



## **Sapthagiri College of Engineering**

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### **R&D, Entrepreneurship Committee & Incubation Centre(RDECI)**

### **ANNUAL REPORT**

### **ACADEMIC YEAR-2015-16**

**Sapthagiri College of Engineering**  
**ACADEMIC YEAR-2015-16**

**ACTIVITY-1**

**Research and Consultancy Projects**

Sl. No	Name of the Project/ Endowments, Chairs	Name of the Principal Investigator /Co-investigator	Department of Principal Investigator	Year of Award	Amount Sanctioned (Rs)	Duration of the project	Name of the Funding Agency	Type (Government /Non-Government)
1	Pollution Study On Polymeric Surge Arrestor	Dr K N Ravi	Electrical And Electronics	2015-16	3,000	6 Months	Karnataka State Council For Science And Technology - 39th Series - SPP	Government
2	Next Generation E-Voting System For Elderly And Blind Users`	Prof. Karthik N. C.	Electronics And Communication	2015-16	4,000	6 Months	Karnataka State Council For Science And Technology - 39th Series - SPP	Government
3	Study On The Chemical Composition And Invitro Evaluation Of Their Pharmacological Activity	Dr. Ananda S	Bio Technology	2015-16	6,000	6 Months	Karnataka State Council For Science And Technology - 39th Series - SPP	Government
4	Simarouba Oil-Cake: The Solid Low Value Substrate To Produce Lipase With Potential Application In Bio-Diesel Extraction And To Assay The Toxicity Of Phytochemical In Inhibition Of Lipase Activity	Prof. Shobha G	Biotechnolog y	2015-16	13,000	6 Months	Karnataka State Council For Science And Technology - 39th Series - Biofuel	Government
5	Duel Biofuel Production from Microalgae	Prof Prashanth Kumar H P/ DrRhoith K C/Prof Saranya D	Biotechnolog y	2015-16	9,000	6 Months	Karnataka State Council For Science And Technology - 39th Series - Biofuel	Government
6	Aggregate Crypto system for	Prof	Information	2015-	3000	6 Months	Karnataka State	Government

	Scalable data sharing in cloud Storage	PreranaChaitra	Science & Engineering	16			<b>Council For Science And Technology - 39th Series - SPP</b>	
7	Ayurvedic Medicinal Kit	Prof. Saranya D/ Prof. H P Prashanth Kumar	Biotechnology	2015-16	40,000	6 Months	<b>VGST-TRIP</b>	Government
8	Study Of Anti-Oxidant Enzyme And Anti-Oxidant Properties Of Tomato Plant	Prof. Shobha G /Prof.Sowmya C	Bio-Technology	2015-16	2,84,625	1 Year	<b>Sapthagiri College Engineering</b>	Non-Government

## **ACTIVITY-2**

**Journal, Conference and Books**

**Journals**  
**UGC LISTED**

Sl.No	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISBN/ISS N number
1	Modelling solubility of phenolics of mango ginger extract in supercritical carbon dioxide using equation of state and empirical models	Krishna Murthy TP	BT	Journal of Food Science and Technology	Sep-15	00221155
2	Bee-inspired routing the ultimate routing process for energy efficient MANET	Dr. Sasmita Mohapatra	EC	International Journal of Applied Engineering Research	Sep-15	9734562
3	Optical properties of erbium doped bismuth tellurite glasses	K. Keshavamurthy	Physics	Advanced Science Letters	Jan-16	19366612
4	Influence of size and location of a thin baffle on natural convection heat transfer in a vertical annular enclosure	Pushpa B V	Mathematics	Journal of Applied Fluid Mechanics	Jan-16	17353572
5	Europium doped boro-bismuth-tellurite glasses for multicolor phosphor applications	K. Keshavamurthy	Physics	Canadian Journal of Physics	Feb-16	0008-4204
6	In silico exploration of cyclooxygenase inhibitory activity of natural compounds found in Myrica nagi using LC-MS	Prashanth Kumar HP	BT	Symbiosis	Jun-16	0334-5114
7	Spectrophotometric determination of some cephalosporins in bulk and in pharmaceutical formulations.	Roopa K. P	Chemistry	Analytical chemistry letters	Jun-16	22297928
8	Terephthalic acid derived ligand-stabilized palladium nanocomposite catalyst for Heck coupling reaction: without	Krishna B.S	Chemistry	Applied organometallic chemistry	Jun-16	1099-0739

	surface-modified heterogeneous catalyst					
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**UGC DELISTED**

