

05-06-15 (Friday)

- 9.30-10.45 - Talk 8 Real path for success  
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FDP get-together (Day out)

### FACULTY DEVELOPMENT PROGRAMME

**CHIEF PATRON**  
Fr.Jos Punnoliparambil  
Executive Manager ,JECC

**PATRON**  
Dr.K.K Babu  
Principal ,JECC

**ADMINISTRATOR**  
Er.Thomas Mathew

**TREASURER**  
Fr.Joju Chiriyankandath  
Finance Mananger,JECC

**PUBLIC RELATION OFFICER**  
Fr.Roy Joseph Vadakkan  
Professor,JECC

**CO ORDINATORS**  
Dr. Jose P Therattil ,HOD ,ECE  
Prof .Ratnan P HOD, EEE



CREATING TECHNOLOGY LEADERS OF TOMORROW

## Jyothi Engineering College

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

Web: www.jecc.ac.in E-mail: info@jecc.ac.in

### FACULTY DEVELOPMENT PROGRAMME

on

**“EMPOWERING THROUGH**

**TEAM WORK”**



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from

1st - 7th

June 2015

**Dr. SUNNY JOSEPH KALAYATHANKAL**  
M.Tech, MCA, M.Sc, M.Phil, B.Ed  
Ph.D (Computer Science), Ph.D (Maths)  
PRINCIPAL  
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## Jyothi Engineering College

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COMMITMENT TO EXCELLENCE IN EDUCATION, RESEARCH AND SERVICE

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## One Week Faculty Development Program

(June 1<sup>st</sup>-7<sup>th</sup> of 2015)



Founded in 2002 as Jyothi Engineering College, The institute was ranked as fourth best engineering college in the state in recognition of its academic excellence by the directorate of technical education, Trivandrum and received academic excellence award from the university of Calicut in 2013 & in 2014.

The college has since grown by leaps and bounds establishing excellence infrastructure replete with state-of-art laboratories, digital library, smart class rooms, hostels, gyms, auditoria spread over an impeccably clear and green 25 acre campus-on way to fulfill the vision of the Catholic Arch diocese of Trichur to make it truly world class.

**"Empowering through TeamWork"** The faculty development program is mainly designed for JECC staff to understand why shaping our mind is important for creating eminent and ethical leaders through quality professional education with emphasis on holistic excellence.

## PROGRAMME SCHEDULE

01-06-15 (Monday)

- 9.30-10.00 -Inauguration  
10.00-11.15 -Talk 1 - Vision of Catholic Professional colleges Thrissur Archdiocese (Dr. K M Francis, Professor, St. Thomas College, Thrissur)  
11.15-11.30 -Tea Break  
11.30-12.15 -Talk 1 Continues  
12.15-12.30-Interaction  
12.30-1.30 -Lunch break  
1.30-2.45 -Talk 2- Motivational aspects (Prof. James Manjooran, Ex. Professor of Cambridge University Centre, Bahrain)  
2.45-3.00 -Tea Break  
3.00-3.45 -Talk 2 Continues  
3.45-4.00 -Interaction  
4.00-4.30 -Implementation of theory in this context

02-06-15 (Tuesday)

- 9.30-10.45 -Talk 3 - Teaching through Hearts (Mr. Devidas Menon, M.D of Edu. Vision, Thrissur)  
10.45-11.00-Tea Break  
11.00-12.15-Talk 3 Continues  
12.15-12.30-Interaction  
12.30-1.30 -Lunch break  
1.30-2.15 -Co-curricular activities - Importance and planning (Ms. Aswathy Wilson, Professor, Jyothi Engineering College)  
2.15-3.15 -Talk 4- Psychology of Learning & Attitude auditing (Dr. Krishna Murthy, Paediatrician, Elite Hospital, Thrissur)  
3.15-3.30 -Tea Break  
3.30-4.15 -Talk 4 Continues  
4.15-4.30 -Interaction

03-06-15 (Wednesday)

- 9.30-10.45 -Talk 5 - Build a positive personality & Life style management (Dr. Balakrishnan, Clinical psychologist, Calicut)  
10.45-11.00-Tea Break  
11.00-12.15-Talk 5 Continues  
12.15-12.30-Interaction  
12.30-1.30 -Lunch break  
1.30-2.45 -Talk 6 - Behavioral training, Setting targets, Time & Stress management (Mr. Suresh Warriar, Corporate Trainer)  
2.45-3.00 -Tea Break  
3.00-3.45 -Talk 6 Continues  
3.45-4.00 -Interaction  
4.00-4.30 -Implementation of theory in this context

04-06-15 (Thursday)

- 9.30-10.45 -Talk 7 - Mind Power Empowerment (Dr. Jaya Prakash, Psychologist, Counsellor & Hypnotherapist)  
10.45-11.00-Tea Break  
11.00-12.45-Talk 7 Continues  
12.45-1.00 -Interaction  
1.00-1.45 -Lunch break  
1.45-2.30 -Culture and Climate setting of a Professional Teacher, a practical module (Fr. Roy Joseph Vadakkan, Professor, Jyothi Engineering College)  
2.30-2.45 -Tea Break  
2.45-3.30 -Freedom and discipline in a professional College (Fr. Jos Punnoliparambil, Executive Manager, Jyothi Engineering College)  
3.30-4.30 -"Own the Organization for the Self Actualization" A motivational talk by (Er. Thomas Mathew, Administrator, JECC)

**Dr. SUNNY JOSEPH KALAYATHANKAL**  
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**JYOTHI ENGINEERING COLLEGE, CHERUTHURUTHY**

**One Week Faculty Development Program**

**(June 1-7 of 2015)**

**EMPOWRING THROUGH TEAM WORK**

The faculty development program “**EMPOWRING THROUGH TEAM WORK**” organised by Jyothi Engineering College, Cheruthuruthy is mainly designed for JECC staff to understand why shaping our mind is important for creating eminent and ethical leaders through quality professional education with emphasis on holistic excellence. The programme provides professional development for all staff members with a goal of transforming the way we teach and how our programs run across curriculum to ensure that student possess the basic skills required for their success in college and beyond. Manager of the institution Fr. Jose Punnoliparambil was the chief patron of the programme. Dr. K.K. Babu, Principal, was the patron of the programme. Rev. Fr. Roy Joseph Vadakkan, Public relation officer, Rev. Fr. Joju Chiriayankandath (treasurer) were the patron of the programme. Dr. Jose P. Therattil, Prof. Ratnan P was the coordinators of the programme.

On day one the programme began with the inauguration and the first talk was handled by Dr. K M Francis, Professor, St. Thomas College, Thrissur about Vision of Catholic Professional colleges (Thrissur Archdiocese). Talk 2 on Motivational aspects was handled by Prof. James Manjooran, Ex. Professor of Cambridge University Centre, Bahrain. Day two started with a session on Teaching through Hearts was handled by Mr. Devidas Menon, M.D of Edu. Vision, Thrissur. After lunch, Ms. Aswathy Wilson, Professor, Jyothi Engineering College was given a talk on Importance and planning of Co-curricular activities for one hour, And after that a talk on Psychology of Learning & Attitude auditing was given by Dr. Krishna Murthy, Paediatrician, Elite Hospital, Thrissur. Day three started with a session on Build a positive personality & Life style management by Dr. Balakrishnan, Clinical psychologist, Calicut and afternoon session was handled by Mr. Suresh Warriar, Corporate Trainer on the topic Behavioural training, Setting targets, Time & Stress management.

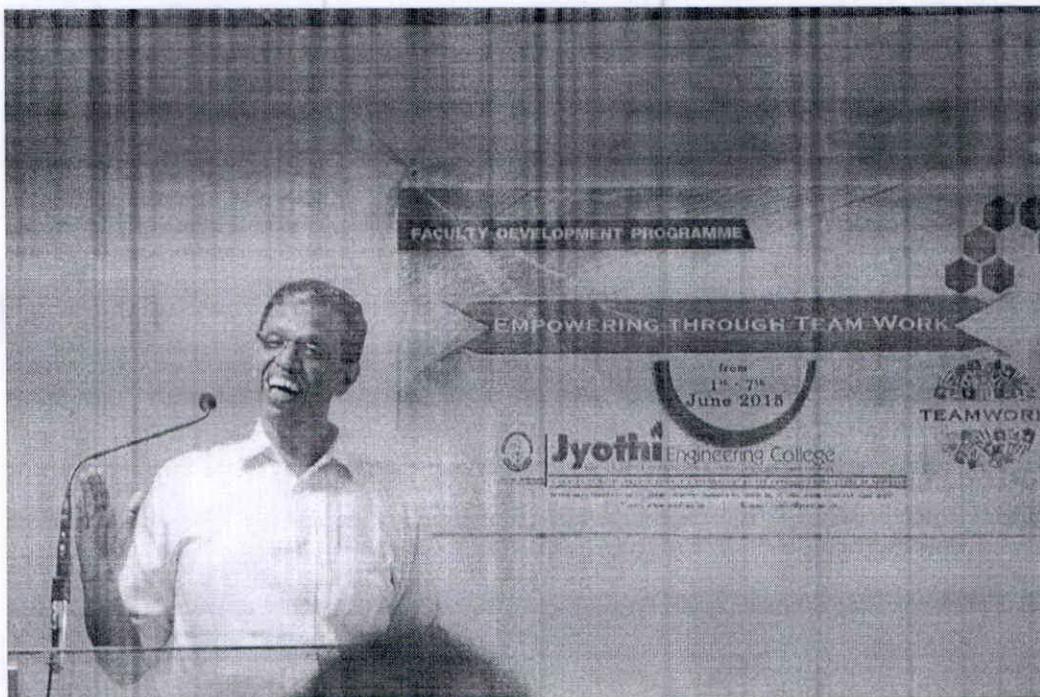
Day four started with a session on Mind Power Empowerment by Dr. Jaya Prakash, Psychologist, Counsellor & Hypnotherapist and after that a talk on Culture and Climate setting of a Professional Teacher, a practical module Was given by Fr. Roy Joseph Vadakkan, Professor, Jyothi Engineering College. After lunch a talk on Freedom and discipline in a professional College by Fr. Jose Punnoliparambil, Executive Manager, Jyothi Engineering College) and the day ends with a motivational talk on Own the Organization for the Self Actualization by Er. Thomas Mathew, Administrator, JECC. Day five started with a session on Real path for success by Mr. Saji Thalavoor, International Trainer and the day ends with a talk on Aptitude and Attitude:- A critical Evaluation by Dr. K.K Babu, Principal, JECC. Mr. Biju C V, Professor, Jyothi Engineering College delivered a talk on Project

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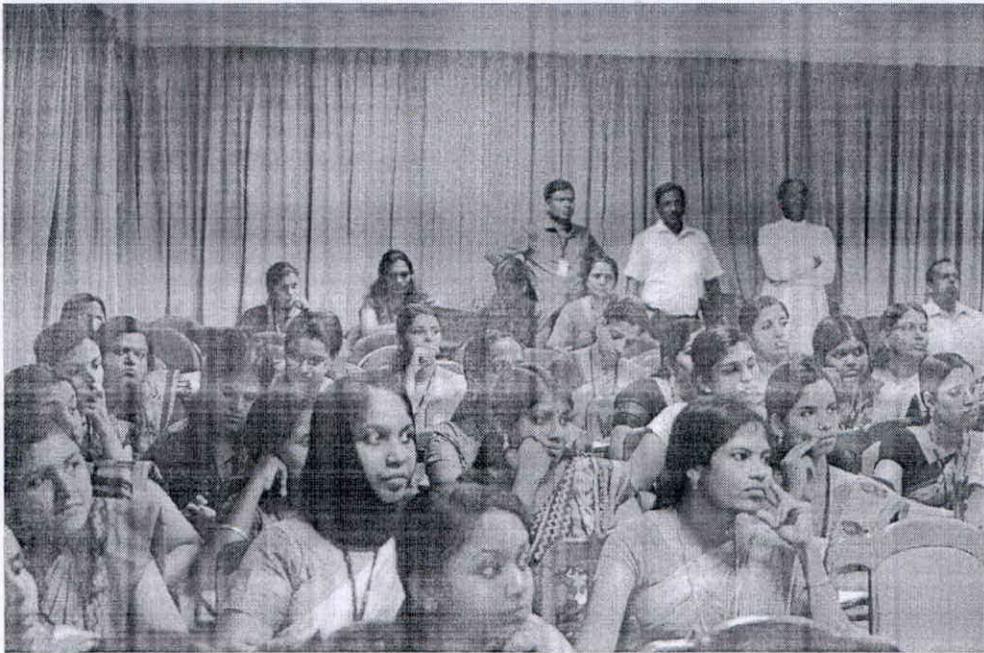
Evaluation in a common format. Yearly plan for all the departments were discussed on next days.

One week faculty development programme was evaluated by the feedback from the participants. The members expressed their satisfaction and gratitude for the exmplorary execution of the programme. The event concluded by the valedictory programme presided by Fr. Jose Punnoliparambil, Executive Manager, Principal Dr. K.K. Babu. Rev. Fr. Joju Chiriyankandath, Finance Manager distributed the certificate of participation to all the members attended the FDP. and Coordinator of FDP spoke a few words. The valedictory programme was over by 4.00pm.



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*[Handwritten Signature]*  
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Sl. No.	Name	Designation	Signature	
			FN	AN
<b>CIVIL ENGINEERING</b>				
1	Prof. Radhamani	Professor & HOD		
2	Dr. Anitha Jacob	Asso. Prof.		<i>Anitha</i>
3	Tricy Luis	Asst. Prof.		<i>Tricy</i>
4	Jisha Akkara	Asst. Prof.		
5	Neeraja P.G.	Asst. Prof.	<i>Neeraja</i>	<i>Neeraja</i>
6	Anju M.J.	Asst. Prof.	<i>Anju</i>	<i>Anju</i>
7	Nirmala M.	Asst. Prof.		
8	Sinu C.G.	Asst. Prof.	<i>Sinu</i>	<i>Sinu</i>
9	Nikhila A.P	Asst. Prof.	<i>Nikhila</i>	<i>Nikhila</i>
10	Nisni M. Asharaf	Asst. Prof.	<i>Nisni</i>	<i>Nisni</i>
11	Jismy Sunil	Trade Instructor		
12	Reshma K.C	Lab Instr.		
<b>COMPUTER SCIENCE &amp; ENGINEERING</b>				
13	Aswathy Wilson	Asst. Prof.	<i>Aswathy</i>	<i>Aswathy</i>
14	Jyothis T.S	Asst. Prof.	<i>Jyothis</i>	<i>Jyothis</i>
15	Seenia Francis	Asst. Prof.		
16	Namitha T.N.	Asst. Prof.	<i>Namitha</i>	<i>Namitha</i>
17	Swapna B. Sasi	Asst. Prof.	<i>Swapna</i>	<i>Swapna</i>
18	Kumary R. Soumya	Asst. Prof.		
19	Fousiya K.K	Asst. Prof.		
20	Rigi C.R.	Asst. Prof.		
21	Divya menon	Asst. Prof.	<i>Divya</i>	<i>Divya</i>
22	Sobha Xavier	Asst. Prof.	<i>Sobha</i>	<i>Sobha</i>
23	Diana Davis	Asst. Prof.	<i>Diana</i>	<i>Diana</i>
24	Sabna A.B	Asst. Prof.	<i>Sabna</i>	<i>Sabna</i>
25	Jisna V.A.	Asst. Prof.	<i>Jisna</i>	<i>Jisna</i>
26	Snitha Thomas	Trade Instructor Gr.II	<i>Snitha</i>	<i>Snitha</i>
<b>COMPUTER CENTRE</b>				
27	Vidya K.	Data Entry Optr.		
28	Varsha Varghese	Jr. Instructor	<i>Varsha</i>	<i>Varsha</i>
<b>ELECTRONICS &amp; COMMUNICATION ENGINEERING</b>				
29	Sindhu S.	Asst. Prof.	<i>Sindhu</i>	<i>Sindhu</i>
30	Shiny M.I.	Asst. Prof.	<i>Shiny</i>	<i>Shiny</i>
31	Bindhu K Rajan	Asst. Prof.	<i>Bindhu</i>	<i>Bindhu</i>
32	Nisha Mary P	Asst. Prof.		
33	Anjitha V	Asst. Prof.	<i>Anjitha</i>	<i>Anjitha</i>
34	Alice K. Paul	Asst. Prof.	<i>Alice</i> Univ Exams Duty.	<i>Alice</i>
35	Drisy M.K.	Asst. Prof		
36	Ambily Francis	Asst. Prof.	<i>Ambily</i>	<i>Ambily</i>
37	Roshni Roges	Asst. Prof.		
38	Asha John	Asst. Prof.	<i>Asha</i>	<i>Asha</i>
39	Nyni K. A.	Asst. Prof.	<i>Nyni</i>	<i>Nyni</i>
40	Neethu Rose	Asst. Prof.	<i>Neethu</i>	<i>Neethu</i>
41	Roshni Rajan	Asst. Prof.	<i>Roshni</i>	<i>Roshni</i>
42	Eleesa Davi	Instructor	<i>Eleesa</i>	<i>Eleesa</i>
43	Sangeetha P. Nair	Junior Instructor		

Anandavally M.K.  
Chandam

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leave.  
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leave.

*Sunny*  
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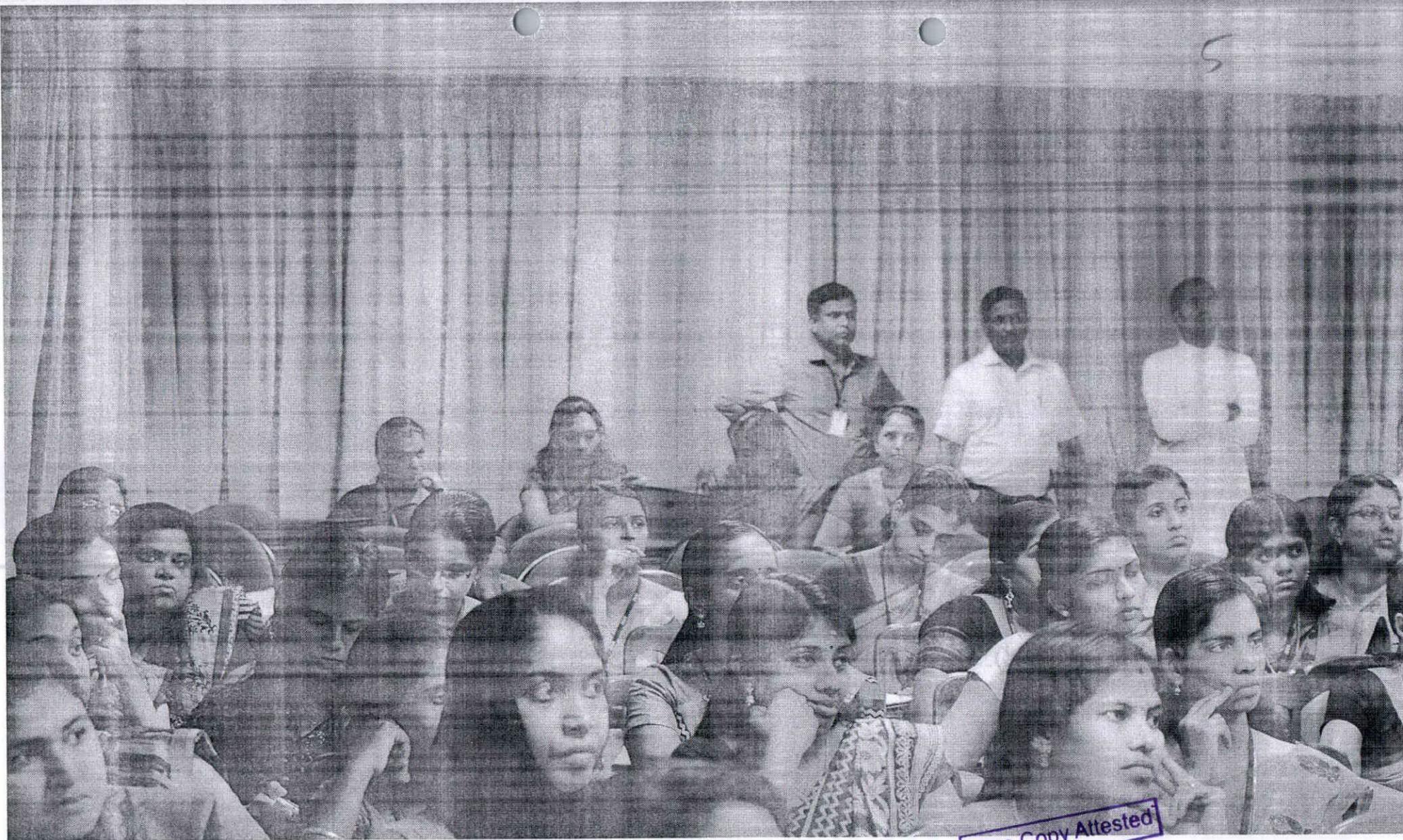
			FN	AN
<b>ELECTRICAL &amp; ELECTRONICS ENGINEERING</b>				
44	Anu Sunny	Asst. Prof.	Exam Duty	<i>[Signature]</i>
45	Reshma Raj C	Asst. Prof.	<i>[Signature]</i>	<i>[Signature]</i>
46	Della David	Asst. Prof.	<i>[Signature]</i>	<i>[Signature]</i>
47	Soumya C	Asst. Prof.		
48	Saritha P.	Asst. Prof.	<i>[Signature]</i>	<i>[Signature]</i>
49	Aswathy Rajan	Asst. Prof.	Exam Duty	<i>[Signature]</i>
50	Renjini G	Asst. Prof.		
51	Aathira K.V	Asst. Prof.	<i>[Signature]</i>	<i>[Signature]</i>
52	Sreethamol M.V	Asst. Prof.	<i>[Signature]</i>	<i>[Signature]</i>
53	Roshima T.V.	Asst. Prof.	<i>[Signature]</i>	<i>[Signature]</i>
54	Saritha N.	Jr. Instr.		
<b>MECHANICAL ENGINEERING</b>				
55	Nisha Sherief	Asst. Prof.		<i>[Signature]</i>
<b>SCIENCE, HUMANITIES AND BASIC ENGINEERING</b>				
56	Priya Jose	Asst. Prof.	<i>[Signature]</i>	<i>[Signature]</i>
57	Jasmine Jose	Asst. Prof.	<i>[Signature]</i>	<i>[Signature]</i>
58	Smija Skaria	Asst. Prof.	<i>[Signature]</i>	<i>[Signature]</i>
59	Renju Francis	Asst. Prof.	<i>[Signature]</i>	<i>[Signature]</i>
60	Nivya Wilson	Asst. Prof.	<i>[Signature]</i>	<i>[Signature]</i>
61	Dr. Baby C.B	Professor	<i>[Signature]</i>	
62	Dr. Usha Menon	Professor		
<b>Library</b>				
63	Manija M	Library Assistant		
64	Jilly N.J	Data Entry Optr.		
65	Jinphy Joseph	Trade Instructor Gr.II		
<b>Office</b>				
66	Suganthi T	Office Assistant		
67	Rejitha C.K	Manager (Accounts)		
68	Sr. Viveena	Cashier		
<b>TBI</b>				
69	Ramlath P.U.	Instr.		
<b>Store</b>				
70	Sr. Ancy	Store Keeper		

Fl. Reshma. K.V Asst. Prof  
CSSE

*[Signature]* *[Signature]*

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Empowering Through Team work

1/06/2015 to 7/06/2015

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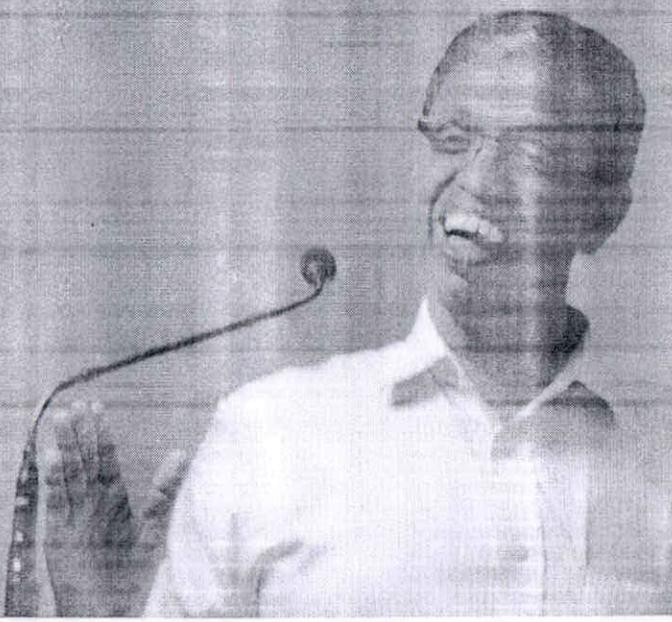
FACULTY DEVELOPMENT PROGRAMME

EMPOWERING THROUGH TEAM WORK

from  
1st - 7th  
June 2015

**Jyothi** Engineering College

TEAMWORK



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Empowering Through Team work

1/06/2015 to 7/06/2015 1/06/2015 to 7/06/2015

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**ADMINISTRATOR**  
Er.Thomas Mathew

**TREASURER**  
Fr.Joju Chiriyankandath  
Finace Mananger,JECC

**PUBLIC RELATION OFFICER**  
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PHONE: 0471-2424242, 0471-2424243, 0471-2424244, 0471-2424245, 0471-2424246, 0471-2424247, 0471-2424248, 0471-2424249, 0471-2424250, 0471-2424251, 0471-2424252, 0471-2424253, 0471-2424254, 0471-2424255, 0471-2424256, 0471-2424257, 0471-2424258, 0471-2424259, 0471-2424260, 0471-2424261, 0471-2424262, 0471-2424263, 0471-2424264, 0471-2424265, 0471-2424266, 0471-2424267, 0471-2424268, 0471-2424269, 0471-2424270, 0471-2424271, 0471-2424272, 0471-2424273, 0471-2424274, 0471-2424275, 0471-2424276, 0471-2424277, 0471-2424278, 0471-2424279, 0471-2424280, 0471-2424281, 0471-2424282, 0471-2424283, 0471-2424284, 0471-2424285, 0471-2424286, 0471-2424287, 0471-2424288, 0471-2424289, 0471-2424290, 0471-2424291, 0471-2424292, 0471-2424293, 0471-2424294, 0471-2424295, 0471-2424296, 0471-2424297, 0471-2424298, 0471-2424299, 0471-2424300, 0471-2424301, 0471-2424302, 0471-2424303, 0471-2424304, 0471-2424305, 0471-2424306, 0471-2424307, 0471-2424308, 0471-2424309, 0471-2424310, 0471-2424311, 0471-2424312, 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## PROGRAMME SCHEDULE

### One Week Faculty Development Program

(June 1<sup>st</sup>-7<sup>th</sup> of 2015)



Founded in 2002 as Jyothi Engineering College, The institute was ranked as fourth best engineering college in the state in recognition of its academic excellence by the directorate of technical education, Trivandrum and received academic excellence award from the university of Calicut in 2013 & in 2014.

The college has since grown by leaps and bounds establishing excellence infrastructure replete with state-of-art laboratories, digital library, smart class rooms, hostels, gyms, auditoria spread over an impeccably clear and green 25 acre campus-on way to fulfill the vision of the Catholic Arch diocese of Trichur to make it truly world class.

**“Empowering through TeamWork”** The faculty development program is mainly designed for JECC staff to understand why shaping our mind is important for creating eminent and ethical leaders through quality professional education with emphasis on holistic excellence.

### 01-06-15 (Monday)

- 9.30-10.00 -Inauguration
- 10.00-11.15 -Talk 1 - Vision of Catholic Professional colleges Thrissur Archdiocese  
(Dr. K M Francis, Professor, St. Thomas College, Thrissur)
- 11.15-11.30 -Tea Break
- 11.30-12.15 -Talk 1 Continues
- 12.15-12.30-Interaction
- 12.30-1.30 -Lunch break
- 1.30-2.45 -Talk 2- Motivational aspects  
(Prof. James Manjooran, Ex. Professor of Cambridge University Centre, Bahrain)
- 2.45-3.00 -Tea Break
- 3.00-3.45 -Talk 2 Continues
- 3.45-4.00 -Interaction
- 4.00-4.30 -Implementation of theory in this context

### 02-06-15 (Tuesday)

- 9.30-10.45 -Talk 3 – Teaching through Hearts  
(Mr. Devidas Menon, M.D of Edu. Vision, Thrissur)
- 10.45-11.00-Tea Break
- 11.00-12.15-Talk 3 Continues
- 12.15-12.30-Interaction
- 12.30-1.30 -Lunch break
- 1.30-2.15 -Co-curricular activities - Importance and planning  
(Ms. Aswathy Wilson, Professor, Jyothi Engineering College)
- 2.15-3.15 -Talk 4- Psychology of Learning & Attitude auditing  
(Dr. Krishna Murthy, Paediatrician, Elite Hospital, Thrissur)
- 3.15-3.30 -Tea Break
- 3.30- 4.15 -Talk 4 Continues
- 4.15-4.30 -Interaction

### 03-06-15 (Wednesday)

- 9.30-10.45 -Talk 5 – Build a positive personality & Life style management  
(Dr. Balakrishnan, Clinical psychologist, Calicut)
- 10.45-11.00-Tea Break
- 11.00-12.15-Talk 5 Continues
- 12.15-12.30-Interaction
- 12.30-1.30 -Lunch break
- 1.30-2.45 -Talk 6 – Behavioral training, Setting targets, Time & Stress management  
(Mr. Suresh Warriar, Corporate Trainer)
- 2.45-3.00 -Tea Break
- 3.00-3.45 -Talk 6 Continues
- 3.45-4.00 -Interaction
- 4.00-4.30 -Implementation of theory in this context

### 04-06-15 (Thursday)

- 9.30-10.45 -Talk 7 – Mind Power Empowerment  
(Dr. Jaya Prakash, Psychologist, Counsellor & Hypnotherapist)
- 10.45-11.00-Tea Break
- 11.00-12.45-Talk 7 Continues
- 12.45-1.00 -Interaction
- 1.00-1.45 -Lunch break
- 1.45-2.30 -Culture and Climate setting of a Professional Teacher, a practical module  
(Fr. Roy Joseph Vadakkan, Professor, Jyothi Engineering College)
- 2.30-2.45 -Tea Break
- 2.45-3.30 -Freedom and discipline in a professional College (Fr. Jos Punnoliparambil, Executive Manager, Jyothi Engineering College)
- 3.30-4.30 -“Own the Organization for the Self Actualization” A motivational talk by  
(Fr. Thomas Mathew, Administrator, JECC)

True Copy Attested

**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

**JYOTHI ENGINEERING COLLEGE, CHERUTHURUTHY**

**One Week Faculty Development Program**

**(June 1-7 of 2015)**

**EMPOWRING THROUGH TEAM WORK**

The faculty development program “**EMPOWRING THROUGH TEAM WORK**” organised by Jyothi Engineering College, Cheruthuruthy is mainly designed for JECC staff to understand why shaping our mind is important for creating eminent and ethical leaders through quality professional education with emphasis on holistic excellence. The programme provides professional development for all staff members with a goal of transforming the way we teach and how our programs run across curriculum to ensure that student possess the basic skills required for their success in college and beyond. Manager of the institution Fr. Jose Punnoliparambil was the chief patron of the programme. Dr. K.K. Babu, Principal, was the patron of the programme. Rev. Fr. Roy Joseph Vadakkan, Public relation officer, Rev. Fr. Joju Chiriayankandath (treasurer) were the patron of the programme. Dr. Jose P. Therattil, Prof. Ratnan P was the coordinators of the programme.

On day one the programme began with the inauguration and the first talk was handled by Dr. K M Francis, Professor, St. Thomas College, Thrissur about Vision of Catholic Professional colleges (Thrissur Archdiocese). Talk 2 on Motivational aspects was handled by Prof. James Manjooran, Ex. Professor of Cambridge University Centre, Bahrain. Day two started with a session on Teaching through Hearts was handled by Mr. Devidas Menon, M.D of Edu. Vision, Thrissur. After lunch, Ms. Aswathy Wilson, Professor, Jyothi Engineering College was given a talk on Importance and planning of Co-curricular activities for one hour, And after that a talk on Psychology of Learning & Attitude auditing was given by Dr. Krishna Murthy, Paediatrician, Elite Hospital, Thrissur. Day three started with a session on Build a positive personality & Life style management by Dr. Balakrishnan, Clinical psychologist, Calicut and afternoon session was handled by Mr. Suresh Warriar, Corporate Trainer on the topic Behavioural training, Setting targets, Time & Stress management.

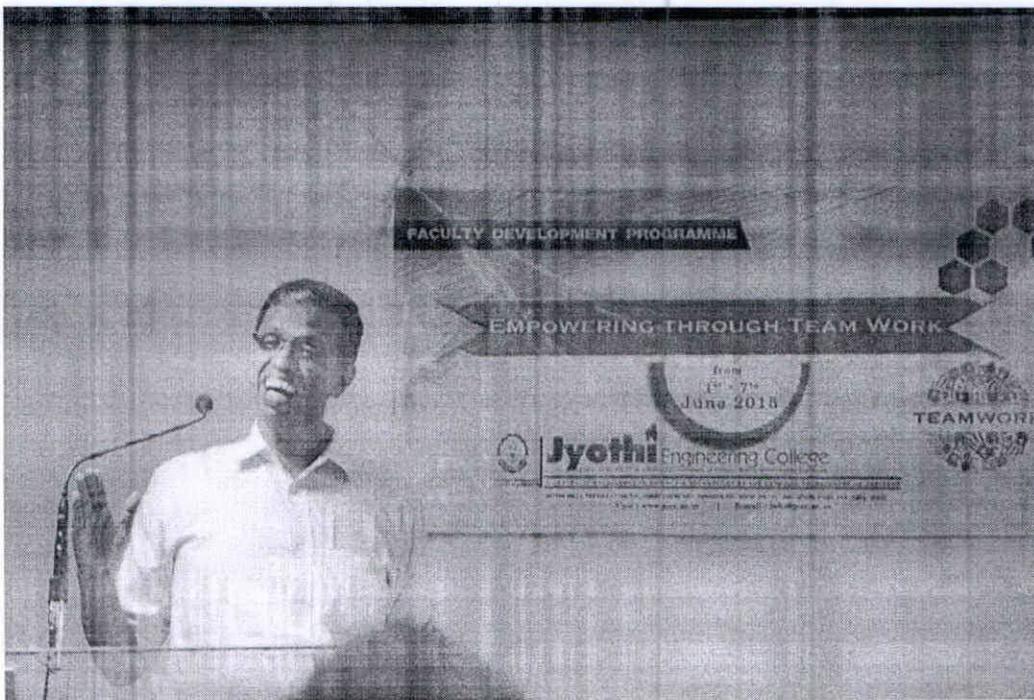
Day four started with a session on Mind Power Empowerment by Dr. Jaya Prakash, Psychologist, Counsellor & Hypnotherapist and after that a talk on Culture and Climate setting of a Professional Teacher, a practical module Was given by Fr. Roy Joseph Vadakkan, Professor, Jyothi Engineering College. After lunch a talk on Freedom and discipline in a professional College by Fr. Jose Punnoliparambil, Executive Manager, Jyothi Engineering College) and the day ends with a motivational talk on Own the Organization for the Self Actualization by Er. Thomas Mathew, Administrator, JECC. Day five started with a session on Real path for success by Mr. Saji Thalavoor, International Trainer and the day ends with a talk on Aptitude and Attitude:- A critical Evaluation by Dr. K.K Babu, Principal, JECC. Mr. Biju C V, Professor, Jyothi Engineering College delivered a talk on Project

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Jyothi Engineering College  
Cheruthuruthy P.O. - 679 531

Evaluation in a common format. Yearly plan for all the departments were discussed on next days.

One week faculty development programme was evaluated by the feedback from the participants. The members expressed their satisfaction and gratitude for the exmplorary execution of the programme. The event concluded by the valedictory programme presided by Fr. Jose Punnoliparambil, Executive Manager, Principal Dr. K.K. Babu. Rev. Fr. Joju Chiriyankandath, Finance Manager distributed the certificate of participation to all the members attended the FDP. and Coordinator of FDP spoke a few words. The valedictory programme was over by 4.00pm.



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*[Signature]*  
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Sl. No.	Name	Designation	Signature	
			FN	AN
1	Dr. K.K. Babu	Principal		
<b>CIVIL ENGINEERING</b>				
2	M.G. Cyriac	Asso. Prof.		
3	K.T. Markose	Trade Instr.		
4	Franklin Francis	Trade Instr.		
<b>COMPUTER SCIENCE &amp; ENGINEERING</b>				
5	Prof. Muralee Krishnan C	Professor & HOD		
6	Thomas George K	Asst. Prof.		
7	Anil Antony	Asst. Prof.		
8	Viju Shankar	Asst. Prof.		
9	Shaiju Paul	Asst. Prof.		
10	Bineesh M.	Asst. Prof.		
11	Aneesh Chandran	Asst. Prof.		
12	Majo John	Asst. Prof.		
<b>COMPUTER CENTRE</b>				
13	Sujith M	System Administrator		
14	Jeferin Jose	Trade Instructor Gr.II		
15	Aneesh P.B	Trade Instructor Gr.II		
16	Sudhees C.N.	Trade Instructor Gr.II		
<b>ELECTRONICS &amp; COMMUNICATION ENGINEERING</b>				
17	Dr. Jose P. Therattil	Professor & HOD		
18	Dipin Krishnan R.	Asst. Prof.		
19	Jobin Varghese	Asst. Prof.		
20	Jinesh K.J.	Asst. Prof.		
21	Abin Johns Raju	Asst. Prof.		
22	Rijo P.C.	Asst. Prof.		
23	Vivek Lukose	Asst. Prof.		
24	Ponmani Raja	Asst. Prof.		
25	Kapil Das	Asst. Prof.		
26	P.V. John	Instructor		
27	Binoj V.J.	Instrument Mechanic		
28	Abdul Saleem N.M.	Junior Instructor		
29	Pradeesh C.G.	Junior Instructor		
30	Nithil Jose	Junior Instructor		
<b>ELECTRICAL &amp; ELECTRONICS ENGINEERING</b>				
31	Ratnan P.	Asst. Prof. & HOD		
32	K.T. Joseph	Lecturer		
33	Jenson Jose	Asst. Prof.		
34	Akhil A. Balakrishnan	Asst. Prof.		

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Dr. SUNNY JOSEPH KALAYATHANKAL  
M.Tech, MCA, M.Sc, M.Phil, B.Ed  
Ph.D (Computer Science), Ph.D (Maths)  
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Sl. No.	Name	Designation	Signature	
			FN	AN
35	Raghavan N.K.	Trades Man	<i>[Signature]</i>	<i>[Signature]</i>
36	Davis K.T	Junior Instructor	<i>[Signature]</i>	<i>[Signature]</i>
37	Majeendran K.	Trade Instructor Gr.II	<i>[Signature]</i>	<i>[Signature]</i>
38	Alistar Polwin	Trade Instructor Gr.II		
<b>MECHANICAL ENGINEERING</b>				
39	Prof. K.C. John	Professor & HOD		
40	Biju C.V	Asst. Prof.		
41	C. Karunakaran	Asst. Prof.		
42	Manoj Kumar V.K	Asst. Prof.		
43	Praveen Raj	Asst. Prof.	<i>[Signature]</i>	<i>[Signature]</i>
44	Christy/Vazhappilly	Asst. Prof.	<i>[Signature]</i>	<i>[Signature]</i>
45	Melvin Raj C.R.	Asst. Prof.	<i>[Signature]</i>	<i>[Signature]</i>
46	Nikhil N.S	Asst. Prof.	<i>[Signature]</i>	<i>[Signature]</i>
47	Suneeth Sukumaran	Asst. Prof.	<i>[Signature]</i>	<i>[Signature]</i>
48	Sreejith K	Asst. Prof.	<i>[Signature]</i>	<i>[Signature]</i>
49	O.P. Sukesh	Asst. Prof.	<i>[Signature]</i>	<i>[Signature]</i>
50	Hareesh N. V.	Asst. Prof.	<i>[Signature]</i>	<i>[Signature]</i>
51	Nice Menachery	Asst. Prof.	<i>[Signature]</i>	<i>[Signature]</i>
52	Tony Kottoor	Asst. Prof.	<i>[Signature]</i>	<i>[Signature]</i>
53	Sheikh Aftab S.	Asst. Prof.	<i>[Signature]</i>	<i>[Signature]</i>
54	Cijil B. John	Asst. Prof.	<i>[Signature]</i>	<i>[Signature]</i>
55	Sajith U.K.	Asst. Prof.	<i>[Signature]</i>	<i>[Signature]</i>
56	Ajith Krishnan R.	Asst. Prof.	<i>[Signature]</i>	<i>[Signature]</i>
57	Arun Raj	Asst. Prof.	<i>[Signature]</i>	<i>[Signature]</i>
58	T.R. Sreesastharam	Asst. Prof.	<i>[Signature]</i>	<i>[Signature]</i>
59	Jithin K. Kuriakose	Asst. Prof.	<i>[Signature]</i>	<i>[Signature]</i>
60	Raghavan. K	Work Shop Supdt.		
61	Francis K.D.	Tradesman	<i>[Signature]</i>	<i>[Signature]</i>
62	George Kunjuvareed	Tradesman	<i>[Signature]</i>	<i>[Signature]</i>
63	Davis C.C.	Trade Instructor Gr.II	<i>[Signature]</i>	<i>[Signature]</i>
64	Jaison M.J.	Trade Instructor Gr.II	<i>[Signature]</i>	<i>[Signature]</i>
65	Shaju C.A.	Trade Instructor Gr.II		
66	Vinu Joseph	Trade Instructor Gr.II		
67	K.T. Velayudhan	Trade Instructor Gr.II	<i>[Signature]</i>	<i>[Signature]</i>
68	Guruvayoorappan V	Instructor	<i>[Signature]</i>	<i>[Signature]</i>
69	Shijin K.M	Trade Instructor Gr.II		
70	Girish C.	Junior Instructor		
71	Jophy P.J.	Junior Instructor	<i>[Signature]</i>	<i>[Signature]</i>
72	C.M. Davis	Instructor	<i>[Signature]</i>	<i>[Signature]</i>
73	Parameswaran K.	Junior Instructor	<i>[Signature]</i>	<i>[Signature]</i>

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*[Handwritten Signature]*

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Sl. No.	Name	Designation	Signature	
			FN	AN
SCIENCE, HUMANITIES AND BASIC ENGINEERING				
74	Prof. Fr. George Plassery	Professor	<i>[Signature]</i>	<i>[Signature]</i>
75	Dr. M. Balagopalan	Professor		
76	Prof. Fr. John Tharayil	Professor		
77	K.R. Sandeep Narayan	Asst. Prof.	<i>[Signature]</i>	<i>[Signature]</i>
78	Sivakumar K.S.	Asst. Prof.	<i>[Signature]</i>	<i>[Signature]</i>
79	Fr. Roy Joseph Vadakkan	Asst. Prof.	<i>[Signature]</i>	<i>[Signature]</i>
80	Antony C.V	Placement Officer	<i>[Signature]</i>	
81	O.P. Kuriakose	Lab Assistant		
82	V.S. Subrahmanian	Lab Assistant		
OFFICE				
83	Baji Jose	Sr. Assistant		
84	Girishkumar N.G	Office Assistant		
85	Joseph V.K.	Office Assistant		
86	Laiju P Thomas	Accountant		
87	Lijo T.J.	Accountant		
88	Anthony C.P.	Campus Discipline Incharge	<i>[Signature]</i>	<i>[Signature]</i>
89	John V.J	Lucturer, Physiscal Education		
90	Baby Koola	Driver		
Library				
91	Dr. Adarsh N Gokul	Librarian		
92	Krishna Kumar K	Data Entry Optr. (Library)	<i>[Signature]</i>	
Store				
93	Tomy Anto C.	Store Keeper		
94	Joseph P.J	Store Keeper Asst.		
95	Dinesh M.V	Site Engineer		
96	Geeson K Varghese	House Keeping Supvr.		
97	Abhilash K.	Electrician		

97. John Paul Martin

ASSC. Professor, DES

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*[Signature]*  
 Dr. SUNNY JOSEPH  
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 Cheruthuruthy P.O. - 679 531

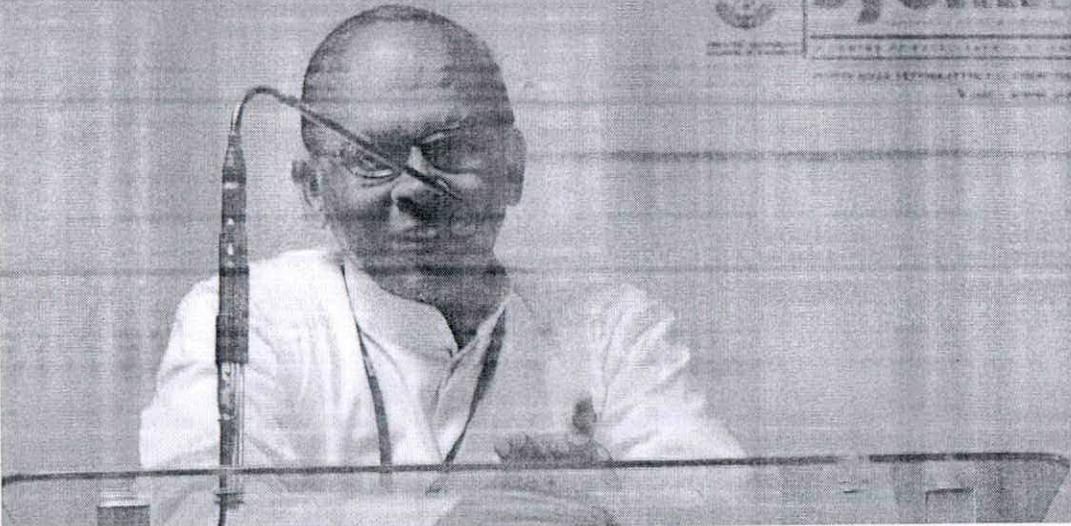
FACULTY DEVELOPMENT PROGRAMME

EMPOWERING THROUGH TEAM WORK

from  
1st - 7th  
June 2015



Jyothi Engineering College



# Empowering Through Team work

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1/06/2015 to 7/06/2015

Dr. SUNNY JOSEPH KALAYATHANKAL  
M.Tech, MCA, M.Sc, M.Phil, B.Ed  
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			FN	AN
<b>SCIENCE, HUMANITIES AND BASIC ENGINEERING</b>				
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75	Dr. M. Balagopalan	Professor		
76	Prof. Fr. John Tharayil	Professor		
77	K.R. Sandeep Narayan	Asst. Prof.		
78	Sivakumar K.S.	Asst. Prof.		
79	Fr. Roy Joseph Vadakkan	Asst. Prof.		
80	Antony C.V	Placement Officer		
81	O.P. Kuriakose	Lab Assistant		
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85	Joseph V.K.	Office Assistant		
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89	John V.J	Lucturer, Physiscal Education		
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<b>Library</b>				
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Sl. No.	Name	Designation	Signature	
			FN	AN
1	Dr. K.K. Babu	Principal		
<b>CIVIL ENGINEERING</b>				
2	M.G. Cyriac	Asso. Prof.		
3	K.T. Markose	Trade Instr.		
4	Franklin Francis	Trade Instr.		
<b>COMPUTER SCIENCE &amp; ENGINEERING</b>				
5	Prof. Muralee Krishnan C	Professor & HOD		
6	Thomas George K	Asst. Prof.		
7	Anil Antony	Asst. Prof.		
8	Viju Shankar	Asst. Prof.		
9	Shaiju Paul	Asst. Prof.		
10	Bineesh M.	Asst. Prof.		
11	Aneesh Chandran	Asst. Prof.		
12	Majo John	Asst. Prof.		
<b>COMPUTER CENTRE</b>				
13	Sujith M	System Administrator		
14	Jefrin Jose	Trade Instructor Gr.II		
15	Aneesh P.B	Trade Instructor Gr.II		
16	Sudhees C.N.	Trade Instructor Gr.II		
<b>ELECTRONICS &amp; COMMUNICATION ENGINEERING</b>				
17	Dr. Jose P. Therattil	Professor & HOD		
18	Dipin Krishnan R.	Asst. Prof.		
19	Jobin Varghese	Asst. Prof.		
20	Jinesh K.J.	Asst. Prof.		
21	Abin Johns Raju	Asst. Prof.		
22	Rijo P.C.	Asst. Prof.		
23	Vivek Lukose	Asst. Prof.		
24	Ponmani Raja	Asst. Prof.		
25	Kapil Das	Asst. Prof.		
26	P.V. John	Instructor		
27	Binoj V.J.	Instrument Mechanic		
28	Abdul Saleem N.M.	Junior Instructor		
29	Pradeesh C.G.	Junior Instructor		
30	Nithil Jose	Junior Instructor		
<b>ELECTRICAL &amp; ELECTRONICS ENGINEERING</b>				
31	Ratnan P.	Asst. Prof. & HOD		
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**IMPORTANT DEADLINES**

Registration- 29<sup>th</sup> July 2015  
Workshop dates:  
**31<sup>st</sup> July & 1<sup>st</sup> August 2015**

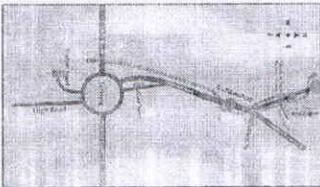
Registration fee: ₹ 200/-

For online account transfer:  
Name of the Bank: The Federal Bank Ltd.  
A/c No.: 15250 1000 17593  
IFSC Code:FDRL0001525

Those who are interested have to register their name in the website [www.jecc.ac.in](http://www.jecc.ac.in)

**HOW TO REACH**

The college is located 4 kms away from Shoranur railway station and 28 kms from Thrissur. Private buses are available from railway station and from Thrissur.



**FOR ANY QUERIES**

FDP mail: [raes@jecc.ac.in](mailto:raes@jecc.ac.in)  
College address:  
**Jyothi Engineering College**  
Jyothi Hills, Vettikkattiri P.O.,  
Cheruthuruthy, Thrissur  
Pin - 679531  
Ph: +91 - 4884 - 274198, 274423,  
E mail: [info@jecc.ac.in](mailto:info@jecc.ac.in)  
Website: [www.jecc.ac.in](http://www.jecc.ac.in)

**CONVENOR**

**Prof.Rajappan Pillai**  
HOD Dept. of CSE  
Ph: 9446722296  
Email: [rajappanpillai@jecc.ac.in](mailto:rajappanpillai@jecc.ac.in)

**COORDINATORS**

**Mr. Thomas George**  
Asst. Prof., Dept. of CSE  
Ph: 9447239077  
Email: [thomas@jecc.ac.in](mailto:thomas@jecc.ac.in)

**Ms. Swapna B Sasi**  
Asst. Prof., Dept. of CSE  
Ph: 9447125373  
Email: [swapna@jecc.ac.in](mailto:swapna@jecc.ac.in)

**RESOURCE PERSON**

**Mr. Pankaj Kumar**  
Asst. Prof., Dept. of CSE  
TISAT



**Jyothi Engineering College**  
Approved by AICTE & Affiliated to Anna University, Chennai. Centre for Professional Education  
A CENTRE OF EXCELLENCE IN AGRI & TECHNOLOGY AT THE JYOTHI HILLS OF TRISSUR

**National Workshop  
on**

*python*

**31<sup>st</sup> July & 1<sup>st</sup> August 2015**

Organised by

DEPARTMENT OF

COMPUTER SCIENCE & ENGINEERING

in association with



Computer Society of India

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*Ronned*

**Dr. SUNNY JOSEPH KALAYATHANKAL**  
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Ph.D (Computer Science), Ph.D (Maths)  
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Cheruthuruthy P.O.- 679 531



## ABOUT THE COLLEGE

### VISION

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

Jyothi Engineering College (under Thrissur Educational Trust, founded by the Catholic Archdiocese of Thrissur) started functioning at Cheruthuruthy in the year 2002. Jyothi campus is spread over an area of 30 acres at Jyothi Hills and is very close to Kerala Kalamandalam. Jyothi Engineering College is affiliated to the University of Calicut / Kerala Technological University. With a team of dedicated faculty and a set of devoted staff and with comparable infrastructural and instructional facilities in a serene and intellectually stimulating academic environment, Jyothi Engineering College has emerged as a model among self-financing colleges in Kerala.

## ABOUT THE DEPARTMENT

The Department of Computer Science and Engineering, has a strong team of faculty with high orientation towards research, offers Bachelors and Masters programmes in Computer Science. The department offers an intellectually stimulating learning environment and encourages mentoring of the students by its competent faculty members. The department aims to be an

intellectually vibrant learning centre focused on quality education and multidisciplinary research with a view to prepare young, creative and entrepreneurial minds to lead the technological and economic change in the region.

### OUR VISION

Creating eminent and ethical leaders in the domain of computational sciences through quality professional education with a focus on holistic learning and excellence.

### OUR MISSION

- ↳ To provide technically competent and ethically conscious graduates in the field of Computer Science and Engineering by encouraging holistic learning and excellence.
- ↳ To prepare students for careers in industry, academic and Government.
- ↳ To instill entrepreneurial orientation and research motivation among the students of the department.
- ↳ To emerge as a leader in education in the region by encouraging teaching, learning, industry and societal connect.

### PROGRAMME EDUCATIONAL OBJECTIVES

The graduates shall have sound knowledge of Mathematics, Science, Engineering and Management to be able to offer practical software and hardware solutions for the problems of industry and society at large.

The graduates shall be able to establish themselves as practicing professionals, researchers or Entrepreneurs in computer science or allied areas and shall also be able to pursue higher education in reputed institutes.

The graduates shall be able to communicate effectively and work in multidisciplinary teams demonstrating value driven and ethical leadership.

### PROGRAMME OUTCOMES

Graduates in the programme at the time of their graduation are in possession of:

- a) An ability to apply knowledge of mathematics, computing, science and engineering.
- b) An ability to design and conduct experiments, as well as to analyze and interpret data.
- c) An ability to design and construct a hardware and software system, component, or process to meet desired needs, within realistic constraints.
- d) An ability to function on multidisciplinary teams.
- e) An ability to identify, formulate, and solve engineering problems.
- f) An understanding of professional, social and ethical responsibility.
- g) An ability to communicate effectively.
- h) The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
- i) A recognition of the need for and an ability to engage in life-long learning.
- j) A knowledge of contemporary issues.
- k) An ability to use the techniques, skills, and modern engineering tools necessary for professional practice.

### ABOUT THE WORKSHOP

Content of the workshop will cover PYTHON subject of the First year KTU syllabus. Training will be handled by eminent faculty with industry experience and teaching experience.

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*Romy*

**Dr. SUNNY JOSEPH KALAYATHANKAL**  
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Cheruthuruthy P.O. - 679 531

## National Workshop on Python

(31<sup>st</sup> July & 1<sup>st</sup> August 2015)

### Department of Computer Science & Engineering

Jyothi Engineering College, Cheruthuruthy

A two day National Workshop on Python was conducted by the Department of Computer Science & Engineering and CSI on 31<sup>st</sup> July and 1<sup>st</sup> August 2015. HOD of CSE ,Prof. Rajappan Pillai introduced the resource person Mr.Pankaj Kumar G from FISAT, Angamaly to the delegates.

On 31<sup>st</sup> July 2015, the morning session was on “Introduction to Data Types in Python” and “Conditional statements & Logical operators”. On the same day, the afternoon session covered the topic “Loops, Functions”. At the end of the day sample python programs were given.

On 1<sup>st</sup> August 2015, the morning session was on “File operations” and “Classes”. In the afternoon, sample programs were given. Programs for the lab sessions according to KTU syllabus were discussed. There were 7 external participants from 3 colleges and 22 faculty members of Computer Science Department.

Response from the participants were good.

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Faculty Development Programme  
Python Programming

NAME LIST

Sno	Name	College
1	K.B BINI	Nehru College
2	SHJI S	Nehru College
3	REMYA P.S	Vidya Academy
4	REMYA P.C	Vidya Academy
5	SHERLY A.P	KMCTCEW
6	NEETHU MOHANAN P.M	KMCTCEW
7	DHANYA P	KMCTCEW
8	ANEESH CHANDRAN	JEC
9	SOBHA XAVIER	JEC
10	SEENIA FRANCIS	JEC
11	JYOTHIS T.S	JEC
12	ASWATHY WILSON	JEC
13	BINEESH M	JEC
14	DIVYA M. MENON	JEC
15	JISNA V.A	JEC
16	ANIL ANTONY	JEC
17	RIGI C.R	JEC
18	SHAJU PAUL	JEC
19	SNITHA THOMAS	JEC
20	VARSHA VARGHESE	JEC
21	VIJU SANKAR	JEC
22	THOMAS GEORGE	JEC
23	SWAPNA B.SASI	JEC
24	DIANA DAVIS	JEC
25	JOHN PAUL MARTIN	JEC
26	RESHMA	JEC
27	FOUSIYA K.K	JEC
28	KUMARY R.SOUMYA	JEC
29	MAJO JOHN	JEC
30	PROF. RAJAPPAN PILLAI	JEC

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Cheruthuruthy P.O. - 679 531

# National Workshop on Python

31/7/2015-1/8/2015

2



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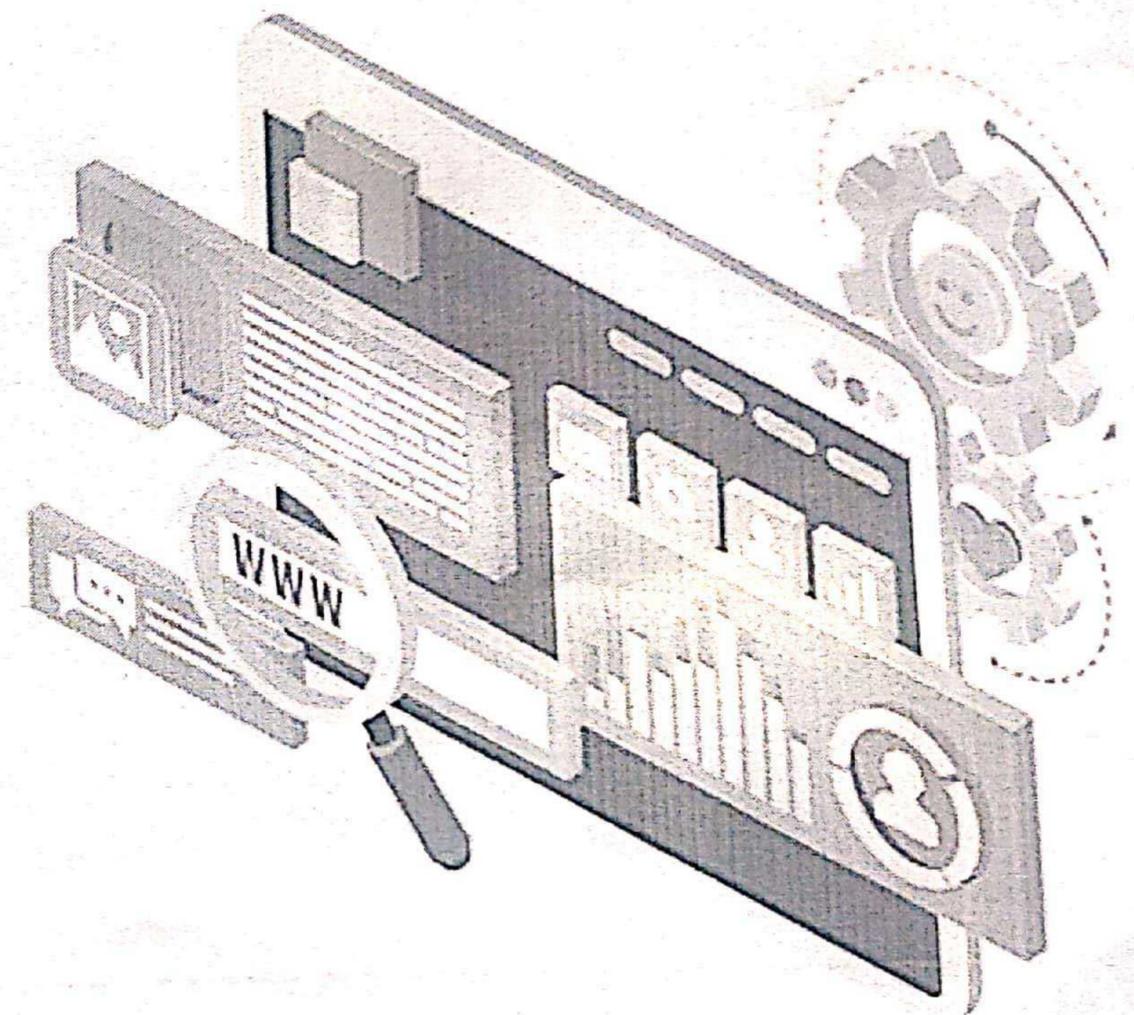
*Sunny*  
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Changanassery, Kollam

# Jyothi Engineering College

Approved by AICTE and affiliated to the University of Calicut

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

## IT TOOLS FOR ACADEMIC AND RESEARCH



*Dr. Sunny*  
Dr. SUNNY JOSEPH KALAYATHANKAL  
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19 Nov to 20 Nov 2015

## REPORT OF THE FDP CONDUCTED BY ICT ACADEMY OF KERALA

VENUE: ADVANCED NETWORK LAB

DATE: 19-11-2015, 20-11-2015

The Faculty development programme on MOODLE was organized by the ICT academy of Kerala from 19-11-2015 to 20-11-2015. The programme was handled by Mr. Sreekanth who is a well experienced person in the field. The programme is beneficial for an organization like educational institutions which helps us to maintain a system for keeping all the academic related documents like marks, assignment details etc in a common area. He handled the sessions very nicely and we got a positive feedback also.



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JYOTHI HILLS, VETTIKATTIRI P.O., CHERUTHURUTHY, THRISSUR PIN - 679531 PH: +91 - 4884 - 274198, 274423 FAX: 04884 - 274777

www.jecc.ac.in | E-mail : info@jecc.ac.in

Following Faculty members are attending the FDP organized by the ICT Academy.

