/2017
Mr.B.Senthil Kumar	Natural Language Processing	SSN Intranet	04/12/2017
Mr.N.Sujaudeen	Computer Graphics	SSN Intranet	03/07/2017
Mr.N.Sujaudeen	Computer Graphics Laboratory	SSN Intranet	03/07/2017
Mr.N.Sujaudeen	Computer Networks	SSN Intranet	04/12/2017
Mr.N.Sujaudeen	Networks Laboratory	SSN Intranet	04/12/2017
Ms.A.Beulah	Theory Of Computation	SSN Intranet	03/07/2017
Ms.A.Beulah	Problem Solving and Python Programming Laboratory	SSN Intranet	04/09/2017
Ms.A.Beulah	Mobile Computing	SSN Intranet	04/12/2017
Ms.A.Beulah	Mobile Application Development Laboratory	SSN Intranet	04/12/2017
Ms. S.V.Jansi Rani	Data Analytics	SSN Intranet	03/07/2017
Ms. S.V.Jansi Rani	Computer Networks	SSN Intranet	04/12/2017
Ms. S.V.Jansi Rani	Networks Laboratory	SSN Intranet	04/12/2017
Ms.M.Saritha	Information Storage Management[SSN Intranet	03/07/2017
Ms.M.Saritha	Programming In C	SSN Intranet	04/12/2017
Ms.M.Saritha	C Programming Laboratory	SSN Intranet	04/12/2017
Ms.S.Lakshmi Priya	Computer Graphics	SSN Intranet	03/07/2017
Ms.S.Lakshmi Priya	Problem Solving and Python Programming Laboratory	SSN Intranet	04/09/2017
Ms.S.Lakshmi Priya	Operating Systems	SSN Intranet	04/12/2017
Ms.S.Lakshmi Priya	Operating Systems Laboratory	SSN Intranet	04/12/2017
Mr.H.Shahul Hamead	Operating System Internals	SSN Intranet	04/09/2017
Mr.H.Shahul Hamead	Problem Solving and Python Programming Laboratory	SSN Intranet	04/09/2017
Mr.H.Shahul Hamead	Network Design and Technologies	SSN Intranet	04/12/2017
Mr.H.Shahul Hamead	Distributed Systems	SSN Intranet	04/12/2017
Ms.S.Angel Deborah	Advanced Data Structures and Algorithms	SSN Intranet	04/09/2017

Ms.S.Angel Deborah	Data Structures Laboratory	SSN Intranet	04/09/2017
Ms.S.Angel Deborah	Microprocessor and Microcontroller	SSN Intranet	04/12/2017
Ms.S.Angel Deborah	Microprocessor and Microcontroller Laboratory	SSN Intranet	04/12/2017
Ms.S.Manisha	Object Oriented Analysis And Design	SSN Intranet	03/07/2017
Ms.S.Manisha	Case Tools Laboratory	SSN Intranet	03/07/2017
Ms.S.Manisha	Object Oriented Programming	SSN Intranet	04/12/2017
Ms.S.Manisha	Object Oriented Programming Lab	SSN Intranet	04/12/2017
Ms.R.Priyadharshini	Database Management Systems	SSN Intranet	03/07/2017
Ms.R.Priyadharshini	Database Management Systems Laboratory	SSN Intranet	03/07/2017
Ms.R.Priyadharshini	Data Warehousing and Data Mining	SSN Intranet	04/12/2017
Ms.Y.V.Lokeswari	Grid And Cloud Computing	SSN Intranet	03/07/2017
Ms.Y.V.Lokeswari	Grid And Cloud Computing Laboratory	SSN Intranet	03/07/2017
Ms.Y.V.Lokeswari	Distributed Systems	SSN Intranet	04/12/2017
Dr.R. Parthiban	Chemical Process Industries - I Chemical Process Industries II	LMS	05/06/2017
Dr.V.Jaikumar	Process Economics Safety and Hazard Control Environmental Engineering Polymer Technology	LMS	05/06/2017
Dr.K. Jagannathan	Chemical Process Calculations Fluid Mechanics	LMS	05/06/2017
Dr.K. Sathish Kumar	Food Technology	LMS	05/06/2017
Dr.P. Senthil Kumar	Chemical Reaction Engineering - I Chemical Reaction Engineering II	LMS	05/06/2017
Dr.D. Gnana Prakash	Mass Transfer - II Bio Chemical Engineering	LMS	05/06/2017
Dr.M. Subramanian	Energy Engineering	LMS	05/06/2017

	Process Plant Utilities Heat Transfer		
Dr.K.P. Gopinath	Frontiers of Chemical Engineering	LMS	05/06/2017
Dr.B. Ambedkar	Mechanical Operations Fertilizer Technology	LMS	05/06/2017
Dr.J. Dhanalakshmi	Petroleum Technology Chemical Process Plant Safety	LMS	05/06/2017
Dr.R. Anantharaj	Chemical Engineering Thermodynamics - I Chemical Engineering Thermodynamics II	LMS	05/06/2017
Dr.D.Balaji	Waste Water Treatment Transport Phenomena	LMS	05/06/2017
Dr.B. Chitra	Environmental Science and Engineering Material Science and Technology Modern Separation Process	LMS	05/06/2017
Mr.Kilaru Harsha Vardhan	Process Instrumentation Dynamics and Control Mass Transfer I	LMS	05/06/2017

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MGBPS)	Others
Existing	1735	54	54	1	1	56	13	310	
Added	88								
Total	1823	54	54	1	1	56	13	310	0

4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

310 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
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No Data Entered/Not Applicable !!!

