

JEPPIAAR ENGINEERING COLLEGE

**DEPARTMENT OF ELECTRONICS AND
INSTRUMENTATION ENGINEERING**

DEPARTMENT ACHIEVEMENTS

ACADEMIC YEAR (2014 -15)

JEPPIAAR ENGINEERING COLLEGE

DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

STUDENTS ACHIEVEMENTS

- Our department has achieved 6 **Anna University ranks** from the batch 2010-14
- Signed MOU with Steinbeis Solar Research Center on 30th October 2014
- Ms.Swetha has received a **honoree of \$1000** to attend **the International IEEE Power and Energy Student Congress to be held at Turkey** from IEEE representing the Asian Pacific Countries between 29th – 31st August 2014
- Our student TOMIN JOSEPH is selected as a **Google Ambassador**
- One of our Student V.GOWTHAM has attended **ALL INDIA QUIZ COMPLETION** (online) and won cash prize & certificate
- More than 20 of our students are **pursuing M.S in foreign universities** like NANYANG TECHNOLOGICAL UNIVERSITY, SINGAPORE, UNIVERSITY OF ILLINOIS, CHICAGO, WARSAW UNIVERSITY OF POLAND, KAUNAS UNIVERSITY OF TECHNOLOGY – LITHUANIA, UNIVERSITY OF WINDSOR – CANADA, STATE UNIVERSITY OF NEW YORK – STONYBROOK, etc.,
- Conducted 12 Workshops and Seminars during the academic year 2014 – 15 in association with ISA and ISOI

ANNA UNIVERSITY RANK HOLDERS (2010-2014 BATCH)

Ms.RAJALAKSHMI R
RANK:- 23



Ms.LINDA MAGDELINE J
RANK:- 25



Ms. HEMALATHA H
RANK:- 37



CGPA: 8.69
Mr.RAMACHANDRAN R
Ms.USHA R

CGPA:8.67
Mr.JAMES PAUL RAJ V
Ms.BABIYOLA S

CGPA:8.54
Mr.HARIKRISHNAN A
Ms.GEETHA H

Ms. NIVEDHIDHA N
RANK:43



Ms.INDHUMATHI R
RANK :- 43



Ms. SWARNALATHA R



CGPA:8.48
Mr.NATARAJAN M
Ms.SELVAMANI N

CGPA:8.48
Mr.RAVICHANDRAN V
Ms.THIRUMANI SELVI R

CGPA:8.42
Mr.RAJU S
Ms.GOMATHY R

STUDENTS PUBLICATIONS

Sl. No	Authors	Title of the Paper	Name of the Journal/conference	Volume / (Issue) / Page No.	Year
1	VIMALA SWETHA	A PROFICIENT IMAGE FUSION APPROACH FOR MEDICAL APPLICATIONS	NCET NRES EM	IEEE Conference proceedings	2014
2	SANKARAKRISHNAN SARAVANAN D SELVAKUMARANAN	BIO MEMS BASED SENSOR FOR ACUTE AND CHRONIC PAIN MAMAGEMENT	NCET NRES EM	IEEE Conference proceedings	2014
3	JIM ISSAC.D EUGENE KINGSLEY.H	NATIONAL CONFERENCE ON EMBEDDED SYSTEMS AND ADVANCED COMMUNICATION SYSTEMS ESAACS14 AT VELTECH CHENNAI	ESAACS'14	IEEE Conference proceedings	2014
4	PRIYANKA.R KIRUTHIKA.S PADMA PRIYA.R	COMPARATIVE STUDY OF PID,IMC,AND IMC BASED PID CONTROLLER FOR PRESSURE PROCESS	ICON STEM	Conference proceedings	2015
5	VISALAKSHI	REVIEW ON SOLAR PV TRACKER DESIGN IMPLEMENTATION TECHNIQUES	VENT'15	Conference proceedings	2015
6	AYISHWARIYA VISALAKSHI	ENERGY IMPROVEMENT IN SOLAR PV TRACKING SYSTEMS	ICON STEM	Conference proceedings	2015
7	SWETHA.S	COMPARITIVE ANALYSIS OF IMAGE FUSION TECHNIQUES TO DIAGONOSE TUMOUR IN TRANSCRANIAL	ICON STEM	Conference proceedings	2015
8	SHIRLY PREETHI.X RUBA SUGANYAA	DESIGN OF POWER ELECTRONIC CONVERTER FOR FUEL CELL HYBRID SYSTEM APPLICATION	ICON STEM	Conference proceedings	2015
9	RAJKUMAR VIVEKVENKATASUBR AMANIAN ATCHAI VIKNESH	INCREASED EFFICIENCY SOLAR PV PANEL USING INTEGRATED TECHNIQUES	ICON STEM	Conference proceedings	2015
10	SUJITHRA	DESIGNING OF AUTOMIZED MAV FOR SURVELLIANCE ON LAND AND SEA	AESCII	Conference proceedings	2015
11	SUJITHRA KIRUBA NANTHINI	DESIGNING OF AUTOMIZED MAV FOR DEPTH DETERMINATION IN SEA	ICON STEM	Conference proceedings, IJRRSET	2015
12	SHRADHA SUBHASREE SUGANYA	PLC BASED INNOVATIVE BRAKING SYSTEM FOR SAW TABLE	OSIET	Conference proceedings	2015