Sl No	Name of faculty	Email Id	Mobile Phone No
1	Ms. Anu Sunny	anu@jecc.ac.in	9446766070
2	Ms. Della David	delladavid@jecc.ac.in	9895083581
3	Ms. Saritha P	sarithap@jecc.ac.in	984779765
4	Ms. Renjini G	renjini@jecc.ac.in	9496350708
5	Ms. Sreethumol M V	sreethu@jecc.ac.in	9400437261
6	Ms. Nithya K	nithya@jecc.ac.in	9496352256
7	Ms. Jisna V A	jisnaantony@jecc.ac.in	9744832370
8	Ms Reshma K V	reshmakv@jecc.ac.in	9961373905
9	Mr. Jhon Paul Martin	jhonpaul@jecc.ac.in	9895066584
10	Mr. Anil Antony	anil@jecc.ac.in	9746222670
11	Mr. Bineesh M	bineesh@jecc.ac.in	9946934976
12	Mr. Sandeep Narayan	appunaran@yahoo.co.in	9447006556
13	Mr. Ponmani Raja	ponmani@jecc.ac.in	9995388808
14	Mr. Abin Johns Raju	abinjohns@jecc.ac.in	9037980739
15	Mrs. Sindhu S	sindhus@jecc.ac.in	9633132924
16	Ms. Jisha Akkara	jishaakkara@jecc.ac.in	9633103108
17	Dr. Usha Menon	USHAMENON@jecc.ac.in	9387773240
18	Dr. Baby C B	babybalan@jecc.ac.in	9946485100

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*[Handwritten Signature]*

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21	Ms.Nikhila A P	nikhilaap@jecc.ac.in	9947516936
22	Mr.Jinesh K J	jineeshkj@jecc.ac.in	9400086378
23	Mr.Arun Raj A	arunraj@jecc.ac.in	9895035297
24	Mr.Lippin Pauly	lippinpauly@jecc.ac.in	9447054926
25	Mr.Sreejith A	Sreejith.a@jecc.ac.in	8547604688
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IT tools for academic and research  
19/11/2015-20/11/2015

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LET'S  
**SAVE**  
THE WATER  
TOGETHER



# WATER QUALITY

Talk By :

**Jyothi** Engineering College 

Approved by AICTE and affiliated to the University of Calicut

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

02-12-2015

Organized by Department of Civil Engineering

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# DEPARTMENT OF CIVIL ENGINEERING

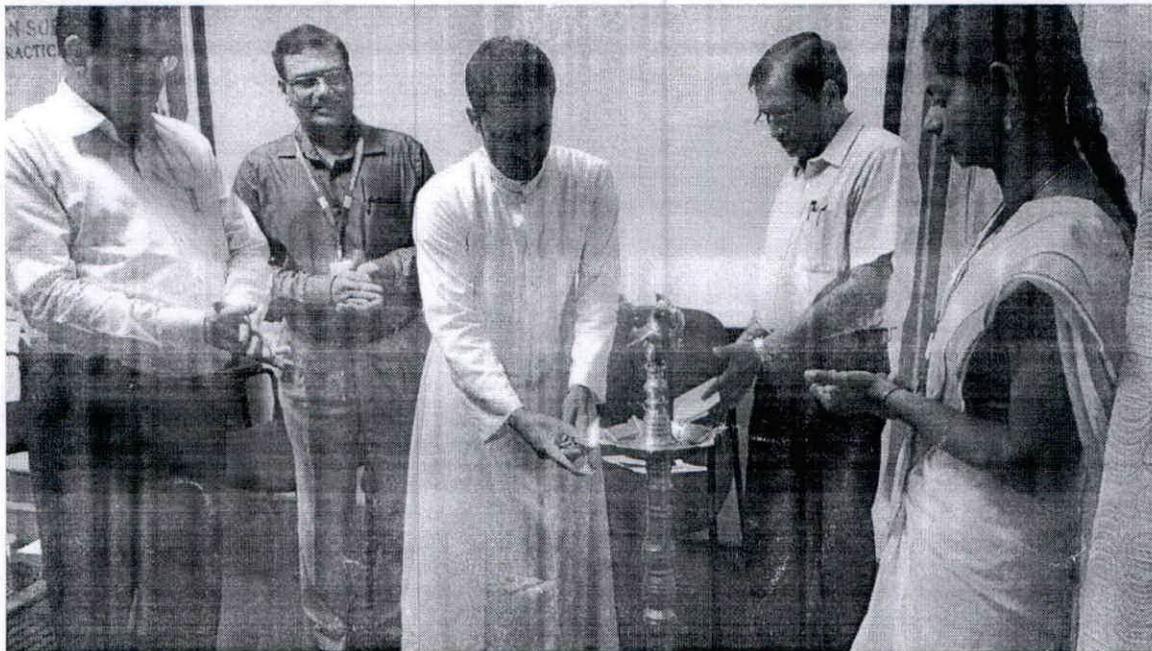
One Day Training Program on

## Water Quality

Department of Civil Engineering at Jyothi Engineering College, Cheruthuruthy, Thrissur, organized a "Water Quality" on December 2<sup>nd</sup> 2015. The program was inaugurated by Rev. Fr. Roy Joseph Vadakken, Asst. Manager (Academics and Administration) in the function presided over by the Principal Dr. K. K. Babu. Head of the Department, Prof. S. Rathish delivered the welcomed the gathering and Er. Thomas Mathew, Administrator felicitated the function.

Prof.M G Cyriac was the coordinator of the program. 30+ participants are attended the program including the jyothi faculty members.The program covered various theoretical aspects of Water quality. Prof.M G Cyriac explained various case studies and shared his practical experience with the participants. Prof. S. Rathish took a session on Water quality.

Feedback of session was collected and analysed. The participants gave high rating for the program and requested continuous support in future. The training ended with a valedictory function.



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**JYOTHI ENGINEERING COLLEGE**  
**DEPARTMENT OF CIVIL ENGINEERING**  
**ONE DAY TRAINING ON WATER QUALITY**  
**PARTICIPANT LIST**

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3	JISHA AKKARA	Jyothi Engineering College
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5	SINDHU S	Jyothi Engineering College
6	NIVYA WILSON	Jyothi Engineering College
7	Minu Jos K	Jyothi Engineering College
8	Renju Francis	Jyothi Engineering College
9	Jasmin jose	Jyothi Engineering College
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11	NEERAJA P G	Jyothi Engineering College
	NIKHILA AP	Jyothi Engineering College
12	NISNI M ASHRAF	Jyothi Engineering College
13	RACHANA R	Jyothi Engineering College
14	MELVIN RAJ	Jyothi Engineering College
15	PRAVEEN RAJ	Jyothi Engineering College
16	SUNEETH SUKUMARAN	Jyothi Engineering College
17	NICE MENACHERY	Jyothi Engineering College
18	TONY KOTTOR	Jyothi Engineering College
19	FRANKLIN FRANCIS	Jyothi Engineering College
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21	VINI E P	Jyothi Engineering College
22	ANU SUNNY	Jyothi Engineering College
23	DELLA DAVID	Jyothi Engineering College
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28	NYNI K A	Jyothi Engineering College
29	SARITHA P	Jyothi Engineering College
30	DIVYA MENON	Jyothi Engineering College
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32	SOORAJ KRISHNAN	Jyothi Engineering College

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**Water Quality**  
**2/12/2015**

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ESTD 1992

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JYOTHI HILLS, VETTIKATTIRI P.O., CHERUTHURUTHY, THRISSUR PIN - 679531 PH: +91 - 4884 - 274198, 274123 FAX : 04884 - 274123

www.jecc.ac.in | E-mail : info@jecc.ac.in

Faculty Development Programme

on

## R PROGRAMMING

18/12/2015

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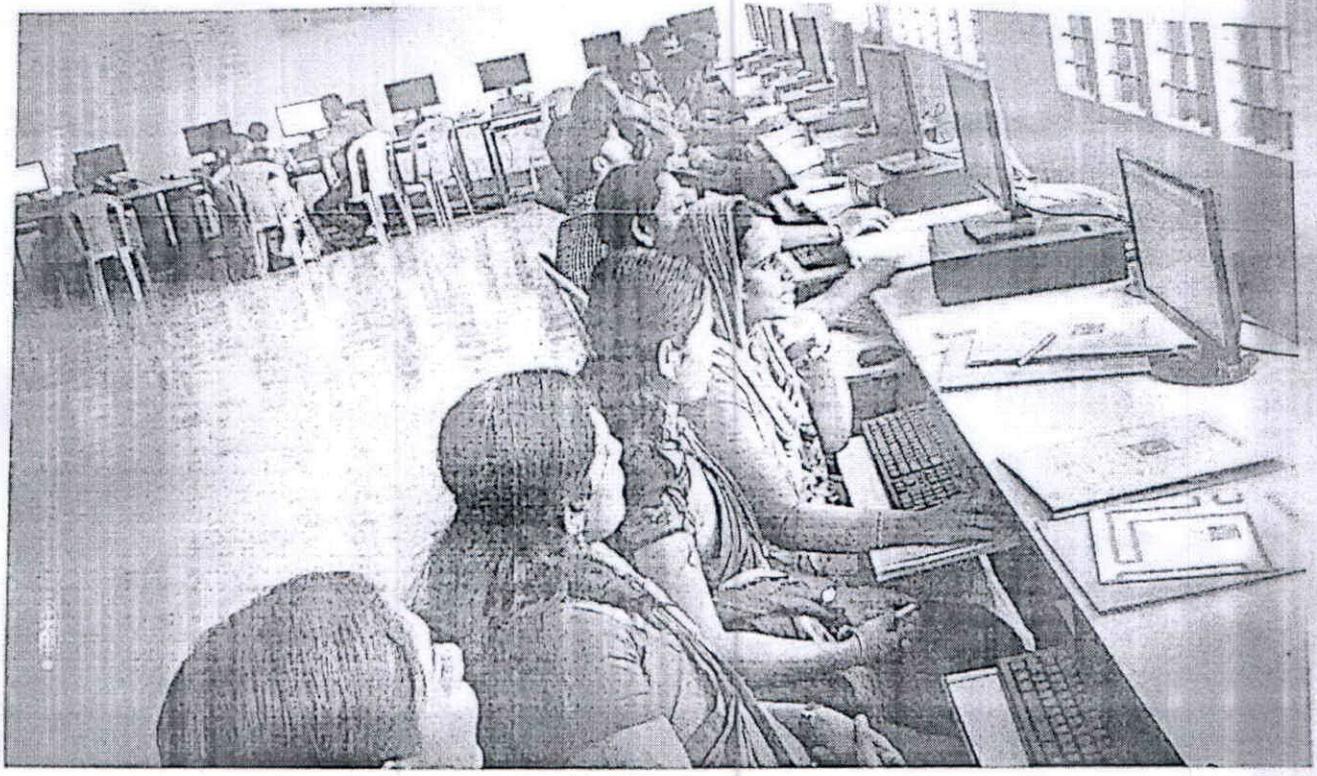
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Organized by VED Academy &

VENUE: ADVANCED NETWORK LAB

DATE: 18-12-2015

The Faculty development programme on R-programming was organized by the ICT academy of Kerala on 18-12-2015 .The programme was handled by Mr.Sreekanth who is a well experienced person in the field. The programme is beneficial for the people in educational institutions which helps us to motivate students to do their project works in the area of database management . He handled the sessions very nicely and we got a positive feedback also.



*Handwritten signature and date: 15/01/16*

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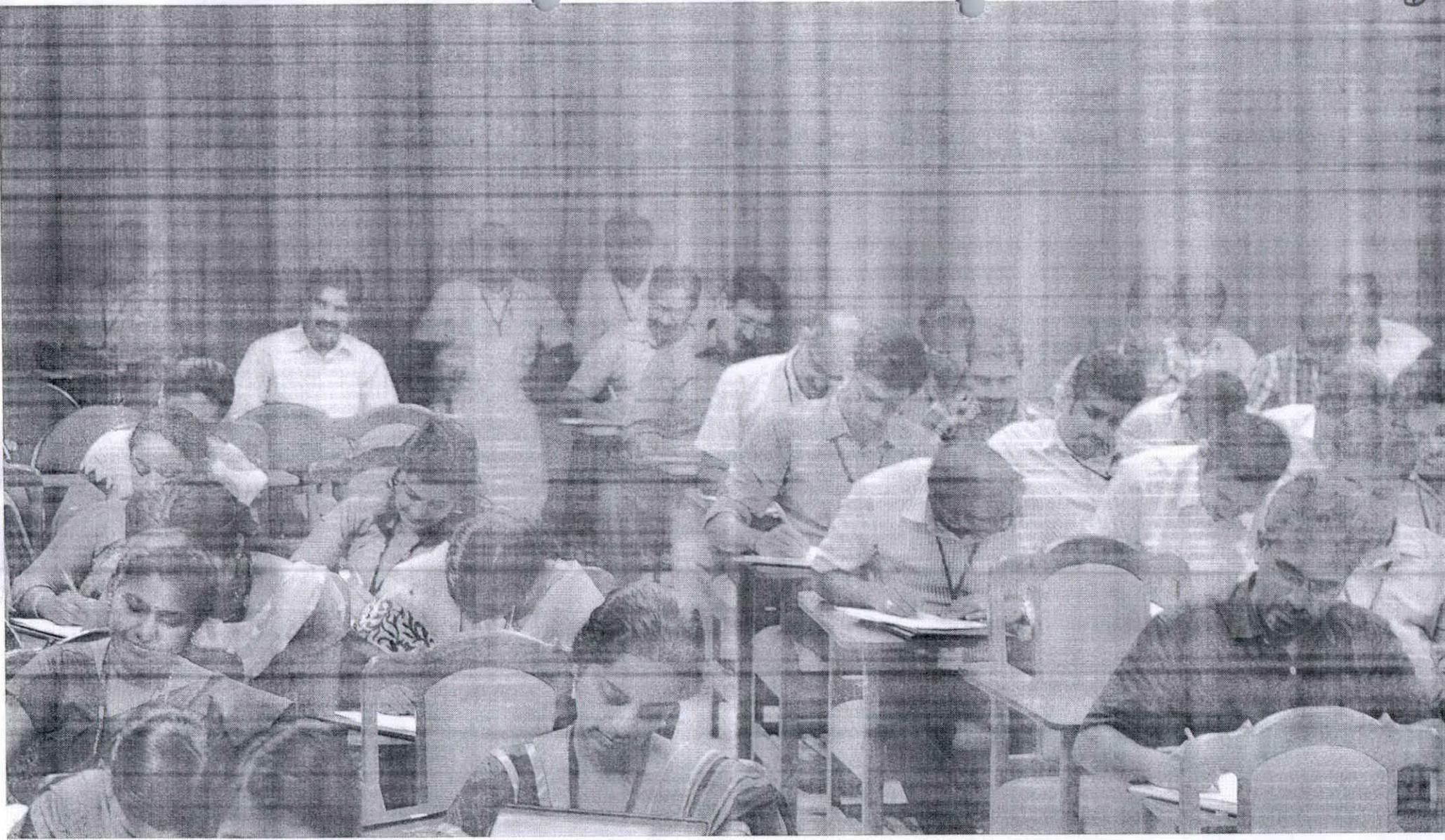
Faculty Development Programme  
R Programming - 18/12/2015

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2	SHIJI S	Nehru College
3	REMYA P.S	Vidya Academy
4	REMYA P.C	Vidya Academy
5	SHERLY A.P	KMCTCEW
6	NEETHU MOHANAN P.M	KMCTCEW
7	DHANYA P	KMCTCEW
8	ANEESH CHANDRAN	JEC
9	SOBHA XAVIER	JEC
10	SEENIA FRANCIS	JEC
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12	ASWATHY WILSON	JEC
13	BINEESH M	JEC
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15	JISNA V.A	JEC
16	ANIL ANTONY	JEC
17	RIGI C.R	JEC
18	SHAIJU PAUL	JEC
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21	VIJU SANKAR	JEC
22	THOMAS GEORGE	JEC
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25	JOHN PAUL MARTIN	JEC
26	RESHMA	JEC
27	FOUSIYA K.K	JEC
28	KUMARY R.SOUMYA	JEC
29	MAJO JOHN	JEC
30	PROF. RAJAPPAN PILLAI	JEC
31	RAMYA	ALAMEEN
32	SREEKALA R	Nehru College
33	RESHMA V M	MALABAR
34	RADHIKA K	Nehru College
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FDP on R programming  
18/12/2015

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312

### ABOUT THE WORKSHOP

This course is designed as 40 % theory and 60 % practical. All the session will be handled in the Lab.

#### DAY 1 : Big Data Analytics

Session 1: Introduction to Big data and Analytics

Session 2: Working with HDP

Session 3: Introduction to Map Reduce

Session 4: Map Reduce Programming

#### DAY 2 : Analytics with R

Session-1: R Programming

Session-2: Descriptive Analytics

Session-3: Predictive Analytics

Session 4: Advanced Analytics

**Registration fee: ₹ 500/- for Faculty  
₹ 300/- for PG Students**

Those who are interested have to register their name in the website [www.jecc.ac.in](http://www.jecc.ac.in)

### DEADLINES

Registration- 9<sup>th</sup> January 2016

Workshop dates:

12<sup>th</sup> & 13<sup>th</sup> January 2016

### FOR ANY QUERIES

FDP mail: [fdpcse@jecc.ac.in](mailto:fdpcse@jecc.ac.in)

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Website: [www.jecc.ac.in](http://www.jecc.ac.in)

### RESOURCE PERSON

Dr. S.P.Syed Ibrahim M.E., Ph.D.

Professor & Coordinator for Data Analytics Research Group

School of Computing Science and Engineering

VIT University - Chennai Campus

Tulasi Prasad

Asst.Professor

School of Computing sciences & Engineering

VIT university Chennai Campus

### CONVENOR

Prof.Rajappan Pillai

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Ms. Aswathy Wilson

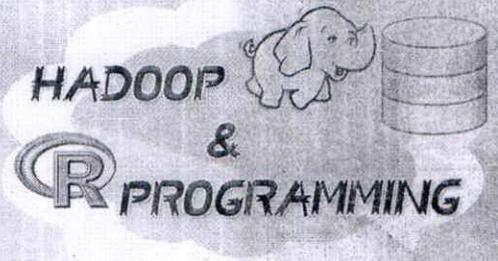
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Two Day FDP on



12<sup>th</sup> & 13<sup>th</sup> January 2016

Organised by

DEPARTMENT OF

COMPUTER SCIENCE & ENGINEERING

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### ABOUT THE COLLEGE

#### VISION

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

Jyothi Engineering College (under Thrissur Educational Trust founded by the Catholic Archdiocese of Thrissur) started functioning at Cheruthuruthy in the year 2002. Jyothi campus is spread over an area of 30 acres at Jyothi Hills and is very close to Kerala Kalamandalam. Jyothi Engineering College is affiliated to the University of Calicut / Kerala Technological University. With a team of dedicated faculty and a set of devoted staff and with comparable infrastructural and instructional facilities in a serene and intellectually stimulating academic environment, Jyothi Engineering College has emerged as a model among self-financing colleges in Kerala.

### ABOUT THE DEPARTMENT

The Department of Computer Science and Engineering, has a strong team of faculty with high orientation towards research, offers Bachelors and Masters programmes in Computer Science. The department offers an intellectually stimulating learning environment and encourages mentoring of the students by its competent faculty members. The department aims to be an

intellectually vibrant learning centre focused on quality education and multidisciplinary research with a view to prepare young, creative and entrepreneurial minds to lead the technological and economic change in the region.

#### OUR VISION

Creating eminent and ethical leaders in the domain of computational sciences through quality professional education with a focus on holistic learning and excellence.

#### OUR MISSION

- To provide technically competent and ethically conscious graduates in the field of Computer Science and Engineering by encouraging holistic learning and excellence.
- To prepare students for careers in industry, academic and Government
- To instill entrepreneurial orientation and research motivation among the students of the department.
- To emerge as a leader in education in the region by encouraging teaching, learning, industry and societal connect.

#### PROGRAMME EDUCATIONAL OBJECTIVES

The graduates shall have sound knowledge of Mathematics, Science, Engineering and Management to be able to offer practical software and hardware solutions for the problems of industry and society at large.

The graduates shall be able to establish themselves as practicing professionals, researchers or Entrepreneurs in computer science or allied areas and shall also be able to pursue higher education in reputed institutes.

The graduates shall be able to communicate effectively and work in multidisciplinary teams demonstrating value driven and ethical leadership

#### PROGRAMME OUTCOME

Graduates in the programme at the time of their graduation are in possession of:

- a) An ability to apply knowledge of mathematics, computing, science and engineering.
- b) An ability to design and conduct experiments, as well as to analyze and interpret data.
- c) An ability to design and construct a hardware and software system, component, or process to meet desired needs, within realistic constraints.
- d) An ability to function on multidisciplinary teams.
- e) An ability to identify, formulate, and solve engineering problems.
- f) An understanding of professional, social and ethical responsibility.
- g) An ability to communicate effectively.
- h) The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
- i) A recognition of the need for and an ability to engage in life-long learning.
- j) A knowledge of contemporary issues.
- k) An ability to use the techniques, skills, and modern engineering tools necessary for professional practice.

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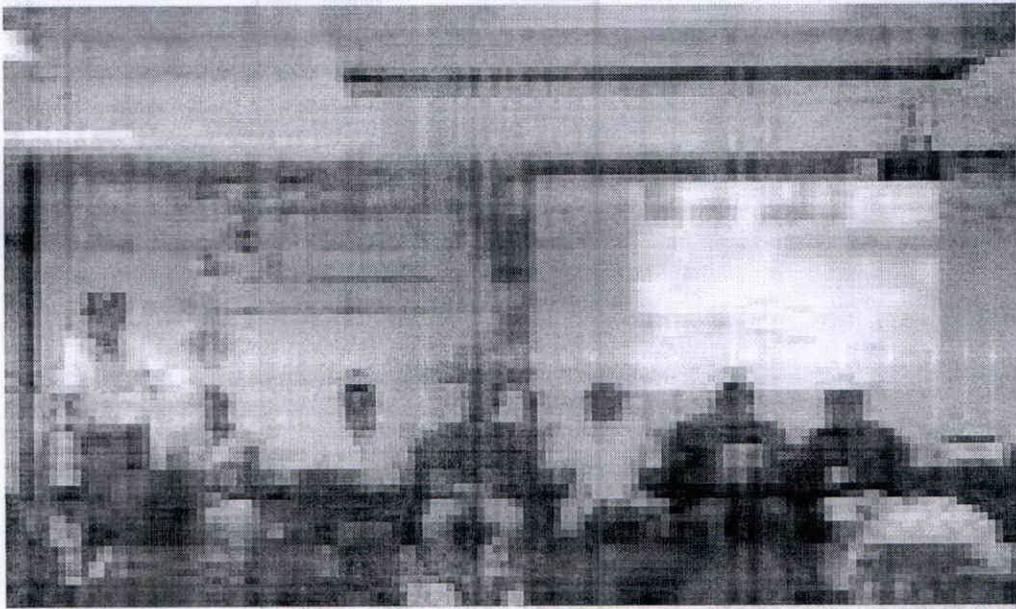
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12-01-2016

### Report Faculty Development Program on Hadoop And R Programming

Jyothi Computer Science and Engineering Department organized two-day faculty development program **Hadoop And R Programming** - on 12 and 13th January 2016. The eminent Speaker of the workshop was Dr. S. P. Syed Ibrahim, Professor and Coordinator for Data Analytics Research Group School of Computing Science and Engineering VIT University Chennai- on the topic "Big Data Analytics". Second resource person was Tulsi Prasad, Assistant Professor of School of Computing Science and Engineering VIT University Chennai. Second class is based on Analytics with R Programming. The workshop Started at 10.30 am with a prayer. Rev. Fr. Roy Joseph Vadakkan, highlight the importance of FDP for the growth of institution as well as faculty and welcomed the gathering. The course was designed as 40% theory and 60% practical. All the sessions were handled in CSE lab. Fifty-five faculty members participated in the workshop and Certificate of Participation was distributed. The workshop was concluded at 03.00 pm. Resource persons handled the sessions very nicely and we got a positive feedback also.



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FDP on Hadoop and R Programming On 12,13/01/2016  
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# FDP on Hadoop and R Programming

12/1/2016-13/1/2016

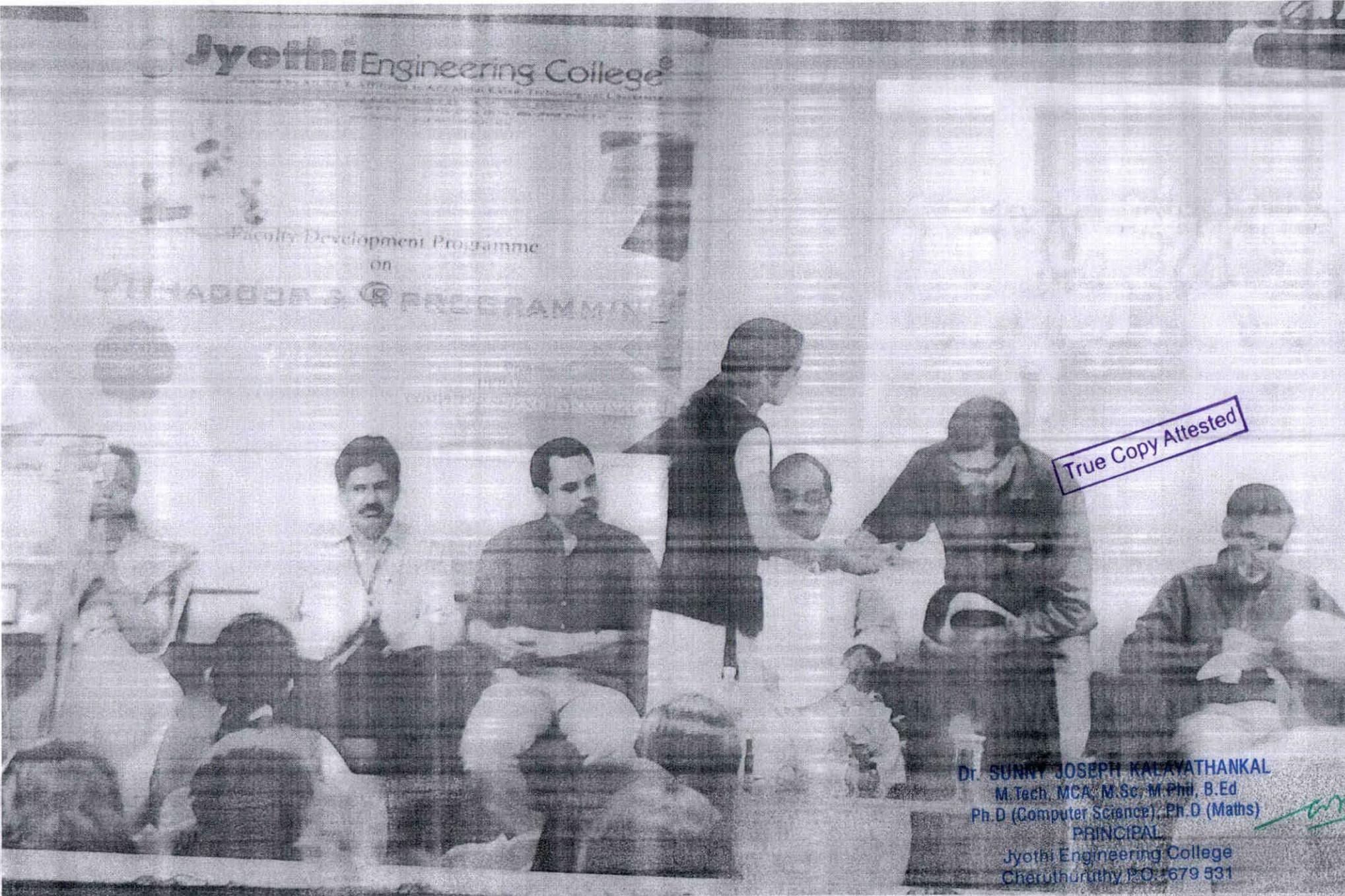
3

**Jyothi Engineering College**

Faculty Development Programme

on

**HADOOP & R PROGRAMMING**



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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

*am*

## COURSE CONTENT

- Industrial automation: CNC, PLC, SCADA.
- Industrial Robots
- Fluid power Systems
- Industrial Electronics, Instrumentation & Control
- PLCs & Industrial Networks
- Motion Control & Robotics
- Mechanical Drives & Facilities
- Manufacturing Automation
- Power Electronics
- Applied Control Systems
- Kinematics and Mechanisms

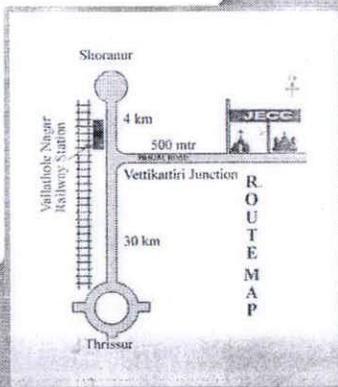
## RESOURCE PERSONS

- Prof. A.P. Sudheer, NIT(Calicut)
- Mr. P. Suresh, IIT (Madras)
- Mr. Sreekanth M., NIT (Calicut)
- Mr. Jobin Varghese, NIT (Calicut)

## REGISTRATION

- Number of participants limited to maximum of 40.
- Registration Fees : Rs. 500/-
- Registration will be done on the First Come First Serve (FCFS) basis.
- Payment can be remitted in advance into A/c no. 15250100010739
- Name: Mechanical Engineering Association
- IFSC Code:FDRL0001525
- The duly filled application form downloaded from the college web site along with details of the payment has to be sent in the following mail ID on or before 8th Feb. 2016.
- Email id : fdpme@jecc.ac.in

## Route Map



**Jyothi Engineering College**  
 Jyothi Hills, Vettikkattiri P.O., Cheruthuruthy,  
 Thiruvananthapuram Pin - 679531 Ph: +91 - 4884 - 274198, 274423  
 Fax : 04884 - 274777

## ORGANISATION COMMITTEE

- Patron  
H.G. Mar Andrews Thazhathu
- Manager  
Msgr. Thomas Kakkassery
- Asst. Manager  
(Academics & Administration)  
Rev. Fr. Roy Joseph Vadakkan
- Administrator  
Er. Thomas Mathew
- Principal  
Dr.K.K. Babu
- Convener  
Prof.K.C. John HOD, ME
- Advisory committee
  - 1 Prof.Varughese Job K.  
Professor, ME Department
  - 2 Mr.Sandeep C.G.  
Automation Bussines
  - 3 Dr.A. Surendran  
Manager ,SIFL,Thrissur
  - 4 Mr. Manoj Kumar V.K.  
Asst.Professor,ME Department

- Co-Ordinators  
Mr.Biju C.V.  
Assoc. Professor,ME Department  
Ph:9447388932  
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- Mr.Nice Menachery  
Asst. Professor.Dept of ME  
Ph:9895580629  
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## Jyothi Engineering College

Approved by AICTE & Affiliated to APJ Abdul Kalam Technological University  
 A COMMITMENT OF EXCELLENCE IN ENGINEERING & TECHNOLOGY BY THE FUTURE LEADERS OF TOMORROW



Two Day

Faculty Development Program

on

Robotics & Industrial Automation



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10<sup>th</sup> & 11<sup>th</sup>

February-2016

Dr. SUNNY JOSEPH KALAYATHANKAL

M.Tech, MCA, M.Sc, M.Phil, B.Ed  
 Ph.D (Computer Science), Ph.D (Maths)

Organized By  
 Department

PRINCIPAL  
 Jyothi Engineering College  
 Cheruthuruthy P.O. - 679 531

of  
 Mechanical Engineering  
 in association with

SAE INDIA The Engineering Society For Advancing Mobility, Safety and Health



## ABOUT THE COLLEGE

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

Jyothi Engineering College (under Thrissur Educational Trust founded by the Catholic Archdiocese of Thrissur) started functioning at Cheruthuruthy in the year 2002. Jyothi campus is spread over an area of 30 acres at Jyothi Hills and is very close to Kerala Kalamandalam. Jyothi Engineering College is affiliated to the University of Calicut / APJ Abdul Kalam Kerala Technological University. With a team of dedicated faculty and a set of devoted staff and with comparable infrastructural and instructional facilities in a serene and intellectually stimulating academic environment, Jyothi Engineering College has emerged as a model among self-financing colleges in Kerala.

## ABOUT THE DEPARTMENT

The Department of Mechanical Engineering at Jyothi Engineering College was established in the academic year 2004, offering a four-year B.Tech course in Mechanical Engineering.

annual intake is 120 students and an additional 4 Students are admitted under fee waiver Scheme. It is one of the biggest departments of the institute with student strength of about 500. Department is planning to start a PG program for students who are interested in higher studies and AICTE approval for the same is awaited. Regular training programs are organized by the Department for better employability and personality Development. Many of the students bagged top ranks in the Calicut University. Most of the students passed out from the department are working in top ranked international and multinational companies. A number of students from the department pursue their higher studies at IITs and IIMs and also at top ranked foreign universities.

## OUR VISION

To provide quality education of international standards in Mechanical Engineering and promote professionalism with ethical values, to work in a team and to face global challenges.

## OUR MISSION

To provide an education that builds a solid foundation in Mechanical

Engineering to prepare graduates for employment, higher education and enable a lifelong growth in their profession.

To develop good communication, leadership and entrepreneurship skills to enable good knowledge transfer.

To include class research program in Mechanical Engineering.

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D.B. SUNNY JOSEPH KALAYATHANKAL  
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Ph.D (Computer Science), Ph.D (Maths)  
PRINCIPAL

Jyothi Engineering College  
Cheruthuruthy P.O. - 670 521

## PROGRAMME EDUCATIONAL OBJECTIVES

PEO I: Graduate Engineers shall have strong practical and theoretical exposure in the field of Mechanical Engineering and will contribute to the society through innovation and enterprise.

PEO II: Graduate Engineers shall have global outlook and technological leadership, good employments or opt for higher studies/research and have creative thinking to initiate and develop innovative ideas.

PEO III: Graduate Engineers shall have excellent teamwork, communication and interpersonal skills, having high morals and ethical values.

## PROGRAMME OUTCOMES

- a. Ability to apply knowledge of mathematics, science and engineering in the field of Mechanical Engineering
- b. Ability to design and conduct experiments, analyze and interpret data and results in Mechanical Engineering.
- c. Ability to design Mechanical systems, components, or processes to meet the desired needs within realistic constraints such as health and safety, manufacturability and sustainability with economic, environmental, social, political and ethical considerations.
- d. Ability to work individually as well as in multidisciplinary teams as a member or as a leader to accomplish the common goal.
- e. Ability to identify, analyzes, formulate, and solve engineering problems.
- f. Knowledge of professional and ethical responsibility

g. Ability to communicate effectively in any area of their field to the industry fellow beings and society.

h. Broad knowledge necessary to understand the impact of engineering solutions on individuals, organizations and society.

i. Ability to engage in life-long learning to update their knowledge to keep pace with changes caused by dynamic nature of engineering field.

j. Awareness of the contemporary issues that help to integrate advanced and sustainable solutions in the environment.

k. Ability to use the techniques, skills and modern engineering tools, software and equipment to analyze and manage complex engineering solutions.

## ABOUT THE PROGRAM

The objective of the proposed FEED to introduce the state-of-the-art techniques in automation mechatronics to the practicing engineers and academicians to enable them to take up challenging assignments in the future. Theoretical aspects of automation systems and their implementation aspects will be discussed during the program. It is an interdisciplinary program intended for faculty members in the various fields of engineering discipline, such as electrical, electronics, mechanical and instrumentation engineering. The sessions handled by the experts from IITs and NITs would enrich the programme. It is a unique opportunity to participate in the advancement of the industry research base through interaction with experts in academia and industry.

4/3



# Jyothi Engineering College

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A CENTRE OF EXCELLENCE IN SCIENCE & TECHNOLOGY BY THE GOVT. OF KERALA  
JYOTHI HILLS, VETTIKATTURU P.O., CHERUTHURUTHY, THIRUVARUR - 679 531 PH: 01 - 18841 - 274198, 274183 FAX: 018841 - 274177  
www.jeeec.ac.in | E-mail: info@jeeec.ac.in

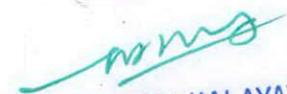
**Two Day Faculty Development Programme**  
**Organized by Department of Mechanical Engineering**  
**in association with SAEINDIA**  
**On**  
**ROBOTICS AND INDUSTRIAL AUTOMATION**

**Report**

The objective of the proposed FDP is to introduce the state-of-the-art techniques in automation and mechatronics to the practicing engineers and academicians to enable them to take up challenging assignments in the future. Theoretical aspects of automation systems and their implementation aspects will be discussed during the program. It is an interdisciplinary program intended for faculty members in the various fields of engineering discipline, such as electrical, electronics, mechanical, and instrumentation engineering. The sessions handled by the experts from IIT's and NIT's would enrich the programme. Mechanical Engineering Department of Jyothi Engineering College, Cheruthuruthy organized faculty development programme on Robotics and Industrial Automation during 10<sup>th</sup> and 11<sup>th</sup> February, 2016. Manager of the institution Msgr. Thomas Kakkasery was the chief patron of the programme. Rev. Fr. Roy Joseph Vadakkan, were the patron of the programme. As per the directions from the advisory body consists of Dr. K.K. Babu, Principal, Rev. Fr. John Thrayil, Dr. Jose P. Therattil, Dr. C.K. Raju, Prof. Ratheesh. S. and Prof. Ratnan P, convener Prof. Varughese Job K and Coordinators Mr. Biju C.V and Mr. Christy V Vazhappily conducted the event successfully without any deviation from the conditions approved by the management.

The programme was the amalgamation of the familiarizations two streams namely, academic and industrial domains Robotics and industrial Automation . the session handled by Dr. A.P Sudheer, Assistant Professor, NIT Calicut., Mr.P.Suresh, Senior Research Fellow, IITM & Former Div.Manager TATA Motors. Mr.Jobin Varghese, Research Fellow NIT Calicut. Mr.P.Suresh handled two sessions on Industrial Automation & Robotics and Control Systems.

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A CENTRE OF EXCELLENCE IN SCIENCE & TECHNOLOGY BY THE CATEGORY C ARCHDIOCESE OF TRICHUR  
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www.jeeec.ac.in | E-mail: info@jeeec.ac.in

Altogether 53 participants were benefitted by the programme. From 14 institutions like MIT, Manipal, Trinity College Trivandrum, Rajagiri Engineering College, Viswajyothi Engineering College, etc. 23 external participants attended the FDP. The two days programme was evaluated by the feedback from the participants. The members expressed their satisfaction and gratitude for the exmplorary execution of the programme and also highlighted that the proper blend of academic and industrial domains clarified their anxiety on the complex area of Industrial Automation.

The event concluded by the valedictory programme presided by Principal Dr. K.K. Babu. Rev. Fr. Joju Chiriyankandath, Finance Manager distributed the certificate of participation to all the members attended the FDP. The valedictory programe was over by 4.00pm. The transportation fascility for the participants were arranged to the railway stations at Thrissur, Shornur and palakkad.

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DEPARTMENT OF MECHANICAL ENGINEERING  
 FACULTY DEVELOPMENT PROGRAMME ON ROBOTICS AND INDUSTRIAL AUTOMATION  
 10/02/2016 & 11/02/2016

SL NO	NAME OF FACULTY	
1	MANIKANDAN N R	GOVT : ENGG. COLLEGE, THRISSUR
2	C KARUNAKARAN	MAHA INDUSTRIAL SKILL DEVELOPMENT CENTRE, TAMIL NADU
3	NEETHU ROSE THOMAS	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
4	SANOJ T	NEHRU COLLEGE OF ENGG. & RESEARCH CENTRE, PAMBADY
5	PREM SANKAR R	NEHRU COLLEGE OF ENGG. & RESEARCH CENTRE, PAMBADY
6	JISHA AKKARA	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
7	Dr. ANITHA JACOB	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
8	KRISNANDAS M	ROYAL COLLEGE OF ENGG. & TECHNOLOGY, AKKIKAVU
9	ABIN PAUL	VISWAJYOTHI COLLEGE OF ENGG. & TECHNOLOGY VAZHAKULAM
10	VIPIN VENU	METS SCHOOL OF ENGG. MALA
11	JIBIN JOSEPH	RAJAGIRI SCHOOL OF ENGG. & TECHNOLOGY KAKKANAD
12	SANJEEV KUMAR C P	AL-AMEEN ENGG. COLLEGE, KULAPULLY
13	NEERAJA P G	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
14	SINU C G	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
15	ANU THERESA K R	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
16	RACHANA R	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
17	ANJU M J	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
18	NISNI M ASHRAF	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
19	LAKSHMI DIVAKARAN P	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
20	NIKHILA A P	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY

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SL NO	NAME OF FACULTY	
21	Prof.VARUGHESE JOB K	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
22	LAWRANCE C A	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
23	BIJU C V	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
24	MANOJKUMAR V K	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
25	PRAVEEN RAJ	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
26	CHRISTY V VAZHAPPILLY	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
27	MELVINRAJ C R	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
28	NIKHIL N S	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
29	SUNEETH SUKUMARAN	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
30	SREEJITH K	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
31	HAREESH N V	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
32	NICE MENACHERY	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
33	TONY KOTTOOR	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
34	SHEIK AFTHAB S	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
35	NISHA SHERIEF	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
36	SUKESH O P	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
37	SAJITH U K	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
38	CIJIL B JOHN	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
39	T R SREE SASTHA RAM	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
40	ARUN RAJ A	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
41	JITHIN K KURIAKOSE	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
42	LIPPIN PAULY	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
43	ANTO ZACHARIAS	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
44	SREEJITH A	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
45	Ambili Francis	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
46	soumya C	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
47	SHAIJU C PAUL	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
48	SINDHU S	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
49	SHIJU VARGHESE	GOVT : ENGG. COLLEGE, THRISSUR
50	NAMITHA TN	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
51	VIJU SANKAR	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
52	RAJA RAPHAEL	METS SCHOOL OF ENGG. MALA
53	JENSON JOSE	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY

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*Ranjay*

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# Robotics and Industrial Automation

10.2.2016 TO 11.2.2016



# Jyothi Engineering College <sup>7</sup>

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

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ESTD 2002

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## Work shop on **IoT**

for Faculty of  
Jyothi Engineering College

**DATE 22<sup>nd</sup> & 23<sup>rd</sup> APRIL 2016**

RESOURCE PERSON FROM

**KERALA STARTUP MISSION**

Venue :  
**Decennial Hall  
& VLSI Lab**

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*Romano*



IEDC-JECC



KERALA  
STARTUP MISSION

**Dr. SUNNY JOSEPH KALAYATHANKAL**  
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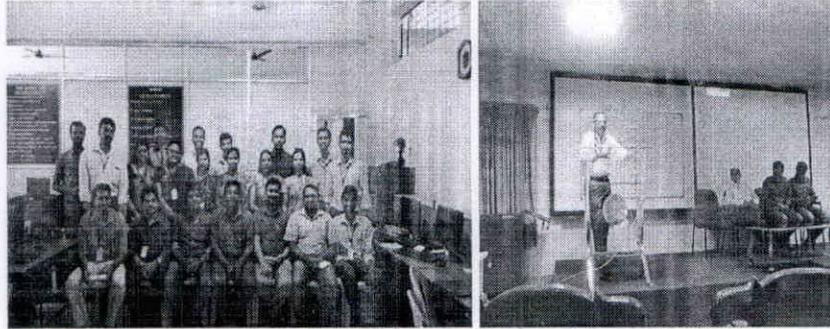
Organized by

**IEDC JECC IN ASSOCIATION WITH ISTE CHAPTER JECC**

# IoT Workshop

Date: 22/04/2016 & 23/04/2016

Venue: Decennial Hall & VLSI Lab



The IEDC of Jyothi Engineering College was conducted two day Faculty Development Programme on "IoT workshop" for our faculty in association with ISTE on 22/04/2016 and 23/04/2016. The session was handled by Akshai M, Engineer and Trainer at MIT (Massachusetts Institute of Technology) Fab Lab Kerala, an initiative under Center for Bits and Atoms, MIT Media Labs Boston and Govt. of Kerala. He was accompanied by Abilash, Kerala Startup Mission Fellow. The participants were from all four departments Computer Science, Electronics & Communication, Electrical & Electronics and Mechanical Engineering. The first day of the workshop started with an official function where Prof.Varghese Job welcomed the gathering, Engg.Thomas Mathew, the college Administrator inaugurated the function. The first day of the sessions mainly provide hands-on sessions in the VLSI laboratory on the topics Arduino Microcontroller & simple interfacing examples and second day on the topic Raspberry pi with its application examples. The FDP came to end on the second day with a Vote of Thanks by Mr.Anil Antony, Convener & Nodal Officer, IEDC. The components worth Rs.45260/- was used from IEDC Bootcamp fund to set up an IoT Lab in our Campus. The components were procured by Kerala Startup Mission & plan to setup the IoT lab in Startup Center.

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# IEDC & ISTE sponsored FDP on Internet of Things

## Participant Details

SEL. NO.	Name of the participant	Branch
1	Akhil A. Balakrishnan	EEE
2	Tony Kottoor	ME
3	Divya M Menon	CSE
4	Jefferin Jose	CSE
5	Sobha Xavier P	CSE
6	Bineesh M	CSE
7	Aneesh Chandran	CSE
8	Thomas George K	CSE
9	Anil Antony	CSE
10	Nisha mary.p	ECE
11	Bindhu K Rajan	ECE
12	Asha John	ECE
13	Jithin K Kuriakose	ME
14	Abin Johns Raju	ECE
15	Roshni Rajan K	ECE
16	Seenia Francis	CSE
17	Swapna B.Sasi	CSE
18	Aswathy Wilson	CSE
19	Ambilyfrancis	ECE
20	Majeendran.K	EEE
21	John Paul Martin	CSE
22	Diana Davis	CSE
23	Sreekanth M	ECE
24	Drishya M K	ECE
25	Jinesh K J	ECE
26	Arun Raj A	ME
27	Dipin Krishnan	ECE
28	Roshmy George	PG-CSE
29	Susan Shaju	PG-CSE
30	Haritha R.B	PG-CSE
31	Jithin Dev	PG-CSE
32	Reshma K.R	PG-CSE
33	Neethu K.S	PG-CSE

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FDP on Internet of Things  
22/4/2016-23/4/2016

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Cheruthuruthy P.O.- 679 531

## 15-06-16 (Wednesday)

09:30 - 12:30 IST Goal Setting - Just Do It!  
(Includes Team Building Activity)

-Mr. Joseph Joshy

Former Group Manager, Infosys and Corporate Guest  
Trainer at Infosys Leadership Institute (ILI)

12:30 - 13:30 IST Lunch

13:30 - 14:00 IST Bamboozle

14:00 - 16:30 IST These are "OUR" Goals -  
Voice from Departments  
:HODs of respective Depts

## 16-06-16 (Thursday)

09:30 - 10:30 IST 21<sup>st</sup> Century Survival Skills  
and Lateral Thinking  
:PAT @JEC (Training &  
Development Cell)

10:30 - 10:45 IST Tea Break

10:45 - 12:30 IST Behind the Scene - Processes  
from Administration  
:Er. Bobby Peter

Retired Asst. Director, Technical Education Depart-  
ment, Govt of Kerala and Asst. Administrator, JECC

12:30 - 13:30 IST Lunch

13:30 - 14:00 IST Mutation & Permutation

14:00 - 15:00 IST Updates from the Finance  
Manager's Desk (Includes  
Open House)

:Rev. Fr. Jojo Chiriyankandath

Treasurer, Trichur Educational Trust and Assistant  
Manager (Finance), JECC

15:00 - 15:15 IST Tea/Bio Break

15:15 - 16:30 IST Updates from the Project  
Manager's Desk (Includes  
Open House)

:Rev. Fr. Jinto Pereppadan  
Assistant Manager (Projects),  
JECC

## 17-06-16 (Friday)

09:30 - 12:30 IST Beginning of Simple and  
Harmonic Communication

-Dr. Usha Menon

Social Upliftment and Environment Preservation Practi-  
tioner, Head, Dept. of English, JECC

12:30 - 13:30 IST Lunch

13:30 - 14:00 IST Pandemonium

14:00 - 16:30 IST Valedictory Function

FDP Summarization

Feedback from Participants

Thanksgiving is the Best Giving

:Administrator, JECC

Certificate & Prize Distribution

Concluding Remarks :Principal, JECC

Voice from Editor's Desk: Asst Manager

(Academics & Administration), JECC

National Anthem

## 18-Jun-16 (SATURDAY)

09:30 - 16:30 IST Work-Life Balance - Family  
Initiative

## 19-Jun-16 (SUNDAY)

09:30 - 16:30 IST Team Building Activities -  
Outing

**FACULTY DEVELOPMENT  
PROGRAMME  
ON PERFORMANCE BASED WORK ETHIC**

**AN INITIATIVE BY PAT@JEC,  
TRAINING & DEVELOPMENT CELL**

**Jyothi Engineering College**

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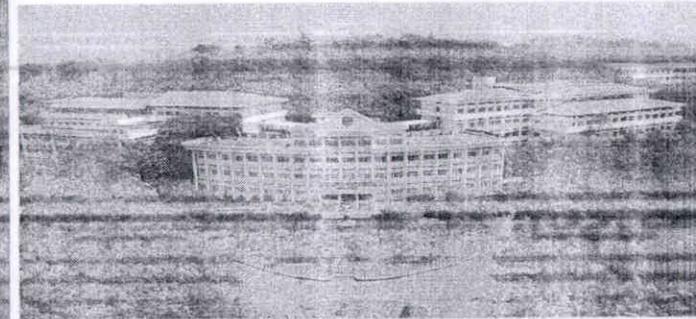
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FACULTY DEVELOPMENT PROGRAMME

on

**PERFORMANCE BASED  
WORK ETHIC**



13<sup>th</sup>-19<sup>th</sup> June, 2016

Dr. SUNNY JOSEPH KALAYATHA  
M.Tech, MCA, M.Sc, M.Phil, B.E.  
Ph.D (Computer Science), Ph.D (M)  
PRINCIPAL

Jyothi Engineering College  
Cheruthuruthy P.O. - 679 531

One Week  
Faculty Development Program  
(June 13<sup>th</sup>-19<sup>th</sup> of 2016)



Founded in 2002 as Jyothi Engineering College, The institute was ranked as fourth best engineering college in the state in recognition of its academic excellence by the directorate of technical education, Trivandrum and received academic excellence award from the university of Calicut in 2013 & in 2014.

The college has since grown by leaps and bounds establishing excellence infrastructure replete with state-of-art laboratories, digital library, smart class rooms, hostels, gyms, auditoria spread over an impeccably clear and green 25 acre campus-on way to fulfill the vision of the Catholic Arch diocese of Trichur to make it truly world class

FDP on "Performance based Work Ethic" is an initiative by PAT@JEC, Training & Development Cell. The learning process objectives of this FDP are three-fold namely.

1. Introduce Performance Management System and a culture of setting, meeting and exceeding goals
2. Provide opportunities for "Team Building" within Departments
3. Insights in to "Research & Publication", "Communication", "Latest Technology Trends" and "Teaching Learning Processes for the 21st Century Ecosystem".

Outcomes envisaged are:

1. Goals being set for each and every teaching staff for the next 6 months
2. Performance Management System Awareness
3. Team building within Department
4. Exposure to Research & Publication and there by increased publications from college
5. Enlightenment on "Latest Technology Trends", "Communication" and "Teaching Learning Processes for the 21st Century Ecosystem"

PROGRAMME SCHEDULE

13-06-16 (Monday)

- 09:30 - 10:00 IST :Inaugural Function  
Prayer  
Welcome Address :Rev. Fr. Roy Vadakkan,  
Secretary, Trichur Educational Trust and Asst.  
Manager(Academics & Administration), JECC  
Lightining the Lamp - By Chief Guest  
:MSGR. Rev. Fr. Thomas Kakkaserry  
President, Trichur Educational Trust and  
Manager, Jyothi Engineering College  
Chief Guest Address  
:MSGR.Rev.Fr. Thomas Kakkassery  
10:00 - 10:45 IST Vision and Action for Academic  
Year 2016-17  
:Dr. K.K. Babu, Principal, JECC

- 10:45 - 11:00 IST Tea Break  
11:00 - 12: 30 IST QWL - Quality of Work Life  
:Rev. Fr. Roy Vadakkan  
HR Management Practitioner, Former Asst. Director  
of Jubilee Mission Group of Institutions and Assistant  
Manager (Academics & Administration),JECC  
12:30 - 13:30 IST Lunch  
13:30 - 14:00 IST Razzmatazz  
14:00 - 16:30 IST Engineering Education - Why  
Performance Management  
System ?  
:Prof. Joshy, Director Startups  
& Placements, JECC

14-06-16 (Tuesday)

- 09:30 - 12:30 IST Role of Research and  
Publications in a Professional  
Institution  
:Dr. M. Balagopalan  
Ex MD of Coirfed, Alapuzha, Retired Scientist from  
Kerala Forest Research Institute and Head, Dept. of  
Chemistry, JECC  
12:30 - 13:30 IST Lunch  
13:30 - 14:00 IST E=MC<sup>2</sup>  
14:00 - 14:30 IST Integrating Past & Present  
about Jyothi  
:Er. Thomas Mathew  
Joint Secretary, Trichur Educational Trust, Retired Exec-  
utive Engineer, KSEB, and Administrator, JECC  
14:30 - 14:40 IST Tea/Bio Break  
14:40 - 16:30 IST All About SMART Goals  
Performance Management  
:Mr. Joshy  
Former Group Manager,  
Trainer at Infosys Leaders

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FDP Report Day one

Faculty Development Programme FDP on "Performance based work ethic" commenced on the 13<sup>th</sup> until the 17<sup>th</sup> June 2016. The main objectives of the FDP were:

1. Introduce Performance Management system and a culture of setting, meeting and exceeding goals.
2. Provide opportunities for "Team building" within departments.
3. To gain an insight into "Research and publications", "Communication", "Latest Technology Trend" and teaching learning processes for the 21<sup>st</sup> century ecosystem.

Day 1: 13-06-2016 (Monday)

The FDP commenced with an invocation prayer by Mrs. Swarthy Wilson from the CSE Department. This was followed by a welcome address by Rev. Fr. Roy Vadakkan, (Asst. Manager Academics and Administration), who emphasized on the mission and the vision of the college. He also inspired us with moments of optimism and happiness and to create value for the students which can make a huge difference in the coming academic year. Dr. K.K. Babu (Principal) reiterated the importance of the academic aims of 2016-17. He stressed the need for being self-driven and that our passion, zeal and the motivation can only lead us down the path to success. As the NBA and NAAC inspection is round the corner, he encouraged the staff to go beyond the call of duty and perform the required duties and obtain a good score in the coming inspections.

Rev. Fr. Thomas Kakkassery (President of TET) inaugurated the programme by lighting the lamp.

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*[Handwritten Signature]*

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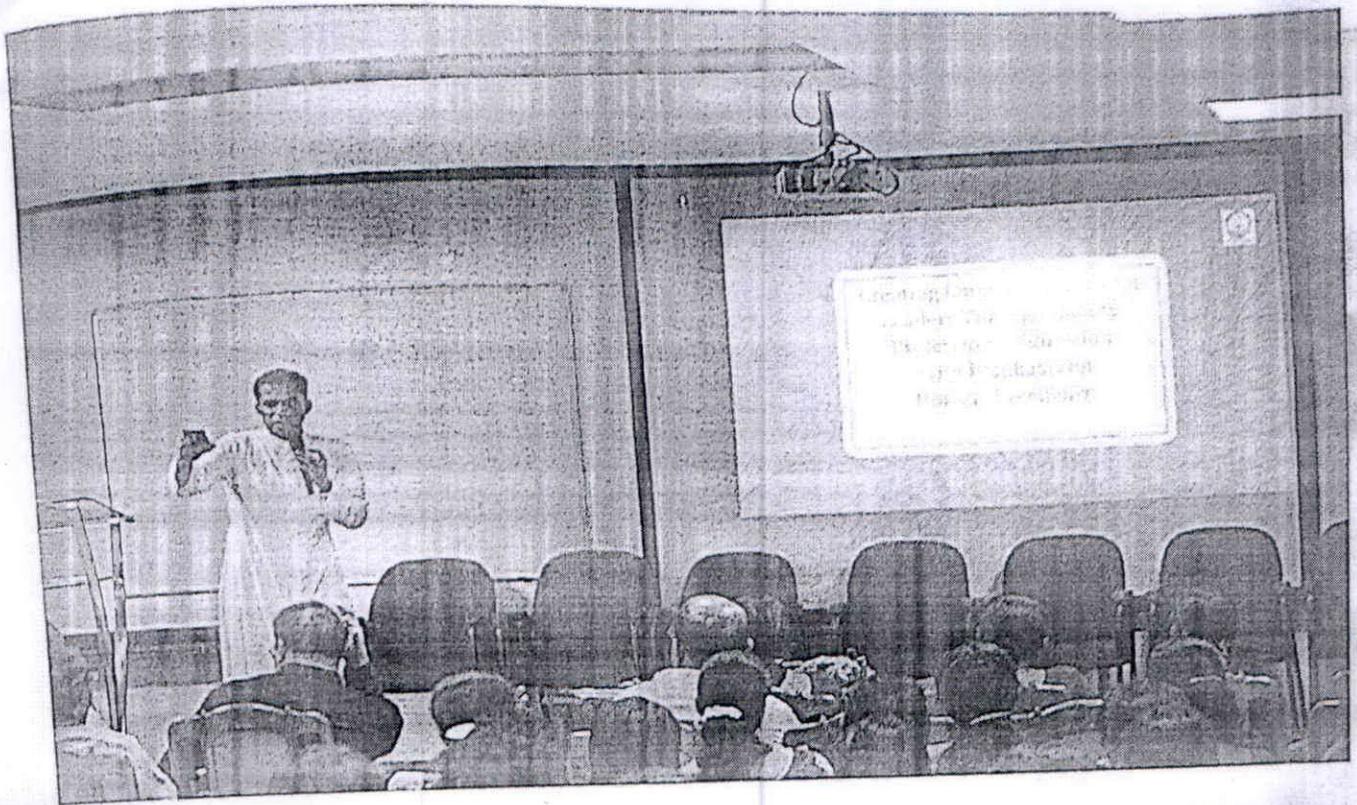
In his speech he highlighted the responsibilities and characteristics of a good mentor. Teachers played a pivotal role in shaping the nation. He said that the teacher is the yardstick for measuring the aspirations and achievements of the nation. He wished all the faculties to be the real "Jyothi" for the students and the nation at large.

Rev. Fr. Roy Vadakkan followed it up with a lively session for one hour about "Quality of work life". In his speech he revisited the mission and vision of the college and essayed the role of faculty in achieving them. He also reminded that one should enhance their personal lives through their work environment and experiences. He concluded saying that the life is a bundle of strands and that we need to learn to balance the work life with other related issues.

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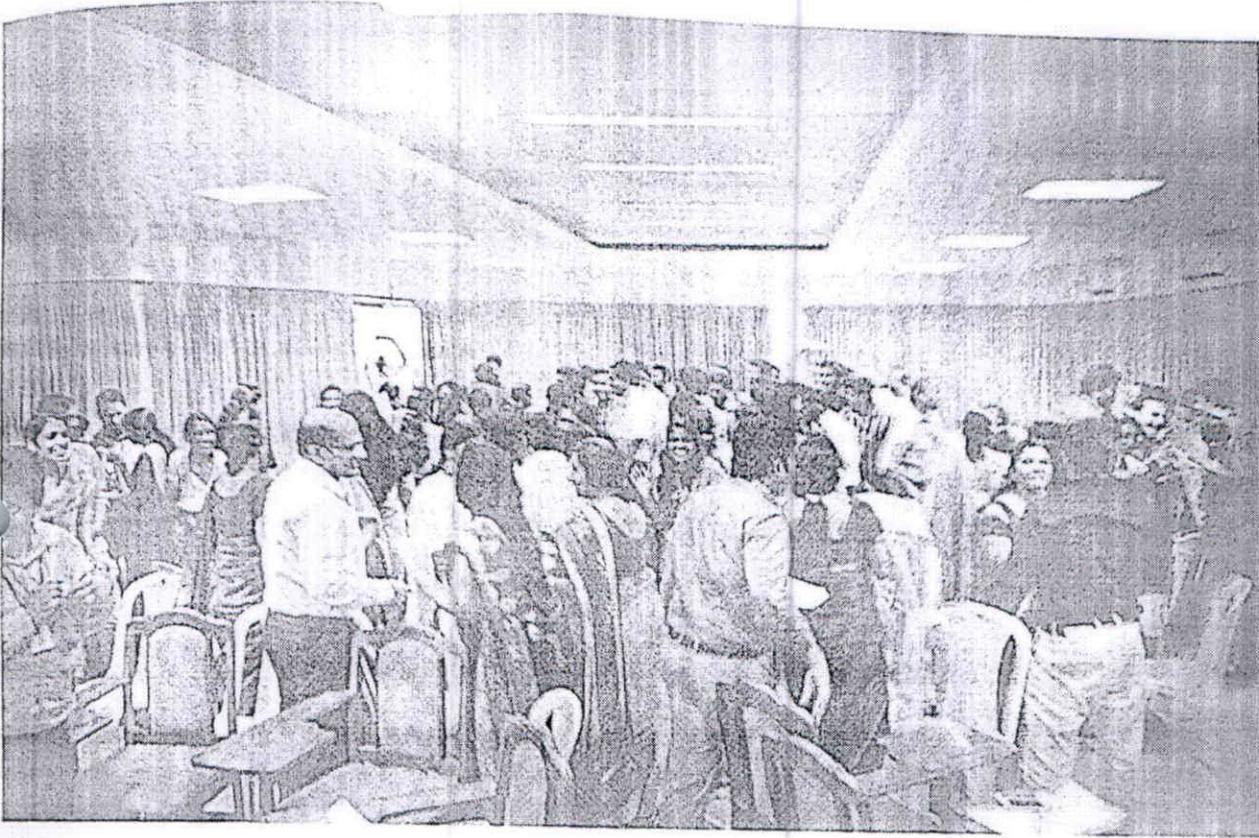
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Lunch was served in the canteen for all the faculties present. Mr. Sooraj Krishnan from the Civil Engineering department serenaded the audience with a lovely song, post lunch session. In order to encourage participation from all the faculty members, Mr. Joshy Joseph (Director for Placement and Assistance) introduced a point based competition. He explained the point system which will conclude with a trophy for the winning team at the end of the entire programme. This triggered a lot of participation and competition from the staff who were divided into groups based on their departments. In the process Mr. Joseph Joshy explained about "Performance Management System" which was deftly done in order to inspire better learning methods amongst teachers and institute a grading system in the college. He also, in his speech outlined some reasons as to why engineering colleges are in a crux and elucidated the rationale surrounding the dearth of quality in the current education system.

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With Mr. Joshy Joseph, giving a brief note on the summary of what was done during the day, the first day sessions were concluded with the Jyothi anthem.