4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
69	7	1156	660

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

Academic Blocks: The available built up area of Educational buildings is 65,579 Sq. m. Separate blocks for Workshop, Central Library, Computer Centre, Administration, Science and Humanities are available. SSN Research centre is housed in EEE block. Common Facilities: Common Facilities like Electrical substation, Recreation Centre, Auditorium (1000 seater capacity), Auditorium (300 seater capacity), Canteen, Seminar Hall (120 seater capacity), Guest House, OHTUG sump, Driver shed, Stores cum toilet in play ground constitute nearly 9353 Sq.m. of built up area. The entire campus is WiFi enabled. A clinic with full time Doctor and a nurse is available. A van is kept ready throughout the day for emergency hospital visit. Banking facility with an ATM centre, Modern Laundry, Stationery store and photo copying centre are available within the Campus.. We have about 6 km length of metal road connecting all blocks with 8 km length of storm water drain to avoid water stagnation. Parking facility for 150 cars and 50 buses are provided. Library: The library is fully airconditioned. Entire Library process is computerized. KOHA Library software is used for issue, return. RFID and Biometric system are used in circulation section. Book search, renewal and reservation are available through Intranet. Sports: The college encourages sports activities and gives importance to pursue excellence in sports. The college has all necessary infrastructure for growing talents and developing sports personalities. The sports infrastructure comprises facilities for indoor and outdoor games. There are well groomed outdoor play fields for Cricket (Turf wicket with grass out field), Football, Tennis (Synthetic courts), Basketball, Volleyball, Athletics etc. We have an International standard indoor stadium for Basketball, Badminton (Hova Court), Table tennis Squash racket, and Air conditioned gym for boys and girls. Department: Mechanical Engineering department is endowed with good infrastructural facilities. It has adequate number of class rooms, faculty rooms, office rooms, seminar halls, libraries, and reading room facilities, state of art laboratories with sophisticated equipments. Computers are the main tool used to present multimedia items such as power point presentations (PPTs), video, animation and sound. In the classroom, computers have made a huge impact on the way teachers provide information to their students. Using computers, teachers have evolved their teaching methods? Instead of lecturing and writing notes on the blackboard, teachers can now show their students visual and audio material to enhance the learning process. These methods are much more effective for students who observe information visually. We are using Elearning facility in our intranet to enable the course contents available to the students. The required softwares are installed in the classroom laptops to provide the hands on demonstration to the students in the theory class itself.

<http://www.ssn.edu.in>

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	merit	549	42847854
Financial Support from Other Sources			
a) National	Scholarship	498	9575000
b) International	Nil	0	0

5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Bridge Courses - I year P.G CSE students	01/09/2017	7	Dept of CSE, SSNCE
Mentoring	19/06/2017	443	Dept of CSE, SSNCE
Remedial Coaching	07/08/2017	22	Chemical Engineering Faculty
Personal counselling and mentoring	04/12/2017	208	Chemical Engineering Faculty
Aptitude training	14/08/2017	105	Vistamind
Mentoring	03/07/2017	111	Dept of MBA
FACE Training and Dept. Technical Training	17/01/2018	130	FACE , SSN College of Engg
Communication and Soft Skills - Lab based	13/12/2017	143	Dept of English , SSNCE
Bridge Courses Lateral Entry CSE students (III Sem B.E)	22/07/2017	15	Dept of CSE, SSNCE

5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2017	Career counseling and Competitive exam	61	61	2	3
2018	Placement Technical	1987	1260	24	323

Training Programme

5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
2	2	1

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
Accenture, Aditya Birla, Freshworks, HCL, IDBI, Infosys, LD Infotech, Myslate, Six Phrase	745	566	C intelligence, Think and learn, Spic,	57	12

5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2017	4	B.E.	Electrical and Electronics Engineering	UNIVERSITY OF SOUTHERN CALIFORNIA UNIVERSITY OF PENNSYLVANIA TU EINDHOVEN NETHERLAND NORTH CAROLINA STATE UNIVERSITY UNIVERSITY OF TORONTO	MS
2018	4	B.E.	Electrical and Electronics Engineering	DELFT UNIVERSITY OF TECHNOLOGY NC STATE UNIVERSITY GEORGIA INSTITUTE OF TECHNOLOGY	MS
2018	3	B.E.	Civil	University of Melbourne	M.E. / MBA

				Dalhousie University IIM Bangalore	
2017	3	B.E.	Civil	University College, London Delft University of Technology, Netherlands	MS
2017	3	B.E.	CSE	University of Southern California Viterbi School of Engineering University of Washington, Tacoma University of Illinois at Chicago Carnegie Mellon University, Pittsburgh	MS
2018	5	B.E	CSE	Boston University Dalhousie University University of Californi a, San Diego New York University SUNY Stony Brook	MS
2018	1	B.E.	Bio Medical	Georgia Institute of Technology	MBID
2018	1	B.E.	Bio Medical	University of Southern California	University of Southern California
2017	1	B.E.	Biomedical	University of Texas, Dallas	MS
2018	1	B.E.	Biomedical	Cornell University	MS
2018	1	B.E.	Biomedical	Hiedelberg University	MS
2017	1	B.E.	Biomedical	Durham University	MS

