



Jyothi Engineering College

NAAC Accredited College with NBA Accredited Programmes*

Approved by AICTE & affiliated to APJ Abdul Kalam Technological University

A CENTRE OF EXCELLENCE IN SCIENCE & TECHNOLOGY BY THE CATHOLIC ARCHDIOCESE OF TRICHUR

JYOTHI HILLS, VETIKATTIRI P.O. CHERUTHURUTHY, THRISSUR. PIN-679531 PH: +91- 4884-259000, 274423 FAX : 04884-274777




NBA accredited B.Tech Programmes in Computer Science & Engineering, Electronics & Communication Engineering, Electrical & Electronics Engineering and Mechanical Engineering valid for the academic years 2016-2022. NBA accredited B.Tech Programme in Civil Engineering valid for the academic years 2019-2022.

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Dr. SUNNY JOSEPH KALAYATHANKAL
M.Tech, MCA, M.Sc, M.Phil, B.Ed
Ph.D (Computer Science), Ph.D (Maths)
PRINCIPAL
Jyothi Engineering College
Cheruthuruthy P.O.-679 531



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1. Workshop on Innovations in Electronics and Communication Engineering

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www.jec.ac.in | Email: info@jec.ac.in

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Date: 25/7/17

NOTICE


The ECE department of Jyothi Engineering College organizing a Workshop on "Innovations in Electronics and Communication Engineering" on 3/08/2017 in association with the ISTE and ECSA. All the second year students should participate in the program without fail. The attendance is compulsory.

Resource Person: Ms. Neethu Rose Thomas, AP ECE

Venue: S8 Class Room , ECE Dept

J. Perally
HOD ECE

Dr. Jose P. Therattil
M.Tech., Ph.D. (NIT)
Professor & HOD, ECE Department
Jyothi Engineering College
Cheruthuruthy, Thrissur - 679 531



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Report on

Topic : Workshop on

“Innovations in Electronics and Communication Engineering”

By

Dr. Ms. Neethu rose Thomas
AP, ECE, JECC

Date: 3-08-2017

Time: 2:30 PM to 4 PM

Venue: S8 ECE Class Room

Organised By: ISTE and ECSA

The ISTE in Association with Electronics and Communication Students Association (ECSA) conducted a workshop titled “Innovations in Electronics and Communication Engineering” on 03-Aug-2017. The Session was handled by Ms. Neeth Rose Thomas, AP ECE. 2nd year students of Electronics and Communication Engineering Department attended the programme.

Dr. Jose P Therattil, HOD welcomed the gathering and resource person Ms. Neeth Rose Thomas, AP ECE handled the workshop on ‘Innovations in Electronics and Communication Engineering’ at 2.30 PM. The workshop came to an end with a Vote of thanks by ECSA student member Ms. Anu Mariya Vincent.

Photo Gallery:



HoD

Anu 15

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(17-18) *

Nominal Roll Semester III- ELECTRONICS & COMMUNICATION ENGINEERING - A

YEAR OF ADMISSION : 2016

SL.NO.	REG. NO.	NAME OF THE STUDENT	SIGNATURE
1	JEC16EC002	ADRIAN GEORGE	<i>Adrian</i>
2	JEC16EC004	AISWARYA K N	<i>Aiswarya</i>
3	JEC16EC005	AJAY T S	- Ab -
4	JEC16EC006	AJITH ANTONY	- Ab -
5	JEC16EC007	AKHILA KRISHNAKUMAR	<i>Akhila</i>
6	JEC16EC008	AMAL PREM	<i>Amal Prem</i>
7	JEC16EC009	AMAL UNNIKRISHNAN	<i>Amal</i>
8	JEC16EC010	AMARNATH K R	<i>Amarnath</i>
9	JEC16EC011	AMITH T V	- Amith TV -
10	JEC16EC012	ANAGHA RAJEEV	- Anith TV -
11	JEC16EC013	ANJANA K G	<i>Anjana</i>
12	JEC16EC014	ANU ANTO	<i>Anu Anto</i>
13	JEC16EC015	ANU MARIYA VINCENT	<i>Anu Mariya</i>
14	JEC16EC016	APARNA S	<i>Aparna</i>
15	JEC16EC017	ARCHANA CHANDRAPRAKASH	<i>Archana</i>
16	JEC16EC019	ASHILA MATHEWS	<i>Ashila</i>
17	JEC16EC020	ATHIRA K	<i>Athira K</i>
18	JEC16EC021	ATHIRA S	<i>Athira S</i>
19	JEC16EC022	AVIN K V	- Ab -
20	JEC16EC023	BASIM MEHAR N	<i>Basim</i>
21	JEC16EC025	BESY T B	<i>Besy TB</i>
22	JEC16EC026	BHUVANESH S S	<i>Bhuvanesh</i>
23	JEC16EC027	BINITHA P B	- Ab -
24	JEC16EC028	CATHERINE C JEJO	<i>Catherine C Jejo</i>