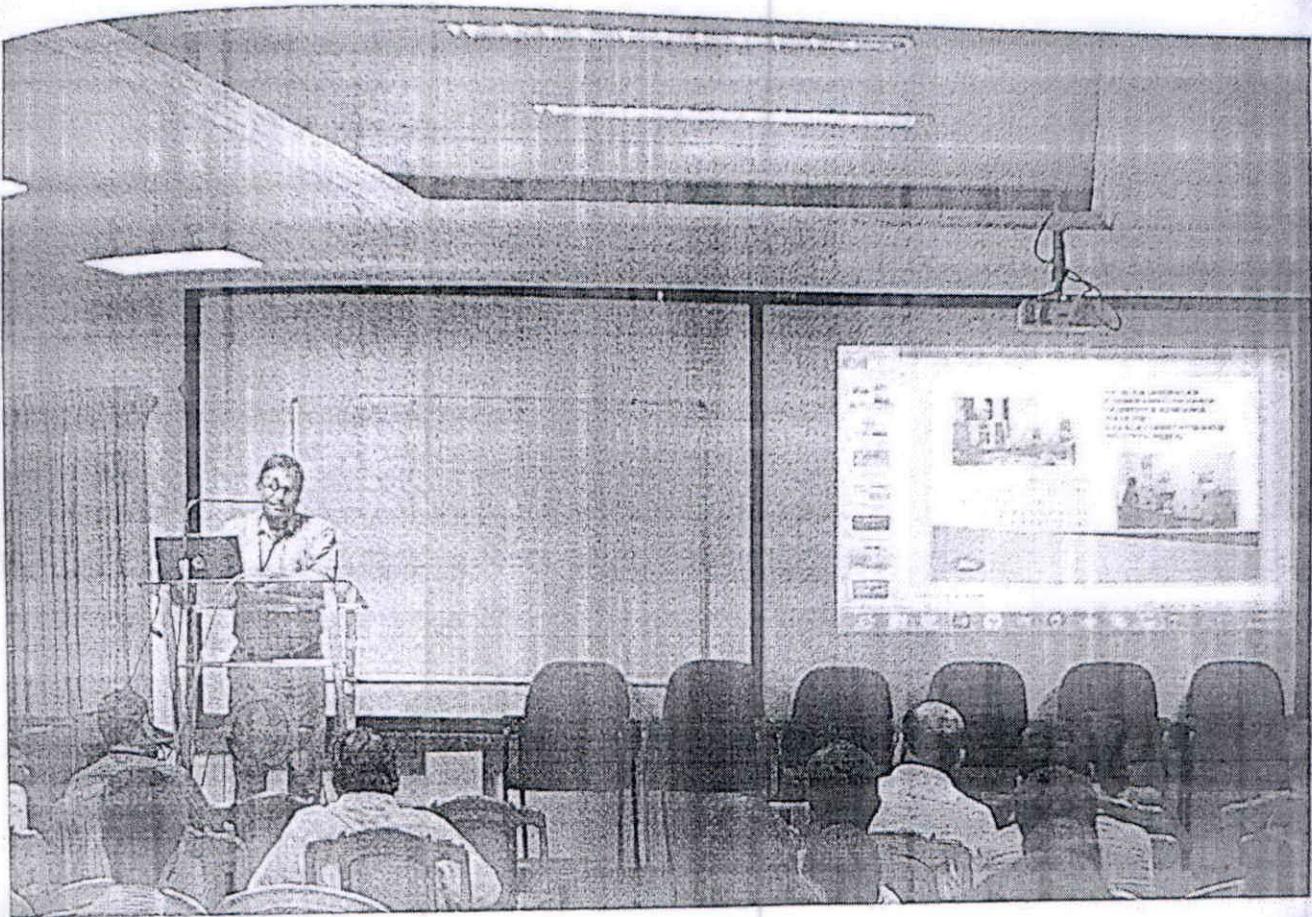
Day 2: 14-06-2016 (Tuesday)

The second day events started with a prayer followed by a three hour long session by Dr. M. Balagopalan (Ex MD of Coirfed, Alapuzha, Retired Scientist from Kerala Forest Research Institute and Head, Dept of Chemistry, JECC). He said a professional life became more complete with paper publications which have to be done on a periodic basis. Publishing papers gives you a feedback from research scholars who read your papers; it establishes you as a member of the research community and also it forces you to clarify your ideas and to fit them in the context of the current state of research in your field.

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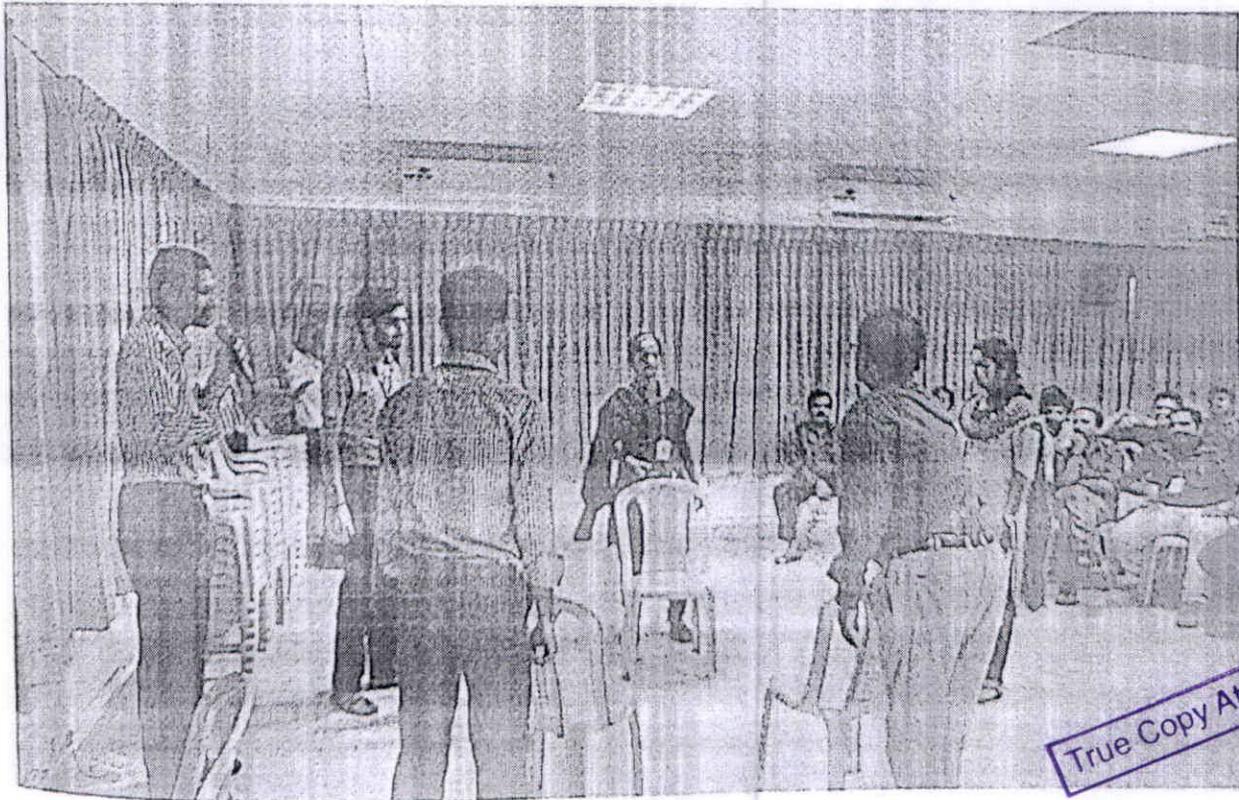
He lucidly explained the "H" index and the impact factor. Post lunch session was initiated by a melodious song by Mr. Lippin from the ME Department. Mr. Joseph Joshy engaged all the departments in a serious competition with activities unseen before. In order not to lose points for late coming after break times, the members were prompt in returning to their seats. The games were hotly contested which invariably saw a continuous seesaw among the departments' standings.

Er. Thomas Mathew (Joint Secretary, Thrissur and Educational Trust, Retired Executive Engineer, KSEB and Administrator JECC) played a vital role in shaping the history of JECC. A session by him "Integrating Past & Present" outlining the growth and the challenges JECC faced over the years, refreshed our memories. When it was time to move to the final session Mr. Joseph Joshy (Former Group Manager, Infosys and Corporate Guest Trainer at Infosys Leadership Institute (ILI) took over the proceedings with a talk on "SMART" goals and Performance Measures. He said SMART goals bring a structure and ability to track into our goals and objectives. Instead of vague resolutions, it creates verifiable trajectories

*Joseph Joshy*  
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towards a certain objective and its attainability. He complemented it with a few goal activities after the tea break.



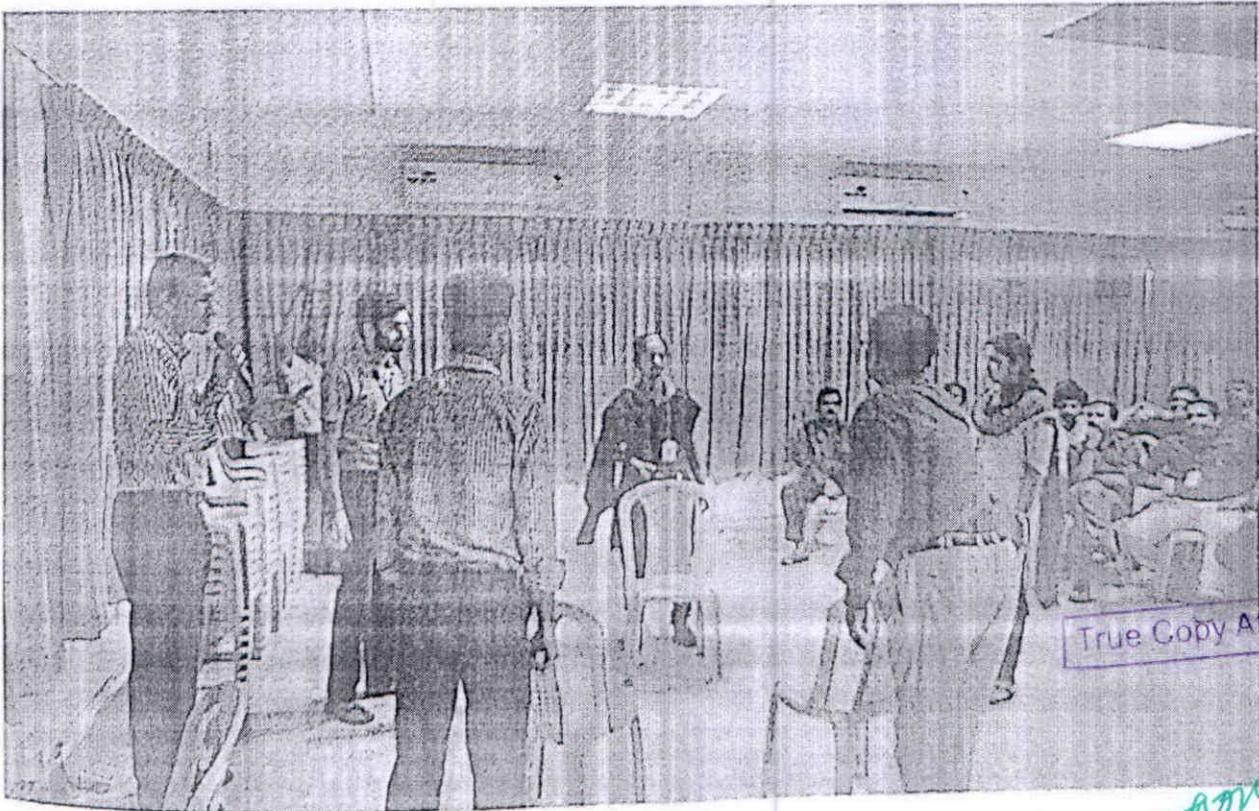
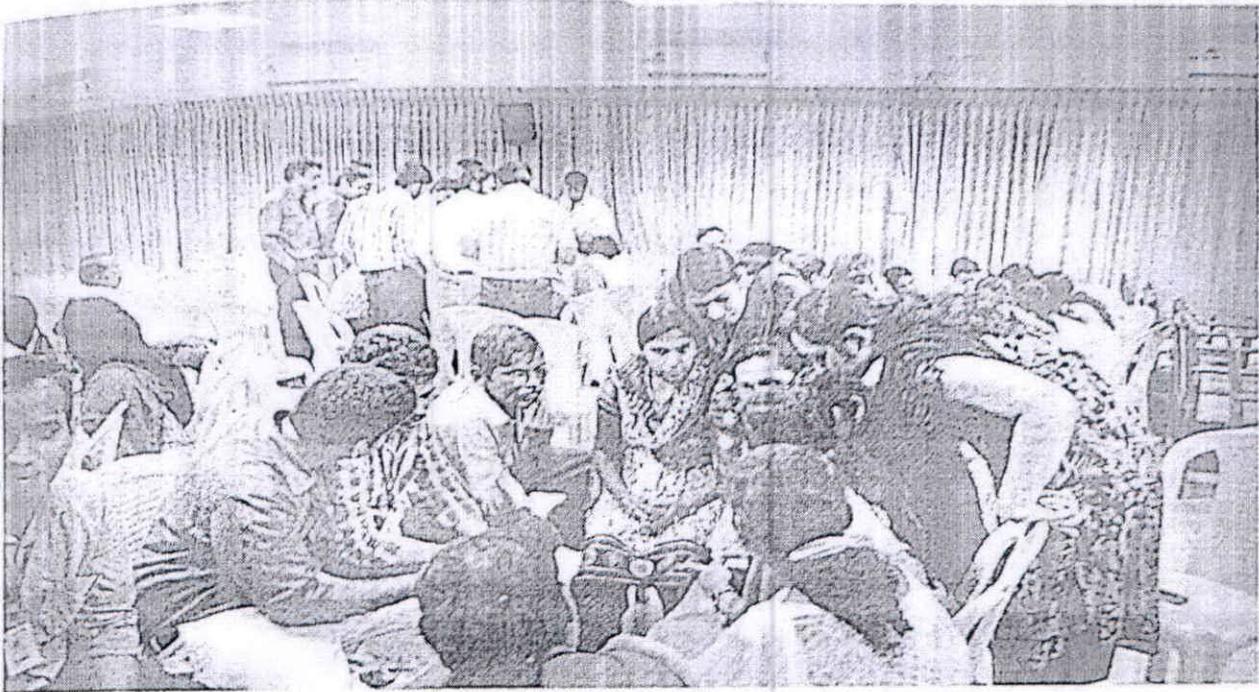
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After a brief wrap up of the day's events by Mr. Joseph Joshy the curtains were drawn for the day concluding with the Jyothi anthem.

*Sunny*

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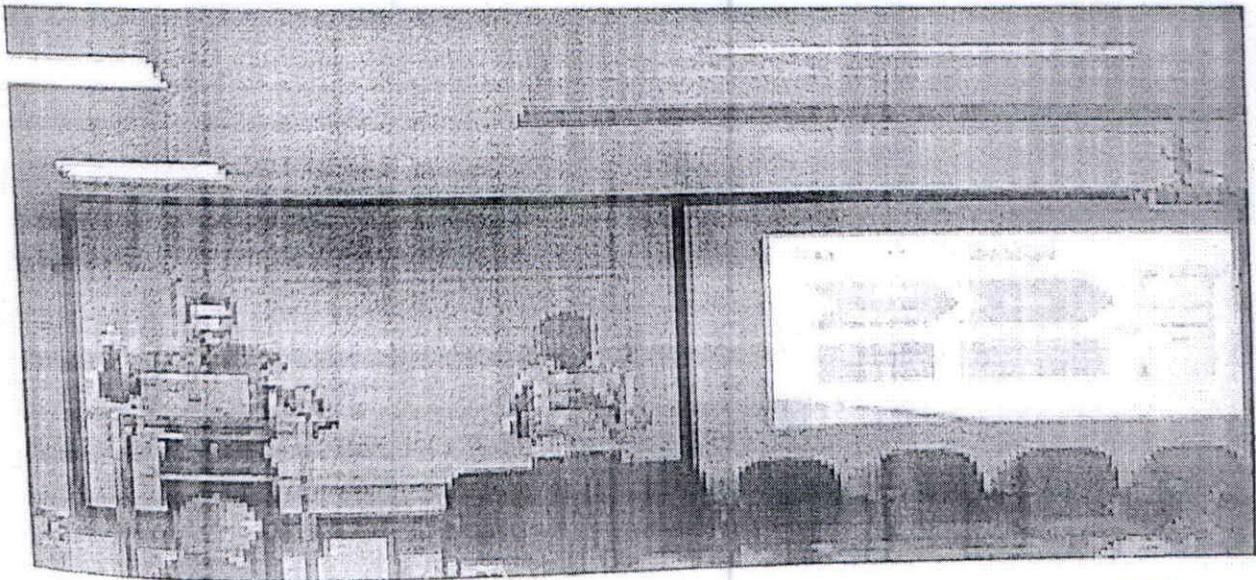
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Day 3: 15-06-2016 (Wednesday)

The third day commenced with a prayer and all the departments were divided into groups.



The groups set their objectives and a representative from each of the departments announced their objectives and goals.



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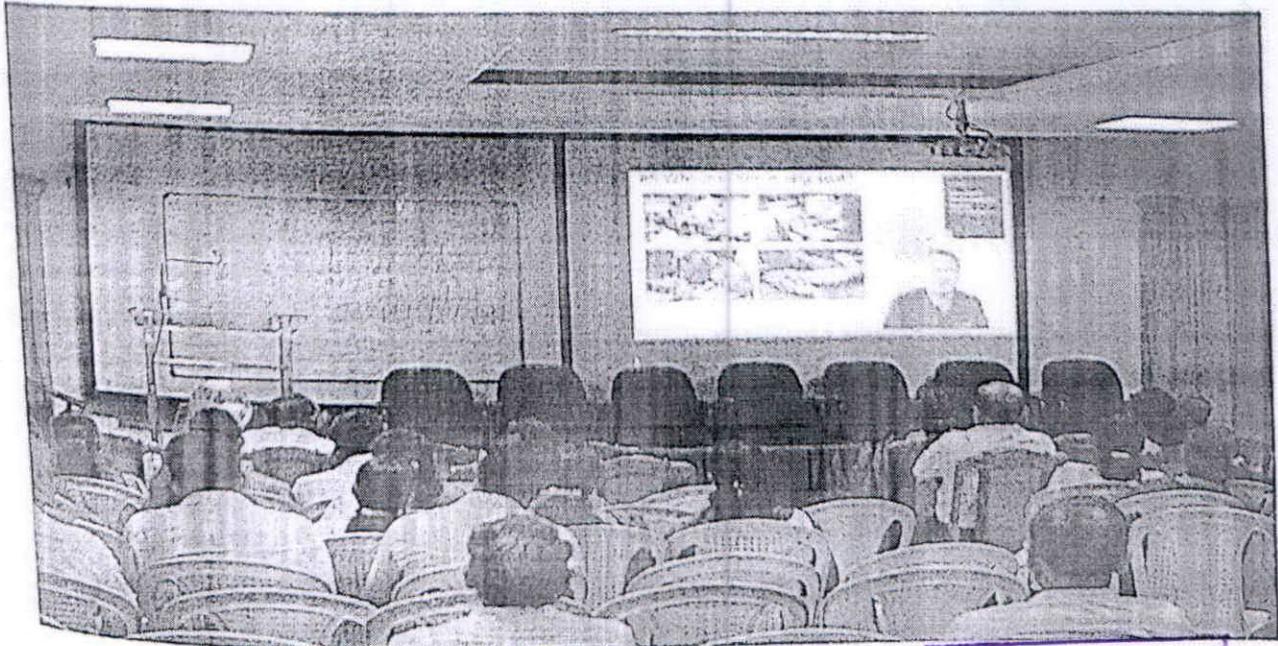
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Mr. Joseph Joshy hinted at the setting of objectives to be SMART (Specific, Measurable, Attainable, Realistic and Time Bound) the objectives and goals for the following year were also listed out by the departments in conjunction with what was advised. Mr. Joshy also said that becoming an excellent college teacher is a continuing life-long professional challenge, the results of which are certain. Senior faculty should assume a responsibility to develop additions and modifications to the best practices list and actively transmit those practices to the new faculties. After the lunch session, the HOD's of the respective departments charted out their objectives and goals in tandem with the SMART criteria. The third day concluded with the Jyothi anthem and the faculties dispersed.

Day 4: 16-06-2016 (Thursday)

Shortly after the prayer Mr. Joseph Joshy (Former Group Manager, Infosys and Corporate Trainer at Infosys Leadership Institute (ILI) spoke at length on the Twenty first Century Education System. He said it embodies an approach to teaching that combines content to skill. Without skills students are left to memorize facts.



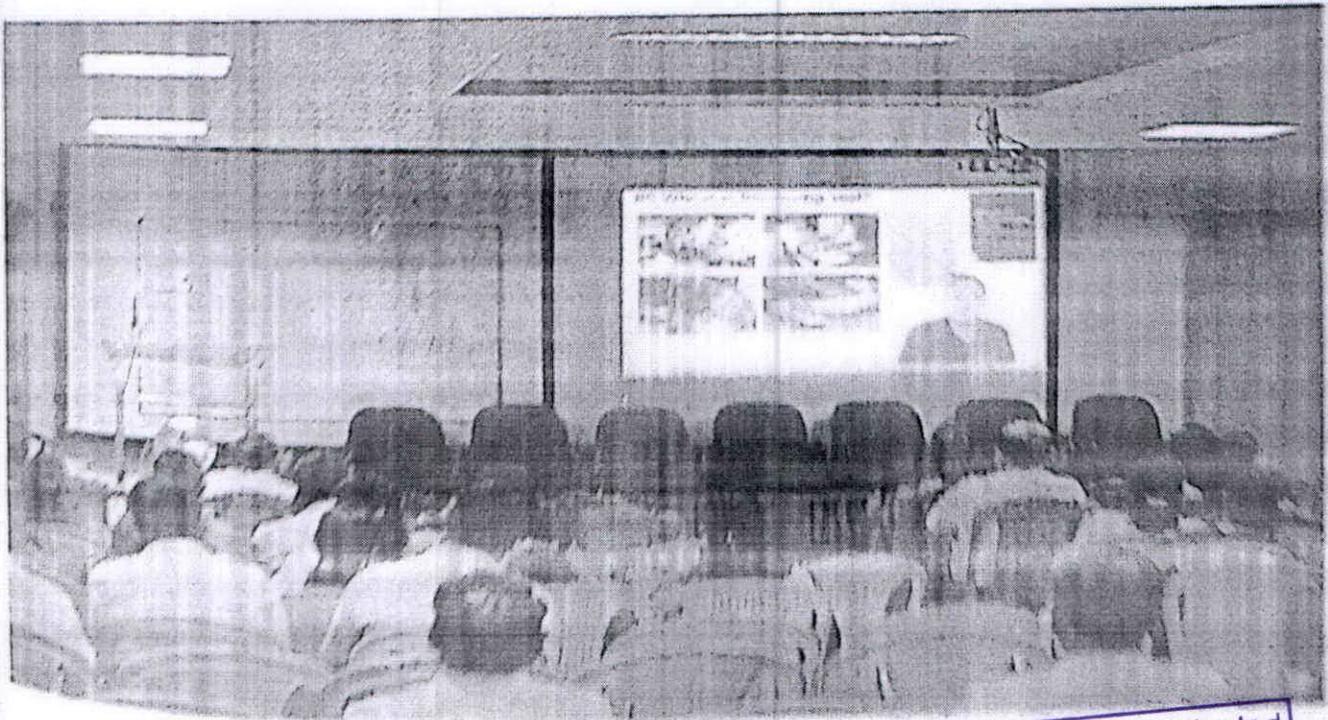
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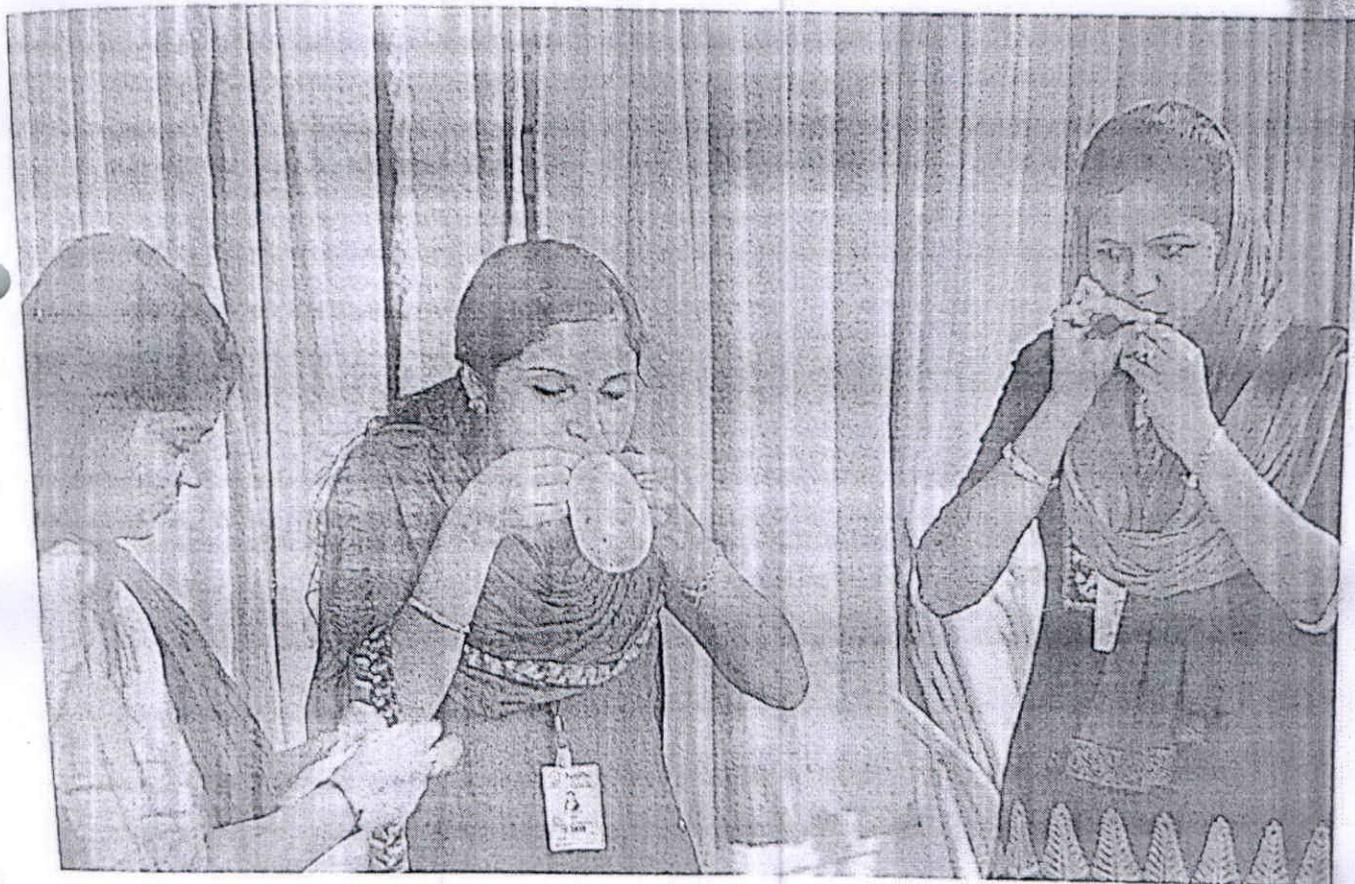


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The students need to engage in problem solving or team working experiences and that's what this new paradigm shift offers. The focus was shifted to a game which involved team building skills. All the faculties were divided into groups of ten members. They were given some building materials in the form of balloons and balls etc.



The teams were required to build a lengthy structure and whoever makes the lengthiest structure and manages to place a ball on top wins the prize. The mechanical department won with ease displaying a commendable team effort and ability.

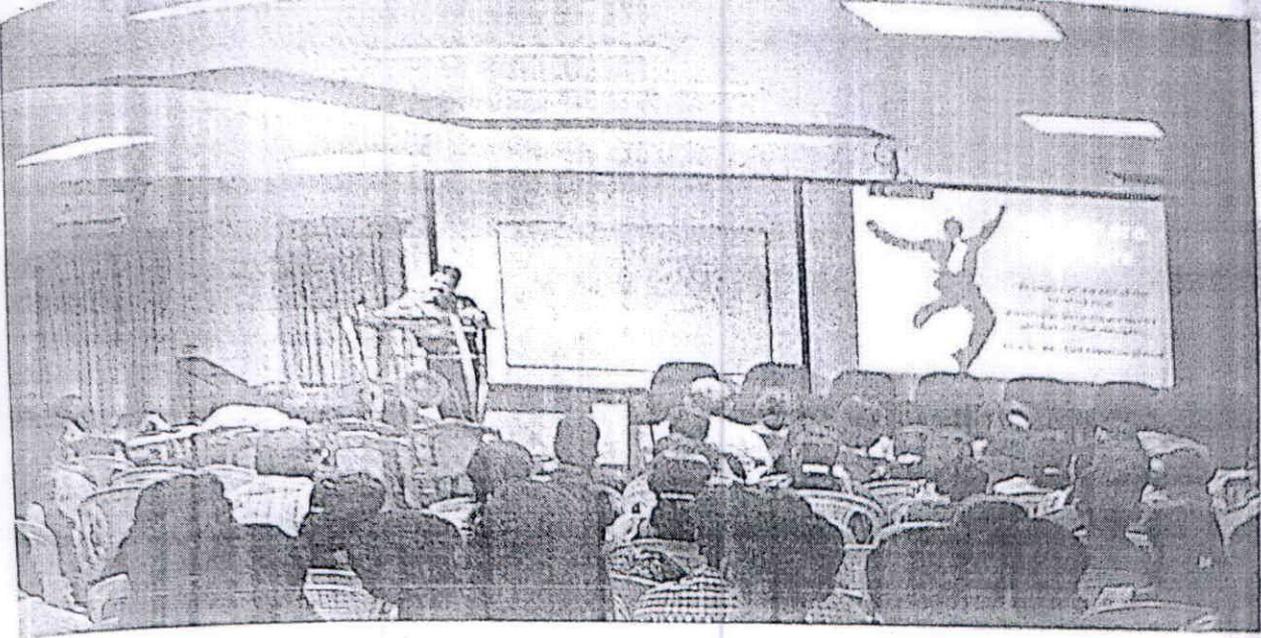
The next session was handled by Mr. Bobby Peter (Retd. Asst. Director, Technical Education Department, Govt of Kerala and Asst. Administrator, JECC).

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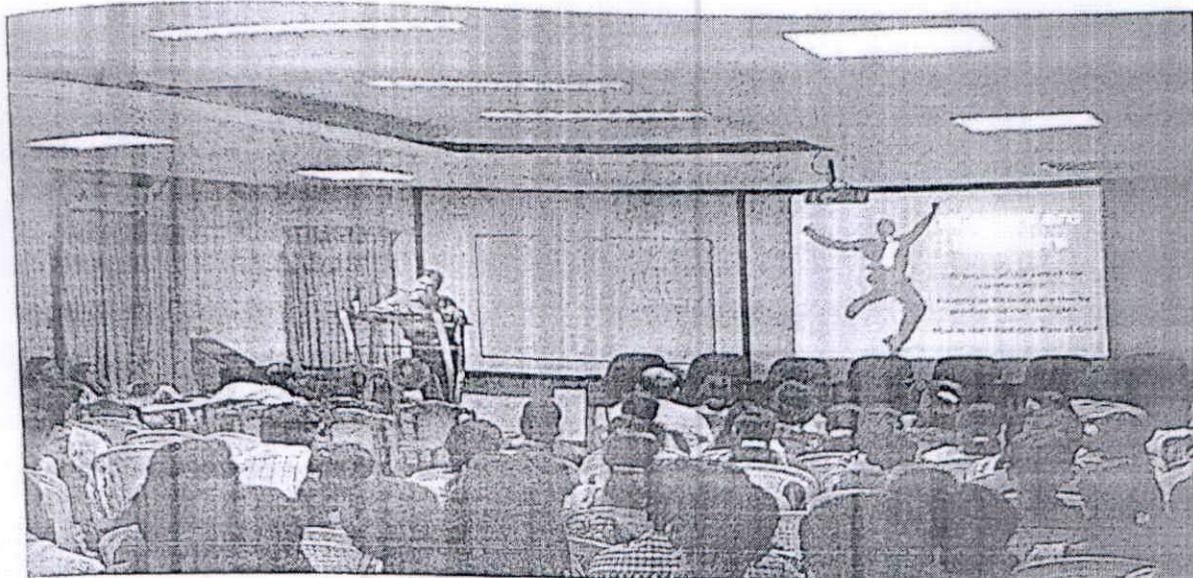


He pinpointed the scenes behind the administration aspect with hilarious instances of his experiences with JECC. His talk made many split into peals of laughter. The session immediately after post lunch was presented by Rev, Fr. John Chiriyankandath (Treasurer, Trichur Educational trust and Assistant Manager (Finance), JECC. This was followed by a session with Rev. Fr. Jinto Pereppadan (Assistant Manager (Projects) JECC who gave a brief speech on the projects ahead of us in the near future. The day concluded with the Jyothi anthem.

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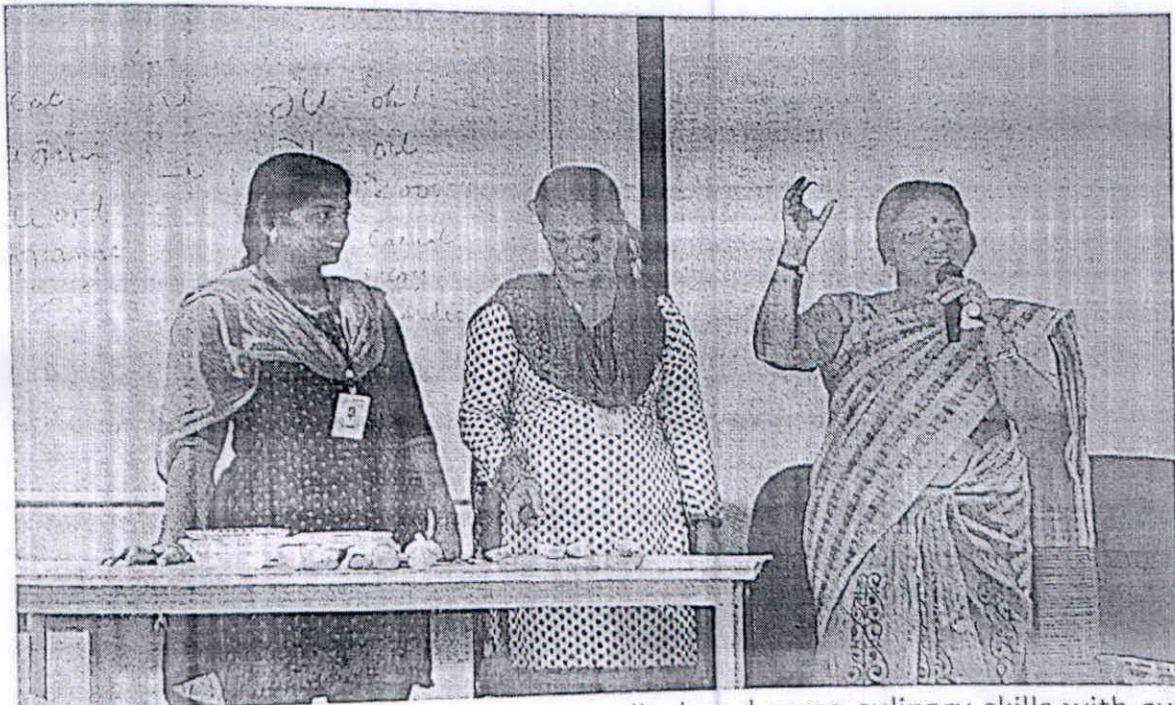
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Day 5 17-06-2016 (Friday)

After the customary prayer, the day started with a note on the importance of communication by Mr. Joseph Joshy. Proper communication is the key to good relationship. This was elucidated by Dr. Usha Menon (Social Upliftment and Environment Preservation Practitioner, Head, Dept of English, JECC) through "Beginning of simple and harmonic communication". She explained the processes of an effective communication explaining briefly the grammar sections quite lucidly.



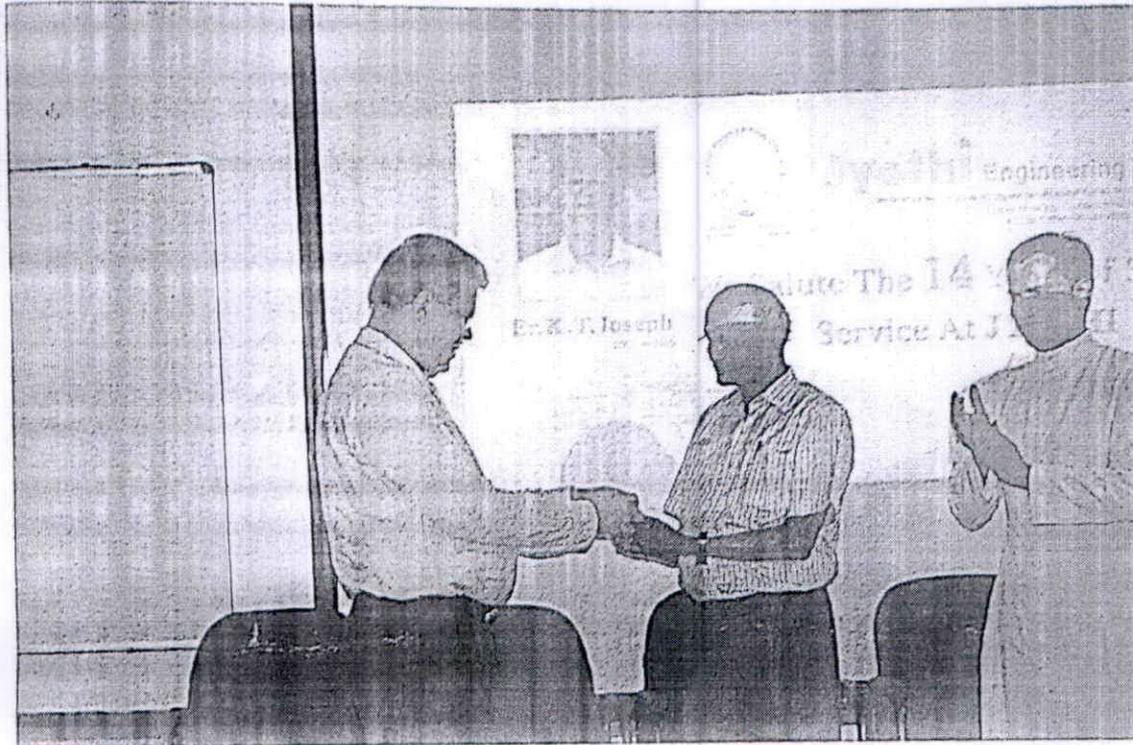
The Basic Science & Humanities group displayed some culinary skills with cutting and cooking methods to which the audiences were in awe. The fitting finale of the session was a mouthwatering snack and a dessert made by the faculties themselves. The rest of the faculties were taken by surprise and were in for a lip smacking treat.

The post lunch session was organized paying a special tribute to Mr. K.T. Joseph, who served more than fourteen years with JECC as the project engineer. He gave

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a memorable speech and was felicitated with a gift by the Principal, Administrator, Asst. Administrator and all the Assistant managers.



The concluding session began with the Valedictory function, an FDP visual summarization. Video clips from all the days gave us an opportunity to reminisce the last few days and brought many a smile on the face of the audience. The filled in feedback forms were collected by the PAT department. Asst. Administrator Mr. Bobby Peter delivered the vote of thanks.

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The valedictory function was concluded by words from the Principal and the Editor. The grand finale for the entire week came to a salutary end with the national anthem.

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Attendance Sheet (13-06-2016)

Sl. No.	Name	Designation	Signature	
			FN	AN
<b>CIVIL ENGINEERING</b>				
1	Prof. S. Rathish	Professor & HOD		
2	Dr. Anitha Jacob	Associate Prof.	<i>[Signature]</i>	<i>[Signature]</i>
3	M.G. Cyriac	Associate Prof.	<i>[Signature]</i>	<i>[Signature]</i>
4	Neeraja P.G	Asst. Professor	<i>[Signature]</i>	<i>[Signature]</i>
5	Anju M.J	Asst. Professor	<i>[Signature]</i>	<i>[Signature]</i>
6	Jisha Akkara	Asst. Professor	<i>[Signature]</i>	<i>[Signature]</i>
7	Sinu C.G	Asst. Professor	<i>[Signature]</i>	<i>[Signature]</i>
8	Nisni M. Asharaf	Asst. Professor	<i>[Signature]</i>	<i>[Signature]</i>
9	Nikhila A.P.	Asst. Professor	<i>[Signature]</i>	<i>[Signature]</i>
10	Rachana R	Asst. Professor	<i>[Signature]</i>	<i>[Signature]</i>
11	Sooraj Krishnan	Asst. Professor	<i>[Signature]</i>	<i>[Signature]</i>
12	Anu Theresa K.R	Asst. Professor	<i>[Signature]</i>	<i>[Signature]</i>
13	Joyal Scaria	Asst. Professor	<i>[Signature]</i>	<i>[Signature]</i>
<b>COMPUTER SCIENCE &amp; ENGINEERING</b>				
14	Prof. M.T. Rajappan Pillai	Professor & HOD	<i>[Signature]</i>	<i>[Signature]</i>
15	Dr. Mohamed Abdul Wajeed	Professor		
16	Ig. Iatius S.A. Bezzam	Professor		
17	Thomas George K	Asst. Professor		
18	Aswathy Wilson	Asst. Professor	<i>[Signature]</i>	<i>[Signature]</i>
19	Anil Antony	Asst. Professor	<i>[Signature]</i>	<i>[Signature]</i>
20	Jyothis T.S	Asst. Professor	<i>[Signature]</i>	<i>[Signature]</i>
21	Seenia Francis	Asst. Professor	<i>[Signature]</i>	<i>[Signature]</i>
22	Namilha T.N	Asst. Professor	<i>[Signature]</i>	<i>[Signature]</i>
23	Swapna B. Sasi	Asst. Professor	<i>[Signature]</i>	<i>[Signature]</i>
24	Shaiju Paul	Asst. Professor	<i>[Signature]</i>	<i>[Signature]</i>
25	Fousiya K.K	Asst. Professor	<i>[Signature]</i>	<i>[Signature]</i>
26	Bineesh M	Asst. Professor	<i>[Signature]</i>	<i>[Signature]</i>
27	Aneesh Chandran	Asst. Professor	<i>[Signature]</i>	<i>[Signature]</i>
28	Divya M Menon	Asst. Professor	<i>[Signature]</i>	<i>[Signature]</i>
29	Sobha Xavier P.	Asst. Professor	<i>[Signature]</i>	<i>[Signature]</i>
30	Majo John	Asst. Professor	<i>[Signature]</i>	<i>[Signature]</i>
31	Diana Davis	Asst. Professor	<i>[Signature]</i>	<i>[Signature]</i>
32	Jisna V.A	Asst. Professor	<i>[Signature]</i>	<i>[Signature]</i>
33	John Paul Martin	Asst. Professor	<i>[Signature]</i>	<i>[Signature]</i>
34	Reshma K.V.	Asst. Professor	<i>[Signature]</i>	<i>[Signature]</i>
35	Prof. Joseph Joshy C.J	Placement and Training & CSE		
36	Dany Varghese	Asst. Professor		
37	Ninu Francis	Asst. Professor	<i>[Signature]</i>	<i>[Signature]</i>
38	Dayana Benny	Asst. Professor		
39	Vinod K	Asst. Professor		
40	Akhila B Nair	Asst. Professor		

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Sl. No.	Name	Designation	Signature	
			FN	AN
<b>ELECTRONICS &amp; COMMUNICATION ENGINEERING</b>				
41	Dr. Jose P Therattil	Professor & HOD		
42	Sindhu S	Asst. Professor		
43	Shiny M.I.	Asst. Professor		
44	Dipin Krishnan R.	Asst. Professor		
45	Jinesh K.J.	Asst. Professor		
46	Abraham P.A	Asst. Professor		
47	Abin Johns Raju	Asst. Professor		
48	Bindu K Rajan	Asst. Professor		
49	Nisha Mary P	Asst. Professor		
50	Anjitha V	Asst. Professor		
51	Alice K. Paul	Asst. Professor		
52	Drisy M.K.	Asst. Professor		
53	Ambily Francis	Asst. Professor		
54	Asna John	Asst. Professor		
55	Rijo P.C	Asst. Professor		
56	Nyni K.A	Asst. Professor		
57	Ponmani Raja	Asst. Professor		
58	Roshni Rajan	Asst. Professor		
59	Neethu Rose Thomas	Asst. Professor		
60	Rinu Jose	Asst. Professor		
<b>ELECTRICAL &amp; ELECTRONICS ENGINEERING</b>				
61	Ratnan P.	Professor & HOD		
62	Shijoh	Asst. Professor		
63	Anu Sunny	Asst. Professor		
64	Reshma Raj	Asst. Professor		
65	Jenson Jose	Asst. Professor		
66	Della David	Asst. Professor		
67	Kapil Das K.S	Asst. Professor		
68	Soumya C	Asst. Professor		
69	Saritha P	Asst. Professor		
70	Aswathy Rajan	Asst. Professor		
71	Aathira K.V	Asst. Professor		
72	Renjini G	Asst. Professor		
73	Sreethumol M.V	Asst. Professor		
74	Akhil A Balakrishnan	Asst. Professor		

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 Cheruthuruthy P.O. - 679 531

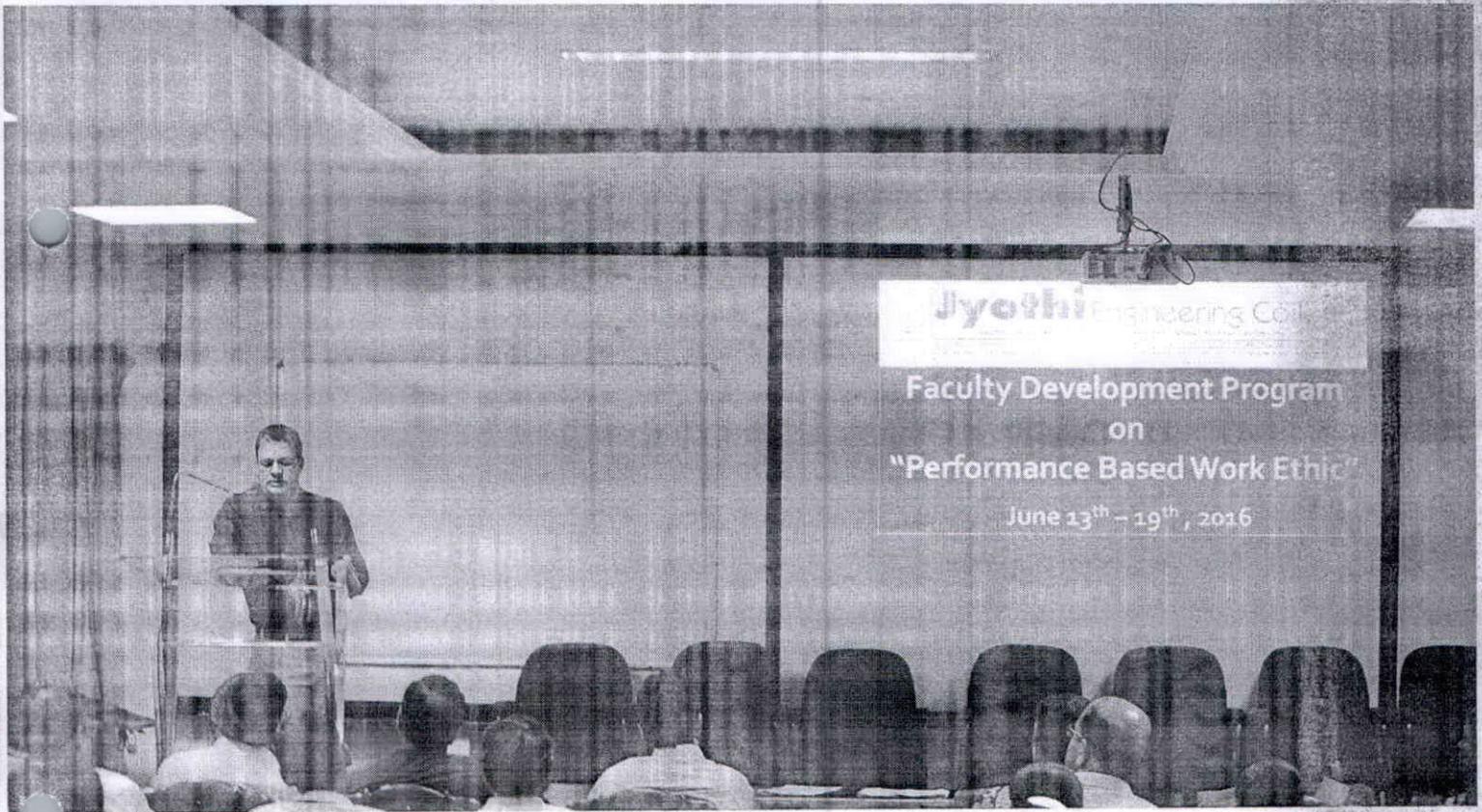
Sl. No.	Name	Designation	Signature	
			FN	AN
<b>MECHANICAL ENGINEERING</b>				
75	Prof. K.C. John	Professor & HOD		
76	Prof. Varghese Job K.	Professor		
77	Biju C.V	Associate Prof.		
78	Manoj Kumar V.K	Asst. Professor		
79	Praveen Raj	Asst. Professor		
80	Christy V. Vazhappilly	Asst. Professor		
81	Melvin Raj C.R.	Asst. Professor		
82	Nikhil N.S	Asst. Professor		
83	Suneeth Sukumaran	Asst. Professor		
84	Sreejith K	Asst. Professor		
85	O.P.Sukesh	Asst. Professor		
86	Hareesh N.V	Asst. Professor		
87	Nisha Sherief	Asst. Professor		
88	Nice Menachery	Asst. Professor		
89	Tony Kottoor	Asst. Professor		
90	Sheik Afthab S	Asst. Professor		
91	Cijil B John	Asst. Professor		
92	Sajith U.K	Asst. Professor		
93	Arun Raj A	Asst. Professor		
94	T.R. Sree Sastha Ram	Asst. Professor		
95	Jithin K Kuriakose	Asst. Professor		
96	Raghavan K	Diploma, B.Sc. (Engg.)		
97	Lippin Pauly	Asst. Professor		
98	Anto Zacharias	Asst. Professor		
99	Sreejith A	Asst. Professor		
100	Dr. Gibin George	Asst. Professor		
<b>SCIENCE, HUMANITIES AND BASIC ENGINEERING</b>				
101	Prof. Fr. George Plassery	Professor		
102	Priya Jose	Asst. Professor		
103	Dr. M. Balagopalan	Professor		
104	Jasmine Jose	Asst. Professor		
105	Prof. Fr. John Tharayil	Professor		
106	Minu Jose	Asst. Professor		
107	Smija Skaria	Asst. Professor		
108	Sivakumar K.S.	Asst. Professor		
109	Renju Francis	Asst. Professor		
110	Nivya Wilson	Asst. Professor		
111	Rich K.J	Asst. Professor		
112	Viji E.P.	Asst. Professor		
113	Dr. Baby C.B	Professor		
114	Dr. Usha Menon	Professor		
115	John V.J	Lecturer, Physical Education		

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Dr. Adarsh N. Cokul Librarian

Dr. SUNNY JOSEPH KALAYATHAN

M.Tech, MCA, M.Sc, M.Phil, B.Ed  
Ph.D (Computer Science), Ph.D (Mat)



FDP on Performance based work ethic  
13-6-2016 to 19-6-2016

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## DECLARATION

The information furnished above is true to the best of my knowledge. I agree to abide by the rules and regulations governing the course. If selected, I shall attend the course for the entire duration. I also undertake the responsibility to inform the coordinator sufficiently in advance, in case I am unable to attend the course.

Name: \_\_\_\_\_  
Date: \_\_\_\_\_ Signature of the Applicant

## RECOMMENDATION BY THE HEAD OF THE INSTITUTION

Mr./Ms./Mrs./Dr. \_\_\_\_\_ is an employee of this institution. He/she will be permitted to attend the training programme, if selected.

Name: \_\_\_\_\_ Signature (Head of Institution)

**True Copy Attested**

SEAL

This application form should reach the address given below, latest by August 20, 2016.

## Address for Correspondence

Dr. Anitha Jacob  
Associate Professor in Civil Engineering  
Jyothi Engineering College, Cheruthuruthy  
Jyothi Hills, Panjal Road,  
Kettikattiri P.O., Cheruthuruthy - 679531  
anithajacob@jecc.ac.in;  
047092923, 8157063257

*Emmy*  
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PRINCIPAL

Jyothi Engineering College  
Cheruthuruthy P.O. 679 531

## ABOUT THE COLLEGE

Jyothi Engineering College, Cheruthuruthy under Thrissur Educational Trust founded by the Catholic Archdiocese of Thrissur, started functioning at Cheruthuruthy in the year 2002. 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 Engineering College has emerged as a model among the self financing college in Kerala. The College is located on the Thrissur - Shoranur Highway at Jyothi Hill, nearly 5 km away from Shoranur railway station and 30 km from Thrissur city. The college is affiliated to the Dr. APJ Abulkalam Kerala Technological University and offers B.Tech. degree courses in Civil, Mechanical, Electronics & Communication, Computer Science and Electrical & Electronics Engineering. It also offers M.Tech courses in Power Electronics and Computer Science & Engineering.

**CHAIRMAN:**  
H.G. MAR ANDREWS THAZATH

**MANAGER:**  
MSGR. THOMAS KAKKASSERY

## ABOUT THE DEPARTMENT

Department of Civil Engineering has been established in 2012. Department offers B.Tech programme in Civil Engineering and is approved by AICTE with an annual intake of 60 students. Department is equipped with full fledged Laboratories, a Department Library and Seminar Hall. Department organizes regular training programmes for better employability and personality development of students.

## ABOUT THE TRAINING

The field of surveying has seamless advancement with the help of innovative techniques and equipment. The objective of this three day training program is to enhance the capability of surveyors, practicing engineers and teachers by providing hands-on training on one of the most accepted surveying instruments namely, Total Station. The program is designed to include topics in the KTU syllabus.



**Jyothi Engineering College**  
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JYOTHI HILLS, KETTIKATTIRI P.O., CHERUTHURUTHY, THRASSUR PIN-679531 PH: 0471-4884-201000, 274432 FAX: 0471-4884-201000  
www.jecc.ac.in | E-mail: info@jecc.ac.in

## Training on

# Total Station Survey Theory & Practice

September 6 - 8, 2016

**Co-ordinators**  
Dr. Anitha Jacob  
Mr. Joyal Scaria

**Technical Support:**  
Ms. Jimsy Sunil  
Ms. Reshma K C

**Advisory Committee**  
Rev. Fr. Roy Joseph Vadakken  
Asst. Manager (Academics & Administration)  
Dr. K. K. Babu, Principal  
Prof. S. Rathish, HOD Civil

## DEPARTMENT OF CIVIL ENGINEERING

Jointly with  
**LAWRENCE & MAYO (India) Pvt. Ltd.**  
(Suppliers of PENTAX Total Station)



# Jyothi Engineering College

Approved by AICTE & Affiliated to APJ Abdul Kalam Technological University  
ALL ENTRIES OF EXCELLENCE IN ENGINEERING BY THE CENTRE FOR PROMOTION OF TQM  
www.jecce.ac.in | E-mail: info@jecce.ac.in

## Training on Total Station Survey Theory & Practice

September 6 – 8, 2016

### Application Form

Name: .....

Designation: .....

Department: .....

Organization: .....

Qualification: .....

Address: .....

.....

.....

E-mail: .....

Phone no.: .....

Experience (Yrs): Teaching: ..... Industry: .....

The information given above is true to the best of my knowledge and belief. If selected, I will attend the course for the entire duration.

Date: ..... Signature of applicant

### COURSE CONTENT

The course is organised with expert lectures and intense hands-on sessions on data collection, data transfer and data exploration using softwares like AutoCAD. Following aspects will be dealt in detail

- Total Station – An Overview
- Distance measurement – Horizontal, Vertical and Slope
- Angle measurement
- Area and Volume calculations
- Traversing,
- Contouring,
- Curve setting,
- Free station,
- GPS survey

### RESOURCE PERSONS

The various sessions of the training programme will be handled by eminent professors from the premier institutions like NIT, experts from Lawrence & Mayo and faculty from host institution.

### ELIGIBILITY

Faculty members (Teaching / Non Teaching) of Engineering Colleges and Technical Institutions, practicing engineers and surveyors having prior knowledge about basics of surveying are eligible to apply for the course.

### REGISTRATION

Candidates should complete the registration form, and send it to the Conveners as early as possible. The filled-in registration form should reach the office latest by August 20, 2016.

A scanned copy of the registration form may be e-mailed to the coordinator as an advance copy.

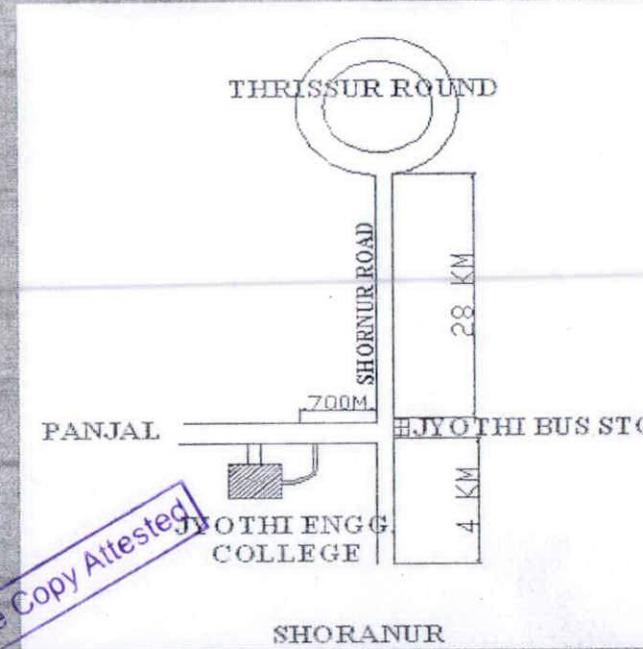
A maximum of 15 participants will be selected for the programme. Registration will be done on 'first come first served' basis. The selection of the participants will be communicated by e-mail/SMS immediately after the receipt of the registration form. All short-listed candidates are required to confirm their participation to the convener through e-mail.

### REGISTRATION FEE:

- Members from Academic Institutions (Teaching) - Rs. 100
- (Non-Teaching) - Rs. 50
- Members from Government departments/Industries/ Practicing engineers/ Surveyors - Rs. 200

The fee can be remitted at the time of registration. Registration fee will include tea & snacks, lunch and course material. Traveling, accommodation and other expenses will have to be borne by the participants.

### ROUTE MAP TO JYOTHI



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*Sunny*  
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 www.jecce.ac.in

M.P.

11

DEPARTMENT OF CIVIL ENGINEERING 2016-2017  
TOTAL STATION SURVEY – THEORY AND PRACTICE

Department of Civil Engineering jointly organized a Three day training program on "Total Station Survey – Theory and Practice" with Lawrence and Mayo (India) Pvt. Ltd. during September 6 to 8, 2016. The program was inaugurated on 6<sup>th</sup> September 2016 by Rev. Fr. Roy Joseph Vadakken, Asst. Manager (Academics and Administration) in the function presided over by the Principal Dr. K. K. Babu. Head of the Department, Prof. S. Rathish delivered the welcomed the gathering and Er. Thomas Mathew, Administrator felicitated the function.

Dr. Anitha Jacob and Mr. Joyal Scaria coordinated the program and Ms. Jimsy Sunil and Ms. Reshma K. C. extended the Technical Support. The program covered various theoretical aspects of Total Station Survey. Ms. Jisha Akkara gave an overview of the Development of Surveying. Ms. Anitha Jacob introduced the theory behind the Total Station Survey. Dr. George K Varghese of NIT Calicut explained various case studies and shared his practical experience with the participants. Dr. Anjaneyulu M V L R took a session on Advanced Surveying Using GPS.

A lot of hands on sessions were included which covered the operational procedures of survey. Participants could do road traverse, prepare building plan, compute the area and volume, free stationing, stake out points, measure remote elevation and distance. Experts from Lawrence and Mayo – Mr. Pramod C., Mr. Ramesh K. and Mr. Mohith Jose were leading the practical sessions. A field exposure to Differential GPS survey was also could be organized which added value to the program. Feedback of each session was collected and analysed. The participants gave high rating for the program and requested continuous support in future. The training ended with a valedictory function.



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Jyothi Engineering College  
Cheruthuruthy P.O. - 679 531



# Jyothi Engineering College

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 JYOTHI ENGINEERING COLLEGE  
 JYOTHI HILLS, VETTINAKKUR, P.O. CHERUTHURUTHY, THIRUSSUR, PIN 679611 PH: +91 4884 257003 274423 FAX: 4884 274777

## DEPARTMENT OF CIVIL ENGINEERING

Training on  
 Total Station Survey - Theory & Practice  
 September 6 - 8, 2016

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### Attendance Form

Sl. No.	Name of Participant	Designation	Name of Organization	6/09/2016		7/09/2016		8/09/2016	
				FN	AN	FN	AN	FN	AN
✓ 1	Jijo George	PROJECT COMMISSIONER	KRWSA - JALANIDHI	<i>Jijo</i>	<i>Jijo</i>	<i>Jijo</i>	<i>Jijo</i>	<i>Jijo</i>	<i>Jijo</i>
✓ 2	MISHUN MICHAEL R.	PROJECT FELLOW	JYOTHI ENGINEERING COLLEGE	<i>Mishun</i>	<i>Mishun</i>	<i>Mishun</i>	<i>Mishun</i>	<i>Mishun</i>	<i>Mishun</i>
✓ 3	Jithesh P.G	Project Commissioner	KRWSA - JALANIDHI	<i>Jithesh</i>	<i>Jithesh</i>	<i>Jithesh</i>	<i>Jithesh</i>	<i>Jithesh</i>	<i>Jithesh</i>
✓ 4	RAHUL K.R	PROJECT COMMISSIONER	KRWSA - JALANIDHI	<i>Rahul</i>	<i>Rahul</i>	<i>Rahul</i>	<i>Rahul</i>	<i>Rahul</i>	<i>Rahul</i>
✓ 5	ABIN DAVIS	PROJECT COMMISSIONER	KRWSA - JALANIDHI	<i>Abin</i>	<i>Abin</i>	<i>Abin</i>	<i>Abin</i>	<i>Abin</i>	<i>Abin</i>
✓ 6	FRANCIS K I	LAB. INST. GR: II	FISAT - ANJAMALI	<i>Francis</i>	<i>Francis</i>	<i>Francis</i>	<i>Francis</i>	<i>Francis</i>	<i>Francis</i>
✓ 7	PAULY P.K	Trade Instruktor	FISAT "	<i>Pauly</i>	<i>Pauly</i>	<i>Pauly</i>	<i>Pauly</i>	<i>Pauly</i>	<i>Pauly</i>
✓ 8	M.A. ANUB	Project Commissioner	KRWSA	<i>Anub</i>	<i>Anub</i>	<i>Anub</i>	<i>Anub</i>	<i>Anub</i>	<i>Anub</i>
✓ 9	AJITH KRISHNA	PROJ. COMMISSIONER	- JALANIDHI	<i>Ajith</i>	<i>Ajith</i>	<i>Ajith</i>	<i>Ajith</i>	-	-
✓ 10	Sreeradh SP	Project Commissioner	Jyothi	<i>Sreeradh</i>	<i>Sreeradh</i>	<i>Sreeradh</i>	<i>Sreeradh</i>	<i>Sreeradh</i>	<i>Sreeradh</i>

Dr. JOSEPH K. M. Tech, M.A., M.Sc.  
 Principal  
 Jyothi Engineering College  
 Cheruthuruthy P.O.