	<b>Title of paper</b>	<b>Name of the author/s</b>	<b>Department of the teacher</b>	<b>Name of journal</b>	<b>Year of publication</b>	<b>ISBN/ISSN number</b>
1	A Review on Antimicrobial and Antioxidant Properties of Anisomeles malabarica	Saranya D/Prashanth Kumar HP/Rohit KC	Biotechnology	Research & Reviews : A Journal of Ayurvedic Science, Yoga & Naturopathy	November-December, 2015	23956682
2	A Review on Nano Biosensors and its Applications	Saranya D	Biotechnology	Nano Trends: A Journal of Nanotechnology and Its Applications	January-March, 2016	0973418X
3	A review on scaffolds used in tissue engineering and various fabrication techniques	Saranya D	Biotechnology	International Journal of Research in Biosciences	Febuary - 2016	23192844
4	<a href="#">Power Generation From Kitchen And Industrial Waste Water Using Microbial Fuel Cells (Mfcs) With Graphite Cathode And Anode</a>	Sowmya C/Shobha G	Biotechnology	Journal Of Alternate Energy Sources And Technologies	26-Jul-16	22307982
5	BIOACCUMULATION OF HEAVY METALS BY FUNGI	Blessy Baby Mathew	Biotechnology	International Journal of Advances in Scientific Research	Oct-15	
6	Dye Sensitized Solar Cells: The Emerging Technology	Blessy Baby Mathew	Biotechnology	Energy and Power Engineering Science	Aug-15	
7	THE CHARACTERISTICS, TOXICITY AND EFFECTS OF	Blessy Baby Mathew	Biotechnology	International Journal and	Jul-15	<b>2397-5547</b>

	CADMIUM			Nanoscience		
8	The importance, extraction and usage of some floral wastes	Blessy Baby Mathew	Biotechnology	J Biotechnol Bioinform Bioeng	Jul-15	
9	Health effects caused by metal contaminated ground water	Blessy Baby Mathew	Biotechnology	International Journal of Advances in Scientific Research	2015	2395-3616
10	PRODUCTION OF BIOETHANOL FROM AN AGRO WASTE, PROCESSED ARECA CATECHU WATER	Shobha G	Biotechnology	Int J Pharm	April - June - 2016	<b>9756299</b>
11	Fatigue Analysis of A panel consistig of window cutout and frames in the fuselage af a transport air frame	Ramesh NG				
12	Discovering Coherent assosiation rules using Propositional method	Veena K R	CSE	International Journal for Scientific Research and Development	May-16	23210613
13	Maximizing Accuracy of Electricity Load Forecasting with Deep Learning”	Kamalakshi Naganna	CSE	International journal for technological research in engineering	May-16	

14	Hardware implementation of artificial neural networks using back propagation algorithm on FPGA	Chaithra P	ECE	IJRET	May-16	23191163
15	Packet Switched Wormhole Router Design and Low LatencyAdapter Design for NOC Architecture and its FPGA implementation	Suma V Shetty	ECE	International Journal for scientific research and development(IJSRD)	Jun-16	23210613
16	Design and simulation of compact multiband microstrip fractal patch antenna for C-band application	Thippeswamy E	ECE	IJIRCCE	Jun-16	23209801
17	Study on self healing Metalized polypropylene Film Capacitor and its Uncoupling behaviour of current gates	Dr.Ravi K NShivakumara Swamy R, Dr. R Prakash	EEE	International Journal of Power Systems and Power Electronics	April -2016	
18	Fatigue Analysis of a Panel Consisting of Window cutout and frames in the fusilage of a transport Airframe	Ramesh N G	ME	International reserch journal of engineering and technology	Apr-16	23950056
19	Development of energy saving methods in gas heating used for pressure cooker on a gas store by reduction of heat lossess	Raghuthama Rao	ME	International advances in Engineering technology	Feb-16	22311963

20	Biogas from biodegradable kitchen waste	Dr. Manjunath S H	ME	Journal of Engineering & Fundamentals	Dec-15	21490325
21	Sensitive and validated spectrophotometric methods for the determination of Phenylephrine Hydrochloride and Pyridoxine Hydrochloride in pharmaceuticals using Ce(IV) ammonium sulphate and N-bromosuccinimide based on redox reaction.	Roopa K. P	Chemistry	International Journal of Biological & Pharmaceutical Research	Aug-15	9763651
22	<a href="#">Alternative Approach to Evaluation of Absorption Correction Factor for Cylinder using Generalised Gaussian Quadrature Rule</a>	Kiran S	Mathematics	<a href="#">Annals of Pure and Applied Mathematics</a>	Jan-16	2279087X

## **Conference and Books**

Sl. No.	Name of the teacher	Title of the book/chapters published	Title of the paper	Title of the proceedings of the conference	Name of the conference	National / international	Year of publication	ISBN number of the proceeding
1	Dr.Sasmita Mohapatra		Stable Cluster Maintenance Scheme for Bee-AdHoc-C: An Energy-Efficient and Scalable Multipath Routing Protocol for MANET	Conference Proceedings Third International Conference on Advances In Computing, Control And Networking - ACCN 2015	Conference Proceedings Third International Conference on Advances In Computing, Control And Networking - ACCN 2015	International	28-Dec-15	978163248082-8
2	Agalya P	<a href="#">Information Systems Design and Intelligent Application</a>	A detailed review on color image contrast enhancement algorithms for real time applications			International	4-Feb-16	978-81-322-2756-4