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Amal

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YEAR OF ADMISSION : 2016

25	JEC16EC029	CHINMAYI G PANICKER	<i>Chinmayi</i>
26	JEC16EC030	CHITHRA A B	<i>Ab</i>
27	JEC16EC031	DEEPAK KRISHNAN P	<i>Deep</i>
28	JEC16EC033	DERRIN RAPHEAL	<i>Derrin</i>
29	JEC16EC034	DIVIJ K SAJAN	<i>Divij</i>
30	JEC16EC035	DIVINE MATHEW	<i>Ab</i>
31	JEC16EC037	FATHIMATH NIHALA	<i>Fathimath</i>
32	JEC16EC038	FEBIN RINSON KANNUKADAN	<i>Febin</i>
33	JEC16EC039	FREDRICH FRANCIS	<i>Fred</i>
34	JEC16EC040	GILNA JOY	<i>Ab</i>
35	JEC16EC041	GREESHMA K	<i>Greeshma</i>
36	JEC16EC042	HARISH T S	<i>Ab</i>
37	JEC16EC043	INDUJA	<i>Induja</i>
38	JEC16EC044	JISHNU V NAIR	<i>Ab</i>
39	JEC16EC045	JOHNSON P	<i>Johnson</i>
40	JEC16EC046	JOSEPH P B	<i>Joseph</i>
41	JEC16EC047	JULIT THOMAS	<i>Julit</i>
42	JEC16EC048	KARTHIKA VIJAYAKUMAR	<i>Kartika</i>
43	JEC16EC049	KAVYA SUNIL	<i>Kavya</i>
44	JEC16EC050	LAKSHMI P	<i>Lakshmi</i>

Joseph



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(17-18) 7

Nominal Roll Semester III ELECTRONICS & COMMUNICATION ENGINEERING - B

YEAR OF ADMISSION : 2016

SL.NO.	REG. NO.	NAME OF THE STUDENT	SIGNATURE
1	JEC16EC051	LANA KOLLATH	<i>[Signature]</i>
2	JEC16EC052	MANU JENSON	<i>[Signature]</i>
3	JEC16EC053	MAREENA MARIYA ABRAHAM	<i>[Signature]</i>
4	JEC16EC054	MARIAN DAVIS KATTUKARAN	<i>[Signature]</i>
5	JEC16EC055	MARY JEETHU A J	<i>[Signature]</i>
6	JEC16EC056	MUBASHIRA K M	<i>[Signature]</i>
7	JEC16EC057	MUHAMMED ARSHAD	<i>[Signature]</i>
8	JEC16EC058	NANDANA K	<i>[Signature]</i>
9	JEC16EC059	NARAYANAN M B	<i>[Signature]</i>
10	JEC16EC061	NIKHIL K J	<i>[Signature]</i>
11	JEC16EC062	NIMISHA M S	<i>[Signature]</i>
12	JEC16EC063	NIMISHA TONY	<i>[Signature]</i>
13	JEC16EC064	NITHIN MOHAN	<i>[Signature]</i>
14	JEC16EC065	OLIVIA NELSON	<i>[Signature]</i>
15	JEC16EC066	PAVITHRA P	<i>[Signature]</i>
16	JEC16EC067	P DHANYA RAJ	<i>[Signature]</i>
17	JEC16EC068	POOJA P	<i>[Signature]</i>
18	JEC16EC069	PRANAV P	<i>[Signature]</i>
19	JEC16EC070	PRASOBH K P	<i>[Signature]</i>
20	JEC16EC071	PRINCE BENNY	<i>[Signature]</i>
21	JEC16EC072	PRIYA K	<i>[Signature]</i>
22	JEC16EC073	RADHIKA	<i>[Signature]</i>
23	JEC16EC074	RINOSHA K R	<i>[Signature]</i>
24	JEC16EC075	RIYA ALBERT	<i>[Signature]</i>
25	JEC16EC076	RIYA P S	<i>[Signature]</i>