No.	Name of Participant	Designation	Name of Organization	6/09/2016		7/09/2016		8/09/2016	
				FN	AN	FN	AN	FN	AN
✓ 11	Asha.K.A	PC	KRWSA						
✓ 12	MANJU.B	PC	KRWSA						
✓ 13	AIDA ISAC P.	AP	VAST, THRISSUR						
✓ 14	Sherin George.	M.Tech	KUFOS						
✓ 15	SARANCA.M.S	Tradesman	CEC KOZHIKODE						
✓ 16	Sunisha.M.k	Tradesman	CEC. Kozhikode						
✓ 17	Sayuja kumar.T	Trade Instructor	CEC Kozhikode						
✓ 18	Ancy John P	Instructor	Nirmala Eng. College						
✓ 19	DERIN.D.DAVIS	CAD STUDENT	CADD LEADRE						

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Total station Survey Theory & Practice  
6-9-2016 to 8-9-2016

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# Jyothi Engineering College

N/AAC Accredited college with NEP Accredited programmes

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

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

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# COsa

## FDP On

# How To Write A Research Paper

10/11/2016

@ 09.15 am Venue: Insight Hall

True Copy Attested

Dr. Balagopal, Dr. C K Raju, Dr. Usha Medon  
& Dr. V P Mohan Das

*Done*  
Dr. SUNNY JOSEPH KALAYATHANKU  
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

Conducted By  
Computer Engineering Students Association & R&D Cell



## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### FDP: How to Write a Research Paper

#### Report

The Computer Engineering Students Association (CESA) and R & D Cell of Jyothi Engineering college jointly organized a one day FDP on "How to Write a Research Paper". The program was on 10/11/2016 in the Insight hall. The program included 3 sessions – Structure of the paper, Language and Plagiarism by Dr. Usha Menon, Research – a stray thoughts by Dr. V P Mohandas and Intellectual Property rights by Dr. C K Raju. There were 62 participants ( 31 PG students and 31 Faculty members). The participants got an idea about the selection of research area, the preparation of the thesis paper and about intellectual property rights.

#### CONTRIBUTION OF COURSE OUTCOMES TOWARDS POs, PEOs AND V/M

##### Topics

1. Structure of the paper and Language and Plagiarism
2. Research – a stray thoughts
3. Intellectual Property rights

PO'S	a	b	c	d	e	f	g	h	i	j	k
1	L	H				M	H			M	
2	L	L	H			M		M		M	
3						H		H		H	

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L-Low correlation, M- Medium correlation, High correlation



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Topics	PO mapping	PEO mapping	Mapping with key components of department mission	Mapping with key components of Institute mission
1	a, b, f, g, j	I, II, III	Technical Competency, Ethical values and social consciousness, desire to excel, Innovativeness, Higher Education and Research	Excel as global standard, Global education, Career oriented learning, Ethical values and social initiatives, Technology based participation
2	a, b, c, f, h, j	I, II, III		
3	f, h, j	I, II, III		

## PO – PEO Mapping:

Programme Outcome (POs)	Programme Educational Objectives (PEOs)			Justification
	1	2	3	
a	√	√		Students will have the ability to apply knowledge of mathematics, science, and engineering, and to apply the knowledge to practice or to do research.
b	√	√		Students will have the ability to design systems for successful career in industry, and to design and conduct experiments to provide valid conclusions
c	√	√		Students will have the ability to design systems to meet the needs within realistic constraints,
d	√	√	√	Students can become a member or leader in diverse technical teams, multidisciplinary environments, and communicate effectively.
e	√	√		Students can apply knowledge to identify, formulate and solve engineering problems
f	√	√	√	Students will have a good knowledge about professional ethics which is required for successful career in industry, can understand and commit to professional ethics and responsibilities, and can communicate effectively in groups by considering human value.
g		√	√	Students can communicate effectively to work in multidisciplinary teams, to do research and entrepreneurship.
h	√	√		Knowledge of mathematics, science and engineering provides the ability to understand impact of engineering/ technology solutions

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 Engineering College  
 Thriassur - 679 531



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			societal and environmental context, and in research and entrepreneurship.
i	√	√	Students will have the ability to engage in life-long learning by involving in research
j	√	√	Knowledge of contemporary issues will help the students to stay up-to-date in the professional field.
k	√	√	Modern engineering and IT tools helps to solve engineering problems. Techniques, tools along with skills help to practice as efficient professionals.

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

KEY COMPONENTS OF MISSION STATEMENT	PEO I	PEO II	PEO III	JUSTIFICATION
Technical Competency	√	√		Ability to acquire knowledge and to apply the skills in demanding work conditions.
Leadership		√	√	Ethical leadership in work situations.
Ethical values and social consciousness			√	Ability to respond with ethical value consciousness and societal responsibility.
Employability and desire to excel	√	√	√	Hard and Soft skills with right attitude to work and keen to excel
Innovativeness and Entrepreneurial Orientation	√	√	√	Ability to try new ideas in work place
Higher Education and Research	√		√	Ability to learn and apply knowledge and to work in teams .

### Mapping of Mission of the department with Mission of Institute

	Key Components of Institute Mission	
--	-------------------------------------	--

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*(Signature)*  
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Key Components of Department Mission	Excell as global standard	Global education	Career oriented learning	Ethical values and social initiatives	Technology based participation and entrepreneurship	Justification
Technical Competency	√	√	√			Excelling in global standard in technical education enable student in employability, innovation ideas, technology participants
Leadership		√			√	Quality education leads to leadership and technical competency leads to employment.
Ethical values and social consciousness	√	√	√	√		Career oriented learning gives him technical competency employable has innovative ideas.
Employability and desire to excel			√		√	The students is expected have ethical values and social consciousness
Innovativeness and Entrepreneurial Orientation	√				√	Research and higher education would keep him updated in technology, participation and Entrepreneurship
Higher Education and Research	√					Excelling in global standard in technical education enable student in employability, innovation ideas, technology participants

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 Jyothi Engineering College  
 Cheruthuruthy P.O. - 679 531

Timestamp	Name	Email	Mobile/Phone	Department	Staff/Student	Why I am registering ?
08-11-2016 14:31	Anil Antony	anil@jecc.ac.in	9746222670	CSE	Staff	
09-11-2016 13:18	Alice. k.paul	alice@jecc.ac.in	8547349166	ECE	Staff	
09-11-2016 13:40	ASWATHY WILSON	aswathy@jecc.ac.in	9656175020	CSE	Staff	To know about the steps for writing a research paper
09-11-2016 13:47	NYNI K. A.	nyni@jecc.ac.in	9809482265	ECE	Staff	Interested in research
09-11-2016 13:49	ARUN RAJ A	arunraja@jecc.ac.in	9895035297	ME	Staff	
09-11-2016 13:51	Divya M. Menon	divya@jecc.ac.in	9495880085	CSE	Staff	Interested in the Topic
09-11-2016 14:08	SWAPN A B SASI	swapna@jecc.ac.in	9447125373	CSE	Staff	Interested in publishing quality research papers
09-11-2016 14:19	Thomas George K	thomas@jecc.ac.in	9447239077	CSE	Staff	
09-11-2016 14:29	BINEES H M	bineesh@jecc.ac.in	9946934976	CSE	Staff	
09-11-2016 14:31	NISHA MARY P	nishamary@jecc.ac.in	9633137995	ECE	Staff	interested in fdp
09-11-2016 14:45	ANJITHA V	anjithav@jecc.ac.in	8086750488	ECE	Staff	Interested in topic
09-11-2016 14:45	AMBILY FRANCI S	ambilyfrancis@jecc.ac.in	8907071298	ECE	Staff	
09-11-2016 15:12	DAVID MATHE W	davidmathew1195@gmail.com	9495190423	EEE	PG Student	for knowledge
09-11-2016 15:12	AISWAR YA RAJ	9494rajaiswarya@gmail.com	9446337346	EEE	PG Student	
09-11-2016 15:13	ANU ANTO	anuthaliyath@gmail.com	9446172249	EEE	PG Student	
09-11-2016 15:13	SHERIN KP	sherinkpmoly@gmail.com	8754888980	EEE	PG Student	
09-11-2016 15:14	SREELA KSHMI N	sreelu094@gmail.com	9645594050	EEE	PG Student	
09-11-2016 15:14	SYAMA UP	syamasasikumarup@gmail.com	9846800941	EEE	PG Student	
09-11-2016 15:15	HRIDYA P	hridyapancharath@gmail.com	9747018208	EEE	PG Student	
09-11-2016 15:15	HARIDA	haridasanju6@gmail.com	8086720156	EEE	Student	
09-11-2016 15:17	PAUL	vinnypaul09@gmail.com	9495190423	EEE	Student	
09-11-2016 15:30	Y	roshmy365@gmail.com	9048621482	CSE	Student	research paper
09-11-2016 15:34	SHNAN	unnikrishnanp@jecc.ac.in	9539424991	CSE	Staff	Interested
09-11-2016 15:35	K R	reshmakr18593@gmail.com	8289827644	CSE	Student	RESEARCH PAPER
09-11-2016 15:36	A R B	haritha.rb3@gmail.com	8592941205	CSE	Student	
09-11-2016 15:37	DEV	d.jithindev@gmail.com	8547810828	CSE	Student	
09-11-2016 15:39	NEETHU R	neethuksivaram@gmail.com	9605886596	CSE	Student	interested topic
09-11-2016 15:40	R	shaicypshaji@jecc.ac.in	9677946836	ECE	Staff	
09-11-2016 15:41	SHAJU	suzishaju@gmail.com	8547466340	CSE	Student	
09-11-2016 15:42	HARIDA	m	9745465092	CSE	Student	intrested topic
09-11-2016 15:44	PAULSON	com	9605730209	CSE	Student	
09-11-2016 15:44	YA.P.K	jamshiyamoidu@gmail.com	9544470888	CSE	Student	interested subject
09-11-2016 15:44	MOHAN	m	9946112664	CSE	Student	
09-11-2016 15:45	J	jisnajan1993@gmail.com	8137059190	CSE	Student	
09-11-2016 15:45	VARGHESE	enzavarghese@gmail.com	9497204811	CSE	Student	
09-11-2016 15:45	riya roy	riyaarakkal@gmail.com	9747911480	CSE	Student	
09-11-2016 15:46	suresh	m	9544399809	CSE	Student	
09-11-2016 15:47	MATHE	om	8086906098	CSE	Student	
09-11-2016 15:47	sojan	simikeetikkal@gmail.com	8547783307	CSE	Student	
09-11-2016 15:48	Roy	layalkr6@gmail.com	9497158854	CSE	Student	paper
09-11-2016 15:49	JOHNSON	annajohnson@jecc.ac.in	9847766172	ECE	Staff	
09-11-2016 15:50	a T k	keerthanatk9@gmail.com	7034656806	CSE	Student	paper writing
09-11-2016 15:55	N C J.	rosemincj7@gmail.com	9400564975	ECE	Staff	
09-11-2016 15:58	S	neema1990@gmail.com	9496838452	ECE	Staff	
09-11-2016 16:34	VINCEN	jiscathrine@gmail.com	9048622251	EEE	Student	more on this topic
09-11-2016 16:36	AUGUST	taniaaugus@gmail.com	9446595430	EEE	Student	standards
09-11-2016 18:57	K V	reshmakv@jecc.ac.in	9961373905	CSE	Staff	
09-11-2016 19:58	HI A K	.com	8281463847	CSE	Student	to know about thesis writing
09-11-2016 23:24	k	drisyamk@jecc.ac.in	9645351678	ECE	Staff	
10-11-2016 00:19	R	m	9562006048	CSE	Student	interested topic
10-11-2016 08:01	AKKARA	jishaakkara@jecc.ac.in	9633103108	CE	Staff	
10-11-2016 08:58	Krishnan	soorajkrishnan@jecc.ac.in	9447310354	CE	Staff	Interested in doing PhD
10-11-2016 08:59	J	anjumj@jecc.ac.in	7994255788	CE	Staff	

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How to write a research paper  
10-11-2016

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16

# PERSONAL EMPOWERMENT PROGRAMME

FOR NON TEACHING STAFF

30<sup>th</sup> NOV, 1<sup>st</sup> DEC, 2<sup>nd</sup> DEC

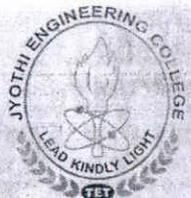
@ DECENNIAL HALL

09:30 AM To 04.30 PM

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*Remunio*  
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# Jyothi Engineering College

NAAC Accredited college with Accredited programmes

Affiliated & Approved by AICTE & Affiliated to APJ Abdul Kalam Technological University

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

CREATING TECHNOLOGY LEADERS OF TOMORROW  
ESTD 2002

## Jyothi Engineering College cheruthuruthy

3 Day PERSONAL EMPOWERMENT PROGRAM for Non – Teaching Staff

Trainers :ICT Academy of Kerala

Date:30-11-2016 to 02-12-2016(3 Days).

Venue: Decennial hall Jyothi Engineering College.

As a part of ICT academy programme we conducted a 3day faculty development programme for the non-teaching staff in our college. The programme started on 9.30AM on 30-11-2016 with a small introduction of all staff members and the resource person. The resource person was Mr.Sreejith who is a well experienced person of more than 10 yrs. in various training fields.3 days programme was very interesting and the participants gave a good feedback.



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Cheruthuruthy P.O.- 679 531

**3 Day PERSONAL EMPOWERMENT PROGRAM for Non - Teaching Staff**

ON 30<sup>TH</sup> NOV, 1<sup>ST</sup> & 2<sup>ND</sup> DEC. 2016

Sl.No.	Name	Designation	Attendance(Day2)	
			FN	AN
<b>Civil Engineering</b>				
1	Jimsy Sunil	Trade Instructor Gr.II	<i>Jimsy</i>	<i>Jimsy</i>
2	k.T. Markose	Trade Instructor	<i>Markose</i>	<i>Markose</i>
3	Reshma	Junior Instructor	<i>Reshma</i>	<i>Reshma</i>
4	Franklin Francis	Trade Instructor Gr.II	<i>Franklin</i>	<i>Franklin</i>
5	Vini P.	Chemist	<i>Vini</i>	<i>Vini</i>
<b>Computer Science and Engineering</b>				
6	Snitha Thomas	Trade Instructor Gr.II	<i>Snitha</i>	<i>Snitha</i>
<b>Computer Centre</b>				
7	Jefferin Jose	Trade Instructor Gr.II	<i>Jefferin</i>	<i>Jefferin</i>
8	Aneesh P.B	Trade Instructor Gr.II	<i>Aneesh</i>	<i>Aneesh</i>
9	Varsha Vaighese	Junior Instructor	<i>Varsha</i>	<i>Varsha</i>
10	Sudheesh C.N	Trade Instructor Gr.II	<i>Sudheesh</i>	<i>Sudheesh</i>
11	Vidya K.	Data Entry Operator	<i>Vidya</i>	<i>Vidya</i>
12	Abraham PA	Technician	<i>Abraham</i>	<i>Abraham</i>
13	Vishnu E.G	Intern	<i>Vishnu</i>	<i>Vishnu</i>
<b>Electronics &amp; Communication Engineering</b>				
14	P.V. John	Instructor	<i>P.V. John</i>	<i>P.V. John</i>
15	Binoj V.J.	Instrument Mechanic	<i>Binoj</i>	<i>Binoj</i>
16	Eleesa Davi	Instructor	<i>Eleesa</i>	<i>Eleesa</i>
17	Abdul Saleem N.M.	Junior Instructor	<i>Abdul Saleem</i>	<i>Abdul Saleem</i>
18	Pradeesh C.G.	Junior Instructor	<i>Pradeesh</i>	<i>Pradeesh</i>
19	Nithil Jose	Junior Instructor	<i>Nithil</i>	<i>Nithil</i>
20	Sangeeta Nair P	Junior Instructor	<i>Sangeeta</i>	<i>Sangeeta</i>

S

*Sunny*  
**Dr. SUNNY JOSEPH KALAYATHANKAL**

M.Tech, MCA, M.Sc, M.Phil, B.Ed

Ph.D (Computer Science), Ph.D (Maths) Page 1

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Jyothi Engineering College  
Cheruthuruthy P.O. - 679 531

PLACEMENT AND TRAINING OFFICE

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# Engineering College

Approved by AICTE Affiliated to APJ Abdul Kalam Technological University

Cheruthuruthy P.O. Cheruvu Junction, Thrissur Dist. PIN - 688 001. Phone: 2349600, 2744223. Fax: 234984, 274777. www.jyothicollege.ac.in

Sl No.	Name	Designation	Attendance(Day2)	
			FN	AN
<b>Electrical &amp; Ele tronics Engineering</b>				
21	Raghavan N.K	Trade Instructor	<i>[Signature]</i>	<i>[Signature]</i>
22	Majeendran K.	Trade Instructor Gr.II	<i>[Signature]</i>	<i>[Signature]</i>
23	Davis K.T	Trade Instructor Gr.II	<i>[Signature]</i>	<i>[Signature]</i>
24	Saritha N	Junior Instructor	<i>[Signature]</i>	<i>[Signature]</i>
25	Alister Polwin	Trade Instructor Gr.II	<i>[Signature]</i>	<i>[Signature]</i>
<b>Mechanical Engineering</b>				
26	Francis K.D.	Tradesman	<i>[Signature]</i>	<i>[Signature]</i>
27	George Kunjuvareed	Tradesman	<i>[Signature]</i>	<i>[Signature]</i>
28	Davis C.C.	Trade Instructor Gr.II	<i>[Signature]</i>	<i>[Signature]</i>
29	Jaison M.J.	Trade Instructor Gr.II	<i>[Signature]</i>	<i>[Signature]</i>
30	Shaju C.A.	Trade Instructor Gr.II	<i>[Signature]</i>	<i>[Signature]</i>
31	K.T. Velayudhan	Trade Instructor	<i>[Signature]</i>	<i>[Signature]</i>
32	Guruvayoorappan V	Junior Instructor	<i>[Signature]</i>	<i>[Signature]</i>
33	Shijin K.M	Trade Instructor Gr.II	<i>[Signature]</i>	<i>[Signature]</i>
34	Girish C	Junior Instructor	<i>[Signature]</i>	<i>[Signature]</i>
35	Jophy P.J	Junior Instructor	<i>[Signature]</i>	<i>[Signature]</i>
36	C.M. Davis	Instructor	<i>[Signature]</i>	<i>[Signature]</i>
37	Parameswaran K	Junior Instructor	<i>[Signature]</i>	<i>[Signature]</i>
<b>Basic Science</b>				
38	Subramanian	Lab Assistant	<i>[Signature]</i>	<i>[Signature]</i>
39	O.P. Kuriakose	Lab Assistant	<i>[Signature]</i>	<i>[Signature]</i>

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*[Signature]*  
**Dr. SUNNY JOSEPH KALAYATHANKAL**  
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 Ph.D (Computer Science), Ph.D (Maths)  
 PRINCIPAL  
 Jyothi Engineering College  
 Cheruthuruthy P.O. - 679 531



Sl No.	Name	Designation	Attendance(Day2)	
			FN	AN
<b>Office</b>				
40	Baji Jose			
41	Girishkumar N.G	Office Assistant		
42	Suganthi T	Office Assistant		
43	Joseph V.K	Office Assistant		
44	Latha S	Office Assistant		
45	Rejitha C.K	Manager (Accounts)		
46	Laiju P Thomas	Accountant		
47	Lijo T.J	Accountant		
48	Baby Koola	Driver		
49	Anthony C.P	Campus Security In-Charge		
50	Ragi Sivadas	Software Engineer		
<b>Library</b>				
51	Manija M	Asst. Librarian		
52	Remya S.N	Library Assistant		
53	Syamala C	Library Assistant		
<b>Store</b>				
54	Tomy Anto	Store Keeper		
55	Joseph P.J	Store Keeper Assistant		
56	Dinesh M.V	Site Engineer		
57	Geeson K Varghese	House Keeping Supervisor		
58	Abhilash K	Electrician		
59	Varghese V.P	Jr. Engineer		
<b>TBI</b>				
60	Vinod K	Sr. S/W Engg.		
61	Akhila B Nair	S/W Engg.		
62	Dayana Benny	S/W Engg.		
<b>Total Batch Strength</b>			62	
<b>FN Session total Present</b>			59	
<b>AN Session total Present</b>			57	
<b>full day absent</b>			3	

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Dr. SUNNY JOSEPH KALAYATHANKAL  
 M.Tech, MCA, M.Sc, M.Phil, B.Ed  
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Personal Empowerment Programme  
30-11-2016 to 2-12-2016

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Cheruthuruthy P.O.- 679 531

## ABOUT THE WORKSHOP

### DAY 1 :

Fundamentals of Machine Learning  
Neural Networks  
Parameter Estimation Techniques

### DAY 2 :

Dimensionality Reduction Techniques  
Support Vector Machine

### DAY 3:

Advanced Topics in Machine Learning

Registration fee: ₹ 800/- for Faculty  
₹ 400/- for PG Students

Those who are interested have to  
register their name in the URL  
<https://goo.gl/ZFjsO>

## DEADLINES

Registration- 5<sup>th</sup> December 2016  
Workshop dates:  
7<sup>th</sup>, 8<sup>th</sup> & 9<sup>th</sup> December 2016

## FOR ANY QUERIES

FDP mail: [fdpce@jecc.ac.in](mailto:fdpce@jecc.ac.in)

College address:

Jyothi Engineering College  
Jyothi Hills, Vettikkattiri P.O.,  
Cheruthuruthy, Thrissur  
Pin - 679531  
Ph: +91 - 4884 - 274198, 274423

## RESOURCE PERSONS

Dr. Govindan V K  
Professor, Indian Institute of  
Information technology,  
Kottayam

Dr. K.P.Soman  
Professor & HOD,  
Centre for Computational Engineering &  
Networking  
Amrita University, Coimbatore.

Mr. Vinith R  
Research Scholar  
NIT Calicut

## CONVENOR

Prof.M T Rajappan Pillai  
HOD, Dept. of CSE

## COORDINATORS

Mr. Thomas George  
Ph.: 9447239077

Ms. Swapna B Sasi  
Ph.:9447125373



# Jyothi Engineering College

NAAC Accredited college with UGC Approved programme

Approved by AICTE & Affiliated to APJ Abdul Kalam Technological University

A CENTRE OF EXCELLENCE IN SCIENCE & TECHNOLOGY BY THE GOVT OF KERALA

JYOTHI HILLS, VETTIKATTIRI P.O., CHERUTHURUTHY, THRASSUR PIN-679531. PH: +91-4884-274198, 274423 FAX: +91-4884-274198

www.jecc.ac.in | E-mail: [info@jecc.ac.in](mailto:info@jecc.ac.in)

## Faculty Development Programme

On



## MACHINE LEARNING

7<sup>th</sup>, 8<sup>th</sup> & 9<sup>th</sup> December 2016

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Organised by

DEPARTMENT OF

COMPUTER SCIENCE & ENGINEERING

in association with

*ROJAWA*  
Dr. SUNNY JOSEPH KALAYATHANKAL  
M.Tech, MCA, M.Sc, M.Phil, B.Ed  
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Jyothi Engineering College  
Computer Society of India  
Cheruthuruthy P.O. - 679 531





## Faculty Development Programme on Machine Learning (7<sup>th</sup>, 8<sup>th</sup> and 9<sup>th</sup> December 2016)

Department of Computer Science & Engineering

Jyothi Engineering College, Cheruthuruthy

**Objective of Event:** To introduce the concept of Machine learning to faculties, research scholars and M.Tech students of various Engineering Colleges in Kerala.

**Description of event:** Three days Faculty Development Programme on Machine Learning

**Implementation:** Two Professors and One Research Scholar from NIT Calicut handled the sessions

A three day Faculty Development Programme on Machine learning was conducted by the Department of Computer Science & Engineering and CSI on 7<sup>th</sup>, 8<sup>th</sup> and 9<sup>th</sup> December 2016. Machine learning is becoming widespread, and organizations are using it in a variety of ways, including improving cyber security, enhancing recommendation engines, and optimizing self-driving cars.

On 7<sup>th</sup> Dr. Govindan V. K, Professor, IIIT Kottayam handled morning session. He gave general awareness about concepts in Machine Learning and neural network. Afternoon session was handled by Mr. Vinith R, Research Scholar, NIT Calicut. He gave talk on various parameter estimation techniques.

On 08<sup>th</sup> Dr. K .P Soman, Prof and Head , CEN, Amrita Campus, Coimbatore took class in morning session. He covered topics like support vector machine, deep learning etc. The afternoon session and full session on 9<sup>th</sup> was again handled by Mr. Vinith R. His session included dimensionality reduction techniques and Advanced topics in machine learning.

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A valedictory function was held in which Principal Dr. K.K Babu and Mr. Thomas George K, Coordinator of FDP spoke a few words. Certificates were distributed to all the participants.

There were 10 external participants from 4 colleges. 22 faculty members and 6 PG students of Computer Science Department also attended the programme.

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

### FDP Objective – PO mapping

PO's FDPObjective	a	b	c	d	e	f	g	h	i	j	k	Justification
To introduce the concept of Machine learning to faculties, research scholars and M.Tech students of various Engineering Colleges in Kerala.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Participants will have the ability to apply knowledge of science and engineering, analyze and interpret data, construct software and hardware systems, solve engineering problems, understand impact of engineering solutions in life, understand social responsibility, engage in life-long learning, issues and have ability to apply this knowledge in professional practice.

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 Engineering College  
 679531

## 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.
b	√	√		Participants will have the ability to design systems for successful career in industry, and to design and conduct experiments to provide valid conclusions
c	√	√		Participants will have the ability to design systems to meet the needs within realistic constraints,
d	√	√	√	Participants can become a member or leader in diverse technical teams, multidisciplinary environments, and communicate effectively.
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 for successful career in industry, can understand and commit to professional ethics and responsibilities, and can communicate effectively in groups by considering human value.
g		√	√	Participants can communicate effectively to work in multidisciplinary teams, to do research and entrepreneurship.
h	√	√		Knowledge of mathematics, science and engineering provides the ability to understand impact of engineering/technology solutions in societal and environmental context, and in research and entrepreneurship.
i	√	√		Participants will have the ability to engage in life-long learning by involving in research
j	√	√		Knowledge of contemporary issues will help the students to stay up-to-date in the professional field.
k	√	√		Modern engineering and IT tools helps to solve engineering problems. Techniques, tools along with skills help to practice as efficient professionals.

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

KEY COMPONENTS OF MISSION STATEMENT	PEO I	PEO II	PEO III	JUSTIFICATION
Technical Competency	√	√		Ability to acquire knowledge and to apply the skills in demanding work conditions.
Leadership		√	√	Ethical leadership in work situations.
Ethical values and social consciousness			√	Ability to respond with ethical value consciousness and societal responsibility.
Employability and desire to excel	√	√	√	Hard and Soft skills with right attitude to work and keen to excel
Innovativeness and Entrepreneurial Orientation	√	√	√	Ability to try new ideas in work place
Higher Education and Research	√		√	Ability to learn and apply knowledge and to work in teams .

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## Mapping of Mission of the department with Mission of Institute

Key Components of Department Mission	Key Components of Institute Mission					Justification
	Excel as global standard	Global education	Career oriented learning	Ethical values and social initiatives	Technology based participation and entrepreneurship	
Technical Competency	√	√	√			Excelling in global standard in technical education enable student in employability, innovation ideas, technology participants
Leadership		√			√	Quality education leads to leadership and technical competency leads to employment.
Ethical values and social consciousness	√	√	√	√		Career oriented learning gives him technical competency employable has innovative ideas.
Employability and desire to excel			√		√	The students is expected have ethical values and social consciousness
Innovativeness and Entrepreneurial Orientation	√				√	Research and higher education would keep him updated in technology, participation and Entrepreneurship
Higher Education	√					Excelling in global standard in technical education enable student in employability,

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

FDP on Machine Learning On 7,8,9 December 2016

List of Registered Candidates

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*Aswathy*

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Cheruthuruthy P.O.- 679 531



# Jyothish Engineering College

Approved by AICTE & Affiliated to APJ Abdul Kalam Technological University

## Faculty Development Programme

on

# MACHINE LEARNING

Date: 7<sup>th</sup>, 8<sup>th</sup> & 9<sup>th</sup> December 2016



Organised By  
Department of CSE  
in association with

Venue : Decennial Hall

Computer Society of India



# Machine learning

7-12-2016 TO 9-12-2016

True Copy Attested

*Sunny*

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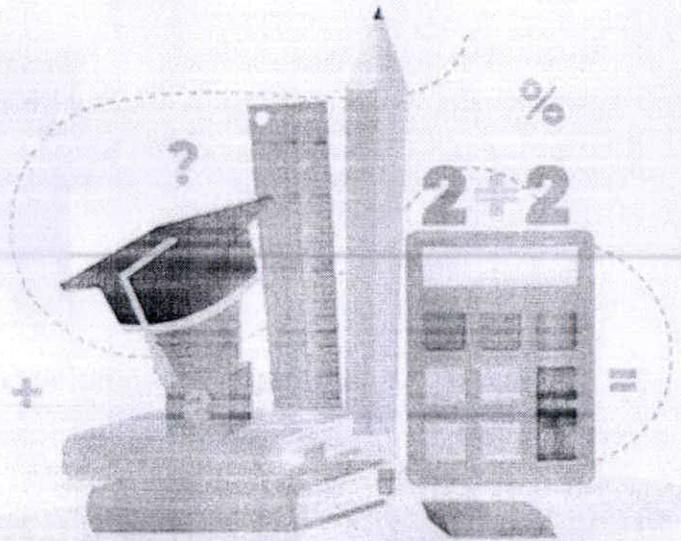


# Jyothi Engineering College

NAAC Accredited college with  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



## An overview of Mathematics in Research

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13-12-2016 to 14-12-2016

**Dr. SUNNY JOSEPH KALAYATHANKAL**  
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Ph.D (Computer Science), Ph.D (Maths)  
PRINCIPAL  
Jyothi Engineering College  
Cheruthuruthy P.O. - 679 531

Venue : Insight Hall

Organized by Department of Basic Science & Humanities

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## *An Overview of Mathematics in Research* Faculty Development Program, Dept. of BSH Report

The BSH Dept. has organised a FDP on "*An Overview of Mathematics in Research*" on 13th & 14th December, 2016 based on the selected topics of Ph.D. Entrance Examination, conducted by APJ Abdul Kalam Technological University. Different areas of Mathematics were discussed during the session by the various mathematics faculty members from BSH department namely, Ms. Ranju Francis, Ms. Smija Skaria, Mr. Rich K J, Ms. Viji E P, Mr. Sivakumar K. S., and Ms. Nivya Wilson.

The FDP was intended for faculty members of Jyothi Engineering College as an encouragement for attending the entrance examination and for promoting the research activities in the college. There are a total of 29 staff members from various departments have attended the course.

A registration fee of Rs. 200/- per head collected towards the refreshment.

List of faculty members attended the FDP:

FDP on 'An Overview of Mathematics in Research' 13th & 14th December 2016		
Sl. No.	Name of Faculty	Dept.
1	RENJINI G	EEE
2	RESHMA RAJ C	EEE
3	SARITHA P	EEE
4	DELLA DAVID	EEE
5	AATHIRA K V	EEE
6	JENSON JOSE	EEE
7	NYNI K. A.	ECE
8	DRISYA M. K.	ECE
9	ROSHNI RAJAN K.	ECE
10	ABIN ROY	EEE
11	JITHIN K KURIAKOSE	ME
12	SOUMYA C	EEE
13	SREETHUMOL M V	EEE

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14	NICE MENACHERY	ME
15	ALICE.K.PAUL	ECE
16	AKHIL A. BALAKRISHNAN	EEE
17	ASWATHY WILSON	CSE
18	NISHA SHERIEF	ME
19	BINDHU K RAJAN	ECE
20	ANNA JOHNSON	ECE
21	NISHA MARY.P	ECE
22	ANU SUNNY	EEE
23	CHRISTY V VAZHAPPILLY	ME
24	MANOJ KUMAR V K	ME
25	AMBILY FRANCIS	ECE
26	PRAVEEN RAJ	ME
27	ANJITHA V	ECE
28	sukesh o p	ME
29	Asha John	ECE

Viji E P  
Co-ordinator

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FDP on 'An Overview of Mathematics in Research' 13th & 14th december 2016		
Sl. No.	Name of Faculty	Dept.
1	RENJINI G	EEE
2	RESHMA RAJ C	EEE
3	SARITHA P	EEE
4	DELLA DAVID	EEE
5	AATHIRA K V	EEE
6	JENSON JOSE	EEE
7	NYNI K. A.	ECE
8	DRISYA M. K.	ECE
9	ROSHNI RAJAN K.	ECE
10	ABIN ROY	EEE
11	JITHIN K KURIAKOSE	ME
12	SOUMYA C	EEE
13	SREETHUMOL M V	EEE
14	NICE MENACHERY	ME
15	ALICE.K.PAUL	ECE
16	AKHIL A. BALAKRISHNAN	EEE
17	ASWATHY WILSON	CSE
18	NISHA SHERIEF	ME
19	BINDHU K RAJAN	ECE
20	ANNA JOHNSON	ECE
21	NISHA MARY.P	ECE
22	ANU SUNNY	EEE

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23	CHRISTY V VAZHAPPILLY	ME	
24	MANOJ KUMAR V K	ME	
25	AMBILY FRANCIS	ECE	
26	PRAVEEN RAJ	ME	
27	ANJITHA V	ECE	
28	sukesh o p	ME	
29	Asha John	ECE	

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An overview of mathamatics in Research  
13-12-2016 to 14-12-2016

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# Jyothi Engineering College

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

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www.jecc.ac.in | E-mail : info@jecc.ac.in

## TWO DAY WORKSHOP ON SIMULATION USING NS3

ORGANIZED BY DEPARTMENT OF ELECTRONICS AND COMMUNICATION

ON

15/12/2016 & 16/12/2016

True Copy Attested

IN ASSOCIATION WITH IST

RESOURCE PERSON

MR. PRADEEPKUMAR T S

Dr. SUNNY JOSEPH KAYATHANKAL, Director, Academic Staff College

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

Module Administrator, VIT Chennai

Registration fee : Rs.300/- | Registration Link : [www.jecc.ac.in](http://www.jecc.ac.in) | Facebook: [www.facebook.com/jecc.ac.in](http://www.facebook.com/jecc.ac.in) | Venue : Computer Center



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## Two days workshop on “Simulations using NS3” (15<sup>th</sup> & 16<sup>th</sup> December 2016)

Department of Electronics and communication

Jyothi Engineering College, Cheruthuruthy

**Objective of Event:** To introduce the basic concepts of networking and familiarize with the advanced network simulator NS3

**Outcome :** Participants will be able to design and analyze network scenarios using NS3

**Description of event:** Two days workshop on simulations using NS3, which include hands-on session.

**Implementation:** Mr. Pradeep Kumar T S, Assistant Director, Academic Staff College MOODLE Administrator at VIT Chennai handled the sessions.

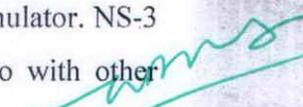
**Venue:** CCI lab, Computer Centre, JECC

**Participants:** 52 (including external and internal participants)

A two days workshop on simulations using NS3, which include hands-on session was conducted by the Department of Electronics and Communication Engineering in association with ECSA and ISTE on 15<sup>th</sup> and 16<sup>th</sup> December 2016. The sessions were handled by Mr. Pradeep Kumar T S, Assistant Director, Academic Staff College MOODLE Administrator at VIT Chennai.

The NS-3 simulator is a discrete-event network simulator targeted primarily for research and educational use. NS-3 is open-source and free. it is a new simulator. NS-3 is designed as a set of libraries that can be combined together and also with other

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# Jyothi Engineering College

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external software libraries. Several external animators and data analysis and visualization tools can be used with NS-3. However, users should expect to work at the command line and with C++ and/or Python software development tools.

On 15<sup>th</sup> morning session Resource person gave general introduction to NS3 and its installation procedure. In the afternoon session Mr. Pradeep gave hands-on session on NetAnim, Wireshark, TraceMetrics, Gnuplot, Wired and Wireless examples.

On 16<sup>th</sup> he covered topics like AODV and OLSR comparison TCP Congestion control, Modules in NS3 & Advanced features of NS3 etc.

A valedictory function was held in which Principal Dr. K.K Babu, Fr. Jinto Pereppaden, Asst. Manager, Er. Bobby Peter, Asst. Administrator, Head of Department, and Coordinator of FDP spoke a few words. Certificates were distributed to all the participants.

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

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15

**JYOTHI ENGINEERING COLLEGE, CHERUTHURUTHY**  
 DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
**Two Day Workshop on Simulation Using NS3**  
 Registration List(External Participants)

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**JYOTHI ENGINEERING COLLEGE, CHERUTHURUTHY**  
 DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
**Two Day Workshop on Simulation Using NS3**  
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27	Ciya James	Female	JECC, ECE	FINAL YEAR B.TECH TRADE	9061163837	akkaraciya@gmail.com	Active
28	Nithil Jose	Male	JECC,ECE	INSTRUCTO INSTRUCTO	9633898683	nithiljose@jecc.ac.in	Active
29	Eleesa Davi	Female	JECC,ECE	R	9447992248	eleesadavi@jecc.ac.in	Active
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Simulation using NS3  
15-12-2016 to 16-12-2016



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## REGISTRATION

Candidates should complete the registration form online or by post to the coordinator as early as possible. The filled in registration form should reach the course coordinator latest by Jan 05<sup>th</sup> 2017. A scanned copy of the registration form may be e-mailed to the coordinator as an advanced copy.

A maximum of 20 participants will be selected for the programme. Registration will be done on 'first come first serve' basis. The selection of the participants will be communicated by e-mail/SMS immediately after the receipt of the registration form. All short-listed participants to the course are required to confirm their participation to the course coordinator through e-mail.

## REGISTRATION FEE

The registration fee shall be remitted at the time of registration by cash or online. Registration fee will include tea & snacks, lunch and course materials. Travelling, accommodation and other expenses will have to be borne by the participants

Registration fee:

For teachers of engineering colleges Rs 1000/-

For Industries and other departments Rs 2000/-

True Copy Attested

*Sunny*

**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

## ORGANIZING COMMITTEE

### Co-ordinators

- Ms. Neeraja P. G, Asst. Professor, CE
- Ms. Nisni M Ashraf, Asst. Professor, CE

### Executive committee

- Ms. Anju M J
- Mr. Joyal Scaria
- Ms. Lakshmi Divakaran
- Ms. Nikhila A P
- Ms. Sinu C G
- Ms. Shiny Shajan

### Advisory Committee

Rev. Fr. Roy Joseph Vadakken  
Asst. Manager (Academics & Administration)

Dr. K. K. Babu, Principal

Prof. S. Rathish, HOD Civil

### CONTACT PERSONS

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**Jyothi Engineering College**

Approved by AICTE & Affiliated to APJ Abdul Kalam Technological University  
JYOTHI ENGINEERING COLLEGE, CHERUTHURUTHY, TRISSUR, KERALA  
WWW.JYOTHIENGINEERINGCOLLEGE.COM

## WORKSHOP ON PRIMAVERA & STAAD.Pro.V8i



Organized By

Department of Civil Engineering

Jyothi Engineering College  
Cheruthuruthy, Thrissur.

ON

10<sup>th</sup>, 11<sup>th</sup> & 12<sup>th</sup> of JAN 2017

To register, please visit

<https://goo.gl/forms/WgKKeNMVeyCvhMeyl>



ESTD 2002

## ABOUT THE COLLEGE

Jyothi Engineering College, Cheruthuruthy under Thrissur Educational Trust founded by the Catholic Archdiocese of Thrissur, started functioning at Cheruthuruthy in the year 2002 with a vision of creating eminent and ethical leaders through quality professional education with emphasis on holistic excellence. 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 studious rural environment, Jyothi has emerged as a Model among the self financing colleges in Kerala. The college is affiliated to Dr.A.P.J Abdul Kalam Technological University and offers B.Tech courses in Civil, Mechanical, Electronics & Communication, Computer Science & Electrical Engineering. It also offers M.tech courses in Power Electronics and Computer Science Engineering. In the year 2016 the college is accredited with NAAC and four programmes are accredited by NBA.

- **CHAIRMAN : H.G. MAR ANDREWS THAZATH**
- **MANAGER : MSGR. THOMAS KAKKASSERY**

## ABOUT THE DEPARTMENT

Department of Civil Engineering was established in 2012. Highly experienced members of faculty drawn from academics and industry are a unique advantage and strength of the department. The department offers B.Tech programme in Civil Engineering and is approved by AICTE with an annual intake of 60 students. Department is equipped with full fledged Laboratories, a Department Library and Seminar Hall. Department organizes regular training programmes for better employability and personality development of students, faculties and professional from industries.

## ABOUT THE WORKSHOP

*The objective of this workshop is to give an exposure to the professionals and academicians about the basic concepts and practical knowledge of the most useful software in Civil Engineering. Examples will be worked out during the period so that the incumbent will become confident to use it.*

## PROGRAM OUTLINE

- Introduction to structural engineering and STAAD.Pro v8i
- 3D structural Analysis in STAAD.Pro
- Project management foundation
- Planning and scheduling using primavera
- Hands on session

## RESOURCE PERSONS

The various sessions of the training programme will be handled by experts from civil department, JECC and consultant company experts.

## ELIGIBILITY

Faculty members (Teaching / Non Teaching) of Engineering Colleges and Technical Institutions, practicing engineers are eligible to apply for the course.

## WORKSHOP ON

PRIMAVERA & STAAD.Pro.

(10th ,11th &12 th of JAN 2017)

## Application Form

Name.....  
Designation.....  
Department.....  
Organization.....  
Address.....  
.....  
E-mail.....  
Phone No.....  
Experience (Yrs):Teaching: .....Industry:.....

## DECLARATION

The Information furnished above is true to the best of my knowledge. I agree to abide by the rules and regulations governing the course. If selected, I shall attend the course for the entire duration. I also undertake the responsibility to inform the coordinator sufficiently in advance, in case I am unable to attend the course.

Place: \_\_\_\_\_ Signature of the participant  
Date: \_\_\_\_\_

**Dr. SUNNY JOSEPH KALAYATHANKAL**  
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Ph.D (Computer Science), Ph.D (Maths)  
PRINCIPAL  
Jyothi Engineering College  
Cheruthuruthy P.O. - 679 531

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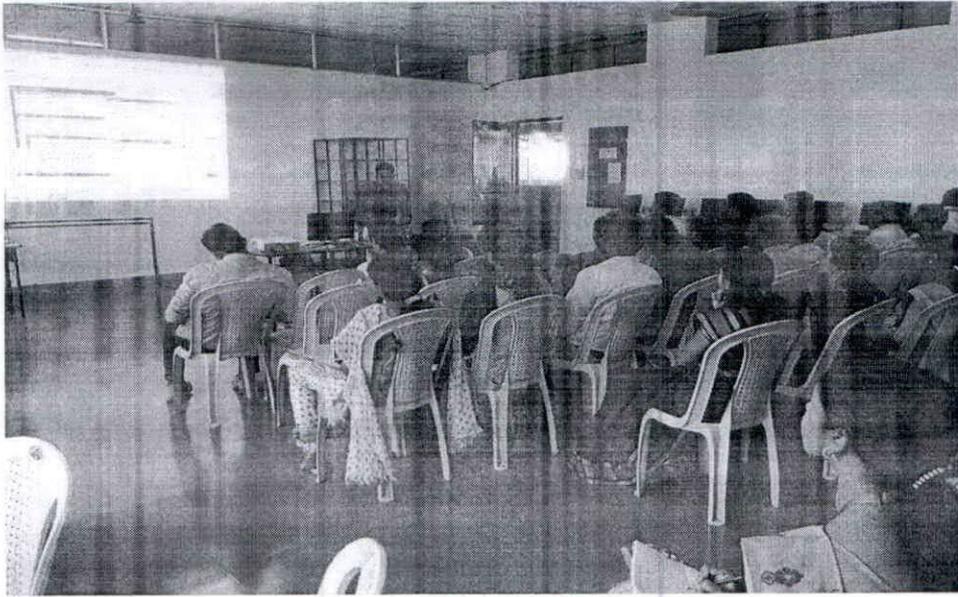
## REPORT

Department of civil engineering of Jyothi engineering college conducted a 3 day workshop on PRIMAVERA & STAAD.Pro.V8i on 10/1/2017 to 12/1/2017 in association with ISTE .The programme was inaugurated by Fr Roy Joseph Vadakkan Assistant manager (Academics and administration).welcome speech was delivered by Head of the department Prof S Rathish . Presidential address was delivered by Dr K .K Babu (Principal jecc). Participants include members of faculty from various engineering colleges and engineers from world bank aided JALANIDHI project of government of Kerala The first session on STAAD.Pro.V8i was handled by Ms Nisni M Ashraf Assistant Professor of civil department. The second session on PRIMAVERA was handled by Mr Jinesh K J project management consultant , Synergy



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*[Signature]*  
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# Engineering College

Approved by the Government of Kerala  
Affiliated to APJ Abdul Kalam Technological University  
Cheruvu, P.O. - 679 531

## Three day Workshop on AUTOCAD & STAAD.Pro.V8i

### LIST OF PARTICIPANTS

Sl NO	NAME	COLLEGE NAME INDUSTRY	AMOUNT	SIGNATURE
1	Mohamed Sajid K	Jyothi Engineering		[Signature]
2	SUBIN MATHAN	KRUSA, Kollam		[Signature]
3	ANISHA G	KRUSA, Jalamudi, Idukki		[Signature]
4	PANGETHA D N	KRUSA, Idumki, CoV		[Signature]
5	SAITHUK	JEEC	500	[Signature]
6	Dr. Deepa Mathan	VAST, Thrissur	1000	[Signature]
7	Sreetha Pisharikkal	VAST, Thrissur	1000	[Signature]
8	Aswathy P	VAST, Thrissur	1000	[Signature]
9	Pragathi Vijayakumar	VAST, Thrissur	1000	[Signature]
10	ARUN R A	JEEC	500/-	[Signature]
11	Shoan Seju	KRUSA, Maleppuram		[Signature]
12	Divya V Vasudevan	JEEC	500/-	[Signature]
13	SURASH D P	JEEC	500/-	[Signature]
14	Suneetha Sukumaran	JEEC	500/-	[Signature]
15	ANTO ZACHARIAS	JEEC	500	[Signature]

**ROMAN**

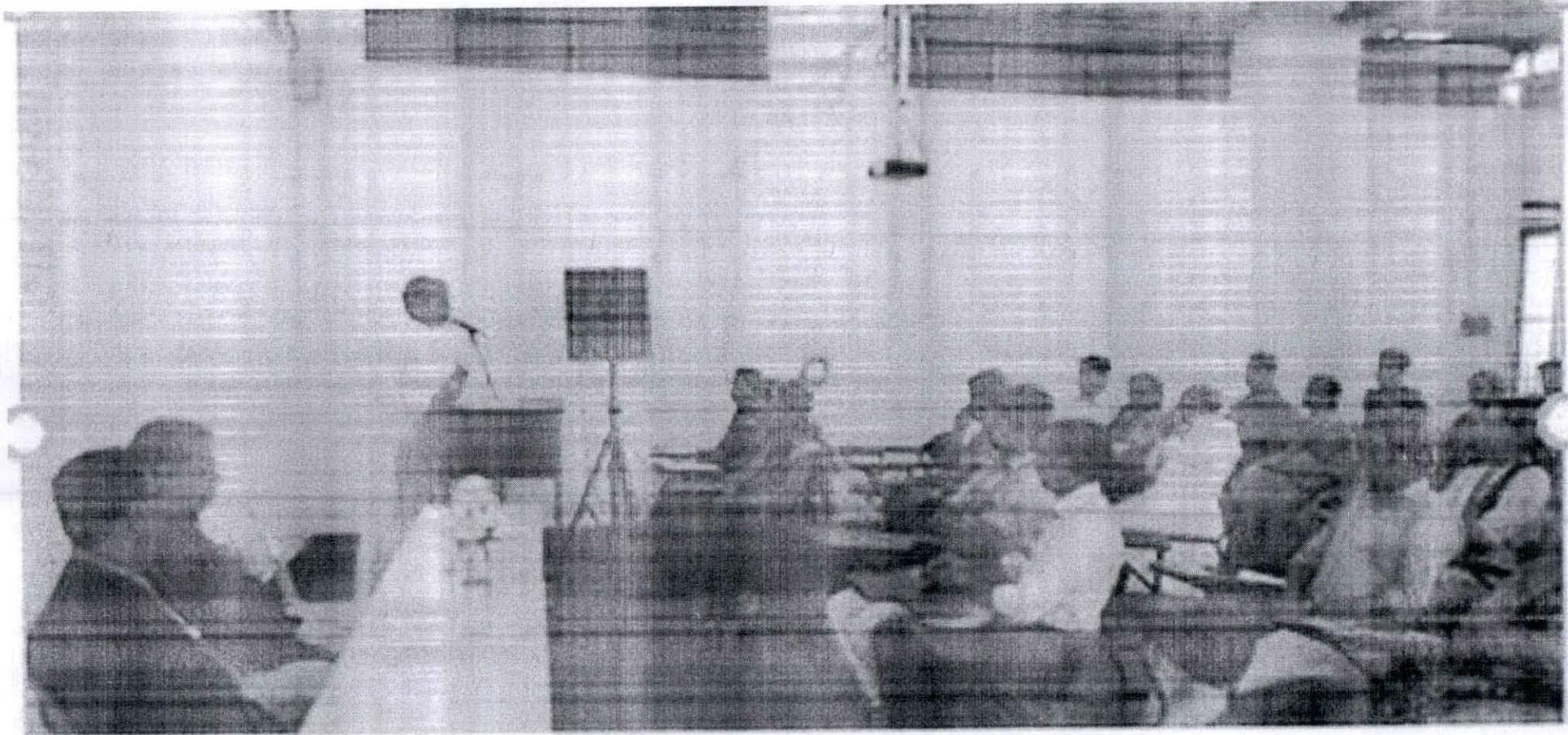
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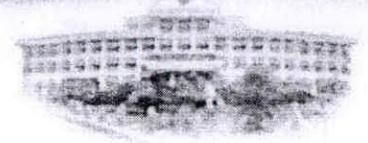


PRIMAVERA & STADD PRO V8i  
10-1-2017 to 12-1-2017

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*Sunny Joseph*  
Dr. SUNNY JOSEPH KALAYATHANKAL  
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17 a



SHORT TERM TRAINING PROGRAMME  
on  
"RESEARCH METHODOLOGY"

11<sup>th</sup> - 15<sup>th</sup> January 2017

Organized By

DEPARTMENT OF  
ELECTRICAL & ELECTRONICS  
ENGINEERING

Technically equipped with  
IEEE PHOTONICS SOCIETY  
in Association with



**Dr. SUNNY JOSEPH KALAYATHANKAL**  
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PRINCIPAL  
Indian Society for Technical Education (ISTE)  
Jyothi Engineering College  
Cheruthuruthy P.O.- 679 531  
JECC Chapter (KE-045)

ORGANIZING COMMITTEE

CHIEF PATRON

His Grace Mar. Andrew Thazath,  
Arch Bishop of Archdiocese of Thrissur

PATRONS

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

ADVISORY COMMITTEE

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

CONVENOR

Prof. Ratnan P. HoD, Dept. of EEE

COORDINATORS

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☎ 04884 274332    ✉ jarint@jecc.ac.in  
Mr. Shijoh V., Assistant Professor, Dept. of EEE  
☎ 09514 90380    ✉ shijohv@jecc.ac.in  
Ms. Della David, Assistant Professor, Dept. of EEE  
☎ 09945 177202    ✉ delladavid@jecc.ac.in

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HOW TO APPLY

REGISTRATION FEE

Faculty	₹ 1,000/-
PG Scholars	₹ 700/-

IMPORTANT DATES

Submission of Scanned copy of duly signed registration form via email	31 <sup>st</sup> December 2016
Notification of Selected Participants	1 <sup>st</sup> January 2017
STTP Date	11 <sup>th</sup> - 15 <sup>th</sup> January 2017

HOW TO REACH

COLLEGE ADDRESS

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

ROUTE MAP



### ABOUT THE COLLEGE

Jyothi Engineering College, Cheruthuruthy under Thrissur Educational Trust founded by the Catholic Archdiocese of Thrissur, 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 Thrissur. 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 envious 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 Mangement 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 – 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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Dr. SUNNY JOSEPH KALAYATHANKAL  
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Ph.D (Computer Science), Ph.D (Maths)  
PRINCIPAL  
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Cheruthuruthy P.O. - 679 531



# Jyothi Engineering College

NAAC Accredited college with IET 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, VETTIKATTI P.O., CHERUTHURUTHY, THRISSUR PIN 679531 PH: +91 4854 257000, 274423 FAX: 04854 274777

www.jecc.ac.in | E-mail: info@jecc.ac.in

## STTP on "RESEARCH METHODOLOGY"

11<sup>th</sup> - 15<sup>th</sup> January 2017

Organized By

### DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

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

#### CHIEF PATRON

His Grace Mar Andrews Thazhath  
Arch Bishop of Archdiocese of Thrissur

#### PATRONS

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

#### ADVISORY COMMITTEE

Dr. K. K. Babu, Principal, JECC  
Dr. Rijil Ramchand, Asso. Professor & Head, NIT Calicut  
Dr. M. Nandakumar, Professor & Head, GEC Thrissur  
Dr. Subash, IEEE Photonics, Madras Section  
Er. Thomas Mathew, Administrator, JECC  
Er. Bobby Peter, Asst. Administrator, JECC

#### 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  
Mr. Jenson Jose, Asst Professor, Dept. of EEE  
Mr. Kapildas K. S., Asst Professor, Dept. of EEE  
Ms. Soumya C., Asst Professor, Dept. of EEE  
Ms. Saritha P., Asst Professor, Dept. of EEE  
Ms. Aswathy Rajan, Asst Professor, Dept. of EEE  
Ms. Aathira K. V., Asst Professor, Dept. of EEE  
Ms. Renjini G., Asst Professor, Dept. of EEE  
Ms. Sreethumol M. V., Asst Professor, Dept. of EEE  
Mr. Akhil A. Balakrishnan, Asst Professor, Dept. of EEE  
Mr. Abin Roy, Asst Professor, Dept. of EEE

#### CONTACT INFO

☎ 0 9626 623 332 ☎ 0 9544 900 980 ☎ 0 9995 177 222  
STTP Mail: [sttpeee@jecc.ac.in](mailto:sttpeee@jecc.ac.in)

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 11<sup>th</sup> - 15<sup>th</sup> 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,  
Dr. SUNNY JOSEPH KALAYATHANKAL  
M.Tech, MCA, M.Sc, M.Phil, B.Ed  
Ph.D (Computer Science), Ph.D (Maths)  
Prof. Ratnan P.  
CONVENOR

Cheruthuruthy  
09-01-2017

PRINCIPAL  
Jyothi Engineering College  
Cheruthuruthy P.O.-679 531

12C



## Short Term Training Programme on Research Methodology

(11<sup>th</sup> – 15<sup>th</sup> 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 11<sup>th</sup>, 12<sup>th</sup>, 13<sup>th</sup>, 14<sup>th</sup> and 15<sup>th</sup> 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.

True Copy Requested

*[Signature]*

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M.Tech, MCA, M.Sc, M.Phil, B.Ed  
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optimization with relevant examples. The session was filled with the numerical methods involved in research problems.

The morning session of 14<sup>th</sup> 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 14<sup>th</sup> 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 STTP 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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				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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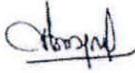
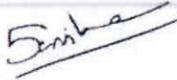
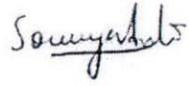
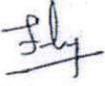
*Sunny*  
 Dr. SUNNY JOSEPH KALAYATHANKAL  
 M.Tech, MCA, M.Sc, M.Phil, B.Ed  
 Ph.D (Computer Science), Ph.D (Maths)  
 PRINCIPAL  
 Jyothi Engineering College  
 Cheruthuruthy P.O. - 679 531

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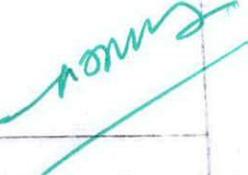
# JYOTHI ENGINEERING COLLEGE, CHERUTHURUTHY

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

## LIST OF PARTICIPANTS

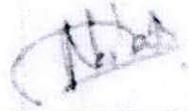
S.NO	NAME OF THE PARTICIPANT	OFFICIAL ADDRESS	ACCOMMODATION	VEG/NON VEG	REG. FEE	SIGNATURE	REMARKS
1	Honey Mol P K	AP - ECE vidya Academy of Science & Technology Thalakkottukara	Nil	Non-veg	paid		
2	SARIKA P. C.	PG STUDENT / GIT II INSTRUCTOR Vidya Academy of Science Technology Thalakkottukara	Nil	non-veg.	paid		
3	Sowmya Anto A.	ASSISTANT PROFESSOR, Thyjas Engineering College, Vellarekad	-	Non-veg	Paid		
4	Filsy Francis V	Asst Professor Thyjas Engineering College Vellarekad	nil	Veg	Paid		

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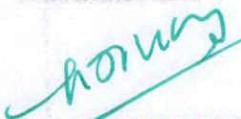


Dr. SUNNY JOSEPH KALAYAN  
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II

5	ANJAN P. SASTHANA	AP. CE Vidya Academy of Science and Technology	Nil	veg	paid	
6	Nirmala Indira	AP CE Vidya Academy TCR	Nil	Non veg	paid	
	Ms. V S	AP EEE MES College of Engg.		Non veg	paid	
	Neshaith M.K	AP EEE MES College of Engg.		Non veg	paid	
	Dr. J. M. K	Asst. Professor MESCE	Nil	Non	paid	
10	Baven Roy	AP, TECC MB	Nil	Non veg	paid	

True Copy

  
Dr. SUNNY JOSEPH KALAY  
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Ph.D (Computer Science), P  
PRINCIPAL  
Jyothi Engineering C  
Cheruthuruthy P.O.-8

(11)

11	Ambili Mohan	Asst. Professor Muller Institute of Technology & Science	Nil	Non-veg	Paid	<u>Am</u>
12	RISHNI & MENON	STUDENT RCET, Alkizham	Nil	Non-veg	Paid	<u>Rishi</u>
	Sabarinath A.R.	Asso. Professor Lourdes Matha College of Science & Technology, Kuttichal	✓	Non-veg	Paid	<u>Sab</u>
14	Romeni Rojan	Asst. Professor JECC	Nil	Non-veg	Paid	<u>Romeni</u>
15	Gyrl B. John	Asst. Professor, ME JECC	nil	Non-veg	Paid	<u>Gyrl</u>
16	JEENA JOHN	Asst. Prof. in EEE SOE, CUSAT	—	Non-veg	Paid	<u>Jeena</u>

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Dr. SUNNY JOSEPH KALAYATH

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

PRINCIPAL

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Cheruthuruthy P.O. - 679 53





# Research Methodology

11-1-2017 TO 15-1-2017

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*Sunny*

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## ABOUT THE WORKSHOP

The principles and processes of Design Thinking are helping folks in our time to directly approach complex problems, innovate collaboratively, and create holistic, sustainable solutions with a human-centered focus.

We are offering an introductory workshop open to everyone ready to accept one of the first challenges in Design Thinking. As you put your knowledge to work in several design challenges, you'll learn how to harness the power of design thinking to create a path to innovation, unveil new possibilities, and make a greater contribution to your organization's future success.

### Topics Covered

- Introduction to Design Thinking
- Good Design
- Mini Design Cycle
- Design Thinking Process, Tools Inventory and Case Study
- Main Design Cycle

Those who are interested have to register their name through College website.

[www.jecc.ac.in](http://www.jecc.ac.in)

Ph: 8891607787

## FOR ANY QUERIES

FDP mail: [fdpce@jecc.ac.in](mailto:fdpce@jecc.ac.in)

## COLLEGE ADDRESS

Jyothi Engineering College  
Jyothi Hills, Vettikkattiri P.O.,  
Cheruthuruthy, Thrissur

Pin - 679531

Ph: +91 - 4884 - 274198, 274423

Registration fee: ₹350/-  
Training kit will be provided

## DEADLINES

Registration- 28<sup>th</sup> January 2017

## WORKSHOP DATES:

30<sup>th</sup> & 31<sup>st</sup> of January 2017

## RESOURCE PERSON

Mr. Rohit Radhakrishnan  
Chief Operating Officer  
Open Fuel, Kerala Startup Mission

## CONVENOR

Dr. C K Raju  
HOD  
Dept. of CSE

## COORDINATORS

**Dr. SUNNY JOSEPH KALAYATHANKAL**  
M.Tech, MCA, M.Sc, M.Phil, B.Ed T S  
Ph.D (Computer Science), Ph.D (Maths) 17  
PRINCIPAL  
Jyothi Engineering College  
Cheruthuruthy P.O - 679 531

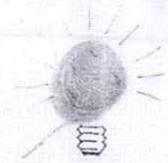
Ms. Diana Davis  
Ph: 8891607787



**Jyothi Engineering College**  
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www.jecc.ac.in | E-mail: [info@jecc.ac.in](mailto:info@jecc.ac.in)

## Faculty Development Programme

On



## DESIGN THINKING

30<sup>th</sup> & 31<sup>st</sup> of January 2017

Organised by

DEPARTMENT OF

COMPUTER SCIENCE & ENGINEERING

In Association with ISTE & IEDC of JECC



STARTUP MISSION



## Faculty Development Programme on Design Thinking (30<sup>th</sup> & 31<sup>st</sup> January 2017)

Department of Computer Science & Engineering  
Jyothi Engineering College, Cheruthuruthy

**Objective of Event:** To prepare the faculty to efficiently handle the subject "Design Engineering" of the KTU syllabus, and to make the PG students think about designing a system.

**Description of event:** A two day Faculty Development Programme on Design Thinking

**Implementation:** Chief Operating Officer of Open Fuel handled the sessions

A two day Faculty Development Programme on Design Thinking was conducted by the Department of Computer Science & Engineering in association with ISTE and IEDC chapters of JECC on 30<sup>th</sup> & 31<sup>st</sup> January 2017. Design Thinking helps folks to directly approach complex problems, innovate collaboratively, and create holistic sustainable solutions with a human-centered focus.

Mr. Rohit Radhakrishnan, Chief Operating Officer, Open Fuel, handled the different sessions. He gave an introduction about Design Thinking and explained in detail about good design, design thinking process and design cycles. He also analysed several case studies, and made the participants perform a prototype design.

A valedictory function was held on 31<sup>st</sup> January 2017. Msgr. Thomas Kakkassery presided over the function. Asst. Manager Fr. Roy Joseph Vadakkan, Principal Dr. K K Babu, and Adm. Er. Thomas Mathew addressed the gathering. Certificates were distributed to the participants.