		<a href="#">ons</a>						
3	MH Annaiah	<u>Design of Machine Elements-I</u>				National	2015	9788122430462
4	MH Annaiah	<u>Design of Machine Elements-II</u>				National	2016	9788122428384
5	Prathibha P		E-health Smarth Networked System	National conference on recent trends in electronics and communication engineering		National	1-May-16	23951303
6	Jagadeesha Gowda G V / Devaraja C		<a href="#">Electrical Properties of Praseodymium Oxide Doped Boro-Tellurite Glasses</a>	AIP Conference Proceedings	AIP Conference Proceedings	International	1-May-16	20190
7	KN Ravi		Study of High frequency characteristics of	2015 International Conference	2015 International Conference on Trends in	International	16-Jun-16	9781467366670

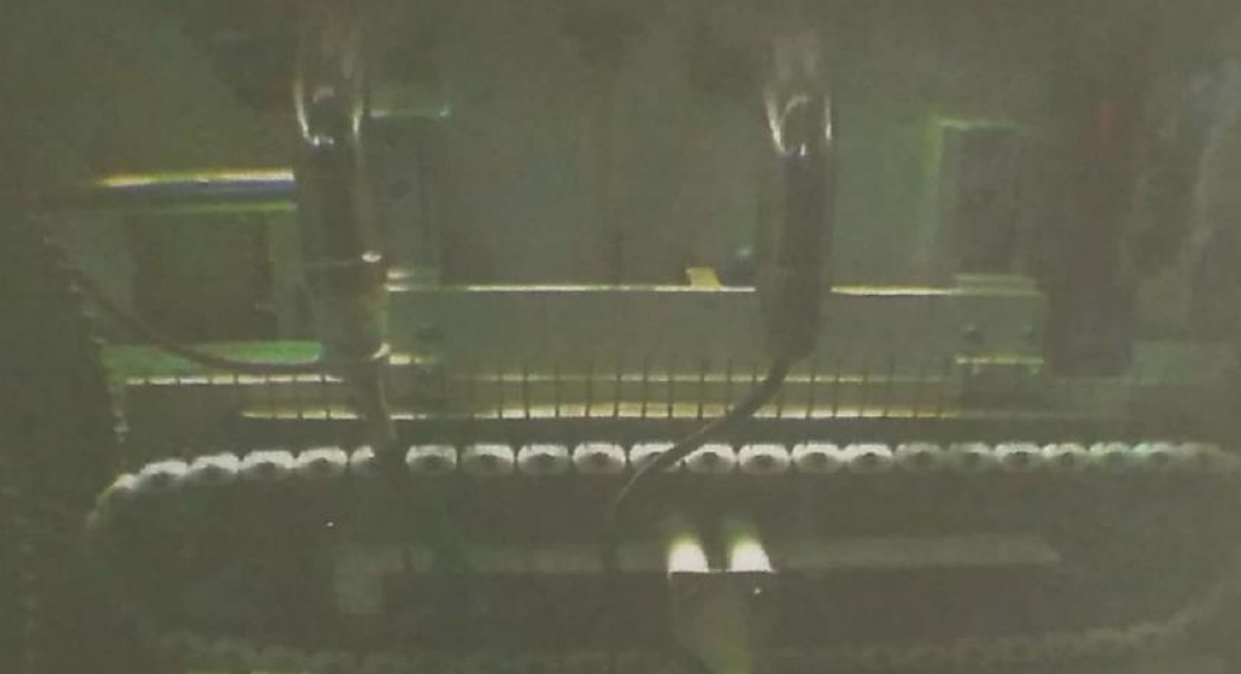


			metal oxide surge arrester	on Trends in Automation, Communications and Computing Technology (I-TACT-15), At Bangalore, India, Volume: 01	Automation, Communications and Computing Technology (I-TACT-15),			
8	Thimmaraja Yadava G		Noise elimination in degraded Kannada speech signal for Speech Recognition	2015 International Conference on Trends in Automation, Communications and Computing Technology (I-TACT-15)	2015 International Conference on Trends in Automation, Communications and Computing Technology (I-TACT-15)	International	16-Jun-16	9781467366670
9	Vani V		Color image enhancement techniques in Wireless Capsule Endoscopy	2015 International Conference on Trends in Automation, Communications and Computing Technology	2015 International Conference on Trends in Automation, Communications and Computing Technology (I-TACT-15)	International	16-Jun-16	9781467366670

				(I-TACT-15)				
10	Anjali Patil		<a href="#">Sidelink based device to device communication in LTE-A</a>	4 th National Conference on Design Innovations for 3C s “Compute-Communicate-Control”	4 th National Conference on Design Innovations for 3C s “Compute-Communicate-Control”	National	1-Jul-16	23203765

NEW AGE

# DESIGN OF MACHINE ELEMENTS-II



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NEW AGE

# DESIGN OF MACHINE ELEMENTS-I



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## **ACTIVITY-3**

### **Workshops and seminars on RDEIC**

<b>SN</b>	<b>AY</b>	<b>Topic</b>	<b>Type</b>	<b>Number of Participant</b>	<b>Date</b>
1.	2015-16	Introduction to IPR	IPR	29	03.08.2015
2.	2015-16	Organizational Leadership and change	ENP	467	10.08.2015