2017	3	B.E.	Biomedical	University of Groningen	MSC
2018	21	B.E.	ECE	NCSU UCSD NTU Georgia Tech UC Riverside CMU UMICH IITM UMN UCSB	MS / M.Tech / MBA
2017	12	B.E.	Mechanical Engg	Delft insti of technology, Chalmers university of mechanics, University of Florida, State University of New York	MS /MSc
2018	16	B.E.	Mechanical Engg	Texas A M University, Purdue University, Colorado School of Mines, University of Stuttgart, Columbia University, Technical University of Munich, Clemson University, Arizona State Univer sity, Ohio state university	MS /MSc
2017	3	B.E.	CSE	North Carolina State University	MS
2017	4	B.E.	CSE	Arizona State University, Tempe	MS
2018	2	B.E.	CSE	Johns Hopkins University	MS
2017	2	B.E	CSE	Unversity of	MS

				Buffalo, New York	
2017	2	B.E.	CSE	University of Illinois at Chicago	MS
2018	2	B.E.	CSE	University of Texas, Dallas	MS
2018	5	B.E.	CSE	IIM Indore, University of Madras, Anna University	M.E. / MTech/ MBA
2018	3	B.E	CSE	Syracuse University, New York TU Delft University, Netherlands London School of Economics	MS
2017	2	B.E.	CSE	University of Southern California Viterbi School of Engineering, University of Washington, University of Illinois at Chicago	MS
2018	2	B.E	CSE	Carnegie Mellon University, Dalhousie University	MS
2017	2	B.E	CSE	University of California	MS
2018	2	B.E	CSE	New York University SUNY Stony Brook	MS
2017	5	B.Tech	Information Technology	Arizona state university KTH Royal University of North Carolina Rutgers University	MS

				Rochester Institute of Technology	
2018	4	B.Tech	Information Technology	Technische Universiteit Eindhoven University of Texas	MS
2018	7	B.Tech.	Chemical	Cornell University Carnegie Mellon Univeristy University of California Universitat Stuttgart	MS
2017	7	B.Tech.	Chemical	Wageningen University and Research IHE Delft Institute for WaterEdu cation University of Tornto Ashoka University	MS
2018	7	B.Tech.	Chemical	Purdue University Graduate School Georgia Institute of Technology Lund University Monash University National University of Singapore	MS
2017	2	B.E.	Civil Engineering	University of Melbourne University College London	M.E / MS
2018	3	B.E.	Civil Engineering	Dalhousie University Delft University of Technology	MS
2018	1	B.E.	Civil	IIM	MBA

			Engineering	Bangalore	
2018	2	B.E.	Electrical and Electronics Engineering	SSN COLLEGE OF ENGINEERING	PhD

5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying	Reg no/ Rollno for the examination
CAT	7	7001996
GATE	18	18S57086026
GMAT	2	318825972
GRE	95	2868501182244065
TOFEL	89	0000000032995162
Any Other	2	172830

5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
INSTINCTS	NATIONAL	1500
Second Cancer Institute therapy session(music)	State (Institutions participated 32)	32
SSN TROPHY 2K17	All India Intercollegiate tournament (Institutions 105)	105
SSN CUP 2017	State level Inter Engineering College Volleyball tournament for Men (Institutions 16)	16
SSN CHAMPIONSHIP 2K18	State level Inter Engineering College Football tournament for Men (Institutions 24)	24
Anna University Tournaments	State Level Anna University Zone and Inter zone Tournaments (Institutions 80)	80
SSN OPEN Trophy	National level Tennis tournament for Juniors and Seniors	145

5.3 – Student Participation and Activities

5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2018	Silver medal in Asian	Internatio nal	2	20	3122161140 17, 312217 114123	Arun S, Vishnu Sujeesh

	roller skating championship					
2018	Title winners	National	40	7	3122171141 23	team events
2017	Title winners	National	1	7	312217114	Team eventss

5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

At the department level, every class has a class committee which consists of the students and faculty members. The Head of the department appoints a chairman for the committee who conducts periodic meetings and reports to the HoD. Class committee sets the rules and the regulations for the class behavior. It serves as the voice of the students in front of faculty and has a say in academic matters such as conduct of tests and so on. The class committee meets twice a semester. Every department has its own association of students whose office bearers are chosen by the faculty incharge in consultation with the Head of the Department. The students can apply for the various posts and suitable people are selected who run the affairs of the association, in particular the conduct of the annual technical event INVENTE. These associations are as follows: Association of Electrical and Electronics Engineers (AEEE) Association of Electronics and Communication Engineers (AECE) Association of Computer Engineers (ACE) Association of Information Technologists (AIT) Association of Chemical Engineers (ACE) Association of Biomedical Engineers (ABE) Association of Mechanical Engineers (AME) Association of civil Engineers (ACECIVIL) The institution does not have a student council but there are societies / clubs, the heads of which are part of the council which oversee all the cultural activities at SSN. Similarly, the heads of the technical clubs are responsible for all technical activities at SSN. These associations / societies provide avenues for the development of technical skills, updating knowledge, personality development and service to the society. These are as follows: Student Chapters of Association of Computing Machinery (ACM), Indian Society for Technical Education (ISTE), Computer Society of India (CSI) IETE Student Forum Entrepreneurship Development Cell (EDC) National Service Scheme (NSS) Youth Red Cross (YRC) Tamil Mandram English Literary Club (ELC) Fine Arts Club Music Club Dance Club Drama Club Photography Club Management Association Rotaract Students' Chapter Electrical Research Fraternity (ERF) The officebearers of these associations / societies are appointed by the respective faculty incharges in consultation with the administrative heads, which is the HoD in the case of cocurricular activities or a faculty member appointed by the Principal in the case of extracurricular activities. The office bearers of these associations / societies meet regularly for smooth conduct of various events under their auspices and submit an annual report. Every year, a selection of the students is made from these associations / societies, who are appointed on various committees to conduct the annual cultural event, INSTINCT.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