There were 7 external participants from 6 colleges. 16 faculty members of various departments and 13 PG students of Computer Science Department attended the programme.

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

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## FDP Objective – PO mapping

PO's FDPOjective	a	b	c	d	e	f	g	h	i	j	k	Justification
To prepare the faculty members and PG students to create sustainable solutions for problems.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Participants will have the ability to apply knowledge of science and engineering, analyze and interpret data, construct software and hardware systems, solve engineering problems, understand impact of engineering solutions in life, understand social responsibility, engage in life-long learning, issues and have ability to apply this knowledge in professional practice.

## 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.
b	✓	✓		Participants will have the ability to design systems for successful career in industry, and to design and conduct experiments to provide valid conclusions
c	✓	✓		Participants will have the ability to design systems to meet the needs within realistic constraints,
d	✓	✓	✓	Participants can become a member or leader in diverse technical teams, multidisciplinary environments, and communicate effectively.

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# Jyothi Engineering College

NAAC Accredited college with NEP Accredited programmes\*

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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

www.jecc.ac.in | E-mail: info@jecc.ac.in

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 for successful career in industry, can understand and commit to professional ethics and responsibilities, and can communicate effectively in groups by considering human value.
g		√	√	Participants can communicate effectively to work in multidisciplinary teams, to do research and entrepreneurship.
h	√	√		Knowledge of mathematics, science and engineering provides the ability to understand impact of engineering/technology solutions in societal and environmental context, and in research and entrepreneurship.
i	√	√		Participants will have the ability to engage in life-long learning by involving in research
j	√	√		Knowledge of contemporary issues will help the students to stay up-to-date in the professional field.
k	√	√		Modern engineering and IT tools helps to solve engineering problems. Techniques, tools along with skills help to practice as efficient professionals.

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

KEY COMPONENTS OF MISSION STATEMENT	PEO I	PEO II	PEO III	JUSTIFICATION
Technical Competency	√	√		Ability to acquire knowledge and to apply the skills in demanding work conditions.
Leadership		√	√	Ethical leadership in work situations.
Ethical values and social consciousness			√	Ability to respond with ethical value consciousness and societal responsibility.
Employability and desire to excel	√	√	√	Hard and Soft skills with right attitude to work and keen to excel
Innovativeness and Entrepreneurial Orientation	√	√	√	Ability to try new ideas in work place
Higher Education and Research	√		√	Ability to learn and apply knowledge and to work in teams.

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## Mapping of Mission of the department with Mission of Institute

Key Components of Department Mission	Key Components of Institute Mission					Justification
	Excel as global standard	Global education	Career oriented learning	Ethical values and social initiatives	Technology based participation and entrepreneurship	
Technical Competency	√	√	√			Excelling in global standard in technical education enable student in employability, innovation ideas, technology participants
Leadership		√			√	Quality education leads to leadership and technical competency leads to employment.
Ethical values and social consciousness	√	√	√	√		Career oriented learning gives him technical competency employable has innovative ideas.
Employability and desire to excel			√		√	The students is expected have ethical values and social consciousness
Innovativeness and Entrepreneurial Orientation	√				√	Research and higher education would keep him updated in technology, participation and Entrepreneurship
Higher Education and Research	√					Excelling in global standard in technical education enable student in employability, innovation ideas, technology participants

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 PRINCIPAL  
 Jyothi Engineering College  
 Cheruthuruthy P.O. - 679 531

FDP on "Design Thinking"  
Attendance Sheet 30/01/2017 -31/1/2017

Sl.No	Name
1	BEGI K MATHEW
2	Sreesh P S
3	Vivitha Vijay
4	Aswathy Rajan
5	Jinesh K J
6	Salitha K K
7	Antony Francis
8	Rameshchand KA
9	S. Rathish
10	Riya Roy
11	Hima haridas
12	PRINCY GEORGE
13	Shiny shajan
14	Laya K Roy
15	Neethu Mathew
16	Manju Mohan K
17	shaina paulson
18	Enza Varghese
20	Keerthana T K
21	Simi Sojan

  
Dr. SUNNY JOSEPH KALAYATHANKAL  
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PRINCIPAL  
Jyothi Engineering College  
Cheruthuruthy P.O.- 679 531

22	Jamshija P K
23	Thulasi Keishna N P
24	Prof. Rajeevan Pillai
25	Dr. Raju C K
26	Mr. Aneesh Chandran
27	Mr. Anil Antony
28	Ms. Aswathy Wilson
29	Mr. Eineesh M
30	Mr. Dany Varghese
31	Ms. Diana Davis
32	MS. Divya Menon
33	Ms. Jina V A
34	Ms. Jyothis T S
35	Mr. Majo John
36	Ms. Namitha n
37	Ms. Ninu Francis
38	Ms. Reshma K V
39	Ms. Seena Francis
40	Mr. Shaju Paul
41	Ms. Sobha Xavier P
42	Ms. Swapna B Sasi
43	Mr. Thomas George
44	Mr. Utkrishnan P

*Wany*

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

UJAYITHA R B	Faculty	JYOTHI ENGINEERING COLLEGE	CBE	9946112646	ujayitha@gmail.com
ATHIRU DEV	Faculty	JYOTHI ENGINEERING COLLEGE	CBE	9946112646	athirudev@gmail.com



Design thinking  
30-1-2017 TO 31-1-2017

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*Romana*

**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

### REGISTRATION FORM

NAME : .....  
 DESIGNATION : .....  
 DEPARTMENT : .....  
 INSTITUTION : .....  
 ADDRESS : .....  
 .....  
 .....  
 PINCODE : .....  
 MOB. NO. : .....  
 EMAIL ID : .....

I here by declare that the above information is true to the best of my knowledge.

SIGNATURE OF THE APPLICANT

FORWARDED BY  
HEAD OF THE DEPARTMENT / INSTITUTION

SIGNATURE:

OFFICE SEAL

### ORGANISING COMMITTEE

CHIEF PATRON: H.G MAR ANDREWS THAZHATH  
 (CHAIRMAN)  
 PATRON : Rev. Msgr THOMAS KAKKASSERRY  
 (MANAGER)  
 Rev. Fr. ROY JOSEPH ADACKKAN  
 (ASST MANAGER-ACADEMIC & ADMINISTRATION)  
 Rev. Fr. JOSEPH PRIYANKANDATH  
 (ASST MANAGER (FINANCE))  
 Rev. Fr. ANTONIO PEREPPADAN  
 (ASST MANAGER PROJECT)  
 CONVENER: PROF. VARUGHESE JOB K  
 (HOD,ME)

PROGRAM COORDINATORS:  
 B.L.U.C.V  
 CHRISTY VAZHAPPILLY

CONTACT NO : 9447388932  
 9895638192  
 fdpme@jecc.ac.in

### ADVISORY COMMITTEE

Dr. K.K BABU PRINCIPAL  
 Dr. JOSE P THERATTIL HOD ECE  
 Dr. RAJU C.K HOD CSE  
 Prof. S.RATHISH HOD CE  
 Prof. RATNAN P HOD EEE  
 Rev. Fr. JOHN TRAPAYI HOD BSH



## Jyothi Engineering College

Approved by AICTE & Affiliated to APJ Abdul Kalam Technological University  
 Jyothi Engineering College, Cheruthuruthy P.O., Cheruvu, Kottayam District, Kerala  
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DEPARTMENT OF MECHANICAL ENGINEERING  
 OFFERS  
**FACULTY DEVELOPMENT  
 PROGRAMME**

IN ASSOCIATION WITH  
ISTE



ON  
**REVERSE ENGINEERING**

DATE: 31<sup>ST</sup> MARCH & 1<sup>ST</sup> APRIL 2017

VENUE: INSIGHT HALL  
Jyothi Engineering College

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*Reshma*

Registration closes on  
28<sup>TH</sup> MARCH 2017

CONVENER: PROF. VARUGHESE JOB K  
 (HOD, ME)  
 TECHNICAL SUPPORT:

Dr. SUNNY JOSEPH KALAYATH  
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 Ph.D (Computer Science), Ph.D (IIT)  
 PRINCIPAL  
 Jyothi Engineering College  
 Cheruthuruthy P.O.- 679 501

18-6

### ABOUT THE COLLEGE

Vision of Jyothi Engineering College is to Create eminent and ethical leaders through quality professional education with emphasis on holistic excellence.

Jyothi Engineering College (under Thrissur Educational Trust founded by the Catholic Archdiocese of Thrissur) started functioning at Cheruthuruthy in the year 2002. The college is accredited by NAAC and we also are privileged to say that various departments are accredited by NBA. Jyothi campus is spread over an area of 40 acres at Jyothi Hills and is very close to Kerala Kalamandalam. Jyothi Engineering College is affiliated to the University of Calicut/APJ Abdul Kalam Technological University. With a team of dedicated faculty and a set of devoted staff and with comparable infrastructural and instructional facilities in a serene and intellectually stimulating academic environment, Jyothi Engineering College has emerged as a model among self-financing colleges in Kerala.

### ABOUT THE DEPARTMENT

The Department of Mechanical Engineering at Jyothi is one of the departments accredited by NBA. The College was established in the academic year 2004, offering a four-year B.Tech course in Mechanical Engineering. The annual intake is 120 students and an additional 4 Students are admitted under fee waiver Scheme. It is one of the biggest departments of the institute with student strength of about 500. Regular training programs are organized by the Department for better employability and personality Development. Many of the students bagged top ranks in the Calicut University. Most of the students passed out from the Department are employed in reputed international and multinational organizations. A number of students from the Department are pursuing higher studies at various reputed institutions. The department has an excellent track record in top ranked foreign

### OUR VISION

To provide quality education of international standards in Mechanical Engineering and promote professionalism with ethical values, to work in a team and to face global challenges

### OUR MISSION

- To provide an education that builds a solid foundation in Mechanical Engineering.
- To prepare graduates for employment, higher education and enable a lifelong growth in their profession.
- To develop good communication, leadership and entrepreneurship skills to enable good knowledge transfer.
- To inculcate world class research program in Mechanical Engineering.

### ABOUT THE PROGRAMME

The FDP on "Reverse Engineering" give emphasis on the latest developments of 3D scanning and 3D printing technologies used in the industry. Technical expert from VIT Vellore, Dr. R. Ramkrishnan having enormous experience in the modern digital manufacturing process in reputed global industries and universities in European countries will lead the programme. The technical support offered by Kyeesha Techno Solutions will enrich the outcome of the FDP. Live demonstration of reverse Engineering tools will be a unique experience for the participants. The FDP will benefit the academicians, who are looking forward the advantages of digital technology in design and manufacturing domain. More over it will be an opportunity to acquire the state of the art skill to compete with global market and interaction with world class research experts.

### HOW TO APPLY :

Participant can apply online by paying an amount of Rs.200/- (Two Hundred Only) as the registration fee by netbanking in favour of "Mechanical Engineering Association". It includes the cost of FDP kit and hospitality.

A/C NO : 15250100010739

IFSC CODE: FDRL0001525

Federal Bank,

Jyothi Engineering College Extension  
Cheruthuruthy-679531

The scanned copy of the registration form can be send by mail

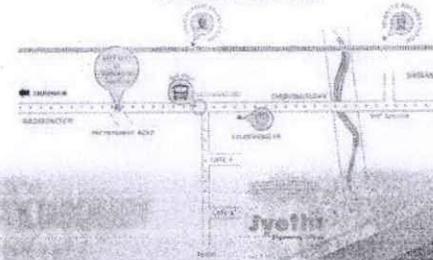
[fdpme@jecc.ac.in](mailto:fdpme@jecc.ac.in)

### HOW TO REACH

The campus is situated very close to Kerala Kalamandalam, just 500m from Vallathol Nagar Railway station, 4km from Shornur Railway junction and 28 km from Thrissur.

*\*College bus facility can be used*

### ROUTE MAP



True Copy Attes

*ADMITTED*

Dr. SUNNY JOSEPH KALAYATH  
 M.Tech, MCA, M.Sc, M.Phil, B.  
 Ph.D (Computer Science), Ph.D (M  
 PRINCIPAL  
 Jyothi Engineering Colleg  
 Cheruthuruthy P.O. - 679 53



**DEPARTMENT OF MECHANICAL ENGINEERING**

***REPORT ON FACULTY DEVELOPMENT PROGRAMME ON  
"REVERSE ENGINEERING"***

In order to strengthen the technical knowhow and to reduce the gap between the industrial requirement and university syllabus, Mechanical Engineering Department of Jyothi Engineering College, Cheruthuruthy organized faculty development programme on Reverse Engineering during 31<sup>st</sup> March and 1<sup>st</sup> April, 2017. Manager of the institution Msgr. Thomas Kakkasery was the chief patron of the programme. Rev. Fr. Roy Joseph Vadakkan, Rev. Fr. Joju Chiriayankandath, Rev. Fr. Jinto Pareppadan were the patron of the programme. As per the directions from the advisory body consists of Dr. K.K. Babu, Principal, Rev. Fr. John Thrayil, Dr. Jose P. Therattil, Dr. C.K. Raju, Prof. Ratheesh. S. and Prof. Ratnan P, convener Prof. Varughese Job K and Coordinators Mr. Biju C.V and Mr. Christy V Vazhappily conducted the event successfully without any deviation from the conditions approved by the management.

The programme was the amalgamation of the familiarizations two streams namely, academic and industrial domains. The former part was handled by Prof. R Ramakrishnan, faculty member from VIT, Vellore. Prof. Ramakrishnan pioneer in the field of additive manufacturing inaugurated the FDP. The very first session handled by him has got very good appreciation. The technical support from M/s Kyeesha Techno Solutions enriched the outcome of the event. The live demonstration of 3-D scanning and 3-D printing by Kyeesha technical engineer.

Altogether 53 participants were benefitted by the programme. From 14 institutions like MIT, Manipal, Trinity College Trivandrum, Rajagiri Engineering College, Viswajyothi Engineering College, etc. 23 external participants attended the FDP. 3-D scanning and 3-D printing fascinated the participants on the beauty of additive manufacturing process. The sponsorship from ISTE, SAEINDIA and sponsorship CADD centre Thrissur and M/s. Cimtrix Bangaluru helped to reduce the registration fee to a nominal amount of Rs/-200.

The two days programme was evaluated by the feedback from the participants. The members expressed their satisfaction and gratitude for the exmploray execution of the program and also highlighted that the proper blend of academic and industrial domains clarified their anxiety on the complex area of additive manufacturing.

**True Copy Attested**  
*[Signature]*  
**Dr. SUNNY JOSEPH KALAYATHANKAL**  
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JYOTHI HILLS, VETTIKATTIRI P.O., CHERUTHURUTHY, THRISSUR PIN-679531 PH: +91-4884-259000, 274423 FAX : 04884-274777

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The event concluded by the valedictory programme presided by Principal Dr. K.K. Babu. Rev. Fr. Joju Chiriyankandath, Finance Manager distributed the certificate of participation to all the members attended the FDP. The valedictory programme was over by 4.00pm. The transportation facility for the participants were arranged to the railway stations at Thrissur, Shornur and palakkad.



**Jyothi Engineering College**  
 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, VETTIKATTIRI P.O., CHERUTHURUTHY, THRISSUR PIN-679531 PH: +91-4884-259000, 274423 FAX : 04884-274777  
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 NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL OF INDIA

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 NATIONAL BOARD OF ACCREDITATION

**FACULTY DEVELOPMENT PROGRAMME**

ON

**REVERSE ENGINEERING**

Organized By  
 Department of Mechanical Engineering

**VENUE : INSIGHT HALL**

Coordinators  
 Mr. BIJU CV  
 Mr. CHRISTY V VAZHAPPILY

Convener  
 Prof. VARUGHESE JOB K.  
 Head of the Department

in association with

**SAEINDIA**  
 Society of Automotive Engineers (INDIA)

2017  
 MARCH 31  
 APRIL 1

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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



# Jyothi Engineering College

NAAU Accredited college with NTA Accredited programmes

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

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REGISTRATION FORM	ORGANISING COMMITTEE	Jyothi Engineering College
<p>NAME _____</p> <p>DESIGNATION _____</p> <p>DEPARTMENT _____</p> <p>INSTITUTION _____</p> <p>ADDRESS _____</p> <p>PINCODE _____</p> <p>MOB. NO. _____</p> <p>EMAIL ID _____</p> <p>Signature of the Applicant _____</p> <p>FORWARDED BY HEAD OF THE DEPARTMENT / INSTITUTION _____</p> <p>SIGNATURE _____</p> <p>OFFICE SEAL _____</p>	<p>CHIEF PATRON: HIS BEATITUDE THAZHATHI</p> <p>PATRON: Rev. Abp. THOMAS KAKKASSERY</p> <p>Rev. Fr. ROY JOSEPH PAMKAN</p> <p>Rev. Fr. JOSEPH PANGANGADATH</p> <p>Rev. Fr. P. TO PEREPPADAN</p> <p>CONVENOR: PROF. VARUGHESE JOB K</p> <p>TECHNICAL COORDINATORS: BANGU V. CHRISTY VAZHAPPILY</p> <p>CONTACT NO: 9447308832 985030192 fdpme@jecc.ac.in</p>	<p>DEPARTMENT OF MECHANICAL ENGINEERING OFFERS</p> <p><b>FACULTY DEVELOPMENT PROGRAMME</b></p> <p>IN ASSOCIATION WITH</p> <p>ISTE</p> <p>ON</p> <p><b>REVERSE ENGINEERING</b></p> <p>DATE: 31<sup>st</sup> MARCH &amp; 1<sup>st</sup> APRIL 2017</p> <p>VENUE: INSIGHT HALL Jyothi Engineering College.</p> <p>CONVENOR: PROF. VARUGHESE JOB K (HOD, ME)</p> <p>TECHNICAL SUPPORT BY</p>
<p>Registration closes on <b>28<sup>th</sup> MARCH 2017</b></p>	<p><b>ADVISORY COMMITTEE</b></p> <p>Dr. K.K BABU, PRINCIPAL</p> <p>Dr. JOSE P THIRATTIL, HOD ECE</p> <p>Dr. RAJU C.K, HOD CSE</p> <p>Prof. S.RATHISH, HOD CEE</p> <p>Prof. RATNAN P, HOD EEE</p> <p>Rev. Fr. JOHN THARAYIL, HOD BSH</p>	<p>ISTE Logo</p>

### ABOUT THE COLLEGE

Mission of Jyothi Engineering College is to Create vibrant and ethical leaders through quality education with emphasis on holistic development.

Jyothi Engineering College under The Catholic Educational Trust founded by the Catholic Archdiocese of Trichur started functioning at Cheruthuruthy in the year 2002. The college is accredited by NAAU and we also are privileged to say that various departments are accredited by NTA. Jyothi campus is spread over an area of 40 acres at Jyothi Hills and is very close to Kerala Kalamandalam, Jyothi Engineering College is affiliated to the University of Calicut, APJ Abdul Kalam Technological University. With a team of dedicated faculty and a set of devoted staff and with comparable infrastructural and international facilities to ensure and intellectually stimulating academic environment, Jyothi Engineering College has emerged as a model among self-financing colleges in Kerala.

### ABOUT THE DEPARTMENT

The Department of Mechanical Engineering at Jyothi is one of the departments accredited by NTA. The College was established in the academic year 2004, offering a four-year B.Tech course in Mechanical Engineering. The annual intake is 120 students and an additional 4 Students are admitted under the waiver Scheme. It is one of the biggest departments of the institute with student strength of about 800. Regular training programs are organized by the Department for better employability and personality development. Many of the students beyond top ranks in the Calicut University. Most of the students are of out from the Engineering and Technology fields.

### OUR VISION

To provide quality education of international standards in Mechanical Engineering, and promote professionalism with ethical values, to work in a team and to face global challenges.

### OUR MISSION

- To provide an education that instils a solid foundation in Mechanical Engineering.
- To prepare graduates for employment, higher education and enable a lifelong growth in their profession.
- To develop good communication, leadership and entrepreneurship skills to enable good knowledge transfer.
- To institute world class research program in Mechanical Engineering.

### ABOUT THE PROGRAMME

The FDP on "Reverse Engineering" give emphasis on the latest developments of 3D scanning and 3D printing technologies used in the industry. Technical expert from VIT Vellore, Dr. R. Ramesh Kumar having enormous experience in the modern digital manufacturing process in reputed global industries and universities in European countries will lead the programme. The technical support offered by Kyosha Techno Solutions will enrich the outcome of the FDP. Live demonstration of reverse Engineering tools will be a unique experience for the participants. The FDP will benefit the academicians, who are looking forward the advantages of digital technology in design and manufacturing domain. Moreover it will be an opportunity to acquire the state-of-the-art skill to compete with global market and interaction with world class research experts.

### HOW TO APPLY

Participant can apply online by paying an amount of Rs.200/- (Two Hundred Only) as the registration fee by netbanking in favour of "Mechanical Engineering Association". It includes the cost of FDP kit and hospitality.

A/C NO : 15250100010739  
IFSC CODE: FDRL0001525  
Federal Bank,  
Jyothi Engineering College Extension,  
Cheruthuruthy-679531

The scanned copy of the registration form can be send by mail  
fdpme@jecc.ac.in

### HOW TO REACH

The campus is situated very close to Kerala Kalamandalam, just 900m from Vallathol Nagar Railway station, 4km from Shottur Railway junction and 29 km from Thrissur.

"College bus facility can be used"

### ROUTE MAP

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*Sunny*

**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

SL NO	NAME OF FACULTY	
27	NISNI M ASHRAF	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
28	LAKSHMI DIVAKARAN P	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
29	NIKHILA A P	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
30	Prof.VARUGHESE JOB K	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
31	LAWRANCE C A	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
32	BIJU C V	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
33	MANOJKUMAR V K	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
34	PRAVEEN RAJ	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
35	CHRISTY V VAZHAPPILLY	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
36	MELVINRAJ C R	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
37	NIKHIL N S	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
38	SUNEETH SUKUMARAN	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
39	SREEJITH K	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
40	HAREESH N V	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
41	NICE MENACHERY	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
42	TONY KOTTOOR	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
43	SHEIK AFTHAB S	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
44	NISHA SHERIEF	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
45	SUKESH O P	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
46	SAJITH U K	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
47	CIJIL B JOHN	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
48	T R SREE SASTHA RAM	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
49	ARUN RAJ A	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
50	JITHIN K KURIAKOSE	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
51	LIPPIN PAULY	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
52	ANTO ZACHARIAS	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
53	SREEJITH A	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY

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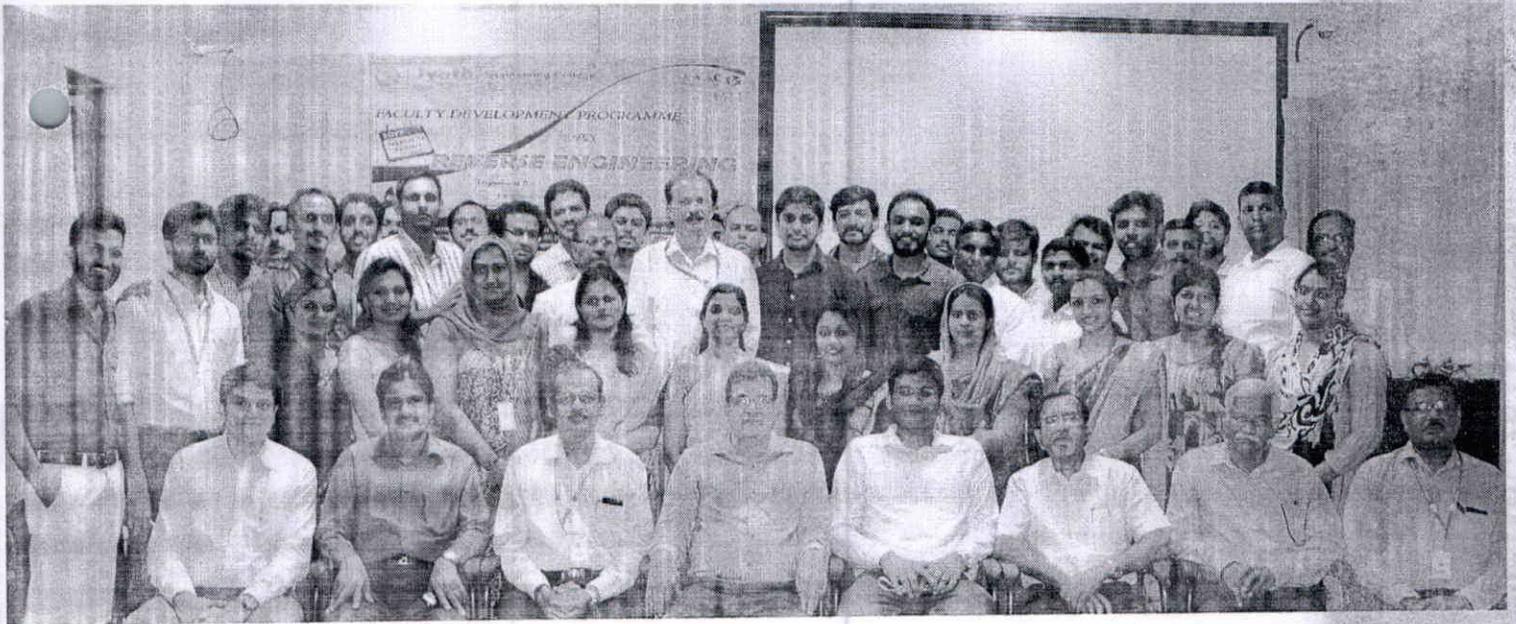
**DEPARTMENT OF ME  
FACULTY DEVELOPMENT PROG  
31/03/201**

SL NO	NAME OF FACULTY	
1	SUSHMITHA S	NSS COLLEGE OF ENGG., PALAKKAD
2	AGHANA E L	NSS COLLEGE OF ENGG., PALAKKAD
3	MANIKANDAN N R	GOVT : ENGG. COLLEGE, THRISSUR
4	C KARUNAKARAN	MAHA INDUSTRIAL SKILL DEVELOPMENT CENTRE, TAMIL NADU
5	NEETHU ROSE THOMAS	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
6	BHARATH KRISHNAN S	TRINITY COLLEGE OF ENGG. TRIVANDRUM
7	SREEGOVIND G	TRINITY COLLEGE OF ENGG. TRIVANDRUM
8	P.SRINIVASA RAO	MANIPAL INSTITUTE OF TECHNOLOGY , MANIPAL
9	SANOJ T	NEHRU COLLEGE OF ENGG.& RESEARCH CENTRE , PAMBADY
10	PREM SANKAR R	NEHRU COLLEGE OF ENGG.& RESEARCH CENTRE , PAMBADY
11	JISHA AKKARA	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
12	Dr.ANITHA JACOB	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
13	VISHNU RAJ A S	SHM Engineering College, KADAKKAL
14	FAYAZ N	SHM Engineering College, KADAKKAL
15	NAIA A SALAM	SHM Engineering College, KADAKKAL
16	KRISNANDAS M	ROYAL COLLEGE OF ENGG.& TECHNOLOGY , AKKIKAVU
17	ABIN PAUL	VISWAJYOTHI COLLEGE OF ENGG.& TECHNOLOGY VAZHAKULAM
18	VIPIN VENU	METS SCHOOL OF ENGG. MALA
19	LONAPPAN K L	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
20	JIBIN JOSEPH	RAJAGIRI SCHOOL OF ENGG. & TECHNOLOGY KAKKANAD
21	SANJEEV KUMAR C P	AL-AMEEN ENGG. COLLEGE , KULAPULLY
22	NEERAJA P G	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
23	SINU C G	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
24	ANU THERESA K R	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
25	RACHANA R	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY
26	ANJU M J	JYOTHI ENGG. COLLEGE, CHERUTHURUTHY

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*Sunny*

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Cheruthuruthy P.O.- 679 531



FDP on Reverse Engineering  
31-3-2017 to 1-04-2017

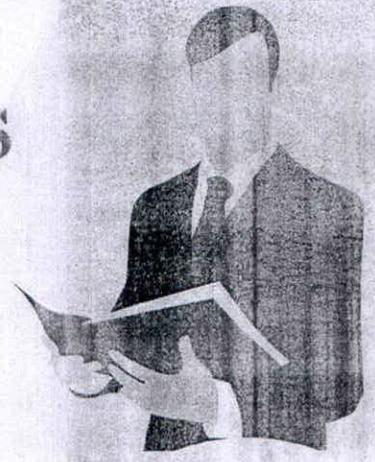
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27

## AN ORIENTATION PROGRAMME ON STUDENT PROJECTS @ Decennial Hall



20<sup>th</sup> AUG 2017

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## An Orientation Program on Student Projects (20<sup>th</sup> July 2017)

Jyothi Engineering College, Cheruthuruthy

**Objective:** The main objective of the programme is to improve the performance in the next academic year on all aspects of students projects.

**Venue:** Decennial Hall, JECC

**Outcomes:**

1. Improve the quality of PG and UG student projects.
2. Improve the quality of project reports by using Latex

**Implementation:**

A one day Orientation Programme on Student Project was organized by Jyothi Engineering College on 20<sup>th</sup> July 2017. The programme was organized in such a way that it would be beneficial for the Faculty members.

The project coordinator Mr. Cyriac M G welcomed Principal Dr. Babu K K , resource persons and the faculty members. The Principal addressed the gathering and advised the faculty members to seriously monitor the student projects and enhance the quality of the same. Mrs Anitha Jacob gave a presentation on Methodology for project execution. Prof Rathish S motivated to get a better performance in the next year on all aspects of students projects. He also suggested to convert maximum no of student projects to paper publications in the reputed journals/conferences.

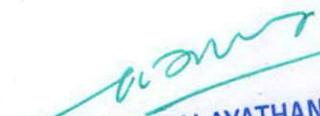
In valedictory session Dr. Shijo V, Project co-ordinator for M.Tech expressed gratitude to the management, Principal, resource persons, and participants. Participants were given chance to deliver feedback on various sessions. Certificates were distributed to all the participants.

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*(Signature)*  
Dr. SUNNY JOSEPH KALAYATHAN  
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Cheruthuruthy P.O. - 679531

There were 60 participants for the programme. The participants expressed satisfaction about the overall conduct of the program.

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Cheruthuruthy P.O.-679 531

# Jyothi Engineering College, Cheruthuruthy

## Orientation programme on Student Projects (20th July 2017)

Sl. No.	Name
1	M.G. Cyriac
2	Neeraja P.G
3	Shiny Shajan
4	Dr, Anitha Jacob
5	Thomas George K
6	Aswathy Wilson
7	Anil Antony
8	Namitha T.N
9	Swapna B. Sasi
10	Shaiju Paul
11	Bineesh M
12	Aneesh Chandran
13	Sobha Xavier P.
14	Reshma K.V.
15	Ninu Francis
16	Dany Varghese
17	Dr. Jose P Therattil
18	Annie P. Joseph
19	Sindhu S
20	Shiny M.I.
21	Dipin Krishnan R.
22	Jinesh K.J.

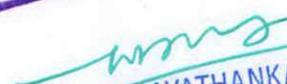
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Sl. No.	Name
23	Drisya M.K.
24	Ambily Francis
25	Rijo P.C
26	Nyni K.A
27	Ponmani Raja
28	Roshni Rajan
29	Neethu Rose Thomas
30	Shaicy P Shaji
31	Ratnan P.
32	Dr. Jarin T
33	Dr. Shijoh V
34	Anu Sunny
35	Jenson Jose
36	Della David
37	Kapil Das K.S
38	Soumya C
39	Saritha P
40	Aswathy Rajan

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Cheruthuruthy P.O. - 679 531

Sl. No.	Name
41	Aathira K.V
42	Akhil A Balakrishnan
43	Jithin K Jose
44	Lawrance
45	Biju C.V
46	Manoj Kumar V.K
47	Praveen Raj
48	Christy V. Vazhappilly
49	Melvin Raj C.R.
50	Nikhil N.S
51	Suneeth Sukumaran
52	Sreejith K
53	Sukesh O.P.
54	Hareesh N.V
55	Nisha Sherief
56	Sheik Afthab S
57	Cijil B John
58	Jithin K Kuriakose
59	Anto Zacharias
60	Sreejith A

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An orientation program on student projects  
7/20/2017

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PRINCIPAL  
Jyothi Engineering College  
Cheruthuruthy P.O.-679 531

26

# Orientation Program for New Staff



22 Sep  
2017  
@ 10:00 AM  
Insight Hall



## Jyothi Engineering College

Approved by AICTE & Affiliated to APJ Abdul Kalam Technological University  
AICTE Accredited college with 100% AICTE Accredited programmes  
AICTE Accredited 8 Tech Programmes in Computer Science & Engineering, Electronics & Communication Engineering, Electrical & Electronics Engineering and Mechanical Engineering valid for Academic Years 2016-2017 to 2018-2017  
www.jecce.ac.in | E-mail: info@jecce.ac.in

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PRINCIPAL  
Jyothi Engineering College  
Cheruthuruthy P.O.- 679 531



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NAAC Accredited college with 100 Accredited programmes\*

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

www.jecc.ac.in | E-mail: info@jecc.ac.in

## Orientation Programme for New Staff

(22<sup>nd</sup> September 2017)

Jyothi Engineering College, Cheruthuruthy

**Objective:** To give the participants a basic understanding of the Academic Research and Administrative policies of the college. The programme intends to give one day orientation to the newly joined staff of the college.

**Venue:** Insight Seminar Hall, JECC

### Outcomes:

1. Participants are able to get an understanding of the general policies and working environment of the college.
2. Participants are able to get an understanding of Research Activities of the college.
3. Participants are able to get an idea of different steps involved in accreditation process.
4. Participants are able to understand the rules of the university.

### Implementation:

A one day Orientation Programme for the newly joined staff was organized by Jyothi Engineering College on 22<sup>nd</sup> September 2017. The programme was organized in such a way that it would be beneficial for the Faculty members. Also the program would be helpful to the newly joined staff to be accustomed with the day to day activities of the college.

In the morning session Principal Dr. Babu K K welcomed the newly joined staff. He also presented the general instructions and welfare schemes to those who were present in the programme. Later on Er. Thomas Mathew gave a detailed presentation on University Rules, conduct of practical exams and admission process of the college. Dr. Anita Jacob stressed on the

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PRINCIPAL  
Jyothi Engineering College  
Cheruthuruthy P.O. - 679 531

importance of research activities to be undertaken under the Departments. She also pointed the various opportunities for conducting research works.

Department and Inter-Department Dynamism's was presented by Prof. S Rathish.

In valedictory session Prof. S Rathish 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.

There were 5 participants for the programme. The participants expressed satisfaction about the overall conduct of the program.

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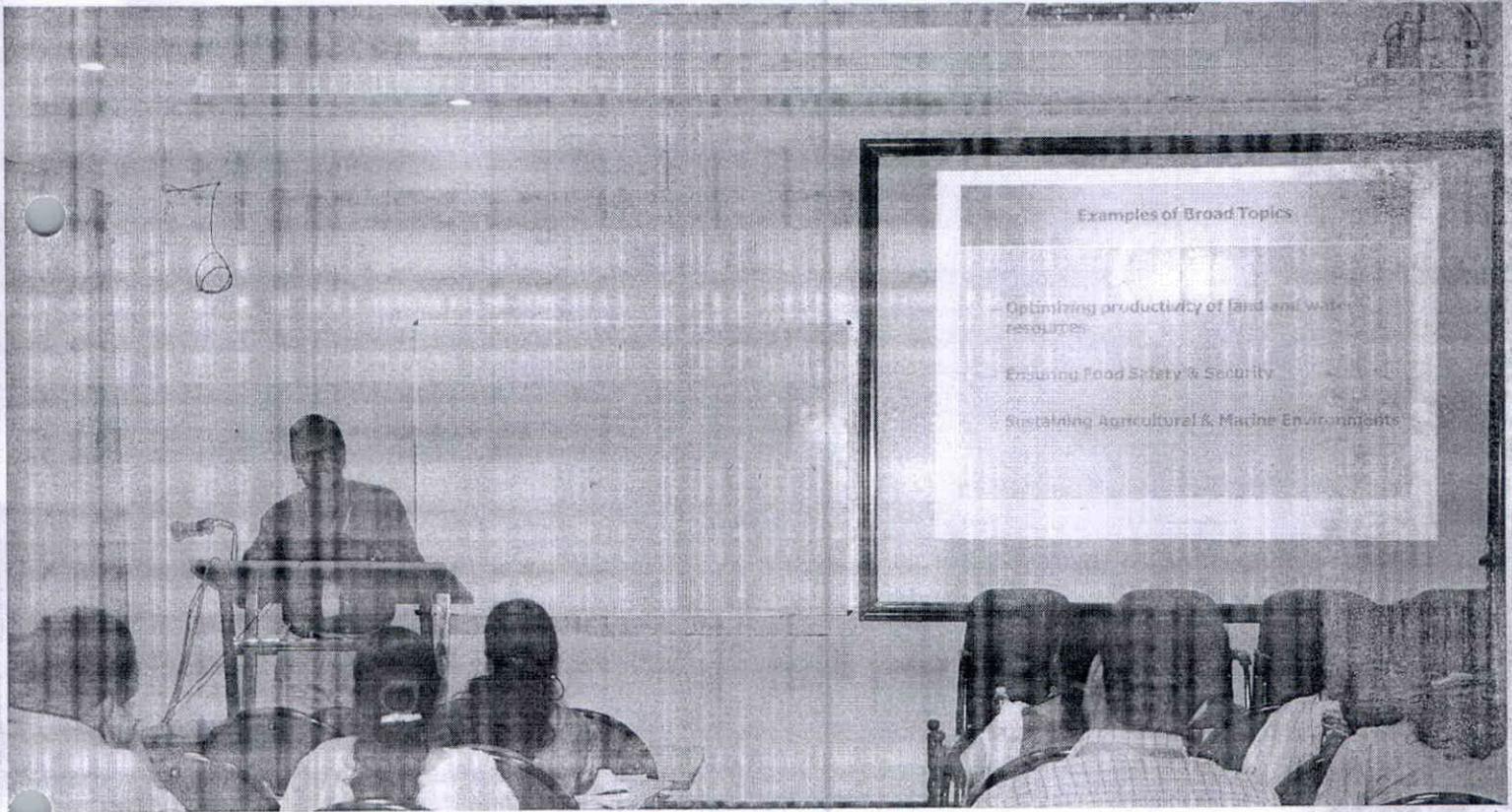
26

Jyothi Engineering College, Cheruthuruthy		
Orientation Programme for New Staff		
22nd September 2017		
Sl.No.	Staff Name	Sign.
1	Therasa Paul	
2	Annie P Joseph	
3	Lawrence C A	
4	Fr. Dr. A K George	
5	Francis Paul	

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*Sunny Joseph*

Dr. SUNNY JOSEPH KALAYATHANKAL  
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Orientation Program for new staff  
9/22/2017

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# Jyothi Engineering College

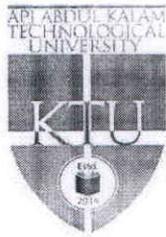
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Three Day Faculty Development Programme

On

## “Signal Processing & Embedded System Design Using EDA Tools”

Organized by:

Department of Electronics and Communication Engineering

Sponsored by

APJ Abdul Kalam Technological University

On day one the programme began with the inauguration by Dr.P.S.Sathidevi Professor & Dean NIT Calicut.



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PRINCIPAL

Jyothi Engineering College  
Cheruthuruthy P.O. - 679 531



# Jyothi Engineering College

NAAC Accredited college with IAFI 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, VETTIKATTIRI P.O., CHERUTHURUTHY, THRISSUR PIN-679531 PH: +91-4884-259000, 274423 FAX: 04884-274777

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After which the Forenoon session continued with keynote address by Dr.P.S.Sathidevi.



After lunch there was **Hands-on Session on Application of Signal Processing Using Simulink and Mat lab** by Mr. Mohamed Aslam Project consultant, PACE Electronics LAB, Cochin.

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Day two started with a session on **Microcontroller 8051 & Simulation using KEIL** by Mr. Jinesh K J Asst. Professor ECE Jyothi Engineering College Thrissur.

After lunch the **Hands-on session: ON Familiarization of DSP Kit-TMS3206748&CCS6.1** by Mr. Shanu N, Asst Prof, COE Attingal which continued till the end of the programme.

A valedictory function was held in which Principal Fr Dr. Jaison Paul Mullerickal CMI, Head of Department, and Coordinator of FDP spoke a few words.

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*azms*  
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Certificates were distributed to all the Participants.



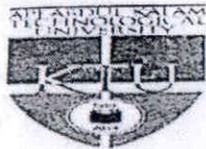
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Faculty Development Programme on "Signal Processing & Embedded System Design Using EDA Tools"  
 Organized by: Department of Electronics and Communication Engineering  
 Sponsored by APJ Abdul Kalam Technological University  
 19-12-2017 to 21-12-2017

SL.No	Name	College	Department	Designation	Contact Number	Food Preference	Accommodation	Signature
1	AKHIL A BALAKRISHNAN	JYOTHI ENGG. COLLEGE CHERUTHURUTHY	EEE	Assistant Professor	9496347695	NON VEGETARIAN	NO	
2	SAJITHA P S	THEJUS ENGINEERING COLLEGE	ECE	Assistant Professor	8762951273	VEGETARIAN	NO	
3	W.M.RINI FEPSLIN	ROYAL COLLEGE OF ENGINEERING AND TECHNOLOGY	ECE	Assistant Professor	9442462242	NON VEGETARIAN	NO	
4	ABITHA M A.	ROYAL COLLEGE OF ENGINEERING AND TECHNOLOGY	ECE	Assistant Professor	9605784912	VEGETARIAN	NO	
5	SAVITHA VASUDEVAN	ROYAL COLLEGE OF ENGINEERING & TECHNOLOGY	ECE	Assistant Professor	9656454708	NON VEGETARIAN	NO	
6	RUBINA K A	ROYAL COLLEGE OF ENGINEERING & TECHNOLOGY	ECE	Assistant Professor	9995069344	VEGETARIAN	NO	
7	VIDYAMOL K	SAHRDAYA COLLEGE OF ENGG & TECHNOLOGY	ECE	Assistant Professor	8547856561	VEGETARIAN	NO	
8	RAKESH V.S.	VIDYA ACADEMY OF SCIENCE & TECHNOLOGY	ECE	Assistant Professor	8547393655, 9446313	VEGETARIAN	NO	
9	VANDANA M	VIDYA ACADEMY OF SCIENCE & TECHNOLOGY	ECE	Assistant Professor	9495364874	VEGETARIAN	NO	
10	JEMMY JOSE KAKKASSERY	VIDYA ACADEMY OF SCIENCE & TECHNOLOGY	ECE	Assistant Professor	9495364741	VEGETARIAN	NO	
11	VARNYA C	THEJUS ENGINEERING COLLEGE	ECE	Assistant Professor	8089488014	VEGETARIAN	NO	
12	HONEY MOL P K	VIDYA ACADEMY OF SCIENCE & TECHNOLOGY	ECE	Assistant Professor	9539059116	NON VEGETARIAN	NO	
13	NEETHU M	NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE	ECE	Assistant Professor	9497352601	NON VEGETARIAN	NO	

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# Jyothi Engineering College

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Faculty Development Programme on "Signal Processing & Embedded System Design Using EDA Tools"  
Organized by: Department of Electronics and Communication Engineering  
Sponsored by APJ Abdul Kalam Technological University  
19-12-2017 to 21-12-2017

14	SRUTHI M	VIDYA ACADEMY OF SCIENCE & TECHNOLOGY	ECE	Assistant Professor	7356338867	VEGETARIAN	NO	<i>Swathi</i>
15	BHAVYA DAS D	NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE	ECE	Assistant Professor	8547849877	VEGETARIAN	NO	<i>Swathi</i>
16	MONISHA SIMON	NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE	ECE	Assistant Professor	9497248431	VEGETARIAN	NO	<i>Monisha</i>
17	SOOREJ K S	JAWAHARLAL COLLEGE OF ENGINEERING AND TECHNOLOGY	ECE	Assistant Professor	8281365589	VEGETARIAN	NO	<i>Soorej</i>
18	VIJITHA G	JAWAHARLAL COLLEGE OF ENGINEERING AND TECHNOLOGY	ECE	Assistant Professor	8891132670	NON VEGETARIAN	NO	<i>Vijitha</i>
19	MOHAMMED ANVAR P K	AL-AMEEN ENGG. COLLEGE	ECE	Assistant Professor	9605566944	NON VEGETARIAN	NO	<i>Anvar</i>
20	ABDUL RIAS P	AL-AMEEN ENGG. COLLEGE	ECE	Assistant Professor	9744848150	NON VEGETARIAN	NO	<i>Rias</i>
21	SHINTU ABRAHAM	CHRIST COLLEGE OF ENGINEERING	ECE	Assistant Professor	8281052016	NON VEGETARIAN	NO	<i>Shintu</i>
22	CATHERINE J NEREVEETIL	CHRIST COLLEGE OF ENGINEERING	ECE	Assistant Professor	8606422648	VEGETARIAN	NO	<i>Catherine</i>
23	BINET ROSE DEVASSY	SAHRDAYA COLLEGE OF ENGG & TECHNOLOGY	ECE	Assistant Professor	9995516894	VEGETARIAN	NO	<i>Binet</i>
24	BINDHU K RAJAN	JYOTHI ENGG. COLLEGE CHERUTHURUTHY	ECE	Assistant Professor	9995010047	NON VEGETARIAN	NO	<i>Bindhu</i>
25	ANJITHA V	JYOTHI ENGG. COLLEGE CHERUTHURUTHY	ECE	Assistant Professor	8086750488	VEGETARIAN	NO	<i>Anjitha</i>
26	PONMANI RAJA M	JYOTHI ENGG. COLLEGE CHERUTHURUTHY	ECE	Assistant Professor	9995388808	NON VEGETARIAN	NO	<i>Ponmani</i>
27	DRISYA M K	JYOTHI ENGG. COLLEGE CHERUTHURUTHY	ECE	Assistant Professor	9545351678	NON VEGETARIAN	NO	<i>Drisya</i>
28	SARATH K	SREEPATHY INSTITUTE OF MANAGEMENT & TECHNOLOGY	ECE	Assistant Professor	9447736069	NON VEGETARIAN	NO	<i>Sarath</i>
29	AMBILY FRANCIS	JYOTHI ENGG. COLLEGE CHERUTHURUTHY	ECE	Assistant Professor	8907071298	VEGETARIAN	NO	<i>Ambily</i>
30	ASHA JOHN	JYOTHI ENGG. COLLEGE CHERUTHURUTHY	ECE	Assistant Professor	9400534498	VEGETARIAN	NO	<i>Asha</i>

31 RESHMI H

NEHRU COLLEGE of ENGINEERING AND RESEARCH CENTRE  
ECE Assistant Professor

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'Signal Processing & Embedded System Design Using EDA Tools'  
19-12-2017 to 21-12-2017

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NSA Accredited B. Tech Programmes in Computer Science & Engineering, Electronics & Communication Engineering, Electrical & Electronics Engineering and Mechanical Engineering valid for Academic Years 2016-2017 to 2018-2019

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## Power Electronics & Control System modules using LabView

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13-12-2016 to 14-12-2016

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Jyothi Engineering College  
Cheruthuruthy P.O. - 679 531

Department of Electrical & Electronics Engineering

Venue: Descent Hall

# REPORT

## Hands-on Training on "Power Electronics and Control System Modules"

A training program organised by Electrical and Electronics department in association with IEL conducted by VI solution and national instruments powered by jyothis engineering college was held on January 17<sup>th</sup>-19<sup>th</sup>. The programme was inaugurated by Dr. Fr Jaison Paul Mukerikkal CMI (Principal, JECC) with the presence of Rev. Fr. Roy Joseph Vadakan (Asst. Manager), Prof. Murali Krishnan (PG dean), Prof. Ratnan P (HOD) and Mr. Jenson Jose (EEE Faculty).

It was a three days training programme held from January 17<sup>th</sup>-19<sup>th</sup> on System simulation lab. 21 Mtech students participated the workshop for encouraging the knowledge in design and implementation.

The first session was taken by Dr. Shijho V (EEE Faculty), Mr. Kapil Das (EEE Faculty) and Ms. Roshni Raj (ECE faculty). They give introduction about LabVIEW. The session was from 9.00am to 4.30 PM.

The next two days session was handled by Mr. Sathish Kumar Reddy Senior application engineer, VI solutions. He enriched the knowledge by introducing several hands on session based on multisim and LabVIEW. Cosimulations using both the software's were done.

A valedictory function was held on 19<sup>th</sup> January and the certificates were distributed to the students and certificate of recognition was presented to the faculties who handled the sessions by Prof. Ratnan P (HOD EEE Dept) and Mr. Jenson Jose (Faculty coordinator).

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**Power Electronics & Control System modules using LabView-Photos**  
**Organised by Dept. of EEE in association with IE(I)**

**Participation List**

1	Ratnan P.
2	Dr. Jarin T
3	Anu Sunny
4	Reshma Raj
5	Jenson Jose
6	Della David
7	Kapil Das K.S
8	Soumya C
9	Saritha P
10	Aswathy Rajan
11	Aathira K.V
12	Sreethumol M.V
13	Akhil A Balakrishnan
14	Shijoh
15	Abin Roy
16	Jithin K. Jose

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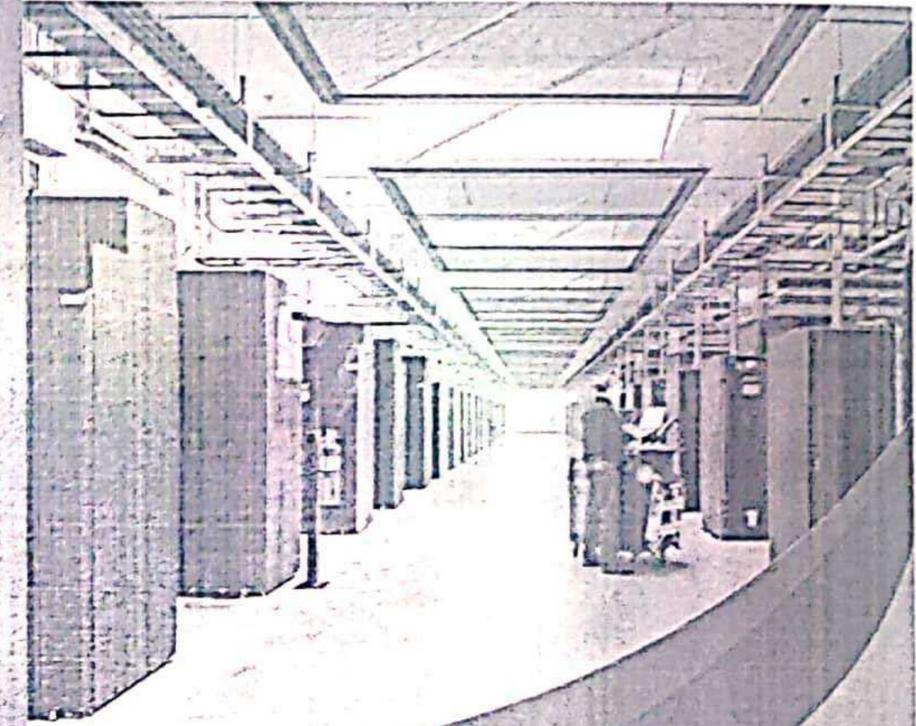


Power Electronics & Control System modules using LabView  
17-1-2018 to 19-1-2018

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**Five Day  
National Workshop on**

**HIGH  
PERFORMANCE  
COMPUTING**

**7<sup>th</sup> to 11<sup>th</sup>  
May 2018**



Organized by  
**C-DAC, Pune &**



**Jyothi Engineering College**

**Resource Persons**

**Rev. Fr. Dr. Jason Paul Mulerikkal** Principal, JECC  
 Experts from CDAC, Pune

**CHIEF PATRON**

**His Grace Mar. Andrews Thazath**,  
 Arch. Bishop of Archdiocese of Thrissur

**PATRONS**

**Msgr. Thomas Kakkassery**,  
 Manager, JECC

**Rev. Fr. Roy Joseph Vadakkam**,  
 Asst. Manager (A & D), JECC

**Rev. Fr. John Chiriyankandath**,  
 Asst. Manager (B), JECC

**ADVISORY COMMITTEE**

**Rev. Fr. Dr. Jason Paul Mulerikkal**,  
 Principal, JECC

**Fr. Thomas Mathew**,  
 Administrator, JECC

**Fr. Bobby Peter**,  
 Asst. Administrator, JECC

**CONVENORS**

**Dr. C.K.Raju**  
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 Asst. Prof. (Dept. of CSE)  
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For further queries

FDP mail: [fdp@jecc.ac.in](mailto:fdp@jecc.ac.in)

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E mail: [info@jecc.ac.in](mailto:info@jecc.ac.in)

Website: [www.jecc.ac.in](http://www.jecc.ac.in)

Who can apply:

- (a) Industry Professionals,
- (b) Faculty Members,
- (c) Research Scholars

**Registration Fee : ₹ 2000/-**  
**Research Scholars : ₹ 1500/-**

Accommodation will be provided  
with nominal rates

To participate in the workshop,  
please register your particulars at

<http://www.jecc.ac.in/hpc>

Last Date (Registration) : 30<sup>th</sup> Apr 2018

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# National Workshop on High Performance Computing

**(7-5-2018 to 11-5-2018)**

## **Department of Computer Science & Engineering**

A five day National Workshop on **High Performance Computing (HPC)** was conducted by the Department of Computer Science & Engineering between 7<sup>th</sup> May 2018 to 11 May 2018. HOD of CSE, Dr. C K Raju introduced the resource person Fr. Dr. Jaison Paul Mulerikkal, Principal JECC and experts from CDAC Pune to the delegates.

On 7<sup>th</sup> May 2018, the morning session was on "Introduction to HPC". On the same day, the afternoon session covered the topic "GPU support for Deep learning and Tensor flow". On 8<sup>th</sup> May 2018, the morning session was on "Overview of HPC and introduction to workshop". In the afternoon, sample programs were given. Programs for the lab sessions according to KTU syllabus were discussed. On the last class eminent personality talks about the "Cluster resource Manager and job scheduler". Moreover, explains the case study- "Image Processing". At the end of the day sample programs were given. There were 13 external participants and 28 faculty members of Jyothi Engineering College Response from the participants were good.



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Jyothi Engineering College, Cheruthuruthy  
Staff List - 7/5/2018 - 11/5/2018

Sl. No.	Name	Register #	Signature	Remark	05-07-2018		05-09-2018		05-10-2018		05-11-2018	
					FN	AN	FN	AN	FN	AN	FN	AN
1	Dr. Jason Paul	P	P	P								
<b>COMPUTER SCIENCE &amp; ENGINEERING</b>												
1	Fr. Dr. A.K. George	R	P	P	P	P			P	P	P	
2	Drigo M Menon	R	P	P	P	P	P	P	P	P	P	
3	Dr. Adesh N Gokul	R	P	P	P	P	P	P	P	P	P	
4	Thomas George K	R	P	P	P	P	P	P	P	P	P	
5	Aweelthy Wilson	R	P	P	P	P	P	P	P	P	P	
6	Aril Antony	R	D	D	D	D	E		P	P	P	
7	Seena Francis	R	P	P	P	P	P	P	P	P	P	
8	Namitha T.N	R	E	P	P	P						P
9	Swarna B. Sasi	R										
10	Shaju Paul	R	P	P	P	P	P	P	P	P	P	
11	Bineesh M	R	L	L	P	P	P	P	P	P	P	
12	Aneesh Chandran	R	P	P	P	P	P	P	P	P	P	
13	Stella Xavier P.	R	P	P	P	P	P	P	P	P	P	
14	Diana Davis	R	P	P	P	P	P	P	P	P	P	
15	Roshna K.V.	R	P	P	P	P	P	P	P	P	P	E
16	Nisra Francis		E	P	P	P	P	P	P	P	P	E
17	Dany Varughese	P	P	P	P	P	P	P	P	P	P	
18	Arind K.	P	P	P								
19	Adithi B Har				P	P	P	P	P	P	P	
20	Stella Thomas	P	P	P	P	P	P	P	P	P	P	
21	Aneesh P B											
22	Vanya Varughese	P	P	P	P	P	P	P	P	P	P	
23	Sudheesh C.N				P	P	P	P	P	P	P	
<b>ELECTRONICS &amp; COMMUNICATION ENGINEERING</b>												
1	Dr. Jose P Theerath		P	P	P	P	P	P	P	P	P	
2	Prof. Murali Krishna C	R			P	P						
3	Jose P Joseph	R			P	P						
4	Shafiq B											
5	Shary M.L	R	P	P	E	P			P	P	P	P
6	Dipan Krishna R.				P	P						
7	Jineesh K.J	R	P	P	P	P						
8	Bhaskar Rajan				P	P					P	P
9	Drigo M.K				P	P						
10	Ambily Francis		P	P	P	P	P	P	P	P	P	
11	Adithi John	P	P	P	P	P	P	P	P	P	P	
12	Raja P.C				P	P						
13	Heta K.A	P	P	P	P	P	P	P	P	P	P	
14	Shanmug Raja				P	P	P	P	P	P	P	
15	Roshan Rajan	R	P	P	P	P	P	P	P	P	P	
16	Neethu Rose Thomas				P	P						

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ELECTRICAL & ELECTRONICS ENGINEERING												
1	Ratnam P.											
2	Dr. Jatin T	P	P	P	P	P	P	P				P
3	Dr. Shishu V			P	P	P	P	P	P	P		
4	Anu Sunny							P	P			
5	Jenson Jose	P	P	P	P	P	P	P				
6	Debra David											
7	Rishi Das K.S				P	P	P	P	P	P		
8	Sourav C.				P	P	P	P	P			
9	Saritha P											
10	Apoorva Rajan											
11	Aashra K.V	R		P	E	P	P			P		
12	Breethamod M.V	R	P	P	E	P	P	P	P	E	P	P
13	AMN A Sankarshran											
14	Jithin K. Jose	R	P	P	P	P	P	P	P	P	P	P
15	Hemra P.V	R		P	P	P	P	P	P	P	P	P
MECHANICAL ENGINEERING												
1	Dr. David K.J		P	P	P	P	P	P	P	P		
2	Laxarance	R	P	P	P	P	P	P		P	P	P
3	Biju C.V	P	P	P	P	P	P	P	P			
4	Manoj Kumar V.K	R	P	P	P	P	P	P				P
5	Praveen Raj	R	P	P	P	P	P	P	P	P		
6	Chand V. Vazhappally	P	P	P	P	P	P	P				
7	Mohan Das C.R	R	P	P	P	P	P	P	P	P	P	P
8	Nishi N.S		P	P	P	P	P	P	P	P		
9	Sureesh Sukumaran		P	P	P	P	P	P	P	P		
10	Sheeth K											
11	Suresh O.P		P	P	P	P	P	P	P			
12	Hareesh N.V	R	E	P	E	P	E	P				P
13	Indra Shereef											
14	Nico Menachery	P	P	P	P	P	P	P	P			
15	Shank Athira S	R	P	P	P	P	P	P	P	P		P
16	Cal B. John									P	P	
17	Anil Raj A									P	P	
18	Jithin K Kurukose									P	P	
19	Arin Zacharias	P	P	P	P	P	P	P	P	P	P	
20	Sheeth A									P	P	
SCIENCE, HUMANITIES AND BASIC ENGINEERING												
1	Prof. Ft. George Plaseery											
2	Praga Jose	R	P	P	P	P	P	P	P	P		
3	Dr. M. Balagopalan											
4	Jaimee Jose											
5	Prof. Ft. John Thattayil											
6	Mru Jose	R	P	P	P	P	P	P	P	P	P	
7	Sruja Shanta											
8	Shankumar K.S											
9	Renu Francis											
10	Nitya Wilson											
11	Rishi K.J	R	P	P	P	P	P	P	P	P	P	
12	Vijay P.	R	P	P	P	P	P	P	P	P	P	
13	Dr. Usha Menon											
14	Davis Padikal	P	P	P	P	P	P	P	P	P		
15	Fr. Dr. Piergen Antony	P	P	P	P	P	P	P	P	P	P	
16	Blain Joy											
ADHOC												
1	Sonaly P. Ghajji		P	P	P							
2	Indran Johnson											
Computer Center												
1	Jafin Jose	R	P	P	P	P	P					

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22



# Workshop on HPC

7-5-2018 TO 11-5-2018

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## RESOURCE PERSONS

The various sessions of training program will be handled by the eminent faculties from premiere institutions like NIT, GEC's, experts from KMRL and Citilabs.

### CHIEF PATRON

His Grace Mar Andrews Thazhath  
Arch Bishop of Archdiocese of Thrissur

### PATRONS

Msgr. Thomas Kakkassery  
Manager, JECC

Rev. Fr. Roy Joseph Vadakken  
Asst Manager (A&A), JECC

Rev. Fr. Joju Chiriyankandath  
Asst Manager (F), JECC

### ADVISORY COMMITTEE

Rev. Fr. Dr. Jaison Paul Mulerikkal CMI,  
Principal, JECC

Prof. Rathish S.  
HOD, Department of Civil Engineering

Dr. Anitha Jacob  
Associate Professor,  
Department of Civil Engineering

### CO-ORDINATORS

Vincy Verghese  
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Ph. No. 8848838718  
@vincyverghese@jecc.ac.in

Archana S  
Assistant Professor  
Ph. No. 9447885422  
archanas@jecc.ac.in

## ELIGIBILITY

Faculty members ( Teaching/Non-Teaching) and PG/ Research Scholars from Engineering Colleges and Technical Institutions are eligible to apply.

## REGISTRATION FEE

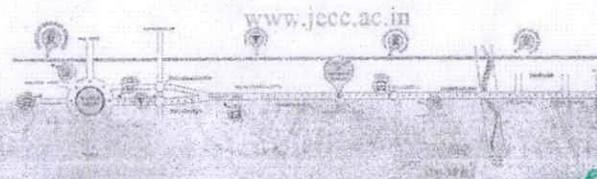
Faculty Members : Rs 2000/-  
Students: Rs 800/-

Fee can be remitted at the time of registration. Fee includes lunch, refreshments and course material. Travelling, accommodation and other expenses will have to be borne by participants. Accommodation can be provided on request.

Completed registration form should reach the conveners on or before 15-05-2018.

A scanned copy of the registration form to be either mailed to the co-ordinators or send through the google form.