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YEAR OF ADMISSION : 2016

26	JEC16EC077	ROSHNI J NAIR	<i>[Signature]</i>
27	JEC16EC078	SACHIN P.S.	<i>[Signature]</i>
28	JEC16EC079	SAFNA M	<i>[Signature]</i>
29	JEC16EC080	SAJIN SHAJI	<i>[Signature]</i>
30	JEC16EC081	SANDHRA S	<i>[Signature]</i>
31	JEC16EC082	SANGAMITHRA	<i>[Signature]</i>
32	JEC16EC083	SARANYA M NAIR	<i>[Signature]</i>
33	JEC16EC084	SARATHRAJ	<i>[Signature]</i>
34	JEC16EC085	SHAHAN FATHIMA K	<i>[Signature]</i>
35	JEC16EC086	SHAHLA P MOHAMMED	<i>[Signature]</i>
36	JEC16EC087	SHAMSEENA T A	<i>[Signature]</i>
37	JEC16EC088	SHARAN SHASHINDRAN A	<i>[Signature]</i>
38	JEC16EC089	SIBIN KRISHNA C	<i>[Signature]</i>
39	JEC16EC090	SREEJITH VIJAYAKUMAR	<i>[Signature]</i>
40	JEC16EC091	SREELAKSHMI R	<i>[Signature]</i>
41	JEC16EC092	SREERAG K M	<i>[Signature]</i>
42	JEC16EC093	SREERAG T K	<i>[Signature]</i>
43	JEC16EC094	SREERAG V V	<i>[Signature]</i>
44	JEC16EC095	SRUTHIMOL N T	<i>[Signature]</i>
45	JEC16EC096	SRUTHISHA SASI	<i>[Signature]</i>
46	JEC16EC097	SUCHITHRA T S	<i>[Signature]</i>
47	JEC16EC098	SWETHA SARA GEORGE	<i>[Signature]</i>
48	JEC16EC099	VISHNU K	<i>[Signature]</i>
49	JEC16EC100	VISHNU PRAKASH	<i>[Signature]</i>
50	JEC16EC101	VISHNU V	<i>[Signature]</i>
51	LJEC16EC102	CHRISTEENA PAULSON	<i>[Signature]</i>
52	LJEC16EC103	MUHAMED MUBIN	<i>[Signature]</i>
53	JEC16EC030	MANU SHARMA	<i>[Signature]</i>



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3

Feedback Form

YOUR FEEDBACK WOULD BE APPRECIATED!

Please fill out the form below and let us know how you rate the sessions

INNOVATIONS IN ELECTRONICS AND COMMUNICATION ENGINEERING

Resource Person: Ms. Neethu Rose

Name (Optional): _____

SCALE	1-STRONGLY AGREE	2-AGREE	3-NEUTRAL	4-DISAGREE	5-STRONGLY DISAGREE			
			1	2	3	4	5	Comments
1.	Did you find the class to be informative and valuable?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.	Was the course material presented in a clear and organized manner?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
3.	What were your expectations from the program?	<i>Good Expectation</i>						
4.	Did the program meet your expectations?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
5.	What is your key learning from the session?	<i>New trends in ECE</i>						
6.	How is this program going to influence your career?	<i>update about the new trends in ECE</i>						

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2.