13	AMRUTHA GEETHANJALI SAKTHI PRIYADHARSHINI	COMPARISON OF BRIDGE AND BRIDGELESS CUK CONVERTER FOR POWER FACTOR IN LED USING SOFT SWITCHING TECHNIQUE	ICON STEM	Conference proceedings	2015
14	NIVIDYA HARINNI DHARINI	PHOTOVOLTAIC DRIVEN SWITCHED CAPACITOR MULTILEVEL INVERTER WITH SELF VOLTAGE BALANCING	ASPEA 2015	Conference proceedings	2015
15	DIVYA VISHNU PRIYA RAJALAKSHMI	PLC BASED AUTONOMOUS AUTOMATIC GUIDED VEHICLE FOR MATERIAL HANDLING	OSIET	Conference proceedings	2015
16	PRIYA ELAKKIYA PHILOMINNA	DETECTION OF DAMAGES IN BRICKS USING IR SENSOR	ICON STEM	Conference proceedings, IJRASET	2015
17	ABINAYA SANKARARESHWARI	A SURVEY ON VOTING SYSTEM TECHNIQUE	ICON STEM	Conference proceedings	2015
18	SELVAKUMARAN R SARAVANAN D	PAIN ASSESSMENT FOR PATIENTS USING IMPLANTABLE BIO-MEMS SENSOR	ICON STEM	Conference proceedings	2015
19	ARVIND BALAJI ADITHYA	A SURVEY ON DIFFERENT CONTROLLERS USED IN DISHWASHER	ICON STEM	Conference proceedings	2015
20	JOSE VISHMI NIVEDHA SANGEETHA	COMPARITIVE STUDY OF TENS WITH NEURO PROSTHESIS USING FES	ICON STEM	Conference proceedings	2015
21	PRITHI JULIA	A NEW REVOLUTIONARY SYSTEM TO DETECT THE HUMAN BEINGS BURIED UNDER EARTHQUAKE RUBBLE BY MICROPROCESSOR	ICON STEM	Conference proceedings	2015
22	SARANYA U JAYABHARATHI	FACE RECOGNITION USING IMAGE PROCESSING FOR VISUALLY CHALLENGED	ICON STEM	Conference proceedings	2015
23	JAYASHREE ANGEL DIANA	AUDITORY GUIDE FOR THE VISUALLY CHALLENGED	ICON STEM	Conference proceedings	2015
24	ROJA R	A SURVEY ON MECHANICAL MODELLING ,CONTROL AND LOCOMOTION OF SNAKE ROBOTS	ICON STEM	Conference proceedings	2015
25	JIM ISSAC D EUGENE KINGSLEY	STALLERTION	ICON STEM	Conference proceedings	2015
26	V.GOWTHAM G.B.HARI S.KADAR MYDEEN	WIRELESS POWER TRANSMISSION FROM UAV TO GROUND LOAD USING IMAGE PROCESSING TECHNIQUE	-	JCHPS	2015
27	ANBU SELVAN VIVEKANANTH ANTONY JEROME	BUILDING MANAGEMENT SYSTEM USING PLC AND SCADA	-	JCHPS	2015