SSN Alumni Association is registered under section 10 of Tamil Nadu societies registration act SL.no 133/2018

5.4.2 – No. of enrolled Alumni:

14393

5.4.3 – Alumni contribution during the year (in Rupees) :

1100000

5.4.4 – Meetings/activities organized by Alumni Association :

1. Annual Alumni Meet (India US Chapter) 2. Alumni in Campus Placements 3. SSN Alumni Avenue 4. Alumni Reunions 5. Alumni Mentorship Program 6. Industry Connect

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

The two most important instances of decentralisation and participative management during the last year would be the preparation of the budget and the allot of internal funding projects for faculty and students All Heads of Departments, Function Heads, heads of research groups consult with their members and provide inputs to the overall department, function and ultimately to the institution budget. The selection of projects of internal funding follows a similar approach with faculty guides as the first level of judges and mentors, followed by heads of departments, dean research and finally an external committee.

6.1.2 – Does the institution have a Management Information System (MIS)?

Yes

6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Curriculum Development	The curricular gap is identified based on the feedback from students, faculty, alumni industry bodies etc. Gaps are discussed and suggestions sought from academic and industrial experts on the governing body. The Boards of Studies of the individual departments go through the gaps and suggestions and suggest suitable modification in the curriculum. Academic Council and Board of Governing Body then ratify the changes.
Teaching and Learning	Tutorial classes are conducted The econtent for each course is prepared and uploaded in SSN intranet.
Examination and Evaluation	An Exam Cell has been specifically constituted which follows the guidelines as mentioned in the Regulations. The cell headed by a controller coordinates with all the department for conduct of examination, evaluation and audits.
Research and Development	A Research Advisory Council (RAC) comprising of eminent researchers from India and abroad meet every six months

	to set the vision and oversee the research activities. Based on the suggestion of RAC, management is sanctioning fund for carrying out student research projects. This scheme is popularly known as 'Stimulus for Technological Innovation and Research among Students' (STIRS). Last year Rs. 60 lakh was disbursed under this scheme to over 198 student ideas comprising over 400 students. Incentive schemes are in place to promote research publications of the faculty and the students. Special incentive scheme is in place for faculty members having external funded projects.
Library, ICT and Physical Infrastructure / Instrumentation	Well established intranet and LMS are in place. Well established Library with ample amount of books and journals. International level cricket ground, Football field, squash arena, air conditioned Gym are established in the campus.
Industry Interaction / Collaboration	Over 100 MoUs have been signed till date with various universities, institutions and organisations.
Admission of Students	Anna University single window system and Management seats. For Management seats the admission is based purely on merit and criteria of admission is marks in Physics, Chemistry and Maths in class 12.
Human Resource Management	The Human Resource Manager oversees the recruitment, appraisal and welfare activities under the supervision of the management.

6.2.2 – Implementation of e-governance in areas of operations:

E-governance area	Details
No Data Entered/Not Applicable !!!	

6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2017	Dr.V.Rajini	International Conference on Renewable Energy Research and Applications, ICRERA17, at	RES	246401

		California, USA		
2018	Mr V.Balasubramanian	IEEE Conference	IEEE Membership	2600
2018	Priyadharshini R	IEEE Conference	IEEE Membership	2600
2018	Mr K.R.SarathChandran	IEEE Conference	IEEE Membership	2600
2017	Dr.A.Chamundeswari	7th International Conference on Computer and Communication Technology (7th ICCCT2017) November 24-26, 2017	SSN trust	11600
2017	Ms.Logeswari	convergence of IOT, Big data analytics and cloud computing for smart governance, SSNCE, 23-25 Nov 2017	SSN trust	1000
2017	Ms.Logeswari	Large Scale Data Analysis, resources and Drug Design, IITMadras, 10-11th Nov 2017.	SSN trust	5900
2018	Dr T Nagarajan	IEEE Conference	IEEE Membership	2730
2018	Dr R Srinivasan	IEEE Conference	IEEE Membership	2730
2018	Dr Shahina	IEEE Conference	IEEE Membership	2730
2018	Dr T Sree Sharmila	IEEE Conference	IEEE Membership	2730
2018	Dr S Chithra	IEEE Conference	IEEE Membership	2730
2018	Dr N Bhalaji	IEEE Conference	IEEE Membership	2730
2018	Dr N Bhalaji	International Conference on ICT for sustainable development, IRSCNS	SSN trust	25122
2018	Dr S Karthika	IEEE Conference	IEEE Conference	2730
2018	Dr Mohanavallis	IEEE Conference	IEEE Conference	2730
2018	Dr Mohanavallis	Three Days DSTSERB Sponsored Workshop on Computational	SSN trust	2500