Research Methodology (STTP)

HOW TO APPLY

Interested candidates have to send scanned copy of the Registration form duly certified by the Head of the Institution, to the STTP mail: sttp@jecc.ac.in, so as to meet the important dates specified.

REGISTRATION FEE:

Faculty	₹ 1,000/-
PG Scholars	₹ 700/-

IMPORTANT DATES

Submission of Accepted copy of duly signed registration form	31 st December, 2016
Submission of Selected Participants	1 st January, 2017
STTP Day	11 th - 15 th January, 2017

HOW TO REACH

COLLEGE ADDRESS

Jyothi Engineering College, Jyothi Hills,
Vetikattiri P.O., Cheruthuruthy, Thrissur
Kerala - 679531
☎ 04884 274198 04884 274423

ROUTE MAP

ORGANIZING COMMITTEE

CHIEF PATRON

His Grace Mar Andrews Tharath,
Arch Bishop of Archdiocese of Thrissur

PATRONS

- Msgr. Thomas Kakkassery, Manager, JECC
- Fr. Roy Joseph Vadakkan, Asst. Manager (A & AS), JECC
- Fr. Joju Chiriyankandath, Asst. Manager (F), JECC
- Fr. Jinto Perreppadan, Asst. Manager (P) & PRO, JECC

ADVISORY COMMITTEE

- Dr. K. K. Babu, Principal, JECC
- Dr. Riji Ramchand, Associate Professor, NIT Calicut
- Dr. M. Nandakumar, Professor & Head, GEC Thrissur
- Dr. Subash, IEEE Photonics, Madras Section Chairperson
- Fr. Thomas Mathew, Administrator, JECC
- Fr. Bobby Peter, Asst. Administrator, JECC

CONVENOR

Prof. Ratnan P., HoD, Dept. of EEE

COORDINATORS

- Dr. Jarin T., Associate Professor, Dept. of EEE
ph: 09829 629332 ee: jarint@jecc.ac.in
- Mr. Shijob V., Assistant Professor, Dept. of EEE
ph: 09544 800860 ee: shijob@jecc.ac.in
- Ms. Della David, Assistant Professor, Dept. of EEE
ph: 09995 177222 ee: delladavid@jecc.ac.in



SHORT TERM TRAINING PROGRAMME

on

"RESEARCH METHODOLOGY"

11th - 15th January 2017

Organized By

DEPARTMENT OF
ELECTRICAL & ELECTRONICS
ENGINEERING

Technically equipped with
IEEE PHOTONICS SOCIETY
in Association with



Indian Society for Technical Education (ISTE)
JECC Chapter (KE-045)

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ABOUT THE COLLEGE

Jyothi Engineering College, Cheruthuruthy under Trissur Educational Trust founded by the Catholic Archdiocese of Trissur, started functioning at Cheruthuruthy in the year 2002. Jyothi Engineering College is a Center of Excellence in Science & Technology run by the Catholic Archdiocese of Trissur. With a visionary management, a team of dedicated faculty and a set of devoted staff and with the comparable infrastructural and instructional facilities in a quiet and studious rural environment, Jyothi has emerged as a Model among the self-financing colleges in Kerala. Within a decade it has achieved an enviable position as the fourth best Engineering College in the State and stands third among the Engineering Colleges affiliated to the University of Calicut. Recently the college is NAAC Accredited.

ABOUT THE DEPARTMENT

The Department of Electrical and Electronics Engineering started its journey in the year 2002 and is committed to a tradition of excellence in teaching, Research and Consultancy service. With well qualified, devoted and dedicated team of teaching and non teaching members of staff, the Department is NBA Accredited. The Department always strives for imparting Quality Technical Education for the Under Graduate & Post Graduate Program (M.Tech in Power Electronics) so as to enable the students competent enough to meet the challenges of globalization with the state-of-the-art equipments and laboratories and good interaction with industries.