28	VIMALA SWETHA SAINIVEDITHA	A SURVEY ON PROFICIENT IMAGE FUSION APPROACH FOR MEDICAL RELEVANCE	-	IJAER	2015
29	INDUPRIYA ABILASHINI VINUDEVI	A SURVEY ON INSTRUMENTATION NAMPLIFIERS USED FOR BIOMEDICAL APPLICATIONS	-	IJAREEIE	2015
30	G.SURENDER RAJ D.VIGNESH A.RUBERT REX	AUTOMATIC EDGE DETECTION OF INFECTED LEAF BY AN AERIAL ROBOT(UAV) – BASED ON IMAGE PROCESSING	AESCII	Conference proceedings	2015
31	J.ARUN KUMAR S.GRAHAM BEN A.LEON	WHEEL CHAIR CONTROL USING BRAIN CONTROL INTERFACE(BCI)	AESCII	Conference proceedings	2015
32	D.VIGNESH A.RUBERT REX P.A.VIGNESH RAJ	DESIGN OF A CHAMELEON ROBOT IN MILITARY APPLICATIONS	AESCII	Conference proceedings	2015
33	NIVEDITHA V SURIYA	ENERGY MANAGEMENT USING ZIGBEE	ICON STEM	Conference proceedings	2015
34	NAVEEN KUMAR.N BALASUBRAMANIAN BARANI	PRODUCTION OF ELECTRICITY USING PEIZO MAT IN PUBLIC PLACES	ICON STEM	Conference proceedings	2015
35	SHRUTHI.J THERESA THOMAS LIDIYA VARGHESE	DESIGN AND ANALYSIS OF APPROXIMATE COMPRESSORS FOR MULTIPLICATION	ICON STEM	Conference proceedings	2015

COCURRICULAR ACHIEVEMENTS

SNO	STUDENT NAME	YEAR	COCURRICULAR ACTIVITIES/SYMPOSIUM
1	ANUSHIYA	III-B	WON IST PRIZE IN PAPER PRESENTATION(PRODUCTION OF ELECTRICITY FROM PHOTO SYNTHESIS)) OF CYNOSURE 2K 14 AT HINDUSTAN UNIVERSITY
	GAYATHRI.R		
	VINODHINI.B		
2	MISHAL MOHANRAJ	III-A	WON IIND PRIZE IN PAPER PRESENTATION(GREEN CELLULAR NETWORK) OF CYNOSURE 2K 14 AT HINDUSTAN UNIVERSITY
	OLIVE DINU.J		
3	ROJA . R	III-B	PARTICIPATED IN THE EVENT BRAIN WAR OF JET ELITEZ 14 AT JEPPIAAR ENGG COLLEGE
4	MONISHA NICOLAS	II-A	PARTICIPATED IN THE EVENT MAKE A BOTOF JET ELITEZ 14 AT JEPPIAAR ENGG COLLEGE
	NANDHINI.J		
5	CHANDRASEKAR.M	III-B	PARTICIPATED IN PCB WORSHOP CONDUCTED DURING EUPRAXIA14 ,NATIONAL LEVEL SYMPOSIUM AT SSN ENGG COLLEGE