		Intelligence and Connectivity for Smart City (CICSC 18)		
2018	Dr Mohanavallis	National conference in current trends in smart modernization techniques, April 20th, 2018, Saveetha University	SSN trust	11750
2018	Dr Joe Louis Paul	National conference in current trends in smart modernization techniques, April 20th, 2018, Saveetha University	SSN trust	11750
2018	Dr Joe Louis Paul	IEEE Conference	IEEE Membership	2730
2017	Dr. N. Venkateswaran	GIAN Course on Vogue Technologies on 5G and 5G communication and Vehicular Technologies	IEEE Membership	11175
2017	Dr. R. Jayaparvathy	International Workshop on Integrated Power Packaging (IWIPP17) April 57, TU Delft, Netherlands	IEEE Membership	96970
2017	Dr. A. Jawahar	ICONSONICS 2017	IEEE Membership	126514
2017	Dr. N. Edna Elizabeth	Workshop on Wireless Body Area Networks 2017 held in SSNCE from 20 112017 and 22112017	IEEE Membership	5000
2018	Dr.P.Miunalini	IEEE Conference	IEEE Membership	2600
2017	Mr. N. Prabagarane	IEEE Conference	IEEE Membership	2730
2017	Mr. S. Karthie	GIAN course on Couplingmatrix design of advanced	IEEE Membership	9230

		RF/Microwave filters, IIT Madras, Dec2017		
2017	Dr. K. Nirmala	IEEE, TENCON 2017, Malaysia	SSN trust	40000
2017	Dhanalakshmi Munirathnam	IEEE	SSN trust	2600
2017	Divya B.	IEEE	SSN trust	2600
2017	K Nirmala	IEEE	SSN trust	2600
2017	J. Vijay	IEEE EMBS	SSN trust	4150
2017	Bagyaraj s	IEEE EMBS	SSN trust	4150
2017	Arunkarthik	IEEE EMBS	SSN trust	4150
2017	Dr. S. Radha	2730	IEEE Membership	2730
2017	Dr. P. Vijayalakshmi	TENCON 2017 , Malaysia, Nov. 5 7, 2017	IEEE Membership	50000
2018	Dr. P. Vijayalakshmi	WISSAP 2018 IIT Guwahati, January 19 22 2018	IEEE Membership	20343
2017	Dr. R. Damodaram	GIAN COURSE on Nonferrous material welding metallurgy at IITMADRAS , From 11 to 15 DECEMBER,2017	SSN trust	6000
2017	Mr. D. Ebenezer	GIAN COURSE I.I.T,MADRAS ON WELDING, 11 to 15 DECEMBER,2017	SSN trust	6000
2017	Dr. K. Jayakumar	10th International Conference on Precision, Meso, Micro and Nano Engineering (COPEN 2017)	SSN trust	6298
2018	Dr. S Soma Sundaram	25 th National Conference on I. C. Engines and Combustion	SSN trust	8085
2018	Dr. Poovazhagan. L	International conference on Engineering Materials, Metallurgy and Manufacturing	SSN trust	3000

		(ICEMMM2018)		
2018	Dr. K.L.Harikrishna	International conference on Engineering Materials, Metallurgy and Manufacturing (ICEMMM2018)	SSN trust	3000
2018	Dr. K.S.Jayakumar	National Conference on Sustainable Energy Resources for Thermal Systems (SERTS2018)	SSN trust	2000
2017	Dr D.VenkataVara Prasad	AICTE sponsored national seminar on convergence of IOT, Big data analytics and cloud computing for smart governance, SSNCE, 2325 Nov 2017	IEEE Membership	3600
2018	Dr.R.Kanchana	IEEE Conference	IEEE Membership	2600
2018	Dr J.Bhuvana	IEEE Conference	IEEE Membership	2600
2018	Dr.G.Raghuraman	IEEE Conference	IEEE Membership	2600
2018	Dr.K.Vallidevi	IEEE Conference	IEEE Membership	2600
2018	Dr.B.Bharathi	IEEE Conference	IEEE Membership	2600
2018	Dr.V.S.FelixEnigo	IEEE Conference	IEEE Membership	2600
2018	Dr N Sripriya	IEEE Conference	IEEE Membership	2730
2018	Dr S Poornima	IEEE Conference	IEEE Membership	2730
2018	Dr V Thanikachalam	IEEE Conference	IEEE Membership	2730
2018	Dr V Thanikachalam	(ICCCSP 2018) International Conference on Innovative Computing and Communications, New DelhiI	SSN trust	7500
2018	Ms. N Radha	International Conference on Innovative Computing and Communication(IC ICC2018)	SSN trust	21560
2018	Dr S Sasirekha	IEEE Conference	IEEE Membership	2730

