

# St. JOSEPH'S COLLEGE OF ENGINEERING

OMR, CHENNAI - 119

## Activity Report of Staff Workshop Organized 2014-2015

S. No	Name of the Workshop	Resource Person Details	Date Conducted	No. of Participants	Name of the coordinator	Goal/Aim of the workshop
1	Two day workshop on ARM Processor	Dr.Ramani Kalpathy ARM Academy, Chennai.	12/2/2015 13/02/2015	40	Dr.S.Justin Packia Jacob, R& D Centre	To give enough exposure on ARM Processor.
2	National Workshop on Biofuels and Bioenergy	1.Dr.Muthukumar, Dept Of Environmental Sciences, Bharathiar University, Coimbatore. 2.Dr.E.Padmini, Dept of Chemical Anna university ,Chennai. 3.Dr.N.Vedaraman, Chemist, CLRI,Chennai	9/4/2014	48	Dr.G.Baskar (Biotech)	To meet the growing demand for biofuel, it is important to create technically trained, challenging and innovative manpower in the field of biotechnology from educational institutions and research organizations to develop industrially viable commercial processes in the area of biofuels and bioenergy.

3	Biofuels and BioEnergy	1.Dr.Muthukumar, Dept Of Environmental Sciences, Bharathiar University, Coimbatore. 2.Dr.E.Padmini, Dept of Chemical Anna university ,Chennai. 3.Dr.N.Vedaraman, Chemist, CLRI,Chennai	9/4/2014	210	Dr.R.Baskaran (Chemical Engg.)	Awariness on recent Development in Biofuel and alternate Energy.
4	Cloud Computing	1.Mr.V.A.Prabha Sr.Engineer,CDAC 2.Mr.S.Kailash, Sr.Engineer,CDAC 3.Mr.E.Mahendran,Sr.Engineer,CDAC	04/9/2014	47	Dr.B.Parvathavarthini, Dr.P.Muthuchelvi, Ms.G.Lathaselvi, Dr.I.Felci Rajam (CSE)	The level of handling Cloud Computing in industries varies significantly from that being handled in institutions. To bridge this gap, a workshop on Cloud Computing is being conducted by our college in association with Centre for Development of Advanced Computing(CDAC).
5	Simulation Of Communication Networks	Dr.S.HARINARAYANAN	04/09/2014	13	MS.D.Sungeetha  Department of Electronics and Communication Engg.,	Focussed on Communication Networks, Adhoc and Multimedia.

6	Impact of Distributed Generation on Grid	1.Mr.S.Selvakumar, ABB Global industries, Chennai. 2.Mr. C. Nalla Sivan, Deputy Senior Manager, Tamil Nadu Energy Development Agency (TEDA), Chennai.	04/09/2014	38	Dr.T.V. Narmadha Ms.. S.P.Vedavalli Mr.H.Umesh Prabhu (EEE)	Impact of Distributed Generation (Solar, Wind, Biomass & Small Hydro) on a. Voltage Profile b. Equipment Loading c. Losses d. Short Circuit Level e. Stability f. Power Quality - Harmonics g. Protection and Relay Coordination h. Islanding and load shedding issues.
7	National Workshop on Model Based System Engineering for Embedded Applications	Mr. Sivaprakash (iELECTRONICS)	04/09/2014	15	Dr. P. Deepa, Mr. K. Muthukumaran, K. Palani Thanaraj (EIE)	To equip faculty members with information of the recent advancements in Embedded Systems and Applications.
8	National Workshop on Cloud Computing	1.Mr.Kailash, Sr.Engineer CDAC 2.Ms.V.A.Prabha, Sr.Engineer, CDAC 3.Mr.E.Mahendran, Sr.Engineer CDAC	4/09/2014	21	1.Dr.V. Muthulakshmi, 2.Dr. L. Sherly Puspha Anabel (IT)	To introduce Cloud Computing with numerous examples in order to have better and in-depth knowledge and to develop practical and