6	ANUSHIYA	III-B	PARTICIPATED IN MATLAB WORSHOP CONDUCTED DURING EUPRAXIA14 ,NATIONAL LEVEL SYMPOSIUM AT SSN ENGG COLLEGE
	GAYATHRI.R		
	VINODHINI.B		
	CHANDRASEKAR.M		
	GNANA SOUNDARI		
7	VIDYA.K	III-B	PARTICIPATED IN ARDUINO WORSHOP CONDUCTED DURING EUPRAXIA14 ,NATIONAL LEVEL SYMPOSIUM AT SSN ENGG COLLEGE
	SOWMIYA		
	ARTHI PRIYADHARSHINI		
	RATHIGA.R		
	NANDHINI.P.R		
	SARAVANAN.J		
	NANDHA KUMAR.P		
	BINDUJA.K.R		
	ANGELINE ESTHER.S		
	SARANYA.N		
	SUPRAJA.V		
	MEENAKSHI SUNDARAM.C		
	ALQUEEN EBENEZER.T		
	CHANDRAGIRI.S		
	TAMILARASAN.L		
CHANDRASEKAR.M			

ISA

CHAPTER

ACADEMIC YEAR (2014-15)

Workshop on “Industrial automation using PLC” - 27.08.2014

The Department of Electronics and Instrumentation in association with ISA Student Chapter conducted a one day National level Technical workshop on "Industrial Automation using PLC" at Jeppiaar Engineering College on the **27th of August , 2014**. The workshop was attended by **114** students (81-ISA members and 33 non-ISA members) .The workshop, was handled by Mr. G.Sathyamoorthy from Technocrat Automation. The participants were from the 2nd, 3rd and 4th year of E&I.

Best manager and JUMP event - 19.08.2014 & 03.09.2014

On the 2nd of September 2014 JUMP (Junior Mini Project) was organized by the ISA student branch of Jeppiaar Engineering College. About 30 participants in 12 teams participated in the event. The judge’s panel included Mrs. R Sasikala and Mrs.K Revathi. The participants presented papers which were innovative and dealt with cutting-edge technology namely MEMS, Robotics, Process Control, Automation, Nano-Technology, Image Processing and Bio-Medical Instrumentation. The event commenced by 8:30 am and the papers were presented. The judging criterion was based on the presentation, originality, quality and contribution to the society.

Workshop on “Introduction to Arduino robot programming & ABB protocol design” - 05.03.2015 – 06.03.2015

The Department of Electronics and Instrumentation in association with ISA Student Chapter conducted a two days National level Technical workshop on "Introduction to Arduino Robot Programming & ABB Protocol Design" at Jeppiaar Engineering College on the **5th & 6th of March, 2015**. The workshop was attended by **99** students (46-ISA members, 38-non-ISA members and 15 other college students).The

workshop, was inaugurated in the presence of our beloved Director Madam Mrs. M. Regeena Jeppiaar, Chief guest Dr.Vimala Juliet, Principal Dr. Sushil Lal Das and our Head of Department Dr. G. Sathyabama. The participants were from ISA, 2nd & 3rd year of Jeppiaar Engineering College and from other colleges.

ISOI

STUDENT CHAPTER

ACADEMIC YEAR (2014-15)

National level technical workshop on “Advanced embedded controllers & hands on training on ARM7 processor”- 17.07.2014 – 18.07.2014

The Department of Electronics and instrumentation in association with **INSTRUMENT SOCIETY OF INDIA** conducted a **NATIONAL LEVEL TECHNICAL WORKSHOP** on “**ADVANCED EMBEDDED CONTROLLERS & HANDS ON TRAINING ON ARM7 PROCESSOR**” on 17th and 18th July, 2014 at Jeppiaar Engineering College. The workshop banner was unveiled by our esteemed director **Mrs.M.Regeena Jeppiaar** in the presence of **Dr.P.VanajaRanjan**, head of embedded system technologies, Anna university Chennai, principal **Dr.SushilLal Das** and Head of the department **Dr.G.Sathiyabama**. The function was attended by the HOD’s of all departments and faculty members. Then chief guest addressed students on “Role of Embedded system for smart grid”. She gave brief introduction about embedded systems and its role in various engineering applications.