ISTE JECC CHAPTER

ISTE Chapter of JECC is very active and has bagged Best Emerging Chapter Award from ISTE Kerala Section and regularly organizes ISTE Sponsored Faculty Development programs for the benefit of members of Faculty all over India.

COLLEGE VISION

Creating eminent and ethical leaders through quality professional education with emphasis on holistic excellence.

COLLEGE MISSION

- To emerge as an institution par excellence of global standards by imparting quality engineering and other professional programmes with state-of-the-art facilities.
- To equip the students with appropriate skills for a meaningful career in the global scenario.
- To inculcate ethical values among students and ignite their passion for holistic excellence through social initiatives.
- To participate in the development of society through technology incubation, entrepreneurship and industry interaction.

DEPARTMENT VISION

To become a centre of excellence in electrical and electronics engineering through high quality technical education with emphasis on holistic excellence.

DEPARTMENT MISSION

To inculcate ethical professionalism through value based quality education as to equip the students with appropriate skills for a meaningful career and holistic excellence and promote creative engineering ideas for the benefit of the society.

OBJECTIVES OF STTP

The Objective of the Program is to give the participants a basic understanding of Research Methodology and their utility, thereby enhancing their potential to conduct the research activities. Participants will get motivated to publish in top-notch journals by understanding the expectations of editors in such journals.


RESOURCE PERSONS

- Dr. C. Krishna Mohan
Associate Professor, IIT Hyderabad.
- Dr. T. D. Subash
IEEE Photonics, Madras Section Chairperson
- Dr. S. Sunitha
Asst Prof., School of Management Studies, NIT Calicut.
- Dr. C. Arunachalaperumal
Professor, S. A. Engineering College Chennai.

MAJOR PROGRAMME CONTENTS

Overview of research - Types of Research - Characteristics of good Research - Challenges in Identifying Research Problem - Literature Review - Phases involved and presentation of Literature Review - Identification of Research Gap - Defining Problem statement - Research Design - Research Hypothesis Formulation - Statistical Tools - Test of Hypothesis - Correlation and Regression Analysis - Numerical Modeling - Simulation - Optimization - Error Estimate Analysis - Preparation of Research Reports - Developing Research Proposals for Acquiring Grants from Different Funding Agencies - Preparation of Technical Papers - Journal / Conference Selection for Publication - Overview of Journals, Indexing, Citation, Ethics, Plagiarism etc.

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Ph.D (Computer Science), Ph.D (Maths)
PRINCIPAL
Jyothi Engineering College
Cheruthuruthy P.O.- 679 531



Jyothi Engineering College

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A CENTRE OF EXCELLENCE IN SCIENCE & TECHNOLOGY BY THE CATHOLIC ARCHDIOCESE OF TRICHUR

JYOTHI HILLS, VETTIKATTIRI P.O. CHERUTHURUTHY, THRISSUR. PIN-679531 PH: +91- 4884-259000, 274423 FAX: 04884-274777



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STTP on "RESEARCH METHODOLOGY"

11th - 15th January 2017

Organized By

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

in association with Indian Society for Technical Education (ISTE) - JECC Chapter (KE-045)

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Arch Bishop of Archdiocese of Thrissur

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CONVENOR

Prof. Ratnan P., HoD, Dept. of EEE, JECC

COORDINATORS

Dr. Jarin T., Asso. Professor, Dept. of EEE
Mr. Shijoh V., Asst. Professor, Dept. of EEE
Ms. Della David, Asst. Professor, Dept. of EEE

PROGRAMME COMMITTEE

Ms. Anu Sunny, Asst Professor, Dept. of EEE
Ms. Reshma Raj C., Asst Professor, Dept. of EEE
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Mr. Abin Roy, Asst Professor, Dept. of EEE

CONTACT INFO

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Dear Sir / Madam,

We are very glad to inform you that the Department of Electrical & Electronics Engineering of our College is organizing a National Level Short Term Training Programme (STTP) on "RESEARCH METHODOLOGY" during 11th - 15th January 2017.