## ROUTE MAP TO JYOTHI ENGINEERING COLLEGE



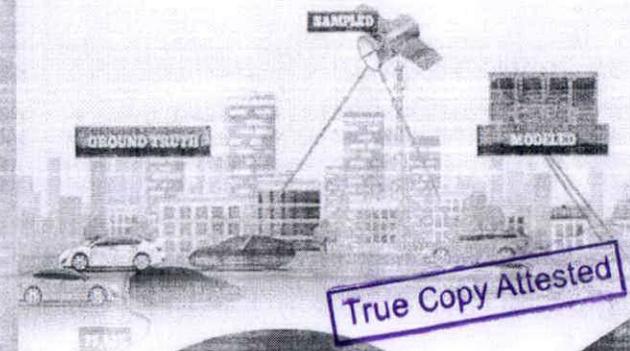
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www.jecc.ac.in

# 7 Day Short Term Training Programme on " Practical Approach to Urban Transportation Planning using CUBE Software"



20<sup>th</sup> to 26<sup>th</sup>  
May  
2018



Organised by

Department of Civil Engineering  
Jyothi Engineering College  
Affiliated with ISTE and IEDC



For further queries

FDP mail: [fdp@jecc.ac.in](mailto:fdp@jecc.ac.in)

College address:

Jyothi Engineering College  
Jyothi Hills, Vettikkattiri P.O.,  
Cheruthuruthy, Thrissur

Pin - 679531

Ph: +91 - 4884 - 259000

Fax: 04884-274777

E mail: [info@jecc.ac.in](mailto:info@jecc.ac.in)

Website: [www.jecc.ac.in](http://www.jecc.ac.in)

Who can apply:

- (a) Industry Professionals,
- (b) Faculty Members,
- (c) Research Scholars

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Registration Fee : ₹ 2000/-  
Research Scholars : ₹ 1500/-

Accommodation will be provided with nominal rates

To participate in the workshop, please register your particulars at <http://www.jecc.ac.in/hpc>

Last Date (Registration): 30<sup>th</sup> Apr 2018

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## Resource Persons

Rev. Fr. Dr. Jaison Paul Mulerikkal *Principal, JECC*  
Experts from CDAC, Pune

### CHIEF PATRON

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*Arch Bishop of Archdiocese of Thrissur*

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*Asst. Manager (F), JECC*

### ADVISORY COMMITTEE

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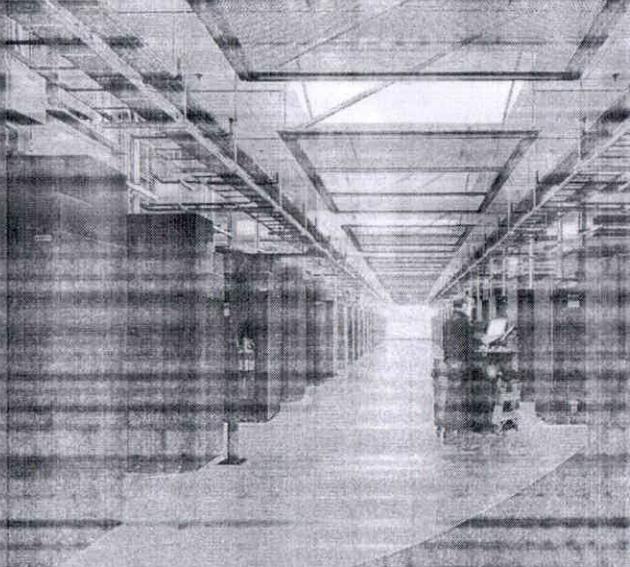
Er. Thomas Mathew,  
*Administrator, JECC*

Er. Boby Peter,  
*Asst. Administrator, JECC*

### CONVENORS

Dr. C K Raju  
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Five Day  
National Workshop on  
**HIGH PERFORMANCE COMPUTING**

7<sup>th</sup> to 11<sup>th</sup>  
May 2018

Organized by  
CDAC, Pune &

Jyothi Engineering College



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## Short Term Training Programme on “Practical Approach to Urban Transportation Planning Using CUBE Software” Jyothi Engineering College, Cheruthuruthy, Thrissur



Department of Civil Engineering along with ISTE and IEDC, Jyothi Engineering College, Cheruthuruthy, Thrissur organized a Thrissur 7 day Short term training programme on ‘Practical Approach to Urban Transportation Planning using CUBE Software’ during 20<sup>th</sup> May 2018 – 26<sup>th</sup> May 2018. Msgr. Fr. Thomas Kakkassery inaugurated the training program on 20<sup>th</sup> May 2018. Principal, Rev. Fr. Dr. Jaison Paul Mullerikkal presided the function. Assistant Manager (F), Rev. Fr. Joju Chiriyankandath, Administrator, Er. Thomas Mathew, Prof. & Dean NIT Calicut, Dr. M.V.L.R. Anjaneyulu also spoke on the occasion.

The program was attended by students and faculties from technical institutions across Kerala.

The experts for the training program were Dr. M.V.L.R. Anjaneyulu, Prof. NIT –C, Dr. Harikrishna M., Asst. Prof., NIT-C, Mr. Ansu V., Asst. Prof., GEC Calicut, Mr. Hari G.P, AGM, KMRL and Ms. Vamsee M, Citilabs. The experts covered the recent developments in urban transportation planning and various practical developments in Transportation Planning. Mr. Hari G. P., Additional General Manager (Urban Transport), K.M.R.L. gave an expert talk

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*[Signature]*

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on 'Public Transit Planning' as a part of this programme. There was a three day hands on workshop on CUBE Software that was highly appreciated by the participants.

The program was concluded on 26<sup>th</sup> May 2018. Rev. Fr. Dr. Jaison Paul Mullerickal, Principal, Rev. Fr. Joju Chiriyankandath, Assistant Manager, Er. Thomas Mathew, Administrator and Prof. S. Rathish, HOD, Civil, gave away the certificates to the participants in the valedictory function. The training gave an insight to the participants about the recent advancements and innovative solutions in transportation planning and was highly appreciated by the participants.

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**Short Term Training Programme on "Practical Approach to Urban Transportation Planning using CUBE Software"**

Organised by : Department of Civil Engineering, ISTE and IEDC

Jyothi Engineering College, Thrissur - 679531

**ATTENDANCE SHEET**

SL. NO.	NAME OF PARTICIPANTS	NAME OF INSTITUTION	DESIGNATION	20/5/2018		21/5/2018		22/5/2018		23/5/2018		24/5/2018		25/5/2018		26/5/2018		
				AN	FN	AN												
1	ANN GEORGE	Mar Baselios College, Nalanchira, Trivandrum	Faculty	AG	AG													
2	ASHIK K AZAD	College of Engineering, Puthanapuram	Faculty	AK	AK													
3	SARAH JOY	Muthoot Institute of Technology and Science	Faculty	SJ	SJ													
4	SERIN SARA ROY	Muthoot Institute of Technology and Science	Faculty	SR	SR													
5	VIVEK E M	Thejus Engineering College, Thrissur	Faculty	VE	VE													
6	Prof.S RATHISHI	Jyothi Engineering College, Cheruthuruthy	Faculty															
7	Prof. CYRIAC M G	Jyothi Engineering College, Cheruthuruthy	Faculty															
8	NEERAJA P G	Jyothi Engineering College, Cheruthuruthy	Faculty															
9	Dr. ANITHA JACOB	Jyothi Engineering College, Cheruthuruthy	Faculty															
10	ANJUM J	Jyothi Engineering College, Cheruthuruthy	Faculty		AJ	AJ	AJ											
11	ARCHANAS	Jyothi Engineering College, Cheruthuruthy	Faculty		AR	AR	AR											
12	ASWIN P V BAYAN	Jyothi Engineering College, Cheruthuruthy	Faculty															

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SL. NO	NAME OF PARTICIPANTS	NAME OF INSTITUTION	DESIGNATION	20/5/2018	21/5/2018		22/5/2018		23/5/2018		24/5/2018		25/5/2018		26/5/2018	
				AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
1	NIKHILA P	Jyothi Engineering College, Cheruthuruthy	Faculty													
4	RACHAN R	Jyothi Engineering College, Cheruthuruthy	Faculty													
5	SHINY SHAJAN	Jyothi Engineering College, Cheruthuruthy	Faculty													
16	VINCY VERGHESE	Jyothi Engineering College, Cheruthuruthy	Faculty													
17	JISHA AKKARA	Jyothi Engineering College, Cheruthuruthy	Faculty													
18	NISINI M ASHRAF	Jyothi Engineering College, Cheruthuruthy	Faculty													
19	AARCHA P S	College of Engineering, Trivandrum	PG Student													
20	AMAL A	College of Engineering, Trivandrum	PG Student													
21	<del>AMEENA SATHI</del>	College of Engineering, Trivandrum	PG Student													
22	ANOOP CHANDRAN	College of Engineering, Trivandrum	PG Student													
23	CHANTHU R	College of Engineering, Trivandrum	PG Student													
24	HIMA V	College of Engineering, Trivandrum	PG Student													
25	JINIT J M DCRUZ	College of Engineering, Trivandrum	PG Student													
26	<del>KAILAS PB</del> kailas PB	College of Engineering, Trivandrum	PG Student													
27	LAKSHMIT	College of Engineering, Trivandrum	PG Student													
28	MARLYN MARY VARGHESE	College of Engineering, Trivandrum	PG Student													
29	NAVEEN RJ	College of Engineering, Trivandrum	PG Student													

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SL. NO.	NAME OF PARTICIPANTS	NAME OF INSTITUTION	DESIGNATION	20/8/2018		21/8/2018		22/8/2018		23/8/2018		24/8/2018		25/8/2018		26/8/2018	
				AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN
60	PRAVEENA R A J	College of Engineering, Trivandrum	PG Student														
71	SIBIL P A V Y	College of Engineering, Trivandrum	PG Student														
72	SNEHA DINESH	College of Engineering, Trivandrum	PG Student														
13	SRUTHI LAKSHMI S J	College of Engineering, Trivandrum	PG Student														
24	VAISHNAVA K	College of Engineering, Trivandrum	PG Student														
35	AMEERA V U	Jyothi Engineering College, Cheruthuruthy	PG Student	← Absent →													
36	ARATHI A R	Jyothi Engineering College, Cheruthuruthy	PG Student														
37	ASWATHY K R	Jyothi Engineering College, Cheruthuruthy	PG Student														
38	BINCY B J	Jyothi Engineering College, Cheruthuruthy	PG Student														
39	CHANDNI DIVAKARAN P	Jyothi Engineering College, Cheruthuruthy	PG Student														
40	HERIN K J	Jyothi Engineering College, Cheruthuruthy	PG Student														
41	JEENA JOHNY	Jyothi Engineering College, Cheruthuruthy	PG Student														
42	JERRY SOMAN	Jyothi Engineering College, Cheruthuruthy	PG Student														
43	LEEJIYA JOSE	Jyothi Engineering College, Cheruthuruthy	PG Student														
44	MARJA FRANCIS	Jyothi Engineering College, Cheruthuruthy	PG Student														
45	MIDHUN T	Jyothi Engineering College, Cheruthuruthy	PG Student														
46	NAMITHA SUSAN JOSEPH	Jyothi Engineering College, Cheruthuruthy	PG Student														

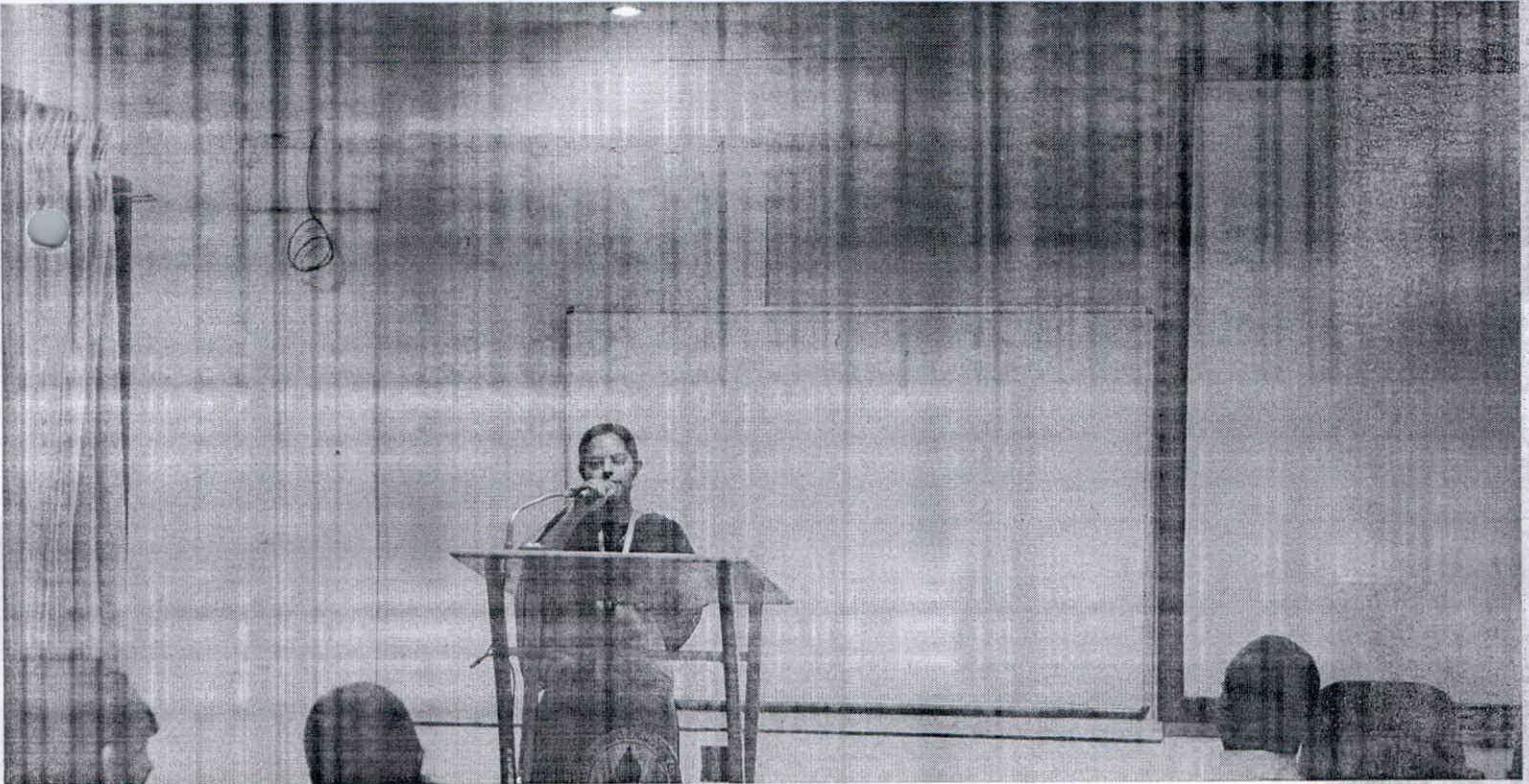
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SL. NO.	NAME OF PARTICIPANTS	NAME OF INSTITUTION	DESIGNATION	20/5/2018		21/5/2018		22/5/2018		23/5/2018		24/5/2018		25/5/2018		26/5/2018	
				AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN
X 47	NAVEENA BABURAJ	Jyothi Engineering College, Cheruthuruthy	PG Student	← Absent →													
X 48	NIVEA JOHN	Jyothi Engineering College, Cheruthuruthy	PG Student	Nivea	Nivea	Nivea	Nivea	Nivea	Nivea	Nivea	Nivea	Nivea	Nivea	Nivea	Nivea	Nivea	Nivea
49	NOBLE JOSE	Jyothi Engineering College, Cheruthuruthy	PG Student	Noble	Noble	Noble	Noble	Noble	Noble	Noble	Noble	Noble	Noble	Noble	Noble	Noble	Noble
50	ROSMY SEBASTIAN	Jyothi Engineering College, Cheruthuruthy	PG Student	Rosmy	Rosmy	Rosmy	Rosmy	Rosmy	Rosmy	Rosmy	Rosmy	Rosmy	Rosmy	Rosmy	Rosmy	Rosmy	Rosmy
X 51	SHAHANA H	Jyothi Engineering College, Cheruthuruthy	PG Student	← Absent →													
52	THASNEEM NADIRSHA	Jyothi Engineering College, Cheruthuruthy	PG Student	Thasneem	Thasneem	Thasneem	Thasneem	Thasneem	Thasneem	Thasneem	Thasneem	Thasneem	Thasneem	Thasneem	Thasneem	Thasneem	Thasneem
53	LEKSHMI KRISHNA	Jyothi Engineering College, Cheruthuruthy	PG Student	Lekshmi	Lekshmi	Lekshmi	Lekshmi	Lekshmi	Lekshmi	Lekshmi	Lekshmi	Lekshmi	Lekshmi	Lekshmi	Lekshmi	Lekshmi	Lekshmi
X 54	P RAJESH JAGOB	JEC		Rajesh	Rajesh	Rajesh	Rajesh	Rajesh	Rajesh	Rajesh	Rajesh	Rajesh	Rajesh	Rajesh	Rajesh	Rajesh	Rajesh
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● Practical Approach to  
Urban Transportation Planning using CUBE Software  
20-5-2018 to 26-5-2018

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## Introduction to Research through Research Methodology & Mathematics

05<sup>th</sup> July 2018 to 7<sup>th</sup> July 2018

Organized by  
Research & Development Department, JECC

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## Short Term Training Programme on Introduction to research through research methodology and mathematics

(05<sup>th</sup> – 07<sup>th</sup> July 2018)

Department of Research and Development

Jyothi Engineering College, Cheruthuruthy

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

**Description:** Three days Short Term Training Programme on Research Methodology and Mathematics.

**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:

A three day Short term training Programme on Research Methodology and mathematics was organized by the Department of Research and Development on 05th – 07th July 2018. 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

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with the research activities. Also the program would be helpful to the research scholars in carrying out the research activities in a systematic way.

On 05<sup>th</sup> 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 Jaison Paul Mulerikkal, Principal pointed the various opportunities for conducting research works. Er. Bobby 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 M Balagopalan 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 Mr. Shijoh V. He 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 06<sup>th</sup> morning Dr Anitha Jacob, addressed the participants. Her session focused on literature review process. She gave an outline of the various works involved in process of literature survey. She 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 07<sup>th</sup> morning Ms. Viji, Shivakumar addressed the participants. Their session focused on Inviting Grants for Research.

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The afternoon session was handled Fr. John Tharayil. His session was on numerical modeling and optimization techniques. He gave an introduction to optimization with relevant examples. The session was filled with the numerical methods involved in research problems.

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.

There were 25 participants for the programme. The participants expressed satisfaction about the overall conduct of the program.

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## Short Term Training Programme on Introduction to research through research methodology and mathematics

(05<sup>th</sup> – 07<sup>th</sup> July 2018)

Department of Research and Development

Jyothi Engineering College, Cheruthuruthy

### PARTICIPANT LIST

Sl. No.	NAME OF PARTICIPANT	COLLEGE	Department
1	Dr. Jaison Paul	Jyothi Engineering College	Principal, JECC
2	Prof. S. Rathish	Jyothi Engineering College	Civil Engineering
3	Dr. Anitha Jacob	Jyothi Engineering College	Civil Engineering
4	M.G. Cyriac	Jyothi Engineering College	Civil Engineering
5	Dr. Nidhi M	Jyothi Engineering College	Civil Engineering
6	Fr. Dr. A.K. George	Jyothi Engineering College	Computer Science Engineering
7	Dr. Vinith R	Jyothi Engineering College	Computer Science Engineering
8	Divya M Menon	Jyothi Engineering College	Computer Science Engineering
9	Dr. Adarsh N Gokul	Jyothi Engineering College	Computer Science Engineering
10	Thomas George K	Jyothi Engineering College	Computer Science Engineering
11	Dr. Jose P Therattil	Jyothi Engineering College	Electronics Communication Engineering
	Prof. Muralee Krishnan C	Jyothi Engineering College	Electronics Communication Engineering
12	Dr. Anoop V	Jyothi Engineering College	Electronics Communication Engineering
13	Annie P. Joseph	Jyothi Engineering College	Electronics Communication Engineering
14	Sindhu S	Jyothi Engineering College	Electronics Communication

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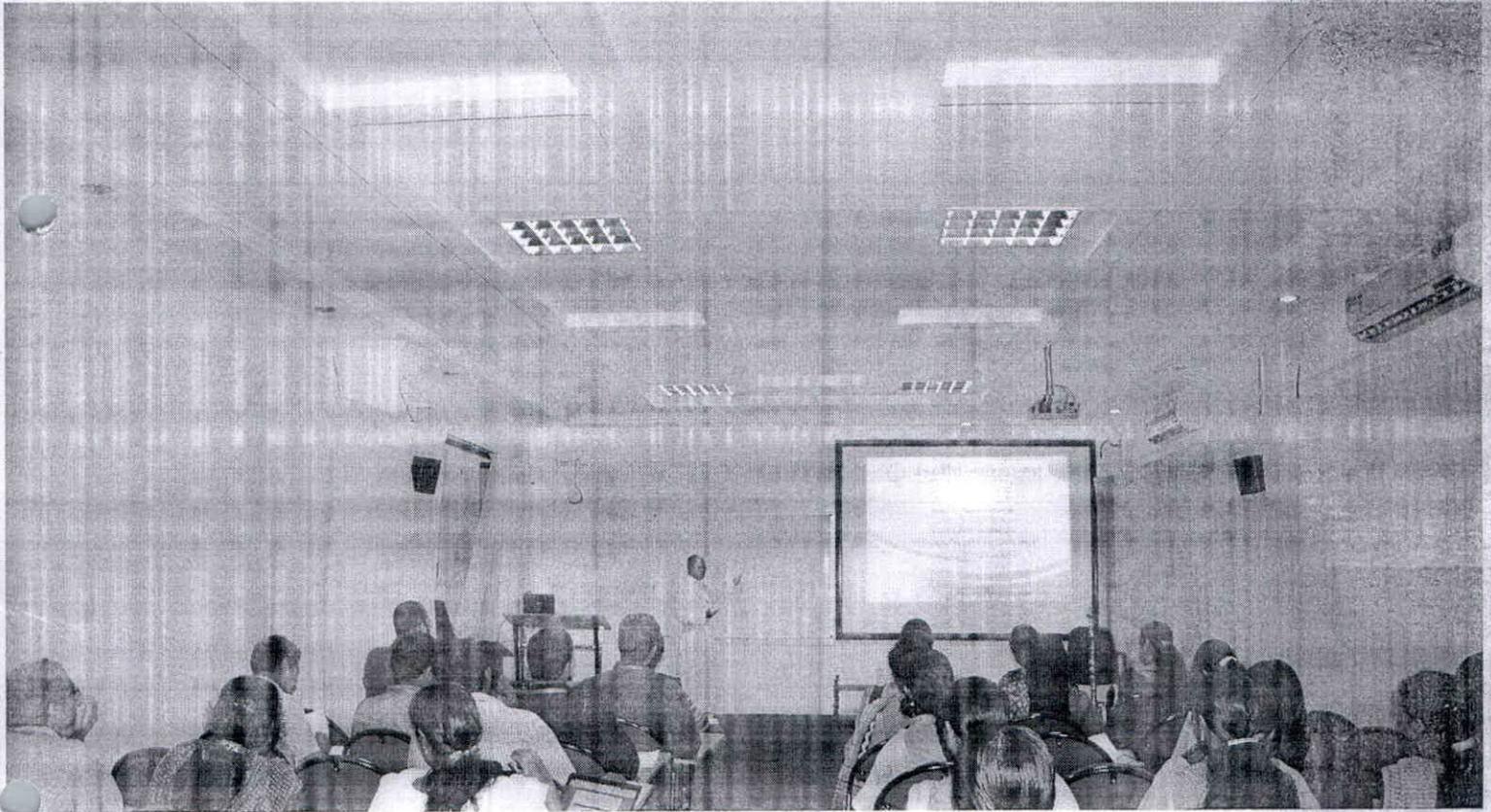
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			Engineering
15	Dr. Prajoon P	Jyothi Engineering College	Electronics Communication Engineering
16	Ratnan P.	Jyothi Engineering College	Electrical Electronics Engineering
17	Dr. Jarin T	Jyothi Engineering College	Electrical Electronics Engineering
18	Dr. Shijoh V	Jyothi Engineering College	Electrical Electronics Engineering
19	Anu Sunny	Jyothi Engineering College	Electrical Electronics Engineering
20	Jenson Jose	Jyothi Engineering College	Electrical Electronics Engineering
21	Dr. Biju P.L	Jyothi Engineering College	Mechanical Engineering
22	Prof. K.C. John	Jyothi Engineering College	Mechanical Engineering
23	Dr. George Rapheal	Jyothi Engineering College	Mechanical Engineering
24	Dr. David K.J	Jyothi Engineering College	Mechanical Engineering
25	Lawrance	Jyothi Engineering College	Mechanical Engineering

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Introduction to research through research methodology and mathematics  
05-07-2018 to 7-07-2018

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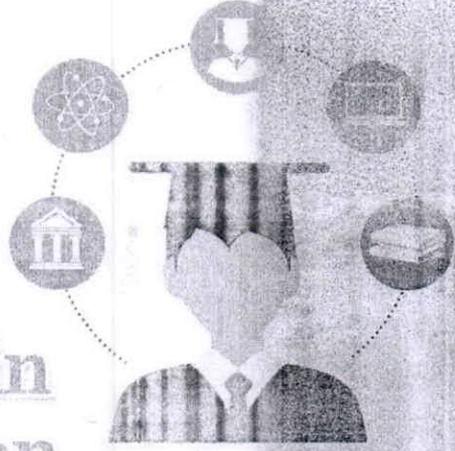
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Workshop on

## Pursuing Excellence in Engineering Education

10 Am @Decennial Hall

9<sup>th</sup> - 11<sup>th</sup> July 2018

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A faculty residential academic retreat Pursuing Excellence in Engineering Education

A faculty residential academic retreat was scheduled from 9 th - 11 th July 2018, at 'Nirmala Centre for Educational Spiritual and Theological Training (NESTT)', Muvattupuzha. The General Theme was Pursuing Excellence in Engineering Education. The retreat was scheduled from morning to night. On the first day the retreat included many topics like Team Building Exercise, Brief Orientation Note on SWOT Analysis of Jyothi was conducted by Er. Thomas Mathew, Administrator, Department Presentations on the Theme of Results Improvement. On the second day Dr Valson Thampu, Former Principal, St Stephan's College, Delhi delivered a good session on the Theme Pursuing Excellence in Higher Education. Fr Roy Vadakkan delivered a Brief Orientation on the Theme Discipline, Mar. Tony Neelankavil delivered a session on Archdiocesan Education Vision. On the third day Dr Joseph I Injody, Executive Director, RCBS gave a class on Change Management.

There were Cultural Events/ Quiz based on JEC & NBA in the night. The entire retreat was an eye opening in many areas. It really helped the staffs to plan efficiently for the new academic year so as to help the children excel in the their engineering education. The program got over on 11<sup>th</sup> afternoon after the make of Strategic Planning, Resolutions & Action Plan for the coming academic year.



True Confession

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**Jyothi Engineering College, Cheruthuruthy**  
**Attendance List of Faculties for the Academic Retreat on**  
**"Pursuing Excellence in Engineering Education" at NESTT,**  
**Muvattupuzha on 10th, 11th, 12th July 2018**

Sl. No.	Name	Designation	Dept
1	Fr. Roy Joseph Vadakkan	Assistant Manager (A&A)	
2	Fr. Dr. Jaison Paul	Principal	
3	Fr. Joju Chiriankandath	Assistant Manager Finance	
4	Er. Thomas Mathew	Administrator	
5	Er. Bobby Peter	Asst. Administrator	
1	Prof. Rathish S.	Professor & HOD	CE
2	Dr. Anitha Jacob	Associate Prof.	CE
3	Dr. Nidhi M	Associate Prof.	CE
4	M.G. Cyriac	Associate Prof.	CE
5	Jisha Akkara	Asst. Professor	CE
6	Neeraja P.G	Asst. Professor	CE
7	Anju M.J	Asst. Professor	CE
8	Aswin P Vijayan	Asst. Professor	CE
9	Vincy Verghese	Asst. Professor	CE
10	Shiny Shajan	Asst. Professor	CE
11	Fr. Dr. A.K. George	Professor & HOD	CSE
12	Dr. Vinith R	Associate Prof.	CSE
13	Divya M Menon	Associate Prof.	CSE
14	Dr. Adarsh N Gokul	Chief Librarian	CSE
15	Thomas George K	Asst. Professor	CSE
16	Aswathy Wilson	Asst. Professor	CSE
17	Anil Antony	Asst. Professor	CSE
18	Seenia Francis	Asst. Professor	CSE
19	Namitha T.N	Asst. Professor	CSE
20	Swapna B. Sasi	Asst. Professor	CSE
21	Shajju Paul	Asst. Professor	CSE
22	Bineesh M	Asst. Professor	CSE
23	Aneesh Chandran	Asst. Professor	CSE
24	Sobha Xavier P.	Asst. Professor	CSE
25	Dr. Jose P Therattil	Professor & HOD	ECE
26	Dr. Murallee Krishnan C	Dean (P.G. STUDIES)	ECE

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27	Dr. Anoop V	Associate Prof.	ECE
28	Dr. Prajoon P	Associate Prof.	ECE
29	Annie P. Joseph	Associate Prof.	ECE
30	Sindhu S	Associate Prof.	ECE
31	Shiny M.I.	Asst. Professor	ECE
32	Dipin Krishnan R.	Asst. Professor	ECE
33	Jinesh K.J.	Asst. Professor	ECE
34	Asha John	Asst. Professor	ECE
35	Rijo P.C	Asst. Professor	ECE
36	Nyni K.A	Asst. Professor	ECE
37	Ponmani Raja	Asst. Professor	ECE
38	Roshni Rajan	Asst. Professor	ECE
39	Shaicy P Shaji	Asst. Professor	ECE
40	Ratnan P.	Vice Principal	EEE
41	Dr. Jarin T	Associate Prof. & HOD	EEE
42	Dr. Shijoh V	Associate Prof.	EEE
43	Anu Sunny	Asst. Professor	EEE
44	Jenson Jose	Asst. Professor	EEE
45	Kapil Das K.S	Asst. Professor	EEE
46	Saritha P	Asst. Professor	EEE
47	Aswathy Rajan	Asst. Professor	EEE
48	Sreethumol M.V	Asst. Professor	EEE
49	Akhil A Balakrishnan	Asst. Professor	EEE
50	Jithin K Jose	Asst. Professor	EEE
51	Nisha P.V	Asst. Professor	EEE
52	Dr. Biju P.L	Professor & HOD	ME
53	Dr. David K.J	Associate Prof.	ME
54	Dr. George Raphael	Associate Prof.	ME
55	Praveen Raj	Asst. Professor	ME
56	Christy V. Vazhappilly	Asst. Professor	ME
57	Melvin Raj C.R.	Asst. Professor	ME
58	Nikhil N.S	Asst. Professor	ME
59	Suneeth Sukumaran	Asst. Professor	ME
60	Sreejith K	Asst. Professor	ME
61	Sukesh O.P.	Asst. Professor	ME
62	Hareesh N.V	Asst. Professor	ME
63	Nice Menachery	Asst. Professor	ME
64	Sheik Althab S	Asst. Professor	ME
65	Cijil B John	Asst. Professor	ME

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66	Arun Raj A	Asst. Professor	ME
67	Jithin K Kuriakose	Asst. Professor	ME
68	Anto Zacharias	Asst. Professor	ME
69	Priya Jose	Asst. Professor	BSH
70	Dr. M. Balagopalan	Professor	BSH
71	Jasmine Jose	Asst. Professor	BSH
72	Minu Jose	Asst. Professor	BSH
73	Smija Skaria	Asst. Professor	BSH
74	Sivakumar K.S.	Asst. Professor	BSH
75	Renju Francis	Asst. Professor	BSH
76	Nivya Wilson	Asst. Professor	BSH
77	Rich K.J	Asst. Professor	BSH
78	Viji E.P.	Asst. Professor	BSH
79	Bibin Joy	Placement & Training Officer	BSH
80	Nidhin Johnson	Asst. Professor	BSH
81	Suganthi	Office Staff	OFFICE
82	Franklin Francis C	Trade Instructor	CE
ONLY ON 10-7-2018			
1	Rachana R	Asst. Professor	CE
2	Diana Davis	Asst. Professor	CSE
3	Bindu K Rajan	Asst. Professor	ECE
4	Ambily Francis	Asst. Professor	ECE
5	Neethu Rose Thomas	Asst. Professor	ECE
6	Soumya C	Asst. Professor	EEE
7	Della David	Asst. Professor	EEE
8	Manoj Kumar V.K	Asst. Professor	ME
9	Archana S	Asst. Professor	CE
10	Nisha Sherief	Asst. Professor	ME

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*honnard*

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Pursuing excellence in Engineering Education  
09-07-2018 to 11-07-2018

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Rev. Fr. Roy Joseph Vadakkan,  
Asst. Manager (A & A), JECC

Rev. Fr. Joju Chiriyankandath,  
Asst. Manager (F), JECC

### ADVISORY COMMITTEE

Rev. Fr. Dr. Jaison Paul Mulerikkal,  
Principal, JECC

Er. Thomas Mathew,  
Administrator, JECC

Er. Bobby Peter,  
Asst. Administrator, JECC

### COORDINATOR

Dany Varghese,  
Dept of Computer Science & Engg. JECC  
9539130122

Jisha Akkara

Dept of civil Engineering, JECC  
9605089715

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### PRINCIPAL

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## Faculty Development Program

on  
**Innovative approach for  
effective  
implementation  
of student project and  
its documentation**

Sponsored By **ISTE**

7th to 21st  
Jan 2019

Organized By

**Civil & CSE Department**

### College address:

Jyothi Engineering College  
Jyothi Hills, Vettikkattiri P.O.,  
Cheruthuruthy, Thrissur  
Pin - 679531

Ph: +91 - 4884 - 259000

Fax: 04884-274777

E mail: info@jecc.ac.in

Website: www.jecc.ac.in

Registration Fee - 600 /-

### Who can apply:

Faculty members of Jyothi Engineering College/ Other Professional Colleges/ Professionals from industries.

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### Last Date for Registration:

16-01-2019 04:00 PM

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Jyothi Engineering College, Cheruthuruthy P.O., Thrissur, Kerala, India. Pin: 679531. Phone: +91-4884-259000  
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**FDP ON INNOVATIVE APPROACH FOR EFFECTIVE  
IMPLEMENTATION OF STUDENT PROJECT AND ITS  
DOCUMENTATION**

(17<sup>th</sup> – 21<sup>st</sup> January 2019)

Department of CIVIL and CSE

**Jyothi Engineering College, Cheruthuruthy**

**Objectives:**

- To inculcate basics of project implementation with due regard to formulation of project objective and observation of its fulfilment.
- To familiarize the fundamental parameters of project report there is abstract, chapters, conclusion, literature, reference and etc
- To familiarize international formats for project documentation like modern language association (MLA), APA (American Psychological Association), etc.
- To impart increase readability of participate.
- To familiarize the method of project report preparation using LATEX program.
- To improve the presentation skill of the participants.

**Description:** Five FDP on innovative approach for effective implementation of student project and its documentation.

This five-day FDP aims at introducing the various project parameters in accordance with its international formats being followed all-over the world which ultimately improves the effectiveness of the work in respect of its scientific orientation and readability. This FDP will provide opportunities for getting familiarize with all the methods and formalities being forward elsewhere which will invariably benefit the students. Preparation of project report in LATEX format will also be fully covered during the sessions with practical orientation in computer lab.

Faculty development Programme on innovative approach for effective implementation of student project and its documentation was organized by the Department of Civil and Computer science department on 17<sup>th</sup>, 18<sup>th</sup>, 19<sup>th</sup>, 20<sup>th</sup> and 21<sup>st</sup> of January 2019. The programme was organized in such a way that it would be beneficial for the Faculty members 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. On 17<sup>th</sup> 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. Fr. Dr. Jaison Paul Mularikkal, Principal pointed the various opportunities for conducting research works. 56 faculties from various department of Jyothi engineering college participated in this program. And give positive feedback also.

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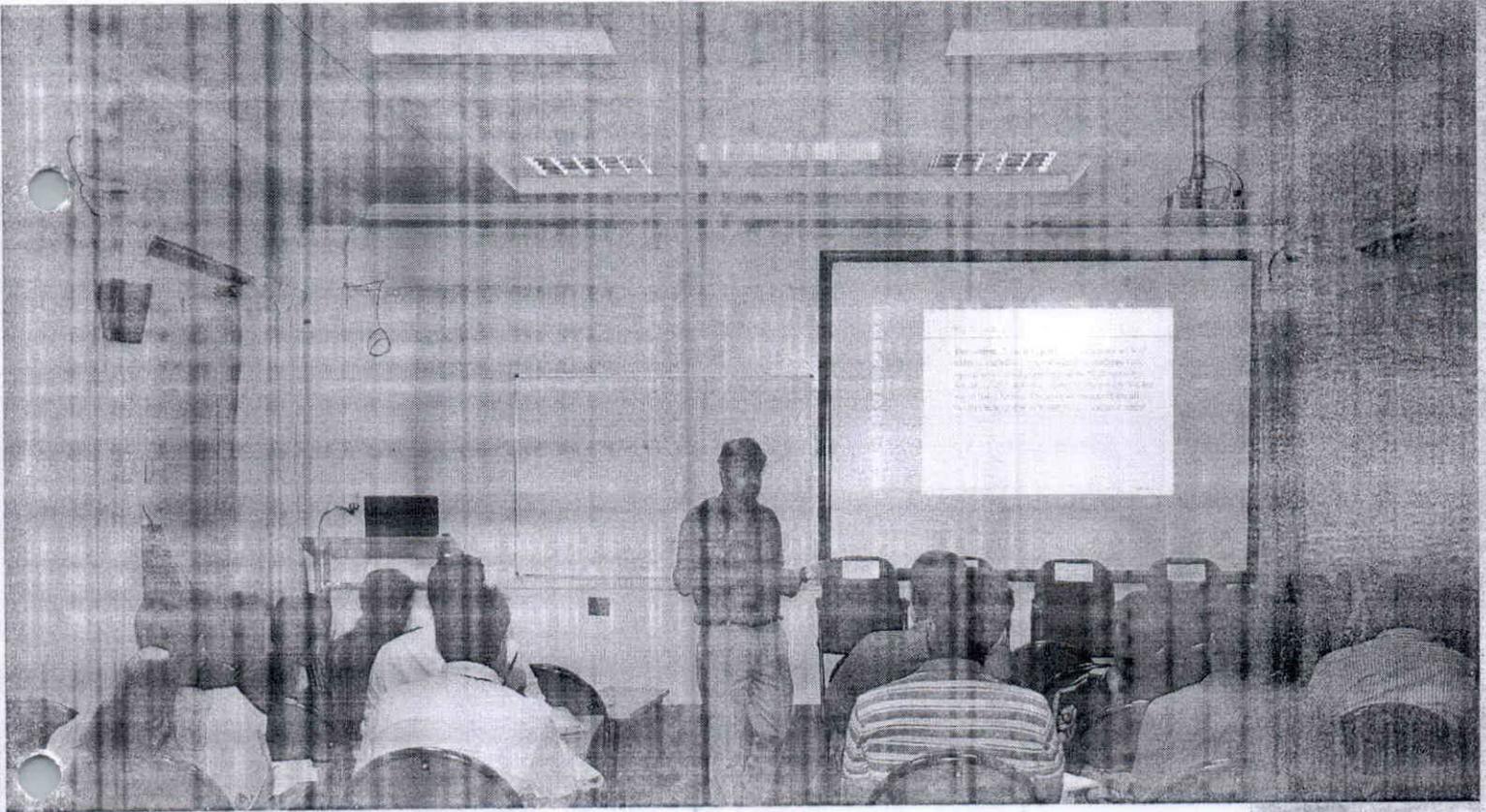
FDP ON INNOVATIVE APPROACH FOR EFFECTIVE IMPLEMENTATION OF STUDENT  
PROJECT AND ITS DOCUMENTATION  
17/1/2019 to 21/1/2019

Sl. No.	Name	Designation
1	Prof. S. Rathish	CE
2	Dr. Anitha Jacob	CE
3	M.G. Cyriac	CE
4	Neeraja P.G	CE
5	Anju M.J	CE
6	Jisha Akkara	CE
7	Sinu C.G	CE
8	Nisni M. Asharaf	CE
9	Nikhila A.P.	CE
10	Rachana R	CE
11	Sooraj Krishnan	CE
12	Anu Theresa K.R	CE
13	Joyal Scaria	CE
14	Shiny Shajan	CE
15	Lakshmi Divakaran	CE
16	Prof. Joseph Joshy C.J	CSE
17	Dr. Mohamed Abdul Wajeed	CSE
18	Dr. Raju C.K	CSE
19	Divya M Menon	CSE
20	Thomas George K	CSE
21	Aswathy Wilson	CSE
22	Anil Antony	CSE
23	Jyothis T.S	CSE
24	Seenia Francis	CSE
25	Namitha T.N	CSE
26	Swapna B. Sasi	CSE
27	Shaiju Paul	CSE
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29	Aneesh Chandran	CSE
30	Sobha Xavier P.	CSE
31	Majo John	CSE
32	Diana Davis	CSE
33	Jisna V.A	CSE
34	Reshma K.V.	CSE
35	Dany Varghese	CSE
36	Ninu Francis	CSE
37	Dayana Benny	CSE
38	Vinod K	CSE
39	Akhila B Nair	CSE
40	Shiny M.I.	EC
41	Dipin Krishnan R.	EC
42	Jinesh K.J.	EC
43	Abraham P.A	EC
44	Anu Sunny	EEE
45	Reshma Raj	EEE
46	Jenson Jose	EEE
47	Della David	EEE
48	Melvin Raj C.R.	ME
49	Nikhil N.S	ME
50	Suneeth Sukumaran	ME
51	Sreejith K	ME
52	Minu Jose	BSH
53	Smija Skaria	BSH
54	Sivakumar K.S.	BSH
55	Renju Francis	BSH
56	Nivya Wilson	BSH

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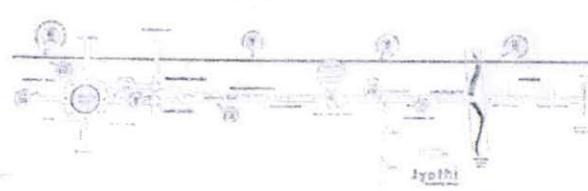
INNOVATIVE APPROACH FOR EFFECTIVE IMPLEMENTATION OF  
STUDENT PROJECT AND ITS DOCUMENTATION

17-1-2019 to 21-1-2019

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Cheruthuruthy P.O.- 679 531

42-A



### JYOTHI ENGINEERING COLLEGE

Jyothi Engineering College, Cheruthuruthy (JECC) is a new generation engineering college started in 2008 and managed by the Archdiocese of Thrissur. It is emerging as a centre of excellence in technical education. The college is approved by AICTE and is affiliated to APJ Abdul Kalam Technological University. It is an ISO 9001:2008 & NAAC Certified Institution with NBA accredited programmes. Now the college is offering courses in 6 disciplines.

### ABOUT THE DEPARTMENT

The Department of Computer Science and Engineering, has a strong team of faculty with high orientation towards research, offers Bachelors and Masters programmes in Computer Science. The department offers an intellectually stimulating learning environment and encourages mentoring of the students by its competent faculty members. The department aims to be an intellectually vibrant learning centre focused on quality education and multidisciplinary research with a view to prepare young, creative and entrepreneurial minds to lead the technological and economic change in the region.

### ABOUT THE WORKSHOP

Data Science is a game changer in the new era of explosive growth in the generation of data and the stupendously large amount of latent information that resides in it. The innate information from the enormous chunks of data generated serves to guide myriad areas of human life, from medicine to business to space technology. Data science deals with development computationally tractable methods to make sensible inferences and gather key and useful information from the qualitatively diverse and quantitatively enormous data. The course is designed to introduce the mathematical basics of data science and also impart the basic skills needed to practice it.



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

**PRINCIPAL**

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Cheruthuruthy P.O. - 679 531

Faculty Development Program  
on  
**THEORY AND PRACTICE  
OF DATA SCIENCE**

24<sup>th</sup> to 28<sup>th</sup>  
June 2019

Sponsored by  
A P J Abdul Kalam Technological University

Organized by  
Department of Computer Science & Engineering



### DECLARATION

The information provided is true to the best of my knowledge. If selected I agree to abide by the rules and regulations of the course and shall attend the course for the entire duration. I also undertake responsibility to inform the coordinator in case I am unable to attend this course.

Place: \_\_\_\_\_  
Date: \_\_\_\_\_ Signature of the Candidate

### SPONSORSHIP

Mr./Ms. .... is a member of Faculty of our Institution: ..... and is hereby sponsored for the Faculty Development Programme on 'Theory and Practice of Data Science' at Jyothi Engineering College, Cheruthuruthy on 24th to 28th June 2019. He/She is permitted to attend the workshop, if selected.

Official Seal Signature of the Sponsoring Authority

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### ADDRESS FOR COMMUNICATION

**Dr. SUNNY JOSEPH KALAYATHANKAL**  
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Thiruvananthapuram - 679 531  
Contact: 0471 256 175 020  
Email: sunny@jyothi.ac.in

### ORGANIZING COMMITTEE

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Patrons:  
Fr. Roy Joseph Vadakkan, Asst Manager.  
Er. Thomas Mathew, Administrator  
Er. Bobby Peter, Assistant Administrator  
Lt Col Jacob Ed (retd), Assistant Administrator

Organizing Chairman:  
Fr. Dr. Jaison Paul Mulerikkal CMI, Principal  
Convenor  
Fr. Dr. A. K. George CMI, HoD, CSE  
Co-ordinators:  
Ms. Aswathy Wilson, Asst. Professor, CSE  
Mr. Fepslin Athish Mon S, Asst. Professor, CSE  
Executive Committee:  
 Dr. Vinith R  
 Ms. Divya Menon  
 Ms. Swapna B Sasi  
 Mr. Unnikrishnan P

### CONTACT PERSONS

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Mob: +91 944 636 51 04  
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Mr. Fepslin Athish Mon S, Asst. Professor, CSE  
Mob: +91 944 242 24 29  
Email: fepslinathishmons@jecc.ac.in

### ELIGIBILITY

The programme is open to all Faculty, Research scholars from AICTE approved Engineering colleges. Participants from industries are also welcome. The total number of participants is limited to 40 out of which 25 will be from other colleges selected on a first come, first served basis.

### REGISTRATION FEES (REFUNDABLE)

Participants: Rs 500/-  
The Registration fees will be refunded after the completion of the programme. Registration can be done online. For details visit  
Website: [www.jecc.ac.in](http://www.jecc.ac.in)  
Direct link: <https://tinyurl.com/tpds2019>  
For online transfer of registration fees  
IFSC Code: FDRL0001525  
Account No: 15250100017593

### FACILITIES

Lunch and refreshments will be provided. Hostel facilities are available for outstation participants on request.

### IMPORTANT DATES

Last date of online registration : 07/06/2019  
Information about selection : 10/06/2019

A-2-B



# Jyothi Engineering College

Approved by AICTE  
Approved by APJ Abdul Kalam Technological University  
Approved by UGC  
Approved by State Council of Higher Education, Kerala  
Approved by State Council of Technical Education, Kerala  
Approved by State Council of Vocational Education, Kerala  
Approved by State Council of Distance Education, Kerala  
Approved by State Council of Open Education, Kerala  
Approved by State Council of Correspondence Education, Kerala  
Approved by State Council of Part-time Education, Kerala  
Approved by State Council of Evening Education, Kerala  
Approved by State Council of Summer Session, Kerala  
Approved by State Council of Winter Session, Kerala  
Approved by State Council of Rainy Season, Kerala  
Approved by State Council of Postgraduate Education, Kerala  
Approved by State Council of Research Education, Kerala  
Approved by State Council of Extension Education, Kerala  
Approved by State Council of Continuing Education, Kerala  
Approved by State Council of Lifelong Learning, Kerala  
Approved by State Council of Quality Education, Kerala  
Approved by State Council of Accessible Education, Kerala  
Approved by State Council of Inclusive Education, Kerala  
Approved by State Council of Open Access Education, Kerala  
Approved by State Council of Open Source Education, Kerala  
Approved by State Council of Open Access Education, Kerala  
Approved by State Council of Open Source Education, Kerala

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

APJ Abdul Kalam Technological University sponsored

Five Day Faculty Development Program on

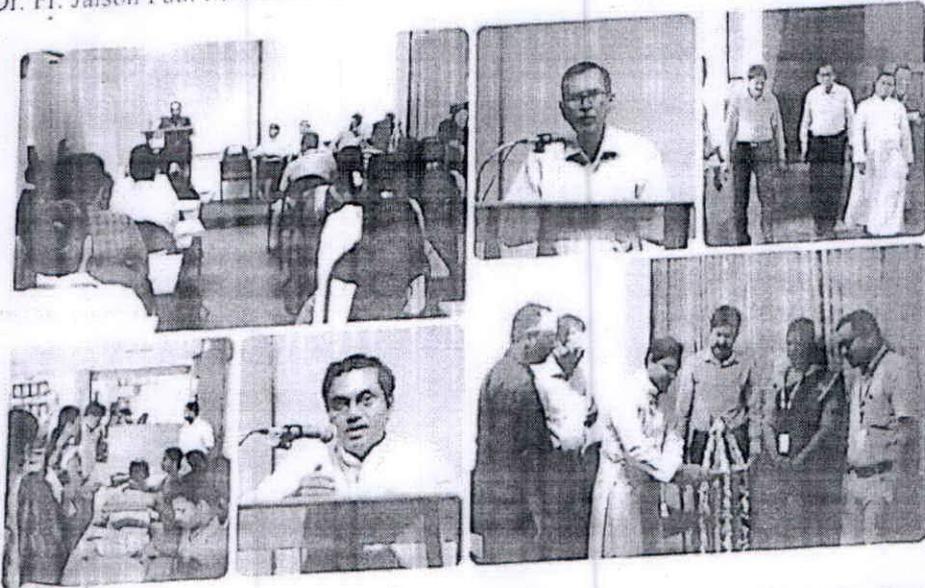
## THEORY AND PRACTICE OF DATA SCIENCE

### Program Report

The department of CSE of Jyothi Engineering College conducted five days APJ Abdul Kalam Technological University sponsored faculty development program on theory and practices of data science on 24<sup>th</sup> to 28<sup>th</sup> June 2019. The sessions were handled by eminent resource persons from industry and academic research institute. Total 30 faculties from KTU affiliated colleges got benefited

The registration for FDP was started on 20<sup>th</sup> may 2019 and the information is shared with all KTU affiliated college through online/offline. Total we had 42 registrations from other colleges and 15 registrations form our institute. Since team size is limited to 30 participants, the list is shortlisted based on first come first serve basis. Finally 20 participants from 11 KTU affiliated colleges and 10 participants from our institute got benefited. At the time of registration, the detail program schedule along with welcome kit (Includes File, Notepad & Pen) is given to the participants.

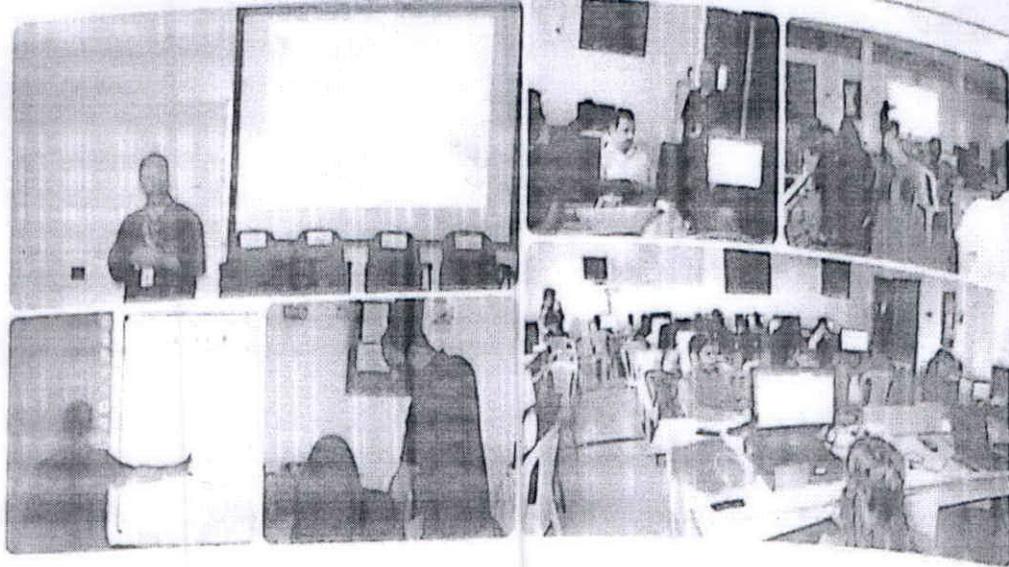
The inauguration ceremony was started at 9.30am on 24<sup>th</sup> June 2019 and inaugurated by Dr. Fr. Jaison Paul Mullerikal CMI, Principal, Jyothi Engineering College.



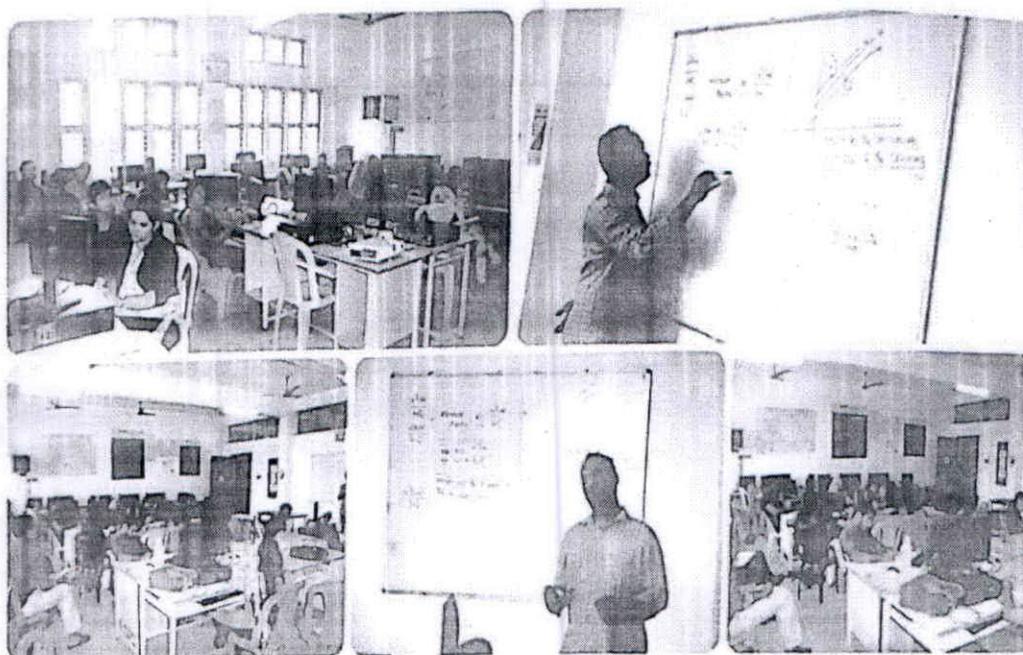
The first day sessions was handled by Dr. Vinith R on the topics in Introduction to data science, Linear Algebra and its applications in Data Science and Essential Probability

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PRINCIPAL  
Jyothi Engineering College  
Cheruthuruthy P.O. - 679 531

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The second day of FDP was started with the Hands-on Session by Dr. Vinith R on Essential Programming Tools which includes the topics (Core Python, Numpy, Scikit-learn Data Visualization Using Python, Introduction to Jupyter Notebook.) Following the hands-on session, we had a technical session on Basics of Data Analytics Linear & Logistic Regression, Clustering-KMeans and Heirachical Clustering.

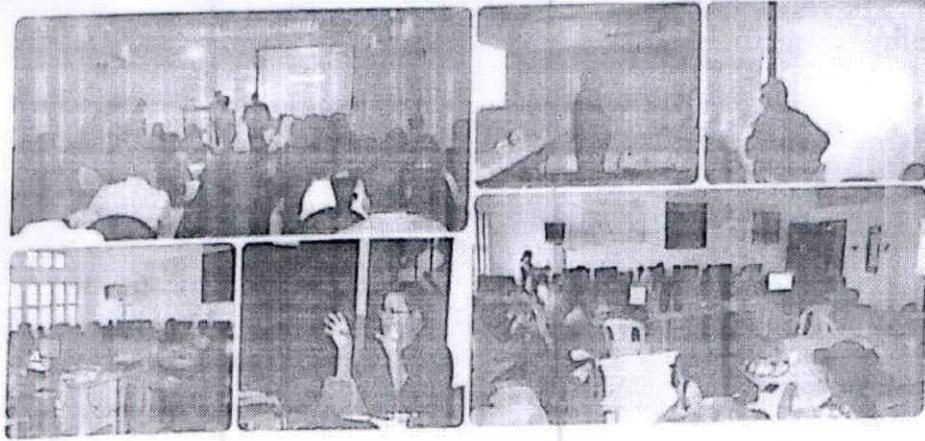


On the third day of FDP, Dr. Santosh Kumar Nanda, Lead Architect – Artificial Intelligence at TonkaBI had a session on Need of Artificial Intelligence and Applications of Data science in industry. Following the introductory session, he also gives hands-on session based on ongoing project on his industry.

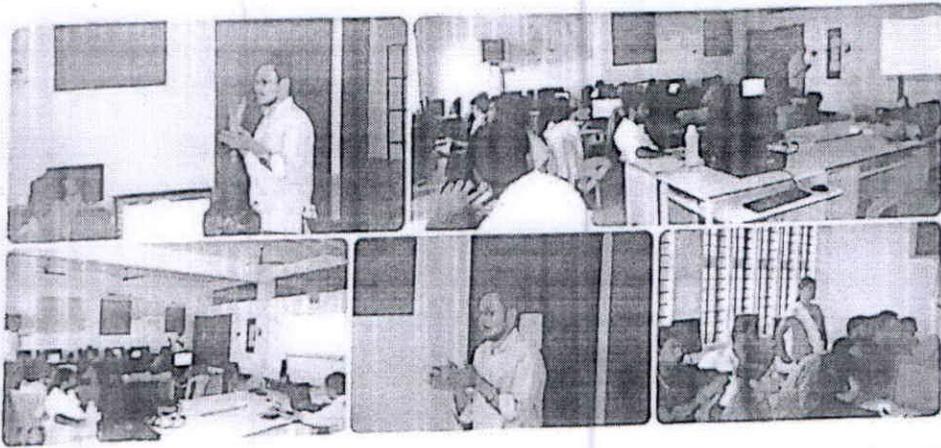
The fourth day of FDP was handled by Mr. Manu Madavan, research scholar, NIT Calicut on Machine Learning methods and also visualizes the scope of research in the field of data science

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On the Fifth day, the hands-on session in data science programming was handled by Mr. Manu Madavan. Following the hands-on session, Dr. Vinith R had summarized and concluded the technical concepts of theory and practices in data science.



The FDP was concluded with a valedictory ceremony lead by Rev. Fr. Roy Joseph Vadakan, Campus Head & Assistant Manager, Jyothi Engineering College and the participation certificates was distributed to all participants. The participants happily shared their feedbacks and we had a group photo session.



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*(Signature)*  
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Jyothi Engineering College, Cheruthuruthy  
 Department of Computer Science & Engineering

(41)

FIVE DAY LEE SPONSORED FDP ON  
 THEORY AND PRACTICE OF DATA SCIENCE

Date: 24/6/19  
 Time: 9 AM  
 Venue: Insignia Hall

Sl No	Name	Name of the College	KTU ID	Signature
1	Maritha. A.S.	Malabar College of Engineering & Technology	KTU-F34098	<i>[Signature]</i>
2	Venitha Veejanathan	Malabar college of Eng. & Tech	KTU-F34097	<i>[Signature]</i>
3	Dr Raji. C.G	M.E.A Engineering college, Perinthalam	KTU-F33709	<i>[Signature]</i>
4	Saleena T.S	S.S College, Areekode		<i>[Signature]</i>
5	Ayush Sinha	Municipal institute of tech.		<i>[Signature]</i>
6	Vipin K M	veehucollege of Engineering & Technology	KTU-F1966	<i>[Signature]</i>
7	Arun Pinnay Sunny	NCERC	KTU-F24738	<i>[Signature]</i>
8	Thomas George K	Jyothi Engg. college	KTU-F13357	<i>[Signature]</i>
9	ANIL ANTONY	JYOTHI ENGG.	KTU-F13265	<i>[Signature]</i>
10	Dany. Varghese	Jyothi Engg.	KTU-F21041	<i>[Signature]</i>
11	Scenia Francis	JECC	KTU-F13255	<i>[Signature]</i>
12	Nanitha P N	JECC	KTU-F13521	<i>[Signature]</i>
13	Aneesh Chandran	JECC	KTU-F13525	<i>[Signature]</i>
14	Jebin R Oliver	Vidya Academy		<i>[Signature]</i>
15	Jyotsna E	Royal College of Engg	KTU-F30988	<i>[Signature]</i>
16	Nowshad. M.U	)	KTU-F37922	<i>[Signature]</i>
17	Aleena Xavier T	Amal Jyothi	KTU-F3488	<i>[Signature]</i>
18	Dr. Ramani Bai V	Vidya Academy, Thissur	KTU-F32404	<i>[Signature]</i>
19	Sandy Joseph	RSET, Kochi	KTU-F12803	<i>[Signature]</i>
20	Meharban MS	RSET, Kochi	KTU-F27884	<i>[Signature]</i>
21	DIVYA R	SCEIT, Kodakkal	KTU-F3400	<i>[Signature]</i>

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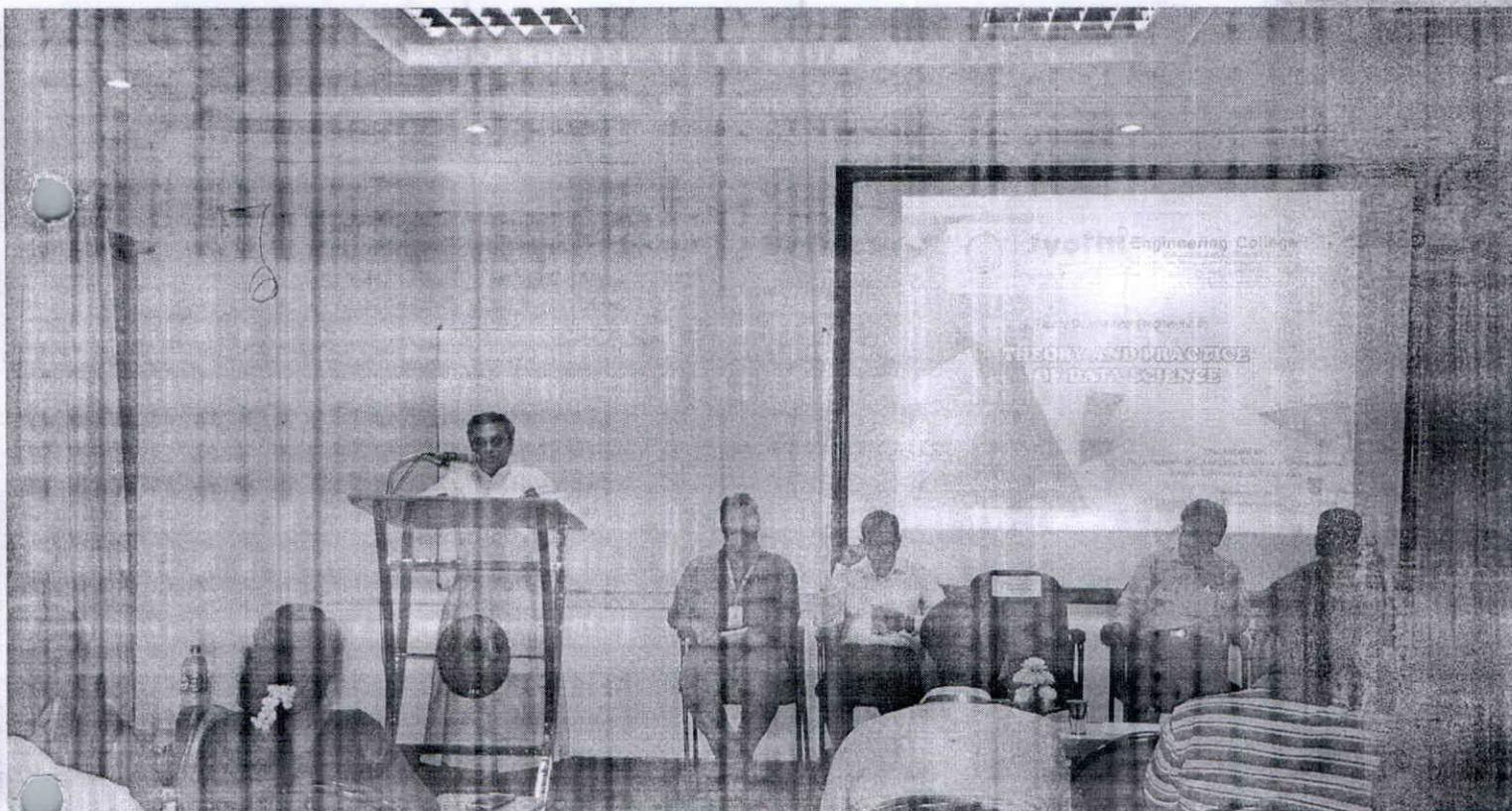
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22	Sheha George	UEC, Thissam	KTU-F30688	<i>[Signature]</i>
23	Divya M. Menon	EECC	KTU-F13599	<i>[Signature]</i>
24	Anu.T.P	JCET	KTU-F2433	<i>[Signature]</i>
25	N. Sasuraj. K.R	NCERC	KTU-F1977	<i>[Signature]</i>
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*[Signature]*  
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42-b



FDP ON THEORY AND PRACTICES OF DATA SCIENCES  
24-6-2019 TO 28--2019

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*[Signature]*  
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Faculty Development Programme  
On

# OUTCOME BASED TEACHING AND LEARNING PEDAGOGIES IN ENGINEERING

1-JULY-2019 to 8-JULY-2019



CREATING TECHNOLOGY  
LEADERS OF TOMORROW  
ESTD 2002

## Jyothi Engineering College

AACSB accredited college with NAAC Accredited Programmes

Approved by AICTE & affiliated to APJ Abdul kalam Technological University

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

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JYOTHI ENGINEERING COLLEGE, CHERUTHURUTHY

(01-07-2019 to 08-07-2019)

"Outcome based teaching and learning pedagogies in Engineering - DO IT - 2019" - Report

DO IT: The DO IT acronym stands for the four steps in Olson's\* process:

1. Define the problem.
2. Open your mind to consider many diverse solutions/ideas.
3. Identify the best solution.
4. Transform.