						analytical knowledge using Simulator Tools.
9	FDTP on Computer Architecture	<p>1.Dr.V.Sankaranarayanan, Professor of Eminence</p> <p>2.Dr. V. Vaidehi, Professor</p> <p>3.Dr. D. Venkata Vara Prasad, Professor</p> <p>4.Dr. T. V. Gopal</p> <p>5.Dr. A. Jaya, Professor</p> <p>6.Dr. Hari Narayanan, Professor</p> <p>7 Dr. Vasumathi Narayanan, Professor</p> <p>8.Dr. D. Doreen Hephzibah Miriam, Professor</p> <p>9.Dr. R. Priscilla, Professor</p> <p>10.J. Padma, Assistant Professor</p> <p>11.Dr. P. Muthu Chelvi, Professor</p> <p>12.Dr. G. Maria Kalavathy, Professor</p> <p>13.Dr. G. Murugesan, Professor</p>	12/06/2014 to 19/06/2014	18	<p>1.Dr. Lilly Raamesh</p> <p>2. Dr. Murugesan</p> <p>3. Dr.C.Heltin Genitha (IT)</p>	To train the participants to gain the knowledge about the input/output organization, memory and processor and to introduce the subject with numerous examples in order to have better and in-depth knowledge To develop practical and analytical skills using Simulator Tools.
10	National Workshop on Cloud computing	Mr.S.Kailash Senior Engineer, CDAC,Chennai	04/09/2014	24	Dr.B.Parvathavarthini (MCA)	Cloud computing in industries to learn XEN,Eucalyphus.
11	Multi-Objective Optimization	<p>1.Dr. R. Panneerselvam, Professor, Pondicherry University, Puduchery</p> <p>2.Dr. R.RajMohan, Associate</p>	9/4/2014	25	<p>1.Dr.N.Arunkumar</p> <p>2.N.E.Arun Kumar (Mechanical Engg.)</p>	Multi objective Optimization using mathematical and statistical techniques

	(MOO 2014)	Professor, Dept. of Industrial Engineering, CEG,Anna University, Chennai. 3.Dr.M.Kantha Babu, Professor, Dept. of Manufacturing Engineering, CEG,Anna University, Chennai.				like Taguchi, Grey Relational Analysis (GRA) and Response Surface methodology (RSM) are commonly used in the industry.
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### Activity Report of Staff Workshop Organized 2015-2016

S. No	Name of the Workshop	Resource Person Details	Date Conducted	No. of Participants	Name of the coordinator	Goal/Aim of the workshop
1	National Workshop on Biofuels and Bioenergy	1. Dr. T. Viruthagiri, Annamalai University 2. Dr. S. Renganathan Anna University, Chennai. 3. Dr. R. Vinu Indian Institute of Technology Madras. 4. Dr. M. Matheswaran National Institute of Technology Trichy. 5. Dr. N. Stalin Anna University, Chennai (Trichy)	03/09/2015 - 04/09/2015	58	Dr.G.Baskar (Biotech)	To meet the growing demand for biofuel, it is important to create technically trained, challenging and innovative manpower in the field of biotechnology from educational institutions and research

		Campus). 6. Dr. Anbarasu Aavin, Chennai.				organizations to develop industrially viable commercial processes in the area of biofuels and bioenergy.
2	Safety and Design Aspects in Process Industries	1.Mr.D.Sundarasekaran, GM ,MFL, Chennai 2.Mr.K.M.Krishnan, Senior Principal Engineer, MFL, Chennai	21/08/2015	210	Dr.R.Baskaran (Chemical Engg.)	To create on Process Safety.
3	Graph Theory and Applications - CS6702	1)Ms. K.S.Ramalakshmi Manager-Project, Cognizant 2)Dr. Sharmila Arul Professor , Department of Mathematics Jeppiaar Engineering College 3)Dr. M.P. Jeyaraman Professor , Department of Mathematics Government College of Engineering 4)Dr. P. Sivarama Krishna Das Professor and Head , Department of Mathematics, KCG College of Technology 5)Dr. J. Baskar Babujee Associate Professor, Department of Mathematics, Madras Institute of	27/5/2016 - 03/06/2016	20	Dr A.Chandrasekar Dr G.Murugesan (CSE)	1) Find precise and accurate mathematical definitions of objects in graph theory. 2)Use mathematical definitions to identify and construct examples. 3) Validate and critically assess a mathematical proof. 4). Use a combination of theoretical