National level technical project Expo - 24.03.2015

The Department of Electronics and instrumentation in association with **INSTRUMENT SOCIETY OF INDIA** conducted “**NATIONAL LEVEL PROJECT EXPO- 2K15**” on 24th, March, 2015 at Jeppiaar Engineering College. The Judge of the event **DR.R.RAMADEVI**, HOD , Dept. of Electronics and Instrumentation Engineering, Sathyabama University has judged nearly 55 projects presented by the students from various colleges. Students from various colleges namely RMD College of Engineering, Jaya Engineering College, Panimalar Institute of Technology, Velamaal Engineering college, Mayilam Engineering college, RMK engineering college, IFET engineering college, Sri Sairam Engineering College, Adhiparashakthi Engineering

college, SA Engineering college, Dhanalakshmi Srinivasan College of Engineering , Satyabama University and AMET University have participated in the Project Expo with nearly 55 projects being displayed.

GUEST LECTURE

S.NO	BATCH	SEM/YEAR	DATE	NAME OF THE DELEGATE	COMPANY / INSTITUTION
1	2013-17	II Yr	14/07/2014	MR.VISHNUVARDHAN.J	TREND INSTRUMENTATION AND AUTOMATION PVT. LTD.
	2012-16	III Yr			
2	2011-15	IVYR	21/08/2014	MR.ANANDH RAJKUMAR	YOKOGAWA-CHENNAI
3	2013-17	II Yr	8.12.14	MR.UANAJA RANJAN	PROFESSOR , ANNA UNIVERSITY
	2012-16	III Yr			
4	2013-17	II Yr	23.1.15	MR.CHENTHAMARAI SELVAM	CSIO
	2012-16	III Yr			
5	2011-15	IVYR	24.1.15	DR.THBUGNAMURTHY	IGCAR
6	2011-15	IVYR	24.1.15	MR.SUNDARASEKARAN	MFL
7	2013-17	II Yr	18.2.15	MR.MANOHRAN	SRI SIVASAKTHI ENGINEERING WORKS
	2012-16	III Yr			

INDUSTRIAL VISIT

S.NO	SEM/YEAR	DATE OF VISIT	BATCH	NAME OF THE INDUSTRY
1	III/II	19-08-2014 & 21-08-2014	2013-201 7	MADRAS ATOMIC POWER STATION,CHENNAI
2	IV/II	19-02-2015	2013-201 7	JEPPIAAR CEMENT FACTORY, ARIYALLUR
3	IV/II	13-02-2015	2013-201 7	IGCAR, CHENNAI

4	V/III	17-08-2014	2012-201 6	JEPPIAAR CEMENT FACTORY, ARIYALLUR
5	V/III	3/2/2015	2012-201 6	SHREE ENGINEERING WORKS, KARAPAKKAM, CHENNAI
6	VII/IV	25-08-2014	2011-201 5	JEPPIAAR MILK FACTORY, TIRUVANNAMALAI

STAFF ACHIEVEMENTS

CONFERENCE AND SEMINARS

- A total of 16 out of 13 staff members have participated in the seminars and workshop conducted in various engineering colleges during 2014-2015 odd semester
- A total of 18 out of 17 staff members have participated in the seminars and workshop conducted in various engineering colleges during 2014-2015 even semester