2018	Ms. Swathika R	International Conference on ISMAC in Computational Vision and BioEngineering 2018 (ISMACCVB). ISMAC 2018	SSN trust	9500
2018	Mr Vinob Chandar	ERPNext Coneference	SSN trust	13473
2018	Mr. A. Santhana karuppan	Two days workshop on festival of IoT and Cloud	SSN trust	5706
2018	Mr. A. Santhana karuppan	Cloud Computing and Data Science	SSN trust	10000
2018	Mr V ArulKumar	STTP on Cloud Orchestration Using SDN and Open Stack	SSN trust	3850
2018	Mr V ArulKumar	Faculty Development Program on Data Analytics	SSN trust	1000
2018	Ms. Uma Maheswari	IEEE Conference	IEEE Membership	2730
2018	Ms. Uma Maheswari	AIML Workshop, DL for Speech, Image, Text Processing	SSN trust	2680
2018	Dr S Sasirekha	IEEE Conference	IEEE Membership	2730
2018	Dr S Sasirekha	ASMA 2018, Bangalore, Aug 31st 1st Sep, 2018	SSN trust	8988
2018	Dr S Sasirekha	ERP Next Conference, 2018, Mumbai	SSN trust	14548
2018	Ms. Josephine Julina J. K.	Conventional machine learning to deep learning for speech, image and text processing	SSN trust	1500
2018	Ms. Josephine Julina J. K.	IEEE Conference	IEEE Membership	2730
2018	Balaji D	16th International conference on	SSN trust	1500

		Science, Engineering, and Technology		
2018	Dr.V.Jaikumar	Nanoporus materials in ca talysisFundamen tals and applic ationsIITM	SSN trust	5000
2017	Dr.V.Jaikumar	IndianGerman Water Partnership day, on 1920, 2017 September organized by German consulate and CII.	SSN trust	2360
2017	Dr.B.Mahalingam	International Conference on Engineering Materials, Metallurgy and Manufacturing	SSN trust	3500
2017	Dr.R.Srinath	International Conference on Engineering Materials, Metallurgy and Manufacturing	SSN trust	3500
2017	Dr. R. Amutha	System design for remote healthcare,DEC 1829,2017,IIT,K haragpur	IEEE Membership	43968
2018	Dr. V. Vaithianathan	A One Week Faculty Development Workshop on "Internet of Things", NITW, 2018	IEEE Membership	10851
2017	Dr. K. S. Vijay Sekar	Attended a one day seminar on BETA CAE systems, Chennai.	SSN trust	1000
2018	Dr. M. Nallamohammed	Two days workshop on Advanced Composite Materials A Research Perspective, Feb 2018, B.S. Abdur Rahman	SSN trust	1500

		Crescent Institute of Science and Technology		
2017	Dr. N. Edna Elizabeth	"29th GISFI Standardization Series Meeting IEEE 5G Summit" held at the Institute of Technical Education Research, Siksha 'O' Anusandhan University, Bhubaneswar, Odisha from 17th - 18th Aug. 2017	IEEE Membership	5000
2017	Dr. R. Kishore	IEEE Conference	IEEE Membership	2730
2017	Dr. B. S. Sreeja	LPM 2017, Japan	SSN Trust	145000
2017	Dr. S. Sakthivel Murugan	International Conference on ship and offshore technologies, Innovations in Ocean Structures - IIT Kharaghpur (Dec 7 - 8, 2017)	SSN Trust	26353
2017	Dr. S. Sakthivel Murugan	Indian Geotechnical Conference - 217 - IIT Guwahathi (14 - 16 Dec 2017)	SSN Trust	25000
2018	Dr. S. Sakthivel Murugan	One week workshop on Internet of Things" NIT Warangal (May 8-13, 2018)	SSN Trust	5000
2017	Dr. R. Kalidoss	IEEE Conference	IEEE Membership	2730
2017	Dr. M. Gulam Nabi Alsath	IEEE Conference	IEEE Membership	2730
2017	Dr. S. Esther Florence	IEEE Conference	IEEE Membership	2730
2017	Dr. K. J. Jegadish Kumar	IEEE Conference	IEEE Membership	2730

2017	Dr. K. K. Nagarajan	IEEE Conference	IEEE Membership	2730
2017	Dr. M. Anbuselvi	IEEE Conference	IEEE Membership	2730
2017	Dr. B. Parthibane	IEEE Conference	IEEE Membership	2730
2017	Dr. B. Ramani	IEEE Conference	IEEE Membership	2730
2017	Dr. S. Ramprabhu	IEEE Conference	IEEE Membership	2730
2017	Dr. W. Jino Hans	IEEE Conference	IEEE Membership	2730
2017	Mr. C. Vinoth Kumar	IEEE Conference	IEEE Membership	2730
2017	Ms. P. Kaythry	IEEE Conference	IEEE Membership	2730
2017	Dr.R.Rajkumar	International Conference on Engineering Materials, Metallurgy and Manufacturing	SSN trust	3500
2017	Dr.Sivapriya SV	International Conference on Engineering Materials, Metallurgy and Manufacturing	SSN trust	3500
2017	Dr.P.Sangeetha	International Conference on Engineering Materials, Metallurgy and Manufacturing	SSN trust	3500
2017	Dr. R. Ramaprabha	International Conference on Power Electronics and Drive Systems (IEEE PEDS 2017) Honolulu, Hawaai	IEEE Membership	248910

6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2018	Effective implementation of	Effective implementation of	28/08/2017	28/08/2017	25	1