		Technology, Anna University 6)Dr. V. Vijayalakshmi Professor, Department of Mathematics, VIT – Chennai Campus				knowledge and independent mathematical thinking in creative.  5) Investigation of questions in graph theory. 6)Reason from definitions to construct mathematical proofs.
4	Embedded Systems	Mr.Saravanakumar	14/08/2015	12	Ms.D.Sungeetha (ECE)	Focussed on PSOC,PSOC4, ARM.
5	National Workshop on FPGA Based PWM Control for Power Converters	Mr.Govindasamy, MiY Circuits, Bangalore.	20/08/2015	15	Dr.T.V. Narmadha Mr.H.Umesh Prabhu Ms. S.P.Vedavalli (EEE)	To Learn about Fundamentals of FPGA and VHDL Programming.
6	National Workshop on Wireless Sensor Networks	Kamala Krishnamoorthy Benchmark Electronic systems Pvt Ltd	28/08/2015	12	Dr. P. Deepa, Mr.K. Muthukumaran (EIE)	To expose the faculty and participants to the concepts of Wireless Sensor Networks in IoT platform &

						Software Defined Radio.
7	National workshop on wireless sensor networks	Benchmark Electronic systems Pvt Ltd.	28/08/2015	10	Mr. Vijaya Ram Raj Rangam (ICE)	To familiarize with Wireless sensor networks.
8	Structural Equation Modelling Techniques	1.Dr.G.Ramasundaram Asso Prof,Dept of MBA St.Joseph's College of Engineering 2.Dr.G.Rajendiran Prof & Head,Dept of MBA Anna university ,Chennai	04/09/2015	30	Dr.G.Ramasundaram Dr.S.Sudha (MBA)	To Provide insight to the researchers on the use of SEM model and path analysis.
9	National Workshop on Big Data Analytics	Mr.Ravikant, Manager CTS, Chennai	18/08/2015	48	Dr.B.Parvathavarthini (MCA)	To anlyse data usage of analytics tools such as Hadoop, Stream computing.
10	Advanced Optimization Techniques for Engineering Research (AOT2015)	1.Dr. M.RajMohan, AssociateProfessor, Dept. ofIndustrial Engineering, CEG,Anna University, Chennai 2.Mr. K.Gokulnath, Research scholar, Ramanujam Computing Centre, CEG,AnnaUniversity, Chennai.	31/08/2015	21	1.Dr.N.Arunkumar 2. N.E.Arun Kumar (Mechanical Engg.)	Workshop deals with Advanced Optimization Techniques such as <ul style="list-style-type: none"> <li>▪ Genetic Algorithm</li> <li>▪ Artificial Neural Networks</li> <li>▪ Fuzzy Logic</li> </ul>



**Activity Report of Staff Workshop Organized  
2016-2017**

<b>S. No</b>	<b>Name of the Workshop</b>	<b>Resource Person Details</b>	<b>Date Conducted</b>	<b>No. of Participants</b>	<b>Name of the coordinator</b>	<b>Goal/Aim of the workshop</b>
1	One day Workshop on Intellectual Property Rights & Innovations	Dr.M.Kantha Babu, Director, Centre for Intellectual Property Rights, Anna University, Chennai.	04/10/2016	40	Dr.S.Justin Packia Jacob, R& D Centre	To create awareness on how to start patent related research work, to prepare patent files, and make ready necessary documents.
2	National Workshop on Biofuels and Bioenergy.	1. Dr. S. Renganathan Professor, Anna University- Chennai. 2. Dr. K. Chandraraj Asso. Professor, Indian Institute of Technology Madras. 3. Dr. A. Meenakshisundaram R&D Centre, CPCL, Chennai 4. Er. D. Gohul, Scientist, ISRO-Satish Dhawan Space Centre SHAR, Sriharikota.	02/09/2016 - 03/09/2016	52	Dr.G.Baskar (Biotech)	To create technically trained, challenging and innovative manpower in the field of biotechnology from educational institutions and research organizations to develop industrially viable commercial processes in the area of biofuels and bioenergy.
3	Emerging Technology in Chemical Engineering	1.Dr.Durga Jeevitha, Former Principal , Vins Christian College Of Engineering 2. Dr.Nagarajan , IIT Chennai	09/09/2015	210	Dr.R.Baskaran (Chemical Engg.)	Recent technology on renewable energy resources.