The Objective of the Program is to give the participants a basic understanding of Research Methodology and their utility, thereby enhancing their potential to conduct research activities. Participants will get motivated to publish in top-notch journals by understanding the expectations of editors in such journals.

The major course contents include: **Overview of research** - Types of Research, Characteristics of good Research, Challenges in Identifying Research Problem. **Literature Review** - Phases involved and presentation of Literature Review, Identification of Research Gap & Defining Problem statement. **Research Design** - Research Hypothesis Formulation, Statistical Tools, Test of Hypothesis, Correlation and Regression Analysis. **Numerical Modeling** - Simulation, Optimization and Error Estimate Analysis. **Preparation of Research Reports** - Developing Research Proposals for Acquiring Grants from Different Funding Agencies. **Preparation of Technical Papers** - Journal / Conference Selection for Publication, Overview of Journals, Indexing, Citation, Ethics, Plagiarism etc.

The various sessions of the Course will be handled by eminent Academicians and Professionals specialized in the respective Area.

We request you to kindly circulate this information and the attached brochure among the Members of Faculty and the PG Students and depute them for attending this course.

Thanking You,

With warm regards,

Cheruthuruthy
09-01-2017

Prof. Ratnan P.
CONVENOR

Dr. SUNNY JOSEPH KALAYATHANKAL

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Ph.D (Computer Science), Ph.D (Maths)

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Short Term Training Programme on Research Methodology

(11th – 15th January 2017)

Department of Electrical & Electronics Engineering

Jyothi Engineering College, Cheruthuruthy

Objective: To give the participants a basic understanding of the Research Methodology and their utility. The programme aims at motivating the participants to conduct research activities and to publish their works in reputed journals.

Description: Five days Short Term Training Programme on Research Methodology

Venue: Insight Seminar Hall, JECC

Outcomes:

1. Participants are able to get an understanding of Research Methodology.
2. Participants are able to get an idea of different steps involved in the research process.
3. Participants are able to understand the basic numerical techniques involved in research.
4. Participants are able to use the different statistical tools in the research problem.
5. Participants understand the ethics involved in research works and publication of their works.

Implementation: Conducted sessions handled by a team of experts from various institutes including the IITs and NITs. Four numbers of resource persons from outside institutions and five in house resource persons handled different sessions

A three day Short term training Programme on Research Methodology was organized by the Department of Electrical and Electronics Engineering in association with ISTE JECC Chapter on 11th, 12th, 13th, 14th and 15th of January 2017. The programme was organized in such a way that it would be beneficial for the Faculty members and Post Graduate students, irrespective of their engineering stream, to start with the research activities. Also the program would be helpful to the research scholars in carrying out the research activities in a systematic way.

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On 11th the Inaugural ceremony was held. Prof Ratnan P welcomed the dignitaries and other invited guests. Rev. Fr. Roy Joseph Vadakkan presided over the function and stressed on the importance of research activities to be undertaken under the Departments. Dr K. K. Babu, Principal pointed the various opportunities for conducting research works. Dr. C. Krishna Mohan, Associate Professor, IIT Hyderabad Inaugurated the STTP. Er. Boby Peter felicitated the gathering. Dr Jarin T delivered the vote of thanks. HODs of other departments and senior professors were present during the function. Dr C. Krishna Mohan delivered the keynote address on the topic 'Overview of Research'. He gave an overview of the research activities. He told that engineering subjects should be analyzed with a different perspective from the UG and PG level.

First half of afternoon session was handled by Dr Balagopal M from BSH Dept of JECC. He detailed the various procedures to be carried out regarding the preparation of technical papers. He gave a brief description regarding the publication procedures. The next half was handled by Dr Jarin T and Mr. Shijoh V. They detailed the criteria for selecting good journals for the publication of works. The session gave idea about indexing, citation and impact factor. Mr Shijoh V pointed the ethics to be followed during research works and publication. Chances of plagiarism and methods to overcome the same were discussed. An online demo of searching SCI indexed journals, its impact factor etc was done.