\*Robert Olson developed the DO IT model and published it in his 1986 book, "The Art of Creative Thinking."

(Ref: <https://sites.google.com/a/sas.edu.sg/creativity-in-the-context-of-education/idea-generation-tools/do-it> )

Modus Operandi: Input sessions are meant to Define the problem. Open your mind to consider many diverse solutions/ideas during group discussions. Identify the best solution(s) at the end of group discussion and present it at the wider group to have consensus. Transform JEC by implementing our resolutions during next academic year.

The faculty development program Outcome based teaching and learning pedagogies in Engineering organised by Jyothi Engineering College, Cheruthuruthy is mainly designed for JECC staff to understand why shaping our mind is important for creating eminent and ethical leaders through quality professional education with emphasis on holistic excellence. The program started at 9.30 am(01/07/2019) with the Orientation Talk by Dr Chikku Abraham, Vice Principal, MITS, Kochi. The topic of the talk was Journey from good to great. The second session was handled by Fr. Dr. Jaison Paul Mulerikkal CMI, (Principal JECC).Fr. Jaison explained about Core Teaching & Learning, Content Preparation and Class Delivery.



The second session was handled by Rev.Fr. Roy Joseph Vadakkan (Secretary & Assistant Manager -academics and Administration-JECC). It was a general Session/Q&A and the

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session was very interesting. From 2pm to 4.15 pm, the session was Group Discussion on Session 1&2 and Common Presentation of Group Reports. This session was coordinated by group leaders. Day two started with a session on Mentoring & Remedial, Student relations and Parent relations/PTA and it was handled by HOD-CSE. From 11am to 12 pm Dr.Jarin(HOD-EEE) was given a talk on Accreditation, Documentation & Quality Assurance activities for one hour, And after that it was a general Session/Q&A handled by Msgr. Thomas Kakkassery (The manager, JECC). From 2pm to 4.15 pm session was Group Discussion on Session 3&4 and Common Presentation of Group Reports. This session was coordinated by group leaders. Day 3 was for self study. Day four started with a session on Internal assessment, Assignments and Series Tests/Retests and it was handled by Dr. Jose P Therattil(HOD-ECE). From 11am to 12 pm Prof M G Cyriac was given a talk on Projects & Seminar, Design + Final projects and Seminars for one hour. From 12 to 12.30 pm it was a general Session/Q&A handled by Sports/Cultural Committee. Cultural/Sports committees published detailed schedule for the Staff Talent Evening. From 2pm to 4.15 pm session was Group Discussion on Session 5&6 and Common Presentation of Group Reports. This session was coordinated by group leaders. On staff talent evening there were Sports,Cultural Programs for staff and Dinner was arranged by Jyothi engineering college. Day five started with a session on Attendance & General Discipline and it was handled by Prof. Ratnan P(V P, JECC). From 11am to 12 pm Dr.Jarin(HOD-EEE) was given a talk on Accreditation, Documentation & Quality Assurance activities for one hour. From 12 to 12.30 pm it was a general Session/Q&A handled by Er.Thomas Mathew(Administrator, JECC). From 2pm to 4.15 pm session was Group Discussion on Session 7&8 and Common Presentation of Group Reports. This session was coordinated by group leaders. Day six started at 9.30 am with the Orientation Talk by Prof. Vineeth Paleri, Department of Computer Science and Engineering, NIT, Calicut. The topic of the talk was Research culture, publications, patents and funded projects. From 12 to 12.30 pm it was a general Session/Q&A handled by Director of research. From 2pm to 4.15 pm session was Group Discussion on Session 9 and Common Presentation of Group Reports. This session was coordinated by group leaders. Day four started with principal's address. The session was from 10 am to 10.30 am. Departmental Advisory Committee Meetings held from 11am to 12 pm. Principal Fr. Dr. Jaison Paul Mulerikkal invited faculty members for open discussion for the betterment of Jyothi. Several faculty members shared their general feedback regarding the Academic Retreat Programme. FDP came to an end at 12.15 pm.

Co-ordinator  
DO IT - 2019

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Cheruthuruthy P.O.- 679 531

**'DO IT' -ACADEMIC RETREAT 2019 - (01/07/2019 - 08/07/2019) - GROUPS**

Sl No	Group 1	Group 2	Group 3	Group 4
1	Vincy Vargese (Leader)	Vivek Lukose (Leader)	Jenson Jose (Leader)	Manojkumar V K (Leader)
2	Dr. Biju P.L	Fr. Dr. A.K. George	Fr. Roy Joseph Vadakkan	Fr. Dr. Jaison Paul
3	Er. Thomas Mathew	Er. Bobby Peeter	Prof. S. Rathish	Lt. Col. (Retd.)Jacob E.D
4	Dr. U. Lazar John	Ratnan P.	Prof.Lawrance C A	Dr. David K.J
5	Dr. Jarin T	Prof. Fr. John Tharayil	Dr. Baby C.B	Dr. Usha Menon
6	Raghavan K	Dr. Sr. Rose Anitha	Prof. Fr. George Plassery	Dr. Jose P Therattil
7	Davis Padical	Annie P. Joseph	Dr. Prajoon	Nidhin Johnson
8	Dr. Adarsh N Gokul	M.G. Cyriac	Sheik Afthab S	Fr. David Nettikkadan
9	Dr. George Raphael	Unnikrishnan P	Swapna B. Sasi	Hareesh N.V
10	Bibin Joy	Nikhil N.S	Jasmine Jose	Drisya M.K
11	Dr. Nivitha Varghees	Shiny Shajan	Mr. Jestine J Thanickal	Viji E.P.
12	Thomas George K	Nisha P.V	Anil Antony	Dr. Sreekumar
13	Shaiju Paul	Dr. Vinith R	Fepslin Athish Mon	Bineesh M
14	Ponmani Raja	Aneesh Chandran	Jinesh K.J.	Dany Varghese
15	Dr. Shijoh V	Dr. Anoop V	Akhil A Balakrishnan	Dipin Krishnan R.
16	Dr. Deepanraj	Rijo P.C	Suneeth Sukumaran	Kapil Das K.S
17	Christy V. Vazhappilly	Jithin K Jose	Cijil B John	Praveen Raj
18	Nice Menachery	Melvin Raj C.R.	Sivakumar K.S.	Jithin K Kuriakose
19	Anto Zacharias	Sukesh O.P.	Dr. Agnes Anto C	Rich K.J
20	Anju M.J	Dr. Nidhi M	Aswathy Wilson	Neeraja P.G
21	Namitha T.N	Archana S	Sindhu S	Seenia Francis
22	Shiny M.I. □	Reshma K.V.	Ambily Francis	Soumya C
23	Neethu Rose Thomas□	Nyni K.A	Della David	Roshni Rajan
24	Aathira K.V	Anu Sunny	Ninu Francis	Aswathy Rajan
25	Renju Francis	Nisha Sherief	Minu Jose □	Divya M Menon
27	Raghavan N.K	Suganthi T	K.T. Velayudhan	Varghese V.P
28	Reshma	George Kunjuvareed	Geeson K Varghese	George C.J
29	Shima Paul	Anthony C.P	Vini P.	Parameswaran K
30	Snitha Thomas	Franklin Francis	Jophy P.J	Sudheesh C.N
31	Binoj V.J.	Jesmi Jinto	Varsha Varghese	Pradeesh C.G.
32	Jefferin Jose	Aneesh P.B	Abdul Saleem N.M.	Nithil Jose
33	Baji Jose	Eleesa Davi	Vishnu E.G	Saritha N
34	Rejitha C.K	Joseph V.K	Davis K.T	Shaju C.A.
35	Baby Koola	Majeendran K.	Jaison M.J.	Girish C
36	Manija M	Davis C.C.	Shijin K.M	Latha S
37	Tomy Anto	Girishkumar N.G	Vidya K.	Sr. Lincy
38	Dinesh M.V	Laiju P Thomas	Lijo T.J	Abhilash K
39	Ragi Sivadas	Vinod K	Akhila B Nair	Syamala C
40	Sr. Jessy	Joseph P.J	Guruvayoorappan V	Xavier
41	Murali	Savitha K V	Geevert	Aloshias Linjo Jose
42	Sajanraj T D	Deepa Merlin Dixon	Sr. Annie	

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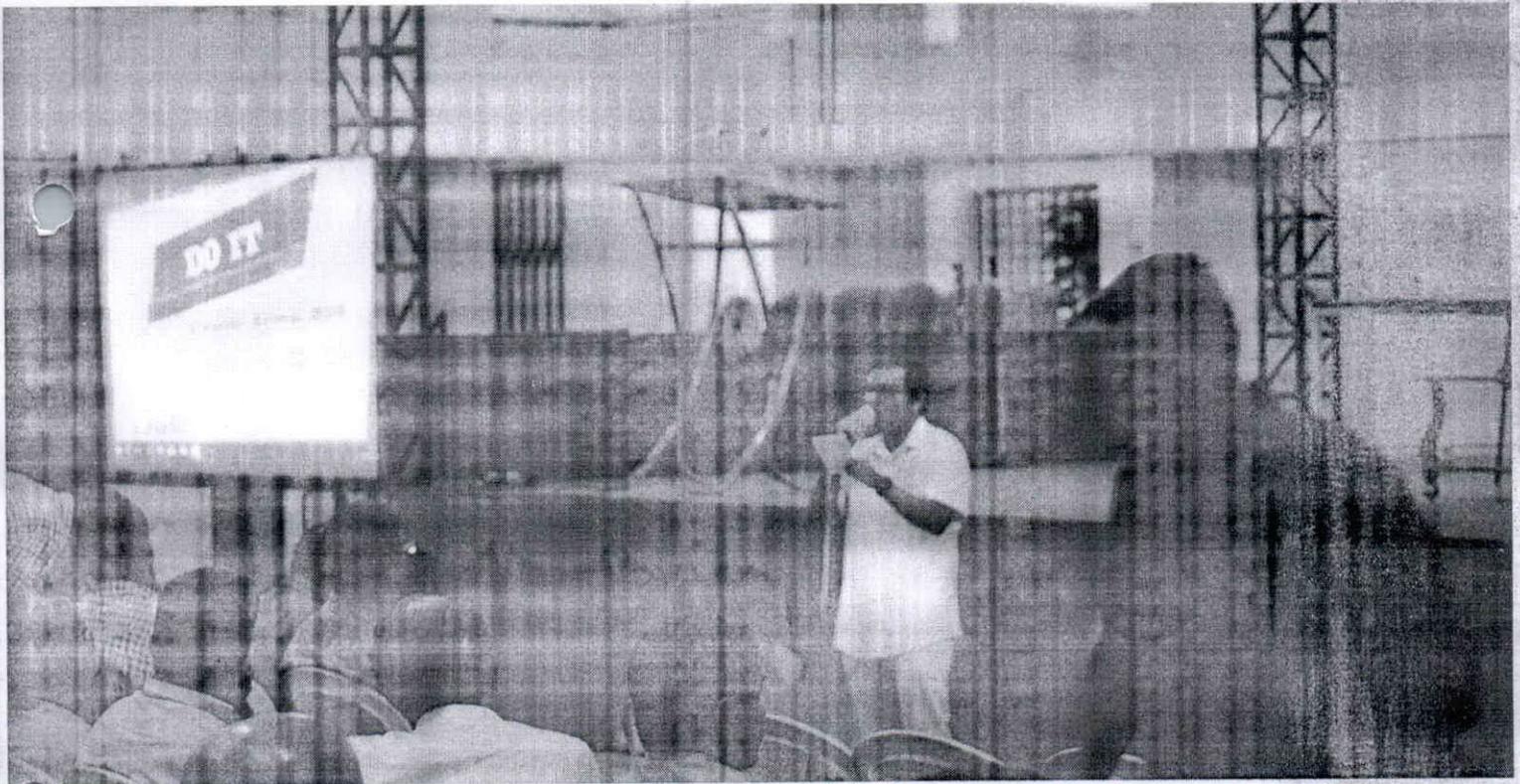
Jyothi Engineering College, Cheruthuruthy		
Orientation Programme for New Staff		
03rd August 2019		
Sl.No.	Staff Name	Sign.
1	Lufiya George	
2	Rakendu P S	
3	Vismay M Nair	
4	Megha G	
5	Shima Paul	
6	Aloshius Ligin Jose	

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Outcome based teaching and learning pedagogies in  
Engineering  
1-7-2019 to 8 7- 2019

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## JYOTHI ENGINEERING COLLEGE

Jyothi Engineering College, Cheruthuruthy (JECC) is a new generation engineering college started in 2002 and managed by the Archdiocese of Thrissur. It is emerging as a centre of excellence in technical education. The college is approved by AICTE and is affiliated to APJ Abdul Kalam Technological University. It is an ISO 9001:2008 & NACC Certified Institution with NEA accredited programmes. Now the college is offering courses in 6 disciplines.

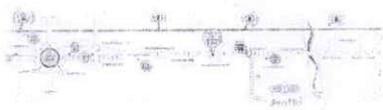
### DEPARTMENT OF ECE

The Electronics & Communication Engineering Department started functioning in the year 2002. The department is provided with all modern equipments and facilities in the labs. The department has conducted various number of Seminars and National level programs for the faculty and students. The department is offering UG and PG Programmes where the UG programme is NBA accredited. Students of the department have achieved remarkable academic performance and good number of placements under the guidance of expert faculty.

### ABOUT THE WORKSHOP

The main objectives of the programme is to enhance the knowledge of faculty in academic and research innovations in the area of VLSI, embedded technologies and its application in biomedical systems.

### HOW TO REACH THE COLLEGE



### The Sessions will be handled by:

- Dr. Mahesh Raveendranatha Panicker, Professor, IIT Palakkad,
- Dr. Kurian Alappat, Assistant Professor, Jubilee Mission Medical College & Research Institute,
- Dr. Yuvaraj V Associate Professor, Sahrdaya College of Engineering and Technology
- Mr. C. Karunakaran, Research Associate, Vellore Institute of Technology (VIT)
- Dr. D. Nirmal Associate Professor, Karunya University
- Mr. Jinesh K J Asst Professor, Jyothi Engineering College

### PROGRAMME OUTLINE

- Lecture titled "Diagnostic Ultrasound Imaging - Journey from standalone system to being a stethoscope"
- Lecture titled "Additive manufacturing applications in medical field".
- Application of Biomedical Engineering and Nanomedicine
- Lecture on Introduction to LabView and Hands on training on "Industry Application of LabView".
- Lecture on Biomedical Solutions: Integrating New Chips, Packages, and Modules
- Hands on training on Embedded system in Biomedical Applications

### Vision of the Department

Create eminent and ethical leaders in the field of Electronics and Communication through quality professional education to excel in academia and industry.

### Mission of the Department

Provide theoretical and practical knowledge through quality education and life skills training to make competent graduates with leadership and social commitment.

To impart entrepreneurial orientation and motivation for research among the students through knowledge transfer between industrial, academic & research institutions.

## Faculty Development Programme

on

'Emerging trends in VLSI, Embedded systems and its application in Biomedical sector'

Organized

by

Dept. of Electronics & Communication Engineering  
Jyothi Engineering College, Cheruthuruthy

Sponsored by

A P J Abdul Kalam Technological University

On

10 to 12<sup>th</sup> JULY 2019

To apply, visit <http://www.jecc.ac.in>



Jyothi Engineering College  
Approved by AICTE & Affiliated to APJ Abdul Kalam Technological University

### DECLARATION

The information provided is true to the best of my knowledge. If selected I agree to abide by the rules and regulations of the course and shall attend the course for the entire duration. I also undertake responsibility to inform the coordinator in case I am unable to attend this course.

Place:  
Date:

Signature of the  
Candidate

### SPONSORSHIP

Mr./Ms.....  
is a member of Faculty of our  
Institution.....  
and is  
hereby sponsored for the Faculty Development  
Programme on 'Emerging trends in VLSI,  
Embedded systems and its application in  
Biomedical sector' at Jyothi Engineering College,  
Cheruthuruthy on 10<sup>th</sup> to 12<sup>th</sup> July 2019. He/She is  
permitted to attend the workshop, if selected.

Official Seal

Signature of the  
Sponsoring Authority

### ADDRESS FOR COMMUNICATION

#### Convener

Dr. Jose P Therattil, Professor & Head  
Dept. of Electronics and Communication Engineering  
Jyothi Engineering College  
Vettikkattiri P.O., Cheruthuruthy, Thrissur-679531  
Ph: +919496731126  
Email: [dr.josep.therattil@jecc.ac.in](mailto:dr.josep.therattil@jecc.ac.in)

### ORGANIZING COMMITTEE

#### Chief Patron:

- Msgr. Thomas Kakkasserry, Manager

#### Patrons:

- Fr. Roy Joseph Vadakkan, Secretary & Asst Manager.
- Er. Thomas Mathew, Administrator
- Er. Bobby Peter, Asst. Administrator

#### Organizing Chairman:

- Fr. Dr. Jaison Paul Mulerikkal CMI, Principal

#### Convener

- Dr. Jose P Therattil, HOD, ECE

#### Co-ordinators:

- Dr. Prajoon P, Asst. Professor, ECE
- Ms. Nyni K.A., Asst. Professor, ECE

#### Executive Committee:

- Sr. Dr. Rose Anitha
- Dr. Anoop V
- Ms. Annie P Joseph
- Ms. Sindhu S (Ph.D)
- Dr. Nivitha Varghees V

#### CONTACT PERSONS

Dr. Prajoon P, Asst. Professor, ECE  
Mob: +91 9838511531  
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Ms. Nyni K.A., Asst. Professor, ECE  
Mob: +91 9809482265

### ELIGIBILITY

The programme is open to all Faculty, Research scholars from AICTE approved Engineering colleges. Participants from industries are also welcome. The total number of participants is limited to 30 out of which 20 will be from other colleges selected on a first come, first served basis

### REGISTRATION FEES (REFUNDABLE)

Participants: Rs 500/-

The Registration fees will be refunded after the completion of the programme.

Registration can be done online. For details visit

Website: [www.jecc.ac.in](http://www.jecc.ac.in)

Direct link:

<https://forms.gle/e9fcrFsUMmchAq929>

Lunch and refreshments will be provided. Hostel facilities are available for outstation participants on request.

### IMPORTANT DATES

Last date of online registration: 04/07/2019

Dr. SUNNY JOSEPH KALAYATHANKAL  
M.Tech, MCA, M.Sc, M.Phil, B.Ed  
Ph.D (Computer Science), Ph.D (Maths)  
PRINCIPAL

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Signature



# Jyothi Engineering College

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

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## Report on KTU Sponsored Faculty Development Program

Title : **Emerging trends in VLSI, Embedded systems and its application in Biomedical sector**

Date : 10-07-2019 to 12-07-2019

Place : Jyothi Engineering College, Cheruthuruthy, Thrissur

Venue : Insight Hall, East Block

### Overview of the course

- The three-day Faculty Development Programme was designed for faculty members of KTU affiliated colleges to provide an insight to the current research trends and future research opportunities in the field of VLSI, Embedded systems and Biomedical technologies.
- The target audience consisted of faculty members from KTU affiliated colleges. The total number of participants were 30 (including 21 external participants) from 10 KTU affiliated colleges including the host institute.
- The inaugural session was conducted on 10<sup>th</sup> July 2019, from 9.15 AM to 9.45 AM at Insight Hall. Dr. Jose P. Therattil, HoD, ECE Department, welcomed all the respected dignitaries and participants. The presidential address was given by the Secretary and Asst Manager, Rev. Fr. Roy Joseph Vadakkan. The Principal's address was given by Fr. Dr. Jaison Paul Mulerikkal CMI. The formal inauguration was done by lighting the lamp by Dr. Kurian Alappat, Assistant Professor, Department of Orthopaedics, Jubilee Mission Medical College & Research Institute, Thrissur and all other dignitaries. College Administrator Er. Thomas Mathew felicitated the gathering. The session was concluded with vote of thanks by course coordinator Dr. Prajoon P. Assistant. Professor, ECE Department.
- Details of Technical sessions are given below in the order of sequence.

### Inauguration Ceremony



*copy*

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PRINCIPAL  
Jyothi Engineering College  
Cheruthuruthy, Thrissur



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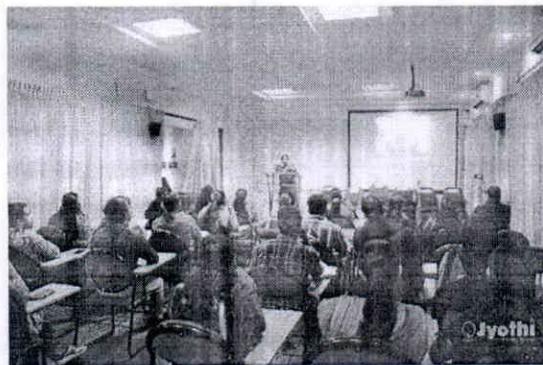
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## DAY 1:

<b>Session 1:</b>	<b>“Additive Manufacturing in Medical Field”</b>
<b>Resource Person:</b>	Dr. Kurian Alappat, Professor, Department of Orthopaedics Jubilee Mission Medical College & Research Institute, Thrissur.
<b>Date: 10-07-2019</b>	<b>Time: 09.45 AM - 11.45PM</b>

The resource person is a Medical doctor with a specialisation in Orthopaedics. He has delivered an excellent topic on additive manufacturing. Importantly, the following topics were discussed: Imaging, Additive Manufacturing, 3D printing, Rapid prototyping, pre surgical planning, conventional surgery, MIMICS software, surgical Guides, Oncology, Anaesthesia, 3Dprinted Implants, CAD Modelling, HIP Replacement, Arthroplasty, 3D Printed Cast and 3D Bioprinting.



<b>Session 2:</b>	<b>Wearable Technologies (Biomedical Solutions: Integrating New Chips, Packages and Modules)</b>
<b>Resource Person:</b>	Dr. D. Nirmal Associate Professor, Karunya Institute Technology and Sciences, Coimbatore.,
<b>Date: 10-07-2019</b>	<b>Time: 11.15AM – 12.45 PM</b>

Dr. D. Nirmal is an associate professor and IEEE EDS Coimbatore chapter chair. Nanoelectronics, microelectronics and VLSI are his major expert areas. He has done an excellent discussion on Wearable Technologies. The main area of focus were; Energy, Health, Food, Challenges in wearable Fabrication and its Applications.

Nanogenerator, Hybrid energy Generator, Chemical Vapor Deposition (CVD), MBE, Characterisation equipment's- XRD, SEM, TEM, AFM, STM. Flexible Electronics and Bio-degradable Electronics were also discussed.

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Session 3:

Application of Biomedical Engineering and Nanomedicine”

Resource Person:

Dr. Yuvaraj V. Associate Professor, Sahrdaya College of Engineering and Technology, Thrissur

Date: 10-07-2019

Time: 01.30 PM – 4.30 PM

The resource person Dr. Yuvraj V is an expert in nanomedicine and biomedical engineering.

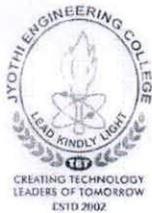
The talk basically concentrated on Bio-Medical Engineering era., The major topics were,

- Healthcare sector, Biomedical engineering, Advanced technologies and Research
- Medical equipments, Diagnostic Equipments, MRI, Computed Tomography, Capsule Endoscopy Ventilators, Pacemakers and Biomedical Sensors were discussed on health care and Biomedical engineering.
- Myoelectric Arm Prosthesis, IOT based healthcare system, bio-MEMS, MEMS, NEMS, Medical Nanotechnology, Opto-Fluidics, Functional MRI, Biomechanics, On-chip 3D printing and Drug-delivery micromachines were the topics in Advance research technologies.



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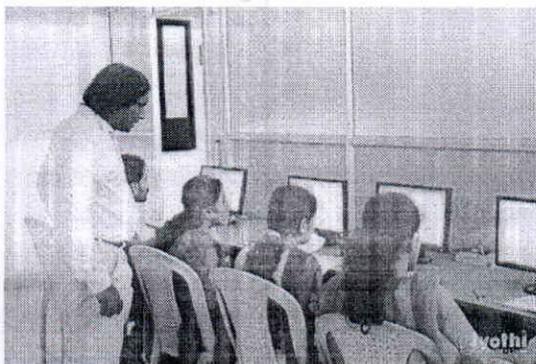
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## DAY 2:

<b>Session 4:</b>	<b>Introduction to LabVIEW</b>
<b>Resource Person:</b>	Mr. C. Karunakaran Research Associate-ARDB Project/DRDO, School of Mechanical Engineering, Vellore Institute of Technology (VIT), Vellore
<b>Date: 11-07-2019</b>	<b>Time: 09.15 AM - 10.45AM</b>

Started with a brief introduction about LabVIEW and its application in Biomedical systems. The importance of the software in biomedical and embedded system was discussed.



<b>Session 5:</b>	<b>Hands-on Session</b> “Industry Application of LabVIEW “
<b>Resource Person:</b>	Mr. C. Karunakaran Vellore Institute of Technology (VIT), Vellore
<b>Date: 11-07-2019</b>	<b>Time: 11.00 AM – 12.30 PM</b>
<b>Session 5:Continues</b>	<b>Hands-on Session – Continues</b> “Industry Application of LabVIEW “
<b>Date: 11-07-2019</b>	<b>Time: 01.30 PM – 04.30 PM</b>

Study material and tutorial sheet for the hands-on session of LabVIEW was given to the participants. The tutorial sheet contains 36 questions for different exercise in the software. 24 questions were discussed and participants were insisted to practice and get the result. All the participants were interestingly involved in doing the problem

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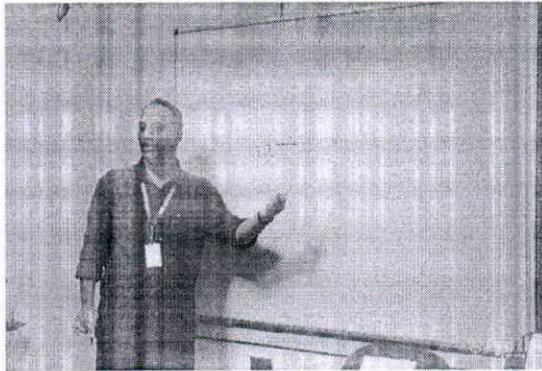
## DAY 3:

Session 6:	Machine Learning, Image Processing & Medical Image Analysis
Resource Person:	<b>Dr. Vinith R.</b> Associate Professor, Jyothi Engineering College, Cheruthuruthy.
Date: 12-07-2019	Time: 09.15 AM - 12.30 PM

The resource person Dr. Vinith is from department of CSE, Jyothi engineering college. He is an expert in Machine learning and medical Image Computing.

The following topics were discussed:

- Fundamentals of medical imaging,
- Image analysis,
- Image Reconstruction.
- Python programming for image construction and analysis.



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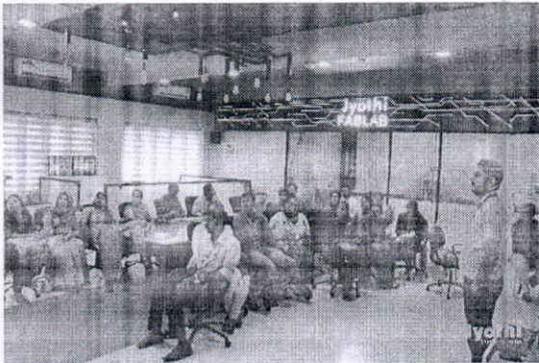
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<b>Session 6:</b>	<b>Embedded system in Biomedical Applications and demonstration of FABLAB</b>
<b>Resource Person:</b>	Mr. Jinesh K J Asst Professor, Dept. ECE, Jyothi Engineering College, Cheruthuruthy
<b>Date: 12-07-2019</b>	<b>Time: 1.30 PM – 4.30 PM</b>

The last session of the three days FDP was held at Jyothi FABLAB Facility. The participants were given live demo of design and printing of prototypes in 3D printer. Hands-on training on 3D image printing equipments was carried out.

The participants are being trained on following tools and equipment's, Epilog Laser cutter, Shopbot CNC, 3D Printer, Roland Vinyl Cutter, Electronic Work Bench, Sand Blasting Machine and Moulding & Casting machines.



The department has also created a web page for the FDP at [https://www.jecc.ac.in/departments/electronics\\_communication\\_engineering#tab\\_newsthe](https://www.jecc.ac.in/departments/electronics_communication_engineering#tab_newsthe) registration details and brochure were available in the page. The course material and photographs were given to the participants. The certificates were also distributed to the participants on the last day of the FDP, after a brief feedback session.

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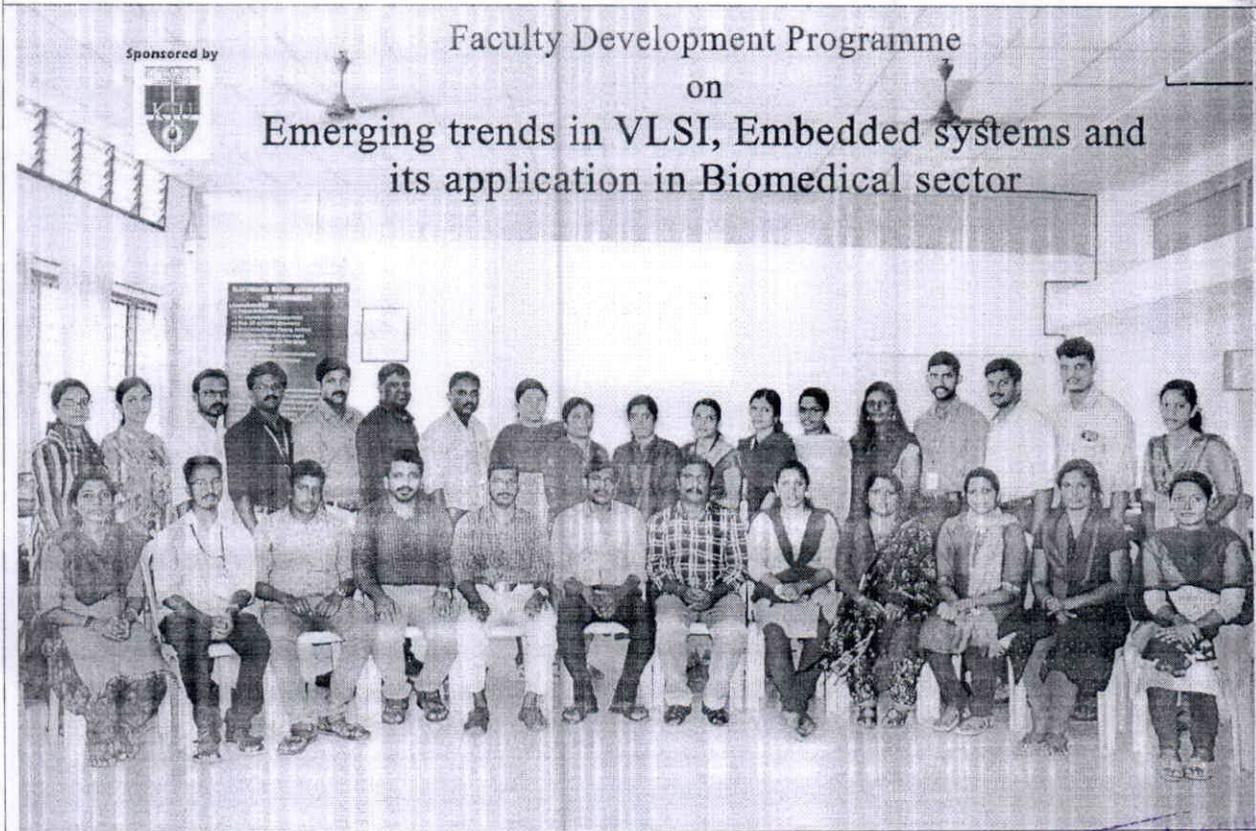
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## Group Photo



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## Faculty Development Programme

on

**“Emerging trends in VLSI, Embedded systems and its application in Biomedical sector”**

Organized by:

Department of Electronics and Communication Engineering

Sponsored by

APJ Abdul Kalam Technological University

on 10/07/19, 11/07/19 & 12/07/19

### PARTICIPANTS LIST

Sl.No	Name	College
1.	Neethu M	Nehru College of Engineering and Research Centre
2	Sajitha AS	Nehru College of Engineering and Research Centre
3	Nithin Joe	Nehru College of Engineering and Research Centre
4	Ansit S	Providence College of Engineering, Chengannur
5	Asmabi V	Al-Ameen Engineering College
6	Ajeena A	Al-Ameen Engineering College
7	Sayyid Abdul Basith V	Malabar College of Engineering and Technology
8	Reshma Raj	Malabar College of Engineering and Technology
9	Shanoob TH	Malabar College of Engineering and Technology
10	Aneesh K	Ahalia School of Engineering and Technology
11	Vishnu Prabha N Kaimal	Nehru College of Engineering and Research Centre
12	Rahul M Nair	Nehru College of Engineering and Research Centre
13	Jithin Jose Kallada	Nehru College of Engineering and Research Centre

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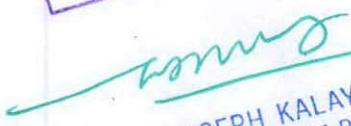
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15	Bipin PR	Ilahia College of Engineering and Technology
16	Abithamol VP	Vijnan Institute of Science and Technology
17	Indu Chandran	Vijnan Institute of Science and Technology
18	Sini K Thomas	Vijnan Institute of Science and Technology
19	Aimy Jose	Vijnan Institute of Science and Technology
20	Devika PV	Vijnan Institute of Science and Technology
21	Shibin Babu GK	Model Engineering College, Thrikkakara.
22	Soumay C	Jyothi Engineering College, Cheruthuruthy
23	Aathira K.V	Jyothi Engineering College, Cheruthuruthy
24	Akhil A Balakrishnan	Jyothi Engineering College, Cheruthuruthy
25	Ambily Francis	Jyothi Engineering College, Cheruthuruthy
26	Roshini Rajan K	Jyothi Engineering College, Cheruthuruthy
27	Ponmani Raja M	Jyothi Engineering College, Cheruthuruthy
28	Drisy MK	Jyothi Engineering College, Cheruthuruthy
29	Rijo PC	Jyothi Engineering College, Cheruthuruthy
30	Jithin K Kuriakose	Jyothi Engineering College, Cheruthuruthy

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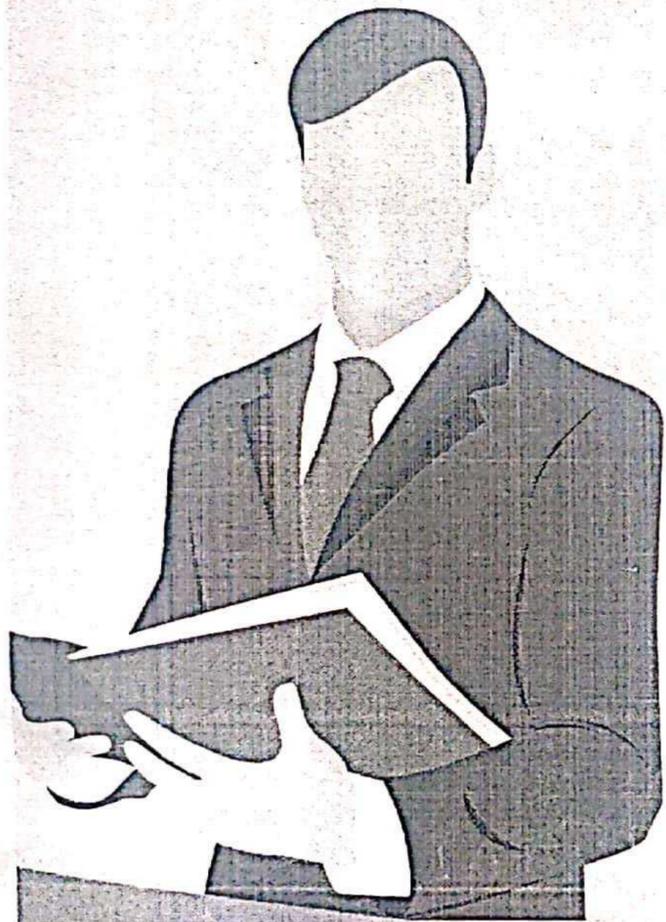
Emerging trends in VLSI, Embedded systems and its application in Biomedical sector, Jyothi Engineering College  
10-7-2019 to 12-7-2017

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# AN ORIENTATION PROGRAMME ON STUDENT PROJECTS

@ Decennial Hall



*Kumar*

Dr. SUNNY JOSEPH KALAYATHANKAL  
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25<sup>th</sup> JULY 2019



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## An Orientation Program on Student Projects

(25<sup>th</sup> July 2019)

Jyothi Engineering College, Cheruthuruthy

**Objective:** The main objective of the programme is to improve the performance in the next academic year on all aspects of students projects.

**Venue:** Decennial Hall, JECC

**Outcomes:**

1. Improve the quality of PG and UG student projects.
2. Improve the quality of project reports by using Latex

**Implementation:**

A one day Orientation Programme on Student Project was organized by Jyothi Engineering College on 25<sup>th</sup> July 2019. The programme was organized in such a way that it would be beneficial for the Faculty members.

The project coordinator Mr. Cyriac M G welcomed Principal Fr. Dr. Jaison Paul Mulerikkal, resource persons and the faculty members. The Principal addressed the gathering and advised the faculty members to seriously monitor the student projects and enhance the quality of the same. Mrs Vincy Verghese gave a presentation on Methodology for project execution. Prof Rathish S motivated to get a better performance in the next year on all aspects of students projects. He also suggested to convert maximum no of student projects to paper publications in the reputed journals/conferences.

In valedictory session Dr Anoop V, Project co-ordinator for M.Tech 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 63 participants for the programme. The participants expressed satisfaction about the overall conduct of the program.

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Cheruthuruthy P.O.

**Jyothi Engineering College, Cheruthuruthy**

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**Orientation programme on Student Projects (25th July 2019)**

<b>Sl. No.</b>	<b>Name</b>
1	M.G. Cyriac
2	Dr. Nidhi M
3	Neeraja P.G
4	Shiny Shajan
5	Archana S
6	Vincy Verghese
7	Thomas George K
8	Aswathy Wilson
9	Anil Antony
10	Namitha T.N
11	Swapna B. Sasi
12	Shaiju Paul
13	Bineesh M
14	Aneesh Chandran
15	Sobha Xavier P.
16	Reshma K.V.
17	Ninu Francis
18	Dany Varghese
19	Dr. Jose P Therattil
20	Dr. Anoop V
21	Annie P. Joseph

Sl. No.	Name
22	Sindhu S
23	Dr. Prajoon P
24	Shiny M.I.
25	Dipin Krishnan R.
26	Jinesh K.J.
27	Drisya M.K.
28	Ambily Francis
29	Rijo P.C
30	Nyni K.A
31	Ponmani Raja
32	Roshni Rajan
33	Neethu Rose Thomas
34	Ratnan P.
35	Dr. Jarin T
36	Dr. Shijoh V
37	Anu Sunny
38	Jenson Jose
39	Della David
40	Kapil Das K.S
41	Soumya C
42	Saritha P
43	Aswathy Rajan
45	Akhil A Balakrishnan
46	Jithin K Jose
47	Dr. Biju P.L
48	Lawrance
49	Biju C.V
50	Manoj Kumar V.K
51	Praveen Raj
52	Christy V. Vazhappilly
53	Melvin Raj C.R.
54	Nikhil N.S
55	Suneeth Sukumaran
56	Sukesh O.P.
57	Hareesh N.V
58	Nisha Sherief
59	Nice Menachery
60	Sheik Afthab S
61	Cijil B John
62	Jithin K Kuriakose
63	Anto Zacharias
64	Deepanraj B

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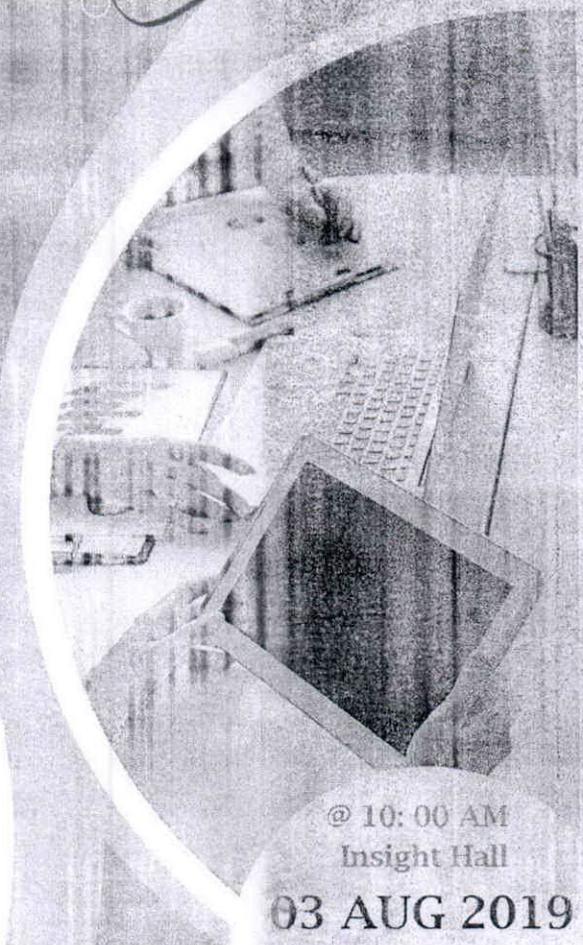
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# Orientation Program for New Staff



## Jyothi Engineering College

Approved by AICTE & affiliated to APJ Abdul Kalam Technological University  
N.A.A.C. accredited college with BBA Accredited Programmes  
& CENTRE OF EXCELLENCE IN SCIENCE & TECHNOLOGY BY THE CATHOLIC ARCHDIOCESE OF TRICHUR  
JYOTHI HILL, VETRIKALATHI P.O., CHERUTHURUTHY, TRIVELDE. PIN-679531, PH - 91-4884-259000, 374423. FAX: 04884-274777  
NMA accredited 5, 1956 Programmes in Computer Science & Engineering, Electronics & Communication Engineering, Electrical & Electronics Engineering and Mechanical Engineering, valid for the academic years 2016 to 2022.

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

@ 10:00 AM  
Insight Hall  
03 AUG 2019

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Dr. SUNNY JOSEPH KALAYATHANKAL  
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Jyothi Engineering College  
Cheruthuruthy P.O.- 679 531

03 AUG 2019



# Jyothi Engineering College

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A CENTRE OF EXCELLENCE IN SCIENCE & TECHNOLOGY BY THE CATHOLIC ARCHDIOCESE OF TRICHUR  
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## Orientation Programme for New Staff

(03<sup>rd</sup> August 2019)

Jyothi Engineering College, Cheruthuruthy

**Objective:** To give the participants a basic understanding of the Academic Research and Administrative policies of the college. The programme intends to give one day orientation to the newly joined staff of the college.

**Venue:** Insight Seminar Hall, JECC

### Outcomes:

1. Participants are able to get an understanding of the general policies and working environment of the college.
2. Participants are able to get an understanding of Research Activities of the college.
3. Participants are able to get an idea of different steps involved in accreditation process.
4. Participants are able to understand the rules of the university.

### Implementation:

A one day Orientation Programme for the newly joined staff was organized by Jyothi Engineering College on 3<sup>rd</sup> August 2019. The programme was organized in such a way that it would be beneficial for the Faculty members. Also the program would be helpful to the newly joined staff to be accustomed with the day to day activities of the college.

In the morning session Principal Fr. Dr. Jaison Paul Mulerikka welcomed the newly joined staff. He also presented the general instructions and welfare schemes to those who were present in the programme. Later on Er. Thomas Mathew gave a detailed presentation on University Rules, conduct of practical exams and admission process of the college. Sr. Dr. Anita Rose stressed on

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the importance of research activities to be undertaken under the Departments. She also pointed the various opportunities for conducting research works.

Department and Inter-Department Dynamism's was presented by Prof. S Rathish.

In valedictory session Prof. S Rathish 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.

There were 6 participants for the programme. The participants expressed satisfaction about the overall conduct of the program.

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Jyothi Engineering College, Cheruthuruthy	
Orientation Programme for New Staff	
03rd August 2019	
Sl.No.	Staff Name
1	Lufiya George
2	Rakendu P S
3	Vismay M Nair
4	Megha G
5	Shima Paul
6	Aloshius Ligin Jose

*Sunny*

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Orientation Program for new staff  
03-08-2019

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JECC



# JYOTHI ENGINEERING COLLEGE

Jyothi Engineering College, Cheruthuruthy (JECC) is a new generation engineering college started in 2002. The college offers courses in six disciplines and is a centre of excellence in technical education managed by the Archdiocese of Thrissur. The college is approved by AICTE and is affiliated to APJ Abdul Kalam Technological University. It is an ISO 9001:2008 & NAAC Certified Institution with NBA accredited programmes.

## ABOUT THE FDP

The main objectives is to enhance the knowledge of faculty on repair, rehabilitation and retrofitting of civil engineering structures such as buildings, bridges, water tanks, offshore structures and foundations.

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## PROGRAMME OUTLINE

- Distress evaluation of structures
- Non-destructive testing (NDT) techniques
- Analytical evaluation of distress
- Repair, rehabilitation and retrofitting of structures
- Ferrocement for retrofitting
- Case studies and field visit

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## DEPARTMENT OF CIVIL ENGINEERING

The Civil Engineering Department was established in 2012. The department offers UG and PG programmes. The faculty is a rich blend of experienced professionals from the academia and the industry. The department is equipped with laboratories engaged in Research and Consultancy apart from regular academics. Industry specific training programmes, invited talks, workshops and industrial visits are organized by the department for overall development of the students. Department has Center for Water Research and Education (CWRE). Environmental Engineering Laboratory under this is accredited by the Kerala State Pollution Control Board. The center imparts training on water quality management and sanitation to the community on a regular basis apart from testing of water samples at concessional rates.

## VISION OF THE DEPARTMENT

To emerge as a Centre of Excellence in Civil Engineering through quality professional education and to create eminent leaders with values committed to the profession and society.

## MISSION OF THE DEPARTMENT

- To impart state of the art education and to provide industry exposure to students
- To create civil engineers who successfully adapt and innovate solutions for the built environment
- To inspire and transform the students to hard core professionals and academicians with ethical values

## DECLARATION

The information provided is true to the best of knowledge. If selected I agree to abide by the rules and regulations of the course and shall attend the course for the entire duration. I also undertake the responsibility to inform the coordinator in case I am unable to attend this course.

Place:

Date:

Signature of Candidate

## SPONSORSHIP CERTIFICATE

Mr./Ms.....  
 .....is a member of Faculty of our Institution  
 .....  
 ..... and is hereby sponsored for the Faculty Development Programme on 'Repair and Rehabilitation of Structures' at Jyothi Engineering College, Cheruthuruthy from 2<sup>nd</sup> to 10<sup>th</sup> December 2019. He/She is permitted to attend the FDP, if selected.

Official Seal

Signature of the Sponsoring Authority

## ADDRESS FOR COMMUNICATION

Convenor  
 Prof. S. Rathish,  
 Head of Dept. of Civil Engineering  
 Jyothi Engineering College  
 Vettikkatturi P.O., Cheruthuruthy, Thrissur-679 531  
 Ph: +919447138926  
 Email: hodce@jecc.ac.in



## Day 1

The APJ Abdul Kalam Technological University sponsored five day FDP on "Repair and Rehabilitation of Structures" started on 02/12/2019 in the Insight Hall of Jyothi Engineering College. The FDP commenced with the registration for the participants at 9:00 am and followed by the inaugural session at 9:30 am. The inaugural session began with a prayer song. The Head of Civil Engineering Department, Jyothi Engineering College, Prof. S. Rathish delivered the welcome address which was followed by the presidential address by Rev. Dr. Jose Kananpuzha, Director-Academics, Jyothi Engineering College. The Chief Guest of the day **Dr. N. Ganesan** inaugurated the FDP by lighting the lamp along with all the dignitaries on the dias. The chief guest in his inaugural address mainly highlighted the relevance of the topic "Repair and Rehabilitation of Structures" and appreciated the institute organizers in choosing the same. Fr. Dr.Jaison Paul Mulerikkal CMI, Principal, Jyothi Engineering College delivered the principal's address. Er. Thomas Mathew, Administrator, Jyothi Engineering College, delivered the felicitation. Finally, Dr.Nidhi M, Coordinator of the FDP proposed the vote of thanks.



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Session 1

**Time:** 10: 10 am to 12:10 pm

**Title of topic:** Introduction to Repair, Rehabilitation and Retrofitting of RCC Structures

**Resource person:** Dr. N. Ganesan, Former Professor, NIT Calicut



The speaker started the session by defining the terms repair, rehabilitation and retrofitting. He further elaborated on rehabilitation, objectives of rehabilitation and the processes involved in rehabilitation. The speaker then addressed what are the types of distresses that are to be addressed in concrete structures and what are all the preventive measures we can adopt to prevent them. In further discussion, the speaker discussed in detail various repair techniques that we practice on the site such as column jacketing, stitching, shotcreting, etc. He also elucidated on the difference between shotcreting and guniting. Furthermore the speaker gave an insight to the changes that come in concrete structures due to corrosion and the ways we can adopt to prevent them. The audience cleared their queries by the end of the session.

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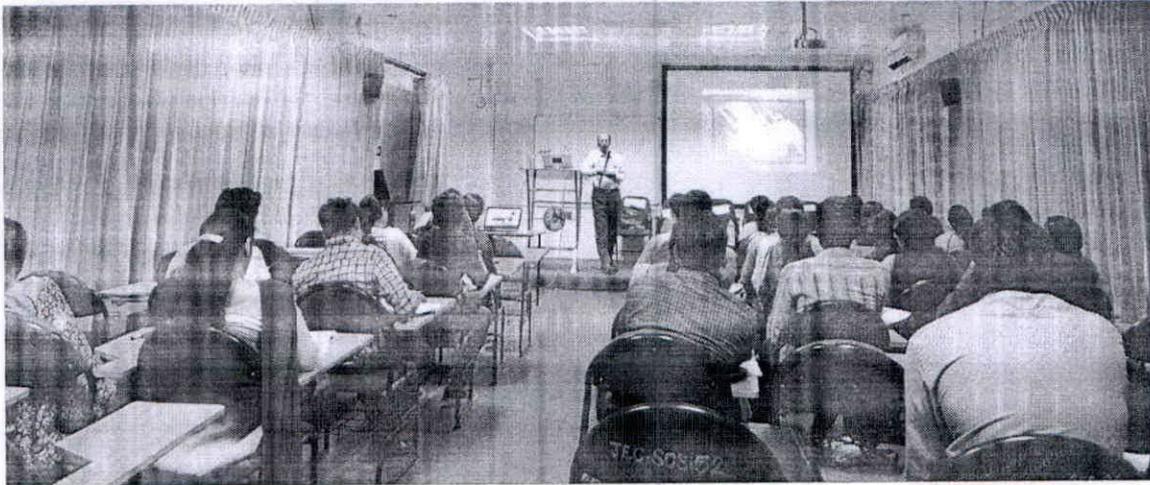
  
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## Session 2

**Time:** 01: 10 pm to 02:40 pm

**Title of topic:** Investigation of RCC Structures under Distress Using Non-Destructive Test Methods

**Resource person:** Dr. N. Ganesan, Former Professor, NIT Calicut



The speaker started the session by explaining the importance of Non-Destructive Testing (NDT) in Civil Engineering structures. He said that in the case of arising any doubt regarding the quality or serviceability of the structure the Engineer can repeat the test on the structure at any point of time, and this is the most important advantage of NDT. Furthermore, the speaker gave an insight to various NDT methods and commonly employed NDT techniques for testing of concrete that are adopted in the field. He further elaborated on methods such as Ultrasonic Pulse Velocity Method, Rebound Hammer Test, Windsorprobe Test, etc. The speaker mentioned that as a country, India has not made much headway in the use of NDT methods in concrete testing beyond the stage of laboratory investigations and has a long way to go in this field. The speaker vehemently suggested that before agreeing upon a contract, Government or private agencies should indicate in their tender that they will carry out NDT periodically during the course of the construction of any important structure. He added that it would make the contractor more cautious about the quality of the structure. The audience also agreed upon his opinion and accepted that it would improve the quality of construction.

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### Session 3

**Time:** 2.50 pm to 4.30 p.m

**Title of topic:** TREATMENTS FOR BUILDINGS AND BRIDGES- A REVIEW

**Resource Person:** Prof M Kumaran, Rtd Professor and head of the Civil Engineering Department, GEC, Thrissur



The speaker started the session with the comparison of structures with human body. He also spoke about the existence of various buildings for long years, due to the materials were generously used. The mistakes in design and detailing are still major cause of failure even in modern times. He mentioned about the importance of codal provisions in structures and explained it in detail. The importance of bending moment diagram and shear force diagram was also explained. The stake holders and/ or professionals shared a peculiar blame in any incidences of building collapse depending on the nomenclature or causes. He also discussed the case of Palarivattom Bridge and explained the current issues regarding the bridge. The Deck Continuity Technology was also described in detail during his presentation. The process of retrofitting was also explained with the various cases. The various case studies was also discussed in the section. The audience also interacted with the speaker regarding those case studies which was discussed. The feedback from the audience suggested that the session was very much informative and also gave much more idea regarding retrofitting aspects.

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## Day 2

### Session 1

Time: 9: 00 am to 10:30 am

**Title of topic:** Repair and Rehabilitation of Water Retaining Structures

**Resource Person:** Prof. S. Rathish, Head of Civil Engineering Department, Jyothi Engineering College, Thrissur



The speaker started the session with an overview on the type of water retaining structures, its design consideration and the causes leading to the need for repair and rehabilitation of water retaining structures. The speaker elaborated on the topic aggressivity of water, the causes, the measuring indices, the consequences and the remedies to be considered in water retaining structures. In his presentation he mentioned in detail the different types of techniques and methods adopted to ensure waterproofing of water retaining structures and also the repair and rehabilitate strategies adopted in water retaining structures. The audience interacted with the speaker on queries related to waterproofing of structures made of ferro-cement and also on the types of coatings and additives available in the market for water proofing of the water retaining structures. The feedback from the audience suggested that the session was fruitful and informative.

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Session 2

**Time:** 10: 40 am to 12:10 pm

**Title of topic:** Ferrocement as a Construction Material

**Resource Person:** Er. M. S. Sudhakaran, Managing Director, Paramount Constructions Pvt. Ltd.



The speaker in the initial portion of his presentation defined what ferrocement is and the history of its evolution. A comparison of ferrocement with reinforced concrete was also discussed. The application of ferrocement in construction of boats, structural elements in buildings, water tanks, biogas plants, silos was presented based on his real work in the field. The constituent in ferrocement and its mechanical properties were also discussed in his presentation. The audience interacted with the speaker on his 20 years of experience in the field of construction of structures using ferrocement. The feedback from the audience suggested that the session was very informative and appreciated the versatility of ferrocement in construction of various features. The session was followed by a field visit to three sites where the speaker himself has undertaken the construction using ferrocement.

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### Session 3

**Time:** 1:10 pm to 4:30 pm

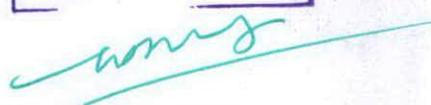
**Title of topic:** Site Visit to Construction Projects undertaken by Paramount Constructions Pvt. Ltd.

**Resource Person:** Er. M. S. Sudhakaran, Managing Director, Paramount Constructions Pvt. Ltd.



The afternoon session for the day was to three sites, wherein the construction was undertaken by Paramount Constructions Pvt. Ltd. The first site was a G+1 storeyed house for which the super structure was constructed entirely using ferrocement. The second site was a top floor (3rd floor) constructed using ferrocement on an existing RCC structure. The major advantage in this floor compared to the bottom floors was that an extra room space could be obtained. This is attributed to the reduction in the wall thickness by about 70% in ferrocement construction compared to the RCC. The third site was a fully constructed and inhabited G+3 apartment. The walls, staircase and roof slab was constructed using ferrocement. A visit to the tank of the biogas-plant and the incinerator made out of ferrocement (outer structure in the case of incinerator) in the premises of the apartment was done. During the visits to these structures, the participants could get a real picture of the advantages in utilizing ferrocement as a construction material. The increase in carpet area, the decrease in self-weight of the superstructure, the integrity of the structure which makes it better resistant to dynamic loading compared to RCC structures and the speed in finishing the construction.

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## Day 3

### Session 1

**Time:** 09: 00 am to 10:30 am

**Title of topic:** Concrete Concepts in Rehabilitation

**Resource Person:** Er. M. Joseph, Aditya Birla Group



The speaker started the session by explaining the significance of concrete as a construction material. Even though we have been using concrete for a long period, attaining durable concrete is a herculean task. The speaker then discussed the importance of right amount of water content in concrete. Further, he discussed in detail about the tests in concrete such as initial setting time, final setting time. The speaker then moved on to hydration process occurring in concrete and the importance of curing during this time period. The speaker also mentioned that hydration is a never ending process. He also discussed the advantages and disadvantages of different curing methods such as water curing, steam curing (in high pressure and normal pressure) and membrane curing. There was a short intermission for tea break at 10:30am.

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## Session 2

**Time:** 10:40 am to 12:10 pm

**Title of topic:** Concrete Concepts in Rehabilitation

**Resource Person:** Er. M. Joseph, Aditya Birla Group

The speaker resumed the session by 10:40am and explained the importance of low water-cement ratio in concrete with examples. Further he discussed some important highlights of IS:456(2000) such as maximum w/c ratio and minimum grade of concrete for different exposure conditions. Later he explained the significance of coarse aggregate and grading of coarse aggregate for getting concrete of good quality. The speaker concluded the session by giving some tips for leak proofing a building. The audience interacted with the speaker and cleared their doubts by the end of the session.

## Session-3

**Time:** 1:10 pm to 4:20 pm

**Title of topic:** Non-Destructive Testing methods

**Resource Person:** Mr. Christy Jain, United NDT Training and Inspection Centre



The session mainly covered most of the non-destructive testing methods used for PCC, RCC as well as steel. The speaker started the session by giving a brief introduction about the non-destructive technique, its advantage over destructive testing methods as well as the reasons for which NDT methods are adopted. Main advantage of NDT methods is that they does not

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destroy the usefulness of structure which makes it more useful for repair purposes. A brief explanation regarding the methods as well as videos was shown in the session by the speaker. Primary and basic method started with, was the Visual inspection which is done by simply inspecting the structure. Then other methods such as Rebound hammer test, Ultrasonic pulse velocity test, Impact echo test, resonant frequency test, Penetration test, Pile integrity test, Rebar detector and cover meter test for concrete, Pull out resistance etc. were briefly discussed. It was clear that each method had its own limitations and advantages as well as specific objectives. The speaker also mentioned that a structure is not inspected only by any one method, but will be tested by various methods and with different samples and will be compared for better accuracy. NDT test used for steel were also explained in which, tests mainly used such as Liquid penetrant inspection, Magnetic particle inspection, Radiography testing, Ultrasonic inspection. The session was concluded by discussing the scope of NDT methods in coming future.

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## Day 4

### Session 1

**Time:** 9: 00 am to 10:30 am

**Title of topic:** Analytical Evaluation of Distress in Structures

**Resource Person:**Dr. Anil Joseph, Director of Geostructurals (P) Ltd.



The speaker provided an interactive session on evaluation of distress in structures. He gave an introduction about the necessity of repair and rehabilitation. Definition of distress in structures was clearly defined by him. The participants were able to understand the step by step procedure for evaluation of distressed buildings and their rehabilitation. Four case studies on the evaluation of distress was discussed. The case studies included Commercial building at Kochi (Soil retention failure), IT building at Kakkanad, Four star hotel building at Cherthala and Hotel building at Kottayam. The identification of distress in each of the above buildings along with retrofitting method adopted were clearly explained by the speaker. The selection of retrofitting method depends on the nature of the distress and various other site and building properties. The participants clarified their doubts regarding various various tests conducted for the evaluation of distress and the softwares used. The feedback from the participants suggest that the session was an eye opener and informative.