4	Advances in Concrete and Construction Technology	<p>1. Dr. K. P. Jaya, Professor, Division of Structural Engineering, Anna University, Chennai.</p> <p>2. Dr. K. Chinnaraju, Associate Professor, Division of Structural Engineering, Anna University, Chennai.</p> <p>4 Dr. S. Anne Ligorla, Professor and Dean, Department of Civil Engineering, Jerusalem College of Engineering.</p>	26/9/2016	07	<p>Dr. A. Rose Enid Teresa</p> <p>Department of Civil</p>	This workshop provides an opportunity to get exposure to the basics as well as advancements in concrete and construction technology.
5	Cognitive Radio Technology	Dr.P.T.V.Bhuvaneshwari	10/15/2016	8	<p>Ms.D.Sungeetha</p> <p>Department of Electronics and Communication Engg.</p>	Focused on Cognitive Radio Communication, Reconfigurable ANTENNA, CD(SDR).
6	Grid connected and Isolated Micro Grid Design using Homer	<p>1.Mr.S. Selvakumar, Project Specialist Engineer, MicroGrid &amp; Distributed Generation, ABB Global Industries Ltd</p> <p>2.Mr.K Ezhil Aniruthan, Sr.Engineer - Power System Studies, M/s PowerProjects.</p>	10/09/2016	15	<p>Dr.T.V. Narmadha</p> <p>Mr.H.Umesh Prabhu</p> <p>Ms. S.P.Vedavalli (EEE)</p>	<p>Introduction to Grid connected Solar Plant Design using PvSyst</p> <p>Stand Alone Solar Plant Design</p> <p>Introduction to MicroGrid Design</p>

7	National Workshop on Analog System Design using TINA Simulator Module	1.Dr. K. Rathnakannan, 2.Mr. Nagarjuna	02/09/2016	11	Dr. P. Deepa, Mr. K. Muthukumaran (EIE)	To give exposure to the faculty members to the concepts of Analog System Design using TINA simulator module which enables the participant to design an analog system independently.
8	National workshop on Analog system design using TINA simulator module	Texas Instruments	09/02/2016	12	1.Dr.C.Selvakumar, 2.Mr.K.Muthukumaran (ICE)	To familiarize with TINA simulator.
9	Recent Trends & Developments in I.C engines	1.Dr.G.Nagarajan, Professor,I.C. engines CEG,Chennai 2.Dr.M.Venkatramanan, Asst Prof (Sr Grade), CEG,Chennai. 3.Dr.M.Senthilkumar, Asso Prof MIT,Chennai	23/09/2016	8	Dr.S.Arivazhagan Mr.T.Gavaskar Department of Mechanical Engg.	To know the advancements and techniques in the area of IC engines for the research scholars.