	Autonomous system	Autonomous system				
2018	Workshop on Organizational Commitment Employee Motivation	Workshop on Organizational Commitment Employee Motivation	02/12/2018	02/12/2018	10	50
2017	AICTE Sponsored 3 days seminar on health care with wireless body area networks and its challenges	Not Applicable	20/11/2017	22/11/2017	50	1
2018	5 days Refreshers course on Antennas	Not Applicable	30/10/2017	03/11/2017	40	1
2018	2 days workshop on hands on IOTA hardware Perspective	Not Applicable	11/08/2017	12/08/2017	32	1
2017	Seminar on Technology, management and society	Not Applicable	25/01/2018	25/01/2018	109	1
2017	International conference on wireless communication signal processing and networks (WISPNET 2018)	Not Applicable	22/03/2018	24/03/2018	150	1
2017	Anna university sponsored FDTP on digital communication	Not Applicable	11/06/2018	17/06/2018	20	1
2017	7 days FDP on CS 6551 computer	Not Applicable	04/12/2017	10/12/2017	15	1

	networks					
2018	Communication Skills	Communication Skills	10/02/2018	10/02/2018	17	2
2018	Motivating People for clean environment and clean mind	Motivating people for clean environment and clean mind	08/06/2018	08/06/2018	5	10

6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
NPTEL workshop conducted by IITM	1	09/12/2017	09/12/2017	1
Technical talk on "Near Real Time Data Analytics by Mr. K. S. Sreedharan, Director IT, Zoho Corporation	1	21/07/2017	21/07/2017	1
Two day National workshop on Ionic Liquids in Green Processes Sustainable Technologies,	1	03/08/2017	04/08/2017	2
State Level Consultative Workshop on "Swachhathon 1.0" organized by Ministry of Drinking water and Sanitation,	1	10/08/2017	10/08/2017	1
Effective Implementation of Autonomous System conducted by Dr. S. Baskar, Professor and Head, Department of EEE, Thiagarajar	3	28/08/2017	28/08/2017	1

College of Engineering, Madurai				
Three Day Workshop on VLSI and Embedded System Design (VESD2017)	1	13/10/2017	15/10/2017	3
IEEE mini POCO conference at CEG, Anna University, Chennai	3	29/10/2017	29/10/2017	1
AICTE Sponsored Short Term Course Microfluidics Based Healthcare Diagnostics and Interfacial Phenomena	1	06/11/2017	11/11/2017	6
Faculty development programme on 'Stem Cell Characterization and Advances in its Research and Applications'	1	27/11/2017	08/12/2017	12
3 days Industrial Training/Visit	1	07/12/2017	09/12/2017	3
Winter school on speech and audio Processing	2	19/01/2018	22/01/2018	4
Special Technical Lecture on "MEMS and Smart Devices and Systems in Engineering and Medicine" delivered by Dr. Vijay K. Varadan, Cofounded Nanowear, Professor, Pennsylvania State	2	08/02/2018	08/02/2018	1

University, USA				
OneDay Workshop on IoT Enabled Computer Vision and Analytics (ICVA 2018),	1	02/03/2018	02/03/2018	1
Faculty Development Programme on AutoDesk Fusion 360	1	13/06/2018	15/06/2018	3
IEEE workshop on Nano technology and sensors, Bangalore	1	11/08/2017	13/08/2017	3
IEEE 5 G summit on Smart city ,Odisha	1	17/08/2017	18/08/2017	2
Seminar on Advances in Antennas,Coimbatore	1	18/08/2017	18/08/2017	1
AICTE sponsored Programme on Deep Learning for image and text analysis,SSN College of Engineering	4	13/11/2017	25/11/2017	13
AICTE Sponsored 3 days seminar on health care with wireless body area networks and its challenges	2	20/11/2017	22/11/2017	3
7 Days FDTP programme on Antennas and wave propagation	2	27/11/2017	03/12/2017	7
Precision Manufacturing and its application at IITM	1	06/12/2017	06/12/2017	1
International conference on ship and offshore Tech,India	1	07/12/2017	08/12/2017	2

GIAN course on CouplingMatrix design of advanced RF filter at IITM	1	11/12/2017	16/12/2017	6
Faculty internship in TATA Elxsi on Vehicular Adhoc Networks	1	11/12/2017	15/12/2017	5
International radar symposium ,India2017,Bangalore	2	14/12/2017	16/12/2017	3
India GEO Tech. ,conference2017	1	14/12/2017	16/12/2017	3
GIAN course on Health care	1	08/12/2017	29/12/2017	22
GIAN course on Vogue technology on 5G communication and vehicular technology NIT, Trichy	1	26/12/2017	02/01/2018	8
Winter school on Speech and Audio Processing at IITGuwahati	1	19/01/2018	22/01/2018	4
Design the Thinking at 8012FinTech Design Centre, chennai	1	09/05/2018	11/05/2018	3
Anna university sponsored FDTP on digital communication	3	11/06/2018	17/06/2018	7
GIAN COURSE on Nonferrous material welding metallurgy at IITMADRAS	2	11/12/2017	15/12/2017	5
AICTE sponsored two week FDP on Deep Learning For Image And Text Analysis: principles, Techniques and	65	13/11/2017	25/11/2017	13