On 12th morning Dr T D Subash, IEEE Madras Section Photonics Society Chairman addressed the participants. His session focused on literature review process. He gave an outline of the various works involved in process of literature survey. He detailed how to carry out literature review without much burden.

The afternoon session was handled by Dr. Jarin T., Associate Professor, Dept. of EEE, JECC on the topic Preparation of Technical Papers.

On 13th morning Dr. Arunachala Perumal SA Engineering College, Chennai addressed the participants. His session focused on Inviting Grants for Research.

The afternoon session was handled Mr Biju C.V, Asst Professor, Dept of ME, JECC. His session was on numerical modeling and optimization techniques. He gave an introduction to

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optimization with relevant examples. The session was filled with the numerical methods involved in research problems.

The morning session of 14th was handled by Dr C K Raju, HOD CSE Dept. He gave a detailed talk on copy rights and patents. He motivated the students and research scholars for applying/ filing patents by describing the various procedures involved in it.

The afternoon session was on Research Design. Dr Gibin, Asso. Prof. Dept. of ME, JECC on the topic Formulation of Hypothesis.

The morning session of 14th was on Research Design. Dr Sunitha S from NIT Calicut handled the session. The introduction was all about the practices involved in conducting research. Later on she gave an outline of the research design. How to frame research problem, formulate research objective etc were discussed. Then the statistical tools involved in testing the research hypothesis were introduced.

The afternoon session was on Research Methods – Measurement, sampling and Data acquisition. Dr Anitha Jacob, Asso. Professor, Dept. of CE, JECC handled the session. The introduction was all about the practices involved in conducting research. Later on she gave an outline of the research design. How to frame research problem, formulate research objective etc were discussed. Then the statistical tools involved in testing the research hypothesis were introduced. The different statistical terms were clearly mentioned during her talk. Dr Arunachal Perumal C handled the next session in afternoon. The session gave an idea regarding the funding possibilities to research scholars and Faculty. The way of writing research proposals for getting funds from various agencies was dealt with. The different category of funding agencies was introduced and viability of getting funds from them was discussed.

In valedictory session Mr Shijoh V expressed gratitude to the management, Principal, resource persons, and participants. Participants were given chance to deliver feedback on various sessions. Certificates were distributed to all the participants.

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There were 21 external participants (19 faculty and 2 research scholars) from 7 different colleges. 16 faculty members from EEE Dept, 5 from other departments and 10 PG students of EEE Department also attended the programme.

The participants expressed satisfaction about the overall conduct of the program.

FDP Outcome – PO mapping

PO's STP Outcomes	a	b	c	d	e	f	g	h	i	j	k	Justification
Participants are able to get an understanding of research methodology					✓			✓	✓			Participants get motivated to engage in life-long learning. They are able to identify and formulate engineering problems. They get a broad knowledge to understand the impact of engineering solutions.

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Participants are able to get an idea of different steps involved in the research process																			Participants get motivated to conduct research activities and there by engage themselves in lifelong learning.
Participants are able to understand the basic numerical techniques involved in research.	✓																		Participants are able to use the different numerical methods for getting an optimal solution for the research problem.
Participants are able to use the different statistical tools in the research problem.	✓																		Participants are able to use the statistical tools to test the hypothesis.

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Participants understand the ethics involved in research works and publication of their work.												Participants are able to understand the ethics involved in research and publications.
					✓							

PO – PEO Mapping:

Programme Outcome (POs)	Programme Educational Objectives (PEOs)			Justification
	1	2	3	
a	✓	✓		Participants will have the ability to apply knowledge of mathematics, science, and engineering, and to apply the knowledge to practice or to do research.
e	✓	✓		Participants can apply knowledge to identify, formulate and solve engineering problems
f	✓	✓	✓	Participants will have a good knowledge about professional ethics which is required while conducting research activities.
h	✓	✓		Participants get a basic understanding of the impact of research activities on individuals and society
i	✓	✓		Participants will have the ability to engage in life-long learning by involving in research.
k	✓	✓		Modern tools available help in framing the research design and to carry out the remaining process.