**Activity Report of Staff Workshop Organized  
2017-2018**

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1	National Workshop on Biofuels and Bioenergy.	Dr.S.Venkatamohan CSIR-Indian Institute of Chemical Technology	15/09/2016 - 16/09/2016	65	Dr.G.Baskar (Biotech)	Focused on technological development in the area of Biodiesel production,Bioethanol, Biofuels from Microbial Fuel Cell
2	Disaster Modeling and its Impact Assessment	<ul style="list-style-type: none"> <li>• Dr. V. Deepak Samuel Scientist D – Marine Ecologist Conservation for Coastal and Marine Resources, National Centre for Sustainable Coastal Management, MoEF &amp; CC, GoI,AnnaUniversity, Chennai</li> <li>• Dr. R. Saravanan, Associate Professor, Centre for Water Resources, Anna University, Chennai</li> </ul>	24/9/2017	19	Dr. A. Rose Enid Teresa (Civil)	This workshop provides a chance to enhance their knowledge in the field of modelling with respect to Flood, Oil Spillage and post impact assessment.
3	Problem Solving and Python Programming - GE8151	1.Mrs. Madhavi Ravanan Head of SI Delivery Testing NOKIA 2.Mr.J.Balraj Senior Software Developer UNIQ Technologies	06/9/2017 - 08/09/2017	19	Dr A Chandrasekar & Mr A Prabhu Chakkaravarthy (CSE)	To Obtain Programming Knowledge on Python

		<p>3.Ms.V.Suthanthira Priya Senior Software Developer IC Tech Engineering Solutions</p> <p>4.Mr.G.Raja Sekar Senior Software Developer IC Tech Engineering Solutions</p> <p>5.Mr.M.Kishok Kumar Senior Software Developer UNIQ Technologies</p>				
4	Understanding Subspace Methods For Array Signal Processing Applications	<p>1.Prof. Dr.N.Venkateswaran,</p> <p>2.Dr.M.A.Atmanand</p>	<p>12/07/2017 - 13/07/2017</p>	50	<p>1.Dr. S.Aghalya, 2.Dr.P.Ezhilarasi (ECE)</p>	<p>This workshop aims to present the MUSIC method for Source localization problem in a geometrical approach. This workshop is designed to provide the hands-on training on Matlab for the participants.</p>
5	Advances in Technology for Sustainable Energy based Applications	<p>1. Dr. G. Uma Professor &amp; Head, EEE Department, College of Engineering, Anna University, Chennai</p> <p>2. Dr. S. RamaReddy Former Professor, Anna University, Dean Research/Professor, EEE</p>	08/04/2017	13	<p>Dr. T. V. Narmadha Dr. M. Venmathi Ms. S. P. Vedavalli (EEE)</p>	<p>Fundamentals, of the different renewable energy technologies, wind, solar, bioenergy, hydro, and geothermal energy.</p> <ul style="list-style-type: none"> <li>• General overview of renewable energy</li> </ul>

		Department Jerusalem College of Engineering Chennai 3. Dr. M. G. Umamaheshwari Professor & Head /EEE Department, Rajalakshmi Engineering College.				technologies and applications.  • Hands on training: PWM Generation using Ardiuno.
6	Introduction to Big Data Analytics	Ms.Kamatchi Devi,  Technical Trainer  ICT Academy	14/12/2017 To 15/12/2017	31	Dr.V.Muthulakshmi Mr.C.J.Raman (IT)	Practical Foundation level training in Big Data and Analytics.
7	Faculty Development programme on Calculus and its applications	1. Dr. R. Usha Professor of Mathematics IIT Madras 2. Dr. S. Sundar Professor of Mathematics IIT Madras	18/08/2017	20	Dr. K. Sasikala, (Mathematics)	The purpose of studying calculus is simply to introduce your mind to the scientific method of analysis. Through calculus, practical problems can be explored, explanations generated through interactions and arrive at logical solutions as a result of the meaningful interactions.
8	Manufacturing	Dr.A.J.Jagadeesan	29/08/2017	12	1.Dr.N.Arunkumar	The Manufacturing

	Analytics for Industrial Applications and Research(MAAR 2017)	Head-Methods Engineering Lucas TVS Chennai Tamil Nadu India.			2. N.E.Arun Kumar (Mechanical Engg.)	Analytics goes beyond philosophies and has a diagnostic approach in resolving complex real world situations through application of various available tools and techniques in an integrated manner so as to achieve the required evolution of knowledge & solution. application.
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