Challenges				
AICTE sponsored National Seminar on Convergence of IoT?, Big data Analytics and Cloud Computing for Smart Governance	42	23/11/2017	25/11/2017	3
Advances in Wastewater Treatment and Air Pollution Control Techniques AWTAPCT2017	2	13/11/2017	25/11/2017	13
Green Chemical Technology and Application for Sustainable Developments in Chemical Industry	2	04/12/2017	09/12/2017	6
Workshop on Rock Engineering Issues and Future Challenges	1	09/07/2018	09/07/2018	1
NBA Orientation Workshop - Movement for Quality Education	1	30/10/2018	31/10/2018	2
Workshop on Textile Reinforced Concrete Systems	1	04/09/2017	04/09/2017	1
Workshop on Corrosion Control in Concrete Structures	1	08/09/2017	08/09/2017	1
AICTE sponsored Training Programme on Civil and Structural Engineering	1	21/12/2017	23/12/2017	3

6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching	Non-teaching
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Permanent	Full Time	Permanent	Full Time
4	4	3	3

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Reimbursement for Housing loan interest, phone bill and conveyance. Incentive plan, EL encashment, maternity leave, PF, Gratuity, Group personal accident insurance, Fee concession to wards	Leave benefits, fee concession to wards, performance bonus, exgratia, PF, Gratuity, Medical insurance	Group personal accident insurance, Scholarships, subsidized Lunch, Group insurance, Financial support to selected projects

6.4 – Financial Management and Resource Mobilization

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

BSR Associates are statutory auditors of SSN trust, who perform statutory audit and also file form 10B for SSN Trust on yearly basis. Further, SSN Trust has in house internal audit department which perform internal audit across all departments at regular intervals and submit report to audit committee.

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
HCL Corp Pvt Ltd and KRN Education Pvt Ltd	36000000	Corpus donation for Capex

6.4.3 – Total corpus fund generated

36000000

6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	TUV Rheinland India Pvt Ltd Chennai	Yes	SSN Senior faculty members
Administrative	Yes	TUV Rheinland India Pvt Ltd Chennai	No	

6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

Three unit test marks are informed to the parents. Parents are called for a meeting with the subject teachers if a student has failed in more than 3 subjects and also for lack attendance.

6.5.3 – Development programmes for support staff (at least three)

Lab Assistant Mr. M. Giridharan upgraded his qualification to B.E. Special Talk "Motivating people for clean Environment and clean mind on 8.6.2018. Workshop on Organizational Commitment Employee Motivation by Mrs. Radha Subramaniam

6.5.4 – Post Accreditation initiative(s) (mention at least three)

remedial measures to improve PEOs and POs attainment, industry institute relationship To develop documentation software tool for the institution To improve the coding skills To submit at least one student level proposal for internal funding

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	Yes
c) ISO certification	Yes
d) NBA or any other quality audit	Yes

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2017	Workshop on career exploration and guidance	05/06/2017	04/07/2017	05/07/2017	700
2017	IPR Awareness Programme by ASSOCHAM	05/06/2017	25/07/2017	25/07/2017	250
2017	Address by Dr. Shiv Nadar	05/06/2017	02/08/2017	02/08/2017	900
2017	Workshop on Effective Implementation of Autonomous System	05/06/2017	28/08/2017	28/08/2017	50
2018	FDP on Communication Skills	05/06/2017	10/02/2018	10/02/2018	250

CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
No Data Entered/Not Applicable !!!				

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources
10.5 KW capacity solar power energy system and 63 nos. of 500 LPD solar water heaters are installed. Two class rooms are powered by solar energy.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries

Physical facilities	Yes	3
Provision for lift	Yes	3
Ramp/Rails	Yes	3
Rest Rooms	Yes	1

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2017	3	4	03/07/2017	66	Internships, Industry Project, Field visit, Social service	Lake cleanup, Dengue awareness, Ground water survey, Lake safari, Teach a school	255
2018	3	4	02/01/2018	6	Internship, Industry Project, filed visit and Social activities	Polio Immunization, Public Library Volunteering, Voters Registration camp, Street Play on Environmental Awareness, Turtle Walk	367

7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Students Code of conduct	03/08/2017	Every year issued to the students

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Model United Nations (MUN)	04/09/2017	16/09/2017	200
SYCON SSN Youth Conference	14/03/2018	14/03/2018	90

7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

1. Tobacco free campus 2. Plastic free campus 3. Organic farm started by YRC 4. Growing tree across the campus 5. solar powered geysers at campus hostels 6. solar powered charging points 7. Bicycles to commute within the campus

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Scholarship worth approximately Rs. 4 crore to students disbursed every academic year Research funds to faculty and students as seed money for selected Projects Incentives for research achievements in Journal publications, Patents and funded projects

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

Innovation and incubation center Research ambience World class Infrastructure for sports

Provide the weblink of the institution

8. Future Plans of Actions for Next Academic Year

Implementation of LMS: LMS Moodle scheme was implemented in this academic year 20172018. Faculty members have been uploading the lecture notes, assignments, answer keys, tutorials, on the LMS page which could be accessed by students using the internet. The metrics of usage, planned improvisations, difficulties faced while accessing the content and a schedule for maintenance is planned for this academic year 20182019. The other targets planned for the next academic year are: 1. To achieve more than 80 pass percentage in each subject and an overall pass percentage of above 85. 2. To achieve at least 600 research publications in International Journals every year. 3. To achieve at least 150 University ranks in UG and PG every year. 4. To conduct at least 60 Seminars/Workshops/ FDPs during this academic year. 5. To arrange at least 30 guest lectures in various areas this year. 6. To facilitate at least 5 STTPs this year. 7. To promote at least 10 International conferences this year.