STAFF PUBLICATIONS

- Dr G Sathiyabama , P A Gowrisankar ,” Low power high speed cnfet based 3 input xor function and application”, International Journal of Applied Engineering Research, Vol 9 , No: 24(2014), PP 27523-27536.(Annexure II)
- Dr G Sathiyabama,K Revathi, J Nithya ,” Study of secure data hiding in audio steganography using lsb algorithm” ,International Journal of Applied Engineering Research, Vol 9 , No: 25(2014), PP 8666-8669. (Annexure II)
- R SASIKALA , “Operation of induction motor using four switch three phase inverter using pwm technique”, International Journal of Applied Engineering Research, Vol 9 , No: 25(2014), PP 8711- 8717. (Annexure II)
- Dr.G.Sathiyabama, A.Vimala, S.Swetha, “A Survey on proficient image fusion approach for medical relevance”, International Journal of Applied Engineering Research”, Vol 10, No:4(2015), PP- 3486-3489. (Annexure II)
- P.Shunmugakani, Nividhya, Harinni, Dharini, “Photo voltaic driven switched capacitor multilevel inverter with self voltage balancing”, International Journal of Applied Engineering Research, Vol 10, No:4 (2015), PP- 3604-3607. (Annexure II)
- J. Nithya, Dr.G.Sathiyabama, K.Revathi , “Comparative Study of low power low area bypass multipliers for signal processing applications”, International Journal of Engineering Research & Applications, Vol.5 No:95-98(2015), Impact factor 1.69.
- Benjamin Arul ,”Wireless Home Automation System using Zigbee” ,International Journal of Scientific & Engineering research, Vol.5, No:12(2014), Impact factor 3.2.

- T.Elakkiya ,A.Anitta ," Comparative Study of Manual Lubrication and Automatic Lubrication", International Journal of Engineering Research & Applications,Vol.5, No:2, (Feb 2015), PP.16-20 2248-9622.
- Dr.G.Sathiyabama, V.Devisudha , “ Development of communication device for blind-deaf people:Mobile form glove “,Journal of chemical and pharmaceutical sciences, Vol 8,(Mar 2015),PP 143-146,0974-2115. (Annexure II)
- V.Jeyalakshmi Devi, R.Sasikala “Design of an automized micro aerial vehicle (MAV) for surveillance on land, air & in water” ,Journal of chemical and pharmaceutical sciences, Vol 8,(Mar 2015),PP 120-125,0974-2115. (Annexure II)
- K.Ambika,”Power Generation using pressure from road side vehicles and piezoelectric pressure transducer and inventor” ,International journal of innovative research & development, Vol 4,No:3,(Mar-2015),PP-21-24,2278-0211.
- Dr.G.Sathiyabama, Indupriya, Abilashini, Vinudevi,”A Survey on Instrumentation Amplifiers used for Bio medical Applications”,Vol 4 No:3,PP-1224,2320-3765(print),2278-8875(online),Mar 2015. (Annexure II)
- V.Jeyalakshmi Devi,Sujithra,Kiruba Nanthini , “Designing on Automized Mav (Micro Aerial Vehicle) For Depth Determination In Sea”, International Journal on Recent Researches in Science, Engineering and Technology, Vol.3, Issue 4, April 2015. ISSN (Print) 2347-6729 ; ISSN (Online) 2348-3105.
- Ms.Sudha Rajayogan,V.Gowtham,G.B.Hari,S.kadar mydeen, “Wireless power transmission from UAV to ground load using image processing technique”, Journal of chemical and pharmaceutical sciences, Special Issue:9, (Apr 2015),PP 312-314, ISSN - 0974-2115. (Annexure II)
- Ms.P.Shunmugakani, Anbu selvan, Vivekananth, Antony Jerome, “Building management system using PLC and SCADA”, Journal of chemical and pharmaceutical sciences, Special Issue:9, (Apr 2015),PP 328-330, ISSN - 0974-2115. (Annexure II)
- Ms.P.Shunmugakani, Ms.Sudha Rajayogan “Energy up gradation using Solar PV tracker techniques”, Journal of chemical and pharmaceutical sciences, Special Issue:9, (Apr 2015),PP 353-356, ISSN - 0974-2115. (Annexure II)
- Ms.V.Devisudha, Priya ,Elakkiya , Philominna, “Detection Of Damages In Bricks Using IR Sensor”, International Journal on Recent Researches in Science, Engineering and Technology, Vol.3, Issue 4, April 2015. ISSN (Print) 2347-6729 ; ISSN (Online) 2348-3105.