Mapping of PEO with key components of mission of the department:

KEY COMPONENTS OF MISSION STATEMENT	PEO I	PEO II	PEO III	JUSTIFICATION
Quality Education	✓	✓		Ability to acquire knowledge and to apply the skills in solving engineering problems.
Meaningful career		✓		Pursue higher education and involve

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				in research activities.
Ethics			√	To take care of ethical values while doing research activities.

Mapping of Mission of the department with Mission of Institute

Key Components of Department Mission	Justification			Technology based participation and entrepreneurship	Justification
	Quality Engineering	Meaningful career	Ethical values and social initiatives		
Quality Education	√	√			Excelling in technical education enable participants in developing innovative ideas.
Meaningful career		√		√	Participants get motivated to get in to research activities and there by gain a meaningful career.
Ethical values	√	√	√		Participants holds on the ethical values in the process of research.

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JYOTHI ENGINEERING COLLEGE, CHERUTHURUTHY

Short Term Training Programme on
"RESEARCH METHODOLOGY"
 From 11th Jan to 15th Jan, 2017

LIST OF PARTICIPANTS

Sl. No.	NAME OF THE PARTICIPANT	OFFICIAL ADDRESS	ACCOMMODATION	VEGETARIAN VEG	REG. FEE	SIGNATURE	REMARKS
1	Honey Mol P K	AP - ECE Vidya Academy of Science & Technology Thalakkuthukkaa	Nil	Non-veg	paid	<i>[Signature]</i>	
2	SARIKA P. C.	PG STUDENT / GR II INSTRUCTOR Vidya Academy of Science Technology Thalakkuthukkaa	Nil	non-veg	Paid	<i>[Signature]</i>	
3	Sowmya Anto A.	ASSISTANT PROFESSOR. Thy's Engineering College, Vellankad	-	Non-veg	Paid	<i>[Signature]</i>	
4	Filsy Francis V	Asst Professor Thy's Engineering College Vellankad	nil	Veg	Paid	<i>[Signature]</i>	

5	ANJALI S	AP. CE vidya ACADEMY of Science and Technology	Nil	veg	Paid	<i>[Signature]</i>	
6	Nirmala Indira	AP. CE Vidya Academy TCR	Nil	Non Veg	Paid	<i>[Signature]</i>	
7	Mino V S	AP. FEE MES College of Engg		Non veg	Paid	<i>[Signature]</i>	
8	Neshaath M K	AP. EEE MES college of Engg		Non veg	paid	<i>[Signature]</i>	
9	Elgira. M K	Asst Professor MESCE	Nil	non veg	paid	<i>[Signature]</i>	
10	Baven Jay	AP, TERC ME	Nil	non veg	Paid		

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11	Ambili Mohan	Asst. Professor Muller Institute of Technology & Science	Nil	Non-veg	Paid	<i>[Signature]</i>
12	Reshmi R Menon	STUDENT RCEI, Alkalam	Nil	Non-veg	Paid	<i>[Signature]</i>
13	Sabarinath A.R.	Asso. Professor Lourdes Matha College of Science & Technology, Kuttichal	✓	Non-veg	Paid	<i>[Signature]</i>
14	Ramanarajan	Asst. Professor JEEC	Nil	Non-veg	Paid	<i>[Signature]</i>
15	Gyil B John	Asst. Professor, ME JEEC	nil	Nonveg	Paid	<i>[Signature]</i>
16	JEENA JOHN	Asst. Prof. in EEE SOE, CUSAT	—	Non-veg	Paid	<i>[Signature]</i>

17	Neeraj Kumar	JEEC AP CS				<i>[Signature]</i>
18	Rashmi -K	AP JEEC CS				<i>[Signature]</i>
19	Prasanna Kumar K	AP. MECE (ME)	NIL	VEG		<i>[Signature]</i>
20	Mahesh Sreed T	AP. MECE (CIVIL)	NIL	VEG		<i>[Signature]</i>
21						
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