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## Session 2

**Time:** 10:40 am to 12:10 pm

**Title of topic:** Analytical Evaluation of Distress in Structures: Case Studies

**Resource Person:** Dr. Anil Joseph, Director of Geostructurals (P) Ltd.

The speaker discussed about the distress in Palarivattombridge and the current scenario. He briefed the various studies conducted in the bridge and the results obtained. The various retrofitting methods which can be adopted for different structures were explained by him. Another topic of discussion was the Controlled implosion for the demolition of structures. The speaker suggested that the damage in the structures should be correctly identified and the cause of the damage needs to be determined. Reliable test results should be obtained and the decision should be made whether the structure needs to be retrofitted or demolished. Queries of participants related to various existing distressed structures were cleared by the speaker. The session was informative and introduced the real field situations to the participants.

## Session 3

**Time:** 1.10 pm to 2.30 p.m

**Title of topic:** Experimental and Analytical Modeling Techniques in Retrofitting of structures

**Resource Person:** Dr Shyju P Thadathil, Executive Engineer, Kerala Water Authority



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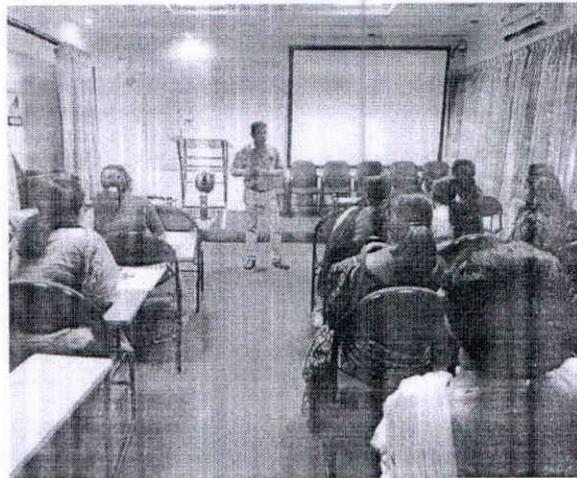
The speaker started the session with the importance of mathematical modeling and its applications in various fields of Engineering. He spoke about the Retrofitting of Structures and Challenges in Modeling and also in Design of structures. He also mentioned the effect of retrofit on global response of frames. He also showed various graphical representation which was experimentally proven. He explained the Moment-Curvature Analysis of Retrofitted Sections of Beams and Columns in detail. The analysis of Ferro cement composite gave an idea regarding the moment curvature analysis. The Comparison of moment-curvature plot for bare & retrofitted column sections in RCC frames also put forward the concept behind the analysis. He also showed the Damage indicators to assess the distress of various structures with different cases. The audience also interacted with the speaker regarding the various case studies in the presentation. The feedback from the audience suggested that the session was very much informative and also gave a beautiful picture regarding the mathematical modeling.

**Session: 4**

**Time:** 2:50 pm to 4:30 pm

**Title of the topic:** 1. Concrete: a sustainable construction material and Causes of RCC deterioration

**Resource Person:** Er. Shyju Nair, Zonal Head (South) Ambuja Cements Pvt. Ltd.



The speaker started the topic by discussing about the history of concrete. He included about the founder, first RCC building, Hamurabi's law and so on. He further told about the materials used in preparing concrete and the role they impart. Advantages and disadvantages of concrete were also added in his talk. He conducted an in-depth talk on fresh concrete, hard

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concrete, its practical aspects and rheology. Speaker explained the essential properties and requirements of concrete. Then he said about enemies of concrete and thus he concluded by saying that steel corrosion is the major source of deterioration in concrete and mitigation measures were also discussed. He also discussed on the causes of RCC deterioration. He explained the causes that lead to RCC building repair. Then had a discussion on what are the do's and don'ts, what are the measure to be taken to reduce repair and he concluded by saying that repairs and renovations are inevitable. It should be done properly otherwise it may cause property as well as life damages.

### Day 5

#### Session 1

**Time:** 9:00 am to 10:30 am

**Title of topic:** Introduction to Offshore Structures

**Resource Person:** Dr. Shashikala A. P., Professor, Dept. of Civil Engineering, NIT Calicut



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The speaker commenced her presentation highlighting the need to understand the different types and applications of the offshore structures in prior to understand the types of retrofitting available for offshore structures. With this in view she discussed the various types of offshore structures, namely, floating platforms, fixed platforms and compliant platforms. An overview on the various structural components of the platforms and the design considerations were given in the session. The speaker clearly distinguished between the design aspects involved in offshore and onshore structures. The participants interacted with the speaker on the design

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specifications involved in the mooring lines, parameters considered to install an offshore platform and the stability of such structures when subject rough marine environment

### Session 2

**Time:** 10:40 am to 12:10 Pm

**Title of topic:** Retrofitting of Offshore Structures

**Resource Person:** Dr. Shashikala A. P., Professor, Dept. of Civil Engineering, NIT Calicut



The causes leading to the retrofitting of offshore structure was discussed initially in the presentation. The speaker pointed out that the need for retrofitting mainly arises due to marine environment corrosion or rough marine environment (viz., high velocity winds and rough waves and undercurrents) or some offshore accidents (viz., hitting of barges on the platforms, fire in the platform etc.). The details of the common techniques used in retrofitting of the offshore platforms, namely, jacketing, application of corrosion resistant coatings to the members, wrapping using geopolymer, welding stiffeners, and so on. Also, in some specific cases when the structural member is completely deteriorated mandates the replacement of the same. The speaker also elaborated about her research work using carbon fibre wrapping as a retrofitting technique. The participants had an intense discussion with the speaker on the challenges in retrofitting the offshore structures and also the methodology of carbon wrapping the structural elements of offshore platforms.

### Session 3

**Time:** 1:10 am to 3:20 pm

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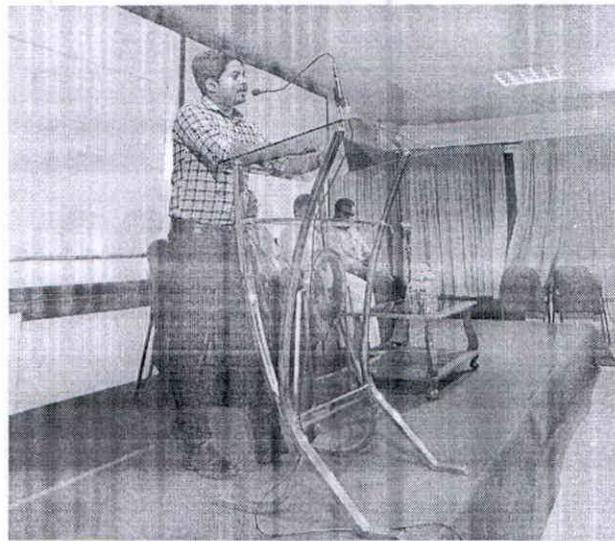
**Title of topic:** Distress in Foundations

**Resource Person:** Dr. Vijayan P., Professor, Dept. of Civil Engineering, GEC Thrissur



The session discussed in detail on the causes for distress in foundation mainly due to load transfer failures, forces due to drag and heave, earthquake loads, construction errors, fluctuations in ground water level, landslide and vibration loads. He explained the aforementioned causes using suitable case studies. The preventive measures and remedies that are normally adopted in the field were presented. The foundation distress in loess - collapsible soils was elaborately discussed. Also, the preventive measures favourable that can be practiced in collapsible soils were presented. The foundation distress due to liquefaction of soils was also discussed. The participants interacted with the speaker on the real life instances where retrofitting was done in structures subjected to foundation failures.

### Valedictory Function



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*Sunny*  
Dr. SUNNY JOSEPH KALAYATHANKA  
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Ph.D (Computer Science), Ph.D (Maths)  
PRINCIPAL  
Jyothi Engineering College  
Cheruthuruthy P.O. - 679 531

The APJ Abdul Kalam Technological University sponsored five day FDP on "Repair and Rehabilitation of Structures" concluded on 06/12/2019 with a valedictory function from 3:30 pm to 4:30 pm in the Decennial Hall, Jyothi Engineering College. The function commenced with a silent prayer followed by the welcome address by Prof. S. Rathish, Head of Civil Engineering Department. Rev. Dr. Jose Kannampuzha, Director-Academics, delivered the presidential address followed by distribution of certificates of participation to the participants. Mr.Nandagopan, Assistant Professor, KMCT College of Engineering, Calicut, a representative from the participant shared the feedback on the FDP. Finally, the vote of thanks was proposed by Dr.Jarin T, Head of Electrical and Electronics Engineering Department, Jyothi Engineering College.

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# 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, VETTIKATTIRI 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.

## KTU Sponsored 5-day workshop on “Repair, Rehabilitation and Retrofitting of Structures”

### PARTICIPANT LIST

Sl. No.	NAME OF PARTICIPANT	COLLEGE	E mail-id	Remarks
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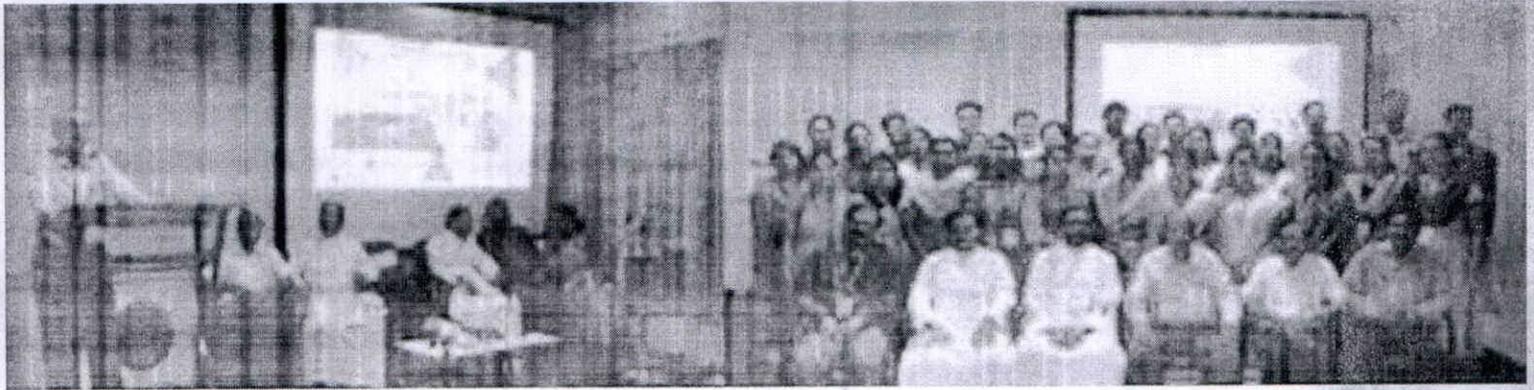


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30	Jestine J Thannickal	Jyothi Engineering College	jestinejthannickal@jecc.ac.in	Internal Participant
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Repair and Rehabilitation of Structures  
2-12-2019 to 6-12-2019

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### DECLARATION

The information provided is true to the best of my knowledge. If selected I agree to abide by the rules and regulations of the course and shall attend the course for the entire duration. I also undertake responsibility to inform the coordinator in case I am unable to attend this course.

Place: \_\_\_\_\_  
Date: \_\_\_\_\_  
Signature of the Applicant

### SPONSORSHIP

Mr./Ms. \_\_\_\_\_ is a member of Faculty of our Institution: \_\_\_\_\_ and is hereby sponsored for the Faculty Development Programme on "Modern AICTE Curriculum Based Engineering Education – Pedagogical Issues and Outcome Based Learning" at Jyothi Engineering College, Cheruthuruthy on 2<sup>nd</sup> to 06<sup>th</sup> December 2019. He/She is permitted to attend the FDP, if selected.

Official Seal \_\_\_\_\_  
Signature of the Sponsoring Authority

#### Convenor

Dr. Jarin T, HoD, EEE

#### Co-ordinators

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Email: anu@jecc.ac.in

Mr. Jenson Jose  
Asst. Professor, EEE  
Mob: +91 9497359153  
Email: jensonjosep@jecc.ac.in

Organized by \_\_\_\_\_  
Department of EEE in association with IQAC, JEC

### ORGANIZING COMMITTEE

#### Chief Patron:

Msgr. Thomas Kakkassery, Manager

#### Patrons:

Rev. Fr. Roy Joseph Vadakkan,  
Secretary & Campus Head

Rev. Fr. Dr. Jose Kannampuzha  
Director of Academics

Er. Thomas Mathew, Administrator

Er. Bobby Peter, Assistant Administrator

Lt Col Jacob Ed (retd), Assistant Administrator

#### Organizing Chairman:

Fr. Dr. Jaison Paul Mulerrickal CMI, Principal

#### Chief Mentor:

Prof. Ratnan P, Vice Principal

### ELIGIBILITY

The programme is opened to all faculty from colleges affiliated to KTU. The maximum number of participants is limited to 30 on a first come, first served basis.

### REGISTRATION FEES (REFUNDABLE)

Participants: Rs 500/-

\*The registration fees will be refunded after the completion of the programme.

Online Registration Link:

<https://tiny.cc>



For online transfer of registration fees  
IFSC Code: FDRL0001325  
Account No: 15230100072267

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Jyothi Engineering College  
Cheruthuruthy P.O. - 670 504

33-b

### FACILITIES

Lunch and refreshment will be provided.  
Hostel facilities are available for outstation participants on request

### PREAMBLE

This FDP addresses the need to enhance the teaching learning process of all faculty members to implement Outcome based Education. The prime objectives of this FDP are:

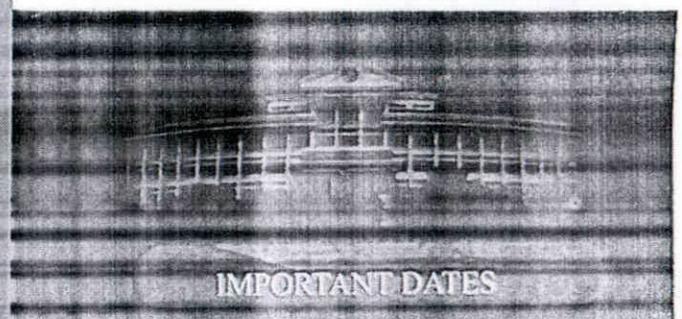
- To create awareness among faculty members about OBE.
- Orienting KTU affiliated institute towards Accreditation.
- Aligning Engineering Education towards Industrial demand
- To understand the process of OBE in NBA.

### MAJOR COURSE CONTENTS

- OBE/NBA Guidelines
- Process of NBA Accreditation
- Outcome Based Assessment
- Understanding of Engineering Pedagogy
- Faculty Performance Appraisal & Development
- New examination reforms and their assessment

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### IMPORTANT DATES

Last date of online registration : 23-11-2019

Registration dates : 02 to 06 December 2019

### Program Report

The five days FDP on "Modern AICTE Curriculum Based Engineering Education - Pedagogical Issues and Outcome Based Learning" sponsored by APJ Abdul Kalam Technological University was organized by the department of EEE of Jyothi Engineering College from 2<sup>nd</sup> to 6<sup>th</sup> December 2019. Sessions were handled by the eminent resource persons from both academia and industry. The direct beneficiaries of this FDP are 30 faculties from the different colleges affiliated to the university.

The registration for FDP was started on 19<sup>th</sup> November 2019 and the information is shared with all KTU affiliated college through online [KTU Website]/offline. Since team size is limited to 30 participants, we had 20 registrations from other colleges and 10 registrations form our institute. At the time of registration, the detail program schedule along with welcome kit (Includes File, Notepad, Memory stick & Pen) were given to the participants.

The inauguration ceremony was started at 9:30 AM on 02<sup>nd</sup> December 2019 and was inaugurated by Dr. H. S. Guruprasad, Professor & Dean (Student Affairs) of BMS College of Engineering, Bangalore.



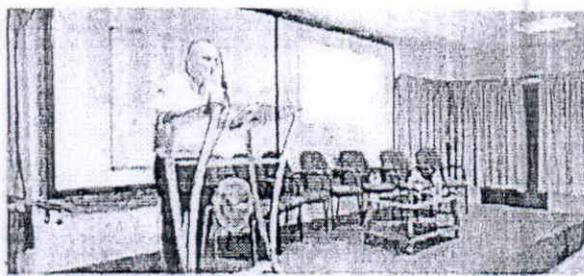
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Following the inauguration, morning and afternoon sessions were handled by Dr. H. S. Guruprasad on the topics NBA and Outcome Based education. Morning session started with the outlines of OBE stating the relevance and its importance in current academic scenario. He also gave an overview of the formulation of NBA and

its need in INDIA. In the afternoon session, he elaborated the process of formulating the vision, mission, PEOs, POs, PSOs and COs.

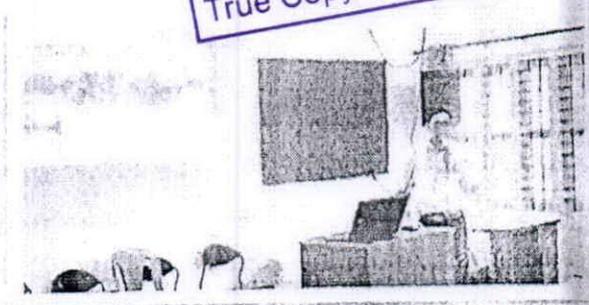
Second day started with the session of Dr. Manoj G Tharian, Associate Professor, Mechanical Engineering Department, Rajagiri School of Engineering & Technology. Session was detailing about how to orient the institutes towards accreditation.

Following that, afternoon session was handled by Fr. Dr. Jaison Paul Mulerikkal CMI, Principal, Jyothi Engineering College. He had detailed the process of NBA Accreditation for various types of institutions and programmes.



Third day started with session of Dr. Shijoh V., Associate Professor, Department of Electrical & Electronics Engineering, Jyothi Engineering College. Session was on the topic OBE - Assessment Tools and Procedures. He explained in detail the various steps in the assessment process and the tools that can be used for the same.

Afternoon session was handled by Dr. Biju C. V., Associate Professor, department of Mechanical Engineering, Jyothi Engineering College. He was explaining efficient teaching learning process and also best practices carried out by various institutes.



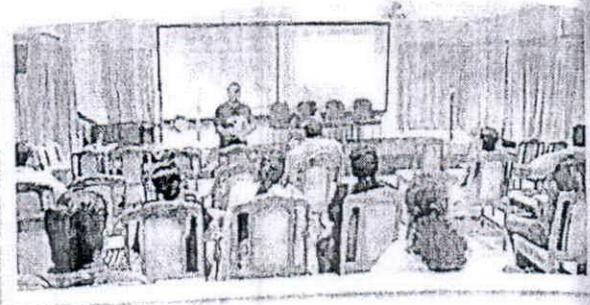
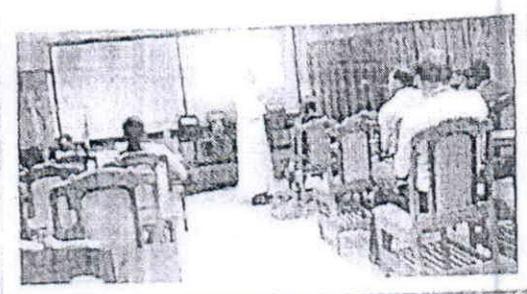
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*honey*  
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Modern AICTE and APJ Abdul Kalam based Engineering Education  
- Pedagogical Issues and Outcome Based Learning

Fourth day morning session was handled by Rev. Dr. Jose Kannampuzha, Director, Jyothi Engineering College. The session was intended to motivate the faculties towards the teaching pedagogy intended for new-gen students.

Afternoon session was handled by Dr. Sreekanth M., CEO, Kabani Tech. The session was about bridging the gap between academia and industry.



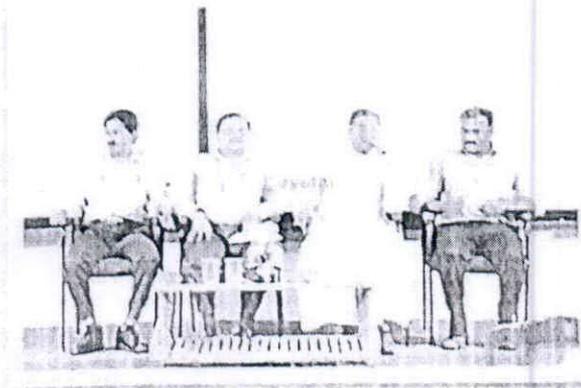
Fifth day morning session was handled by Dr. Praveen A., Department of Civil Engineering, RIT Kottayam on the topic "Examination Reforms". He had delivered the session in the perspective of setting question papers in correlation with course outcomes and blooms taxonomy as per the guidelines of AICTE and APJ Abdul Kalam Technological University.

Afternoon session was handled by Dr. N.M. Jothi Swaroopan, Professor, Dept. of EEE, R.M.K. Engineering College. The session was about the Internal Quality Assurance Cell (IQAC) formation, organizing, planning, implementing and continuous monitoring of academic activities.



The FDP was concluded with a valedictory ceremony lead by Rev. Fr. Dr. Jose Kannampuzha, Director - Academics, Jyothi Engineering College and the participation certificates was distributed to all participants. The participants happily shared their feedbacks and we had a group photo session.

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We, the coordinators use this opportunity to thank KTU for sponsoring the FDP and extending our sincere gratitude to our institution Management, Principal, our Department HoD and faculties for whole hearted support. A special thanks to all the participants and their institute heads for all supports.

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Prepared by

FDP Coordinators

Ms. Anu Sunny

Mr. Jenson Jose

Date : 18-12-2019

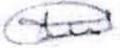
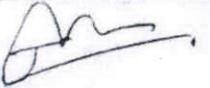
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Faculty Development Program on  
**“MODERN AICTE CURRICULUM BASED ENGINEERING EDUCATION –  
 PEDAGOGICAL ISSUES AND OUTCOME BASED EDUCATION”**

Sponsored by APJ Abdul Kalam Technological University

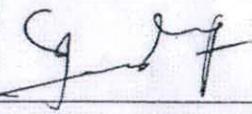
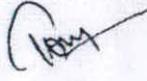
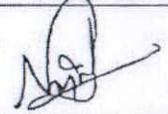
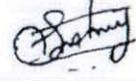
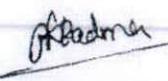
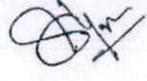
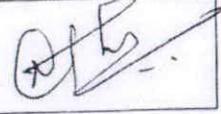
From 2<sup>nd</sup> December to 6<sup>th</sup> December 2019

Sl. No.	Name of the Participant & KTU ID	Institution and Designation of the participant	E-mail id and <u>phone no</u>	Signature
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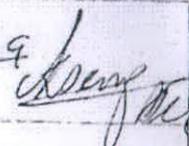
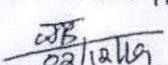
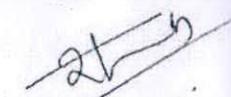
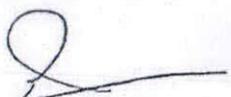
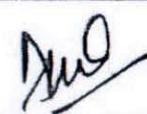
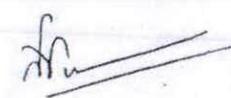
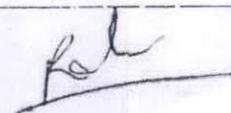
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17	NITIN SIVAKUMAR KTU - F22398	Universal Engineering College. Assistant Professor.	ntrisiva@gmail.com 8281827216	

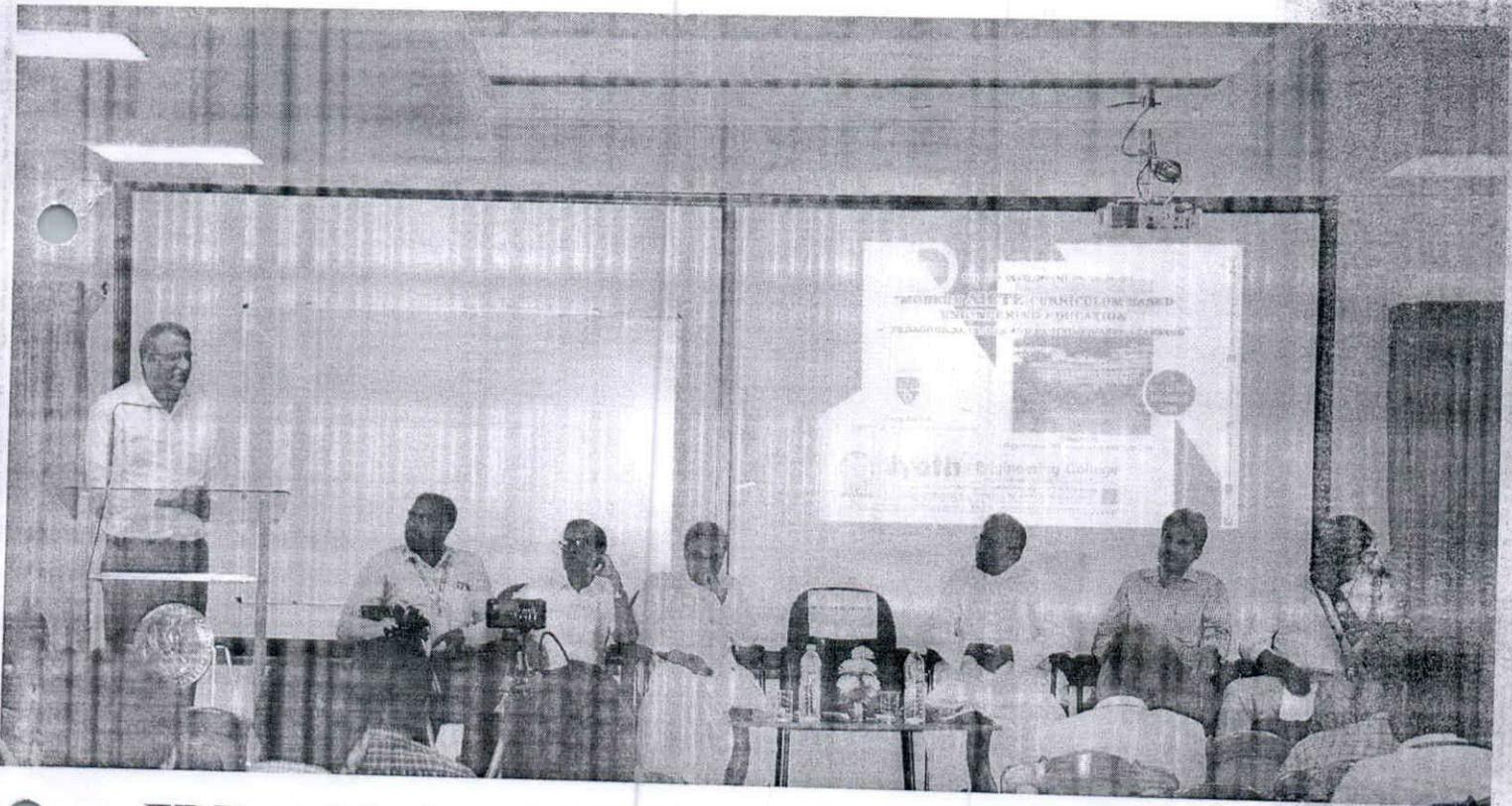
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19	AKHIL. A. BALAKRISHNAN KTU - F8969	Jyothi Engineering College	akhil balakrishnan@jecc.ac.in	9496347625 
20	Neethu Sajeen KTU - F18846	MEA Engg college Assistant professor	neethusajeen@meaec.edu.in 8281167405	
21	ANIL RAJAGOPAL KTU - F239	GEC THRISSUR ASSISTANT PROFESSOR	Anilrajagopal@gmail.com 9447385405	Anil 
22	AFTAB AKARIM KTU - F11389	LBS College of Engg Asst. Prof; meeb	aftabkarim@gmail.com 8089429259	
23	SUNIL S.S. KTU - F35988	Mets School of Engg Mala Asst. Professor	Sunil@meebengg.ac.in 9495661960	
24	Dr. ARUN. M. P KTU - F36462	METS School of Engg. Associate Professor	mparun3@gmail.com 9446184306	
25	Aathira. K. V KTU - F13304	Jyothi Engineering College Assistant Professor	aathira@jecc.ac.in 9995197906	
26	ROHIT MENON KTU - F36240	METS School of Engg. Assistant Professor	rohith171186@gmail.com 9495552390	
27				

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Dr. SUNNY JOSEPH KALAYATHANKAL  
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● FDP on Modern AICTE Curriculum Based Engineering Education - Pedagogical Issues and Outcome Based Learning  
02-12-2019 TO 6-12-2019

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## JYOTHI ENGINEERING COLLEGE

Jyothi Engineering College, Cheruthuruthy (JEECC) is a new generation engineering college started in 2002 and managed by the Archdiocese of Thrissur. It is emerging as a centre of excellence in technical education. The college is approved by AICTE and is affiliated to APJ Abdul Kalam Technological University. It is an ISO 9001:2008 & NAAC Certified Institution with NBA accredited programmes. The college is offering courses in 6 disciplines.

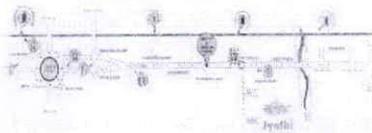
### DEPARTMENT OF ECE

The Electronics & Communication Engineering Department started functioning in the year 2002. The department is provided with all modern equipment and facilities in the labs. The department has conducted various number of Seminars and National level programs for the faculty and students. The department is offering UG and PG Programmes where the UG Programme is NBA accredited. Students of the department have achieved remarkable academic performance and good number of placements under the guidance of expert faculty.

### ABOUT THE PROGRAMME

Wireless communication networks and signal processing are the inevitable areas of communication engineering. The objective of the programme is to enhance the research and teaching capabilities of the participants in these areas. In this FDP, subject experts from esteemed academic institutes and industry will share their experiences with the participants. Emphasis is given on hands-on sessions using open-source tools and MATLAB.

### HOW TO REACH THE COLLEGE



## PROGRAMME OUTLINE

- Wireless Communication Systems & Standards
- Wireless Channel Modelling and Performance Evaluation of Digital Modulation Schemes
- Key Technologies for 5G Wireless Networks
- Simultaneous Wireless Information & Power Transfer (SWIPT) for Wireless Powered Communication Networks
- Transforms for Signal and Image Processing
- One Dimensional and Two Dimensional Signal Processing
- Image Transforms and Denoising
- Multirate Signal Processing
- Speech Processing using MATLAB
- Signal Processing using Machine Learning

### Vision of the Department

Create eminent and ethical leaders in the field of Electronics and Communication through quality professional education to excel in academia and industry.

### Mission of the Department

Provide theoretical and practical knowledge through quality education and life skills training to make competent graduates with leadership and social commitment.

To impart entrepreneurial orientation and motivation for research among the students through knowledge transfer between industrial, academic & research institutions.



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AICTE Sponsored

Two Week Faculty Development Programme on

WIRELESS COMMUNICATION NETWORKS & SIGNAL PROCESSING

4-17 December, 2019



CREATING TECHNOLOGY LEADERS OF TOMORROW  
ESTD 2002

Coordinator

Dr. Jose P Therattil  
Professor & HoD, ECE

Dept. of Electronics & Communication Engineering

Jyothi Engineering College,  
Venkatitiri PO, Cheruthuruthy, Kerala- 679531  
Phone: 04884 259006  
Website: www.jecc.ac.in

## AICTE sponsored Two-week FDP on WIRELESS COMMUNICATION NETWORKS & SIGNAL PROCESSING 4-17 December, 2019 REGISTRATION FORM

Name: Dr./Mr./Ms.....  
Designation:.....  
Educational Qualification:.....  
Specialization:.....  
Department:.....  
Institution:.....  
AICTE Faculty Id:.....  
Professional Experience:  
Teaching.....R&D.....Industry.....  
Address:.....  
Contact No:.....  
Email id:.....  
Payment Details  
DD No./ Transaction no:.....  
Bank Name & Branch:.....  
Accommodation Required: Yes/No

Signature of Participant with Date

### Sponsorship Certificate

Dr./ Mr./ Ms. .... is sponsored to attend two week FDP on "Wireless Communication Networks & Signal Processing" to be held from 4<sup>th</sup> to 17<sup>th</sup> December, 2019 at Jyothi Engineering College, Cheruthuruthy.

Place: Signature of Head of the

## ORGANIZING COMMITTEE

### Chief Patron:

- H.G. Mar Andrews Thazhath, Chairman

### Patrons:

- Msgr. Thomas Kakkasserry, Manager
- Fr. Roy Joseph Vadakkan, Executive Director
- Rev. Dr. Jose Kannampuzha, Director Academics
- Dr. U Lazar John, Director Industry & Human Relations
- Sr. Dr Rose Anitha, Director Research
- Er. Thomas Mathew, Administrator

### Organizing Chairman

- Fr. Dr. Jaison Paul Mulerikkal, CMI, Principal

### Executive Committee:

- Dr. Vivek Lukose, Associate Professor
- Dr. Anoop V, Associate Professor
- Ms. Annie P Joseph, Associate Professor
- Ms. Sindhu S, Associate Professor
- Dr. Prajoon P, Assistant Professor
- Dr. Nivitha Varghees V, Assistant Professor
- Ms. Shiny M I, Assistant Professor
- Mr. Dipinkrishnan R, Assistant Professor
- Fr. David Nettikadan, Assistant Professor
- Ms. Bindhu K Rajan, Assistant Professor
- Mr. Rijo P C, Assistant Professor
- Ms. Drisya M K, Assistant Professor
- Ms. Ambily Francis, Assistant Professor
- Mr. Ponmani Raja M, Assistant Professor
- Ms. Roshni Rajan K, Assistant Professor
- Ms. Neethu Rose Thomas, Assistant Professor
- Ms. Shaicy P Shaji, Assistant Professor
- Ms. Saritha P, Assistant Professor
- Mr. Jinesh K J, Assistant Professor

## ELIGIBILITY

The programme is open to all Faculty, Research scholars from AICTE approved Engineering colleges/polytechnics. Participants from industries are also welcome. The participants will be selected on a first come first serve basis.

## REGISTRATION FEES (REFUNDABLE)

Participants: Rs 1000/-

- The Registration fees will be refunded

Account No: 15250100001019

IFSC code: FDRL0001525

Branch: Federal Bank, Cheruthuruthy,

Extension counter

Registration can be done online. For details visit

Website: [www.jecc.ac.in](http://www.jecc.ac.in)

Direct link: <https://tiny.cc/jeccfdn>

## FACILITIES

- Lunch and refreshments will be provided.
- TA to outstation candidates as per AICTE norms
- Accommodation will be provided free of cost in college hostels for eligible outstation participants on prior request.

## IMPORTANT DATES

Last date of online registration: 27/11/2019

Information about selection: 30/11/2019

## CONTACT PERSONS

Dr. Anoop V, Associate Professor, ECE

Mob: +91 9895837646

All: 04884 259006

Dr. SUNNY JOSEPH KALAYATHANKAL

M.Tech, MCA, M.Sc, M.Phil, B.Ed

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

**REPORT**  
**On**  
**AICTE SPONSORED TWO WEEK**  
**FACULTY DEVELOPMENT PROGRAMME (FDP)**  
**WIRELESS COMMUNICATION NETWORKS & SIGNAL PROCESSING**  
**4-17 December, 2019**

The Electronics and Communication Engineering department of Jyothi Engineering College has organized AICTE sponsored two week faculty development Programme “**Wireless Communication Networks & Signal Processing**” from 04/12/2019 to 17/12/2019. The FDP program received an overwhelming response 50 participants from various institutes/colleges approved by AICTE and affiliated to various Universities across India.

**Date: 04<sup>th</sup> Dec, 2019**

**Day1: Inauguration Session**

FDP was inaugurated on 04<sup>th</sup> Dec, 2019 by Dr. Achuthsankar S Nair, Professor, Dept. of Computational Biology & Bioinformatics, University of Kerala, Karyavattom, Thiruvananthapuram, Kerala, along with Rev.Dr. Jose Kannampuzha, Academic Director Jyothi Engineering College, Fr.Dr.Jaison Paul Mulerikkal Principal, Jyothi Engineering College, Dr. Jose P Therattil Professor & HOD ECE, Coordinator of the FDP.



Dr. Jose P Therattil has welcomed all the dignitaries and delegates. In his welcome speech, he highlighted the importance and objectives of organizing this faculty development programs.

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*[Signature]*  
**Dr. SUNNY JOSEPH KALAYATHANKAL**  
 M.Tech, MCA, M.Sc, M.Phil, B.Ed  
 Computer Science, Ph.D (Maths)



On this occasion, Rev. Dr. Jose Kannampuzha in his presidential address, described the overall development of the institute and achievement of the college from its inception. Also highlighting the conceptual understanding of the various research methods, tools and techniques is an essential prerequisite to conduct empirical research in different areas like management, science, technology etc.



Principal Dr. Jaison Paul Mulerikkal in his address highlighted the importance of next generation technologies and its applications in the engineering field. Also highlighted the importance of research along with the teaching learning process.

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M.Tech, MCA, M.Sc., M.Phil., B.Ed

Dr. Achuthsankar S Nair officially inaugurated the Faculty development Programme by lighting the lamp along with the dignitaries.



In his inaugural speech, Dr. Achuthsankar S Nair gave insight regarding various research funding schemes available for researchers and teachers of the affiliated institutions. He emphasized that quality among teachers can be built only through development programs. Dr. Achuthsankar S Nair also pointed out the need of being a social engineer in the current scenario. Also mentioned examples of some real life problems where Engineering and technology can be applied.

The inaugural session was concluded with a felicitation by Er. Bobby Peter, Asst Administrator and a vote of thanks given by Prof. Annie P Joseph, Associate professor, Department of Electronics & Communication Engineering.

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**Date: 04-12-2019**

**Technical Session: 1**

**Topic: Insight to signal processing**

**Resource Person: Dr Achuthsankar S. Nair**

The first technical session was started with formal welcome note by Prof. Annie P Joseph Associate professor, Dept. Of ECE The resource person of this session Dr. Achuthsankar S Nair delivered a technical talk on the topic 'Insight to Signal Processing'

He explained the applications of Fourier transform for solving real life Engineering problems and its applications in the signal processing area The session was ended with the vote of thanks given by Dr.Nivitha.V Assistant Professor, ECE. Dr. Jose P Therattil ,HOD ECE presented a memento to the resource person as a token of gratitude.



**Date: 04 Dec, 2019 (AN) & 05 Dec 2019**

**Technical Session: 2,3,4**

**Topic: Transforms for signal and image processing**

**Resource Person: Dr. Esakkirajan**

Dr. Prajoon.P P Assistant professor, JEC, has commenced the session by welcoming the resource person and the delegates. After that, the resource person of this session, Prof. Dr. Esakkirajan discussed about various Transforms for signal and image processing. An overview of one dimensional and two-dimensional signal processing and practical session related to the transforms are also given to the participants. The session was ended by a formal vote of thanks by Dr. Anoop V, Associate professor, JEC. Dr. Jose P Therattil ,HOD ECE presented a memento to the resource person as a token of gratitude.



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**Date: 06 Dec,2019**

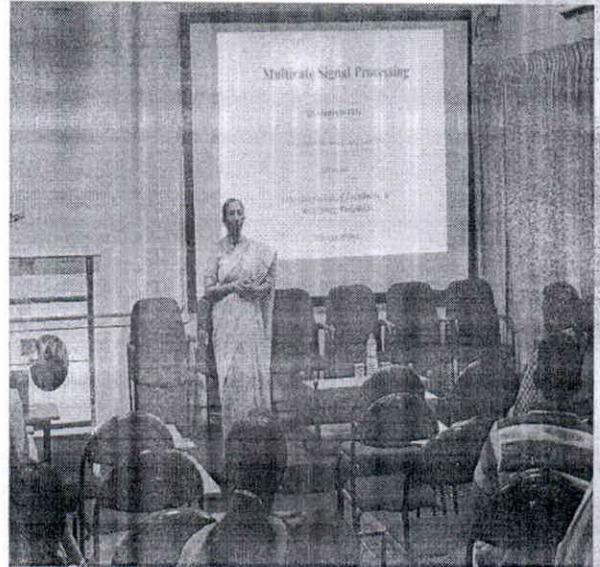
**Technical Session: 5,6**

**Topic: Multirate Signal Processing**

**Resource Person: Dr. Elizabeth Elias**

Ms. Annie P Joseph, Associate Professor, JEC welcomes the resource person of the session. The resource person was Dr. Elizabeth Elias. She shared his views on Multirate signal processing and its applications. She also gave an insight on recent research trends on Multirate signal processing. At the end of the session, Mr. Dipin Krishnan, Assistant Professor, JEC presented vote of thanks.

Dr. Jose P Therattil ,HOD ECE presented a memento to the resource person as a token of gratitude.



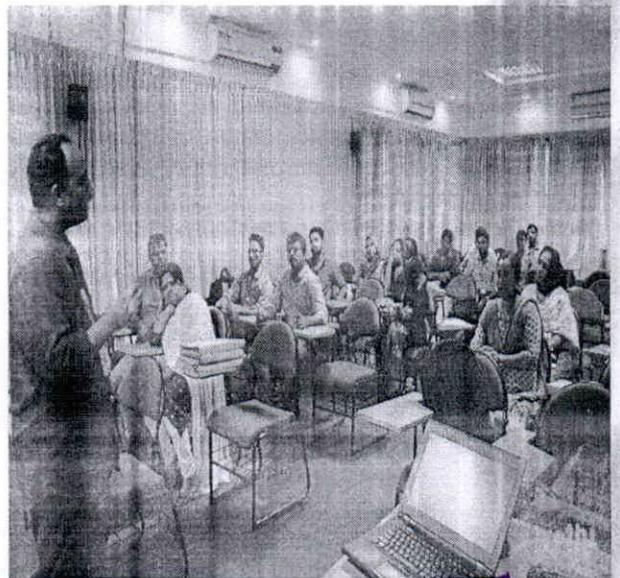
**Date: 07 Dec,2019**

**Technical Session: 7,8**

**Topic: Introduction to Machine Learning**

**Resource Person: Dr. Vinith R**

Ms. Nyni. K A, Assistant Professor, JEC welcomes the resource person of the session. The resource person was Dr. Vinith R. He discussed the role of Machine learning in signal processing applications and recent research trends. At the end of the session, Mr. Dipin Krishnan, Assistant Professor, JEC presented vote of thanks. Dr. Jose P Therattil ,HOD ECE presented a memento to the resource person as a token of gratitude.



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**Date: 09,10 Dec, 2019**

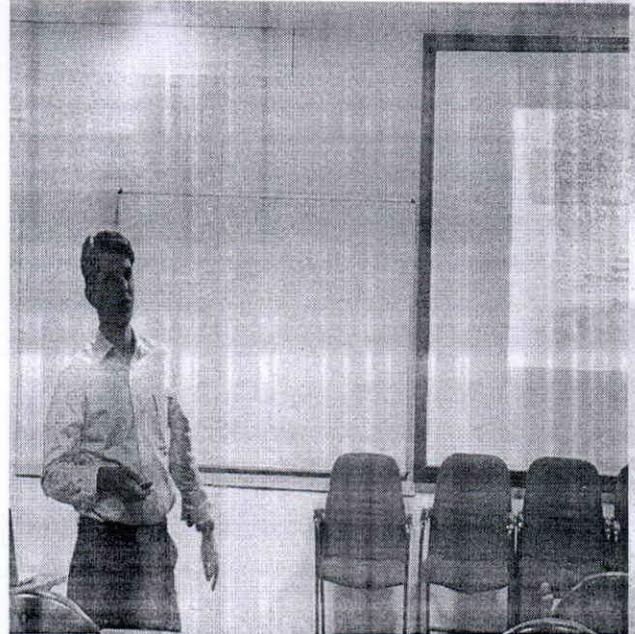
**Technical Session: 9,10,11&12**

**Topic: Wireless Communication Networks**

**Resource Person: Dr AV Babu**

In the day 5<sup>th</sup>, technical session welcome note was presented by, Dr. Jose P Therattil, HOD ECE JEC, Dr.AV Babu was the resource person The following topics were discussed during the sessions Wireless channel modeling and Performance evaluation of digital modulation schemes, Wireless Communication Systems & Standards: From 1G to 5G. Key Technologies for 5G Wireless Networks. The session ended with a vote of thanks by Ms. Nyni KA Assistant

professor, ECE. Dr. Jose P Therattil HOD ECE presented a memento to the resource person as a token of gratitude.



**Date: 11 Dec, 2019**

**Technical Session: 13,14**

**Topic: Software Defined Radio**

**Person: Dr.Gandhiraj R**

The Seventh day technical session was started with formal welcome note by Ms Annie P Joseph, Associate Professor, JEC. Resource person of the technical session was Dr.Gandhiraj R. He delivered a hands on session on software defined radio.



The session ended with a vote of thanks by Ms. Nyni KA Assistant professor ,ECE. Dr. Jose P Therattil, HOD ECE presented a memento to the resource person as a token of gratitude.

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

**Date:12-12-2019**

**Field Visit**

In order to provide relaxation for the participants and to familiarize locality to outside participants we have arranged trip to Kayaloram for boating and leisure activities. We started from the college around 9.15AM and returned by 6.30PM



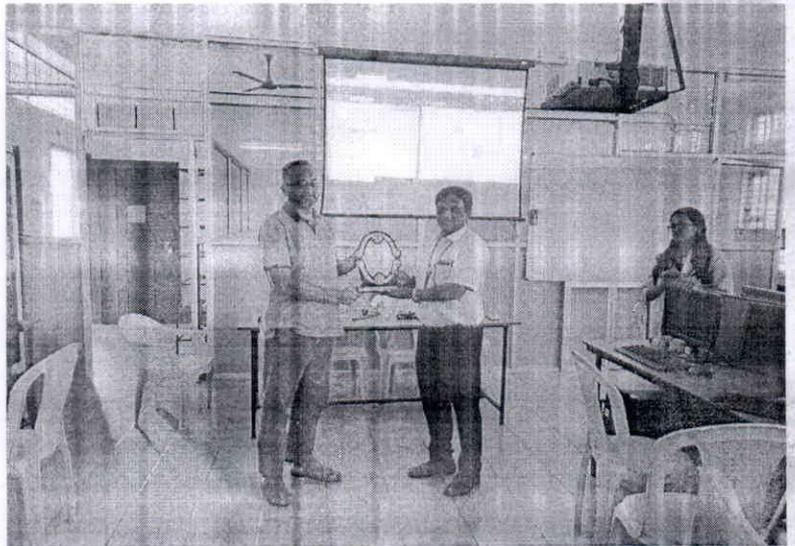
**Date: 13 Dec,2019**

**Technical Session: 15,16**

**Topic: Collaborative Technical Writing**

**Resource Person: Dr. K.A NAVAS**

Dr.Prajoon.P P Assistant professor ,JEC welcomed the resource person of the day Dr. KA. Navas. His topic of discussion was collaborative technical writing .In his demonstration he explained the importance of using LaTeX for technical writing. The session was ended by a formal vote of thanks by Ms. Nyni. KA Assistant professor, JEC. Dr. Jose P Therattil, HOD ECE presented a memento to the resource person as a token of gratitude.



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College

**Date: 14 Dec, 2019**

**Technical Session: 5**

**Topic: 17,18**

**Resource Person: Dr. Vimalathithan. R**

The Seventh day technical session was started with formal welcome note by Ms Annie P Joseph, Associate Professor, JEC. Resource person of the technical session was Dr. Vimalathithan .R The topic of discussion was IoT application Case studies using LoRa. Also demonstrated a hands on session on the topic 'Establishing a LoRa WAN and developing Applications' The session was ended by a formal vote of thanks by Ms. Nyni. KA Assistant professor, JEC. Dr. Jose P Therattil ,HOD ECE presented a memento to the resource person as a token of gratitude.



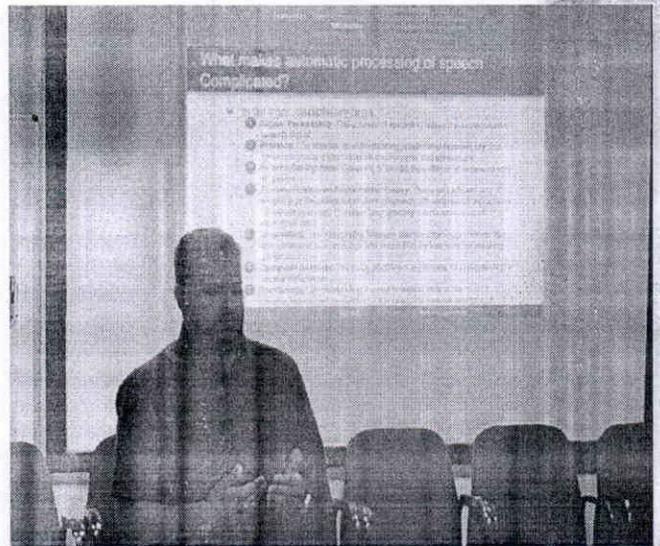
**Date: 16,17 Dec, 2019**

**Technical Session: 19,20,21**

**Topic: Speech Processing**

**Resource Person: Dr. Govind D**

On the beginning of Final technical session, welcome note was presented by, Ms. Annie P Joseph, ECE,JEC. Then Dr. Govind D as a resource person of the session highlighted the basic concepts of speech processing with hands on. He also pointed out the current research going in this area. The session was ended by a formal vote of thanks by Ms. Nyni. KA Assistant professor, JEC. Dr. Jose P Therattil ,HOD ECE presented a memento to the resource person as a token of gratitude



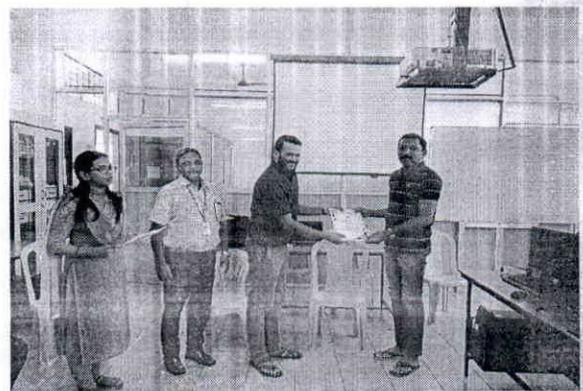
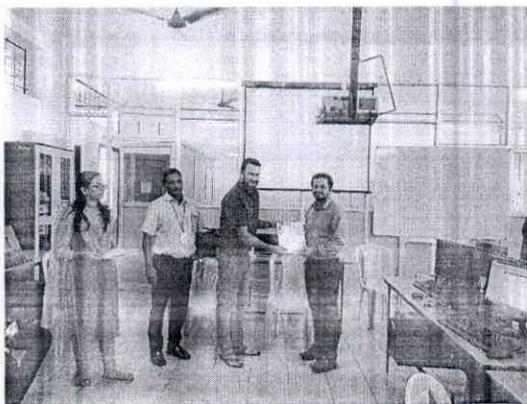
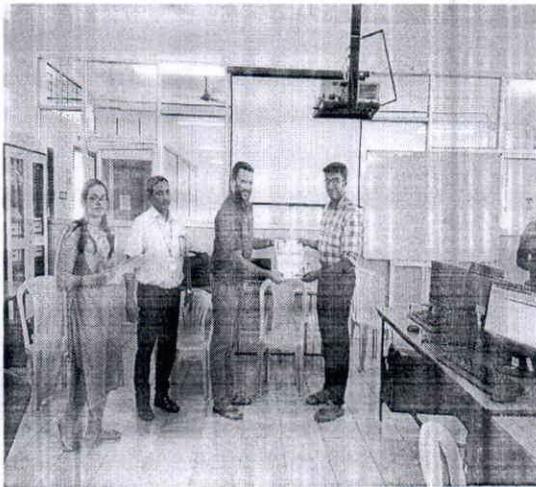
**Date:17 Dec, 2019**

**Valedictory Session**

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**DR. SUNNY JOSEPH KALAYATHANKAL**  
M.Sc. M.Phil. B.Ed.

On the valedictory ceremony, the department HOD Dr. Jose P Therattil , FDP coordinator and all the faculty members of the department are present. In this function Dr. Govind D distributed certificate for participants. At the end, the valedictory session was concluded with a vote of thanks given by Dr. Jose P Therattil, in which he has been paid his gratitude towards all the dignitaries who has spared their time and come from a far distance places to share their expertise with the participants. Nevertheless, he has given thanks to sponsoring body of this FDP i.e. AICTE with these words, "We are highly thankful to the AICTE for providing financial assistance to organize this FDP in our campus and hope we will find the support in future also for organizing such kind of activities."



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FDP Coordinator

Head of the Institution

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Sl	Name	AICTE-ID
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2	Ms. Sreedevi MG	1-4366865132
3	Ms. Soumya AS	1-3201626445
4	Dr. Riboy Cherian	1-463744601
5	Mr. Kannan A	1-409857631
6	Prof. Vishwas Vitthal Patange	1-443757481
7	Prof. Waghmare Dipratna	1-443909418
8	Prof. Deepak.C.Poul	1-450994661
9	Dr. Anto Sahaya Dhas	1-3220310553
10	Dr. Roshini T V	1-487454825
11	Ms. Lekshmy S	1-409681461
12	Ms. Shimna P K	1-487454805
13	Ms. SudharsanaVijayan	1-3216683069
14	Mr. Boyapati Sathish Kumar	1-2493741749
15	Ms. Anooja B	1-720136796
16	Ms. Asmabi.V	1-3027555289
17	Mr. Mr.Asok K	1-464320930
18	Mr. Mr.Abdul Rias	1-467544490
19	Ms. Ajeena A	1-716404386
20	Dr. Bipin PR	1-472626359
21	Dr. Lince Mathew	1-3560378810
22	Dr. Vishnu Rajan	1-441737121
23	Dr. Vijikala.V	1-3356634365
24	Ms. Binet Rose Devassy	1-426061490
25	Ms. Ligisha P	1-232501703
26	Ms. Shahnas P	1-1568726370
27	Ms. Summayya TK	1-3585807338
28	Mr. Vinod C	1-445545219
29	Mr. Praveen PN	1-475551195
30	Ms. Jaseena T	1-749364346
31	Dr. Jiby Jose	1-4793228774
32	Mr. Vipin Thomas	1-467717916
33	Mr. Joyal Ulahannan	1-464158085
33	Ms. Meenu Verghese	1-484252959
34	Mr. Manoj MK	1-446173232
35	Ms. Priya KP	1-445039599
36	Ms. Shaicy P Shaji	1-3391197024
37	Dr. Prajoon P	1-3636891233

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38	Ms.	Sindhu S	1-419512071
39	Ms.	Bindhu K	1-722540992
40	Ms.	Roshni Rajan	1-710633102
41	Mr.	Ponmani Raja	1-421172631
42	Mr.	Jinesh KJ	1-457405531
43	Ms.	Neethu Rose Thomas	1-464398985
44	Ms.	Nyni KA	1-422474457
45	Ms.	Drisya	1-464398985
46	Ms.	Soumya AS	1-422474457
47	Ms.	Ambily Francis	1-422722920
48	Ms.	Sushama M	1-717031000
49	Ms.	Liji F	1-424127745
50	Mr.	Jithin Jose	1-1430817124

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AICTE Sponsored FDP on Wireless communication network and signal processing  
04-12-2019 TO 17-12-2019

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## ORGANIZING COMMITTEE

### CHIEF PATRON

V. Msgr. Thomas Kakkassery, Manager

### PATRONS

Rev. Fr. Roy Joseph Vadakkan,  
Secretary & Campus Head  
Er. Thomas Mathew, Administrator  
Er. Bobby Peter, Asst. Administrator  
Lt. Col. Jacob Ed (Rtd.), Asst. Administrator

### ORGANIZING CHAIRMAN

Rev. Dr. Jaison Paul Mulerikkal CMI, Principal

### EXECUTIVE COMMITTEE

Rev. Dr. Jose Kannampuzha, Director-Academics  
Sr. Dr. Rose Anitha, Director-Research  
Dr. U. Lazar John, Director-IR & P  
Prof. Ratnan P, Vice Principal

### CONVENOR

Dr. Biju P. L, HoD, ME

### CO-ORDINATORS

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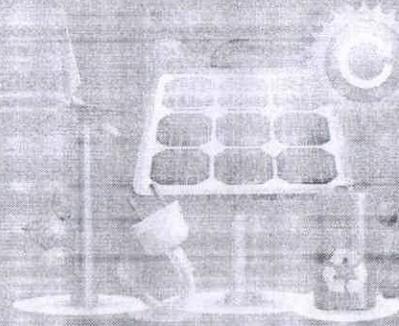
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### IMPORTANT DATES

Last date for registration: 30/12/2019  
Information about selection: 31/12/2019

*Romy*  
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### ELIGIBILITY

The programme is opened to all faculty from colleges affiliated to KTU. The maximum number of participants is limited to 30 on a first come, first served basis.

### How To Apply

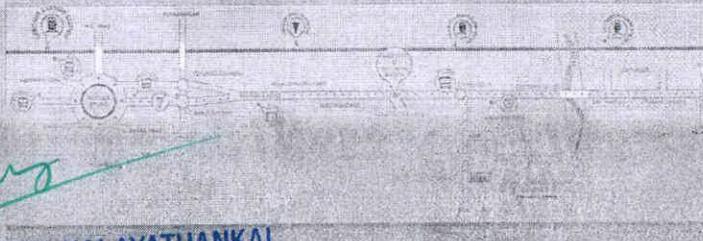
Registration Fee : Rs 500/-  
\*The registration fee will be refunded after the completion of the programme.

To apply, visit <http://www.jecc.ac.in>

### FACILITIES

Lunch and refreshments will be provided. Hostel facilities are available for outstation participants on request.

### HOW TO REACH JECC?



## Faculty Development Programme on Renewable Energy Sources: Conversion, Storage & Applications



6 - 10  
January  
2020

Organized by  
Department of Mechanical Engineering  
Jyothi Engineering College, Cheruthuruthy

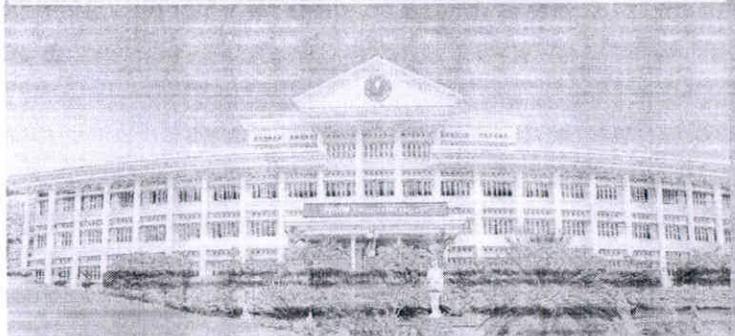


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**About the Institution**

Jyothi Engineering College (JEC), Cheruthuruthy an outcome of Thrissur Educational Trust founded by the Catholic Archdiocese of Thrissur, started functioning at Cheruthuruthy from the year 2002. With a visionary management, a team of dedicated faculty, devoted staff and with the ample infrastructural facilities, Jyothi has emerged as one of the model self-financing colleges in Kerala. Within a decade, it has achieved an envious position among the Engineering Colleges affiliated to APJ Abdul Kalam Technological University. Today Jyothi is a NAAC accredited institution which offer NBA accredited programmes. The vision of Jyothi is to create eminent and ethical leaders through quality professional education with emphasis on holistic excellence. Jyothi is located on Thrissur-Shoranur highway about 6 kms from Shoranur Junction Railway station and 77 kms from Cochin International Airport. The institution is currently offering following degree programs.

**Bachelor Degree Program (Under Graduate Courses):**

- Civil Engineering\*
- Computer Science and Engineering\*
- Electrical & Electronics Engineering\*
- Electronics & Communication Engineering\*
- Mechanical Engineering\*
- Mechatronics Engineering # NBA accredited programs

**Master Degree Program (Post Graduate Courses):**

- Computer Science & Engineering
- Communication Engineering & Signal Processing
- Industrial Automation & Robotics
- Power Electronics
- Transportation Engineering

**Research Program:**  
Ph. D in Engineering & Technology

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**About the Department**

The Department of Mechanical Engineering was established during the year 2004. The department has well equipped laboratories and is accredited with NBA for B.Tech programme. The department has well qualified and experienced faculty members whose areas of specialisation include Thermal and Energy Engineering, Product Design and Development, Manufacturing and Material Science, Mechatronics, Computer Integrated Manufacturing, Automobile Engineering etc. The department offers B.Tech in Mechanical Engineering, M.Tech in Industrial Automation & Robotics and PhD in Mechanical Engineering streams.

**About the programme**

Renewable energy, often referred to as clean energy, comes from natural sources or processes that are constantly replenished. It includes solar, wind, geothermal, hydropower and tidal energy, plus biofuels that are grown and harvested without fossil fuels. Non-renewable energy, such as coal and petroleum, require costly explorations and potentially dangerous mining and drilling, and they will become more expensive as supplies dwindle and demand increases. Renewable energy produces only minute levels of carbon emissions and therefore helps combat climate change caused by fossil fuel usage.

**Course Objective**

The course is intended to discuss the recent advances on the renewable energy technologies and systems including the basic working principle. The major topics dealt with in this programme are (i) Renewable energy technologies (ii) Solar Photovoltaic and Thermal Energy (iii) Biomass Energy (iv) Wind Energy (v) Grid connected renewable energy system (vi) Energy Resource Mapping (vii) Simulation tools etc. The course will also cover the laboratory components of these energy systems and field visit. Experts from reputed academic institutes, research laboratories and industries will deliver lectures.

KTU Sponsored FDP on  
Renewable energy sources  
Conversion Storage and Applications  
**REGISTRATION FORM**

Name: .....

Designation: .....

Name of the institution: .....

Food Preference : Veg/Non Veg

Email: .....

Mobile: .....

**DECLARATION**

The informations provided is true to the best of my knowledge. If selected, I agree to abide by the rules and regulations of the course and shall attend the course for the entire duration. I also undertake responsibility to inform the coordinator in case I am unable to attend this course.

Place: .....

Date: ..... Signature of Candidate

**SPONSORSHIP CERTIFICATE**

Mr./Ms. ....  
is a member of Faculty of our Institution: .....  
and is hereby sponsored for the Faculty Development Programme on 'Renewable Energy Source Conversion, Storage and Applications' at Jyothi Engineering College, Cheruthuruthy from 6<sup>th</sup> to 11<sup>th</sup> January 2020. He/She is permitted to attend the FDP if selected.

Official Seal ..... Signature of the Sponsoring Authority

**Report of the Faculty Development Programme (FDP) conducted by Mechanical Engineering Department during 6<sup>th</sup> to 10<sup>th</sup> of Jan. 2020.**

The faculty Development Program (FDP) on the title “Renewable Energy Sources: Conversion, Storage & Applications” Sponsored by APJ Abdul Kalam Technological University conducted during 6<sup>th</sup> to 10<sup>th</sup> Jan. 2020. In addition to the formal inauguration session nine more technical sessions with participants’ active interactions made the programme extremely attractive to the academic and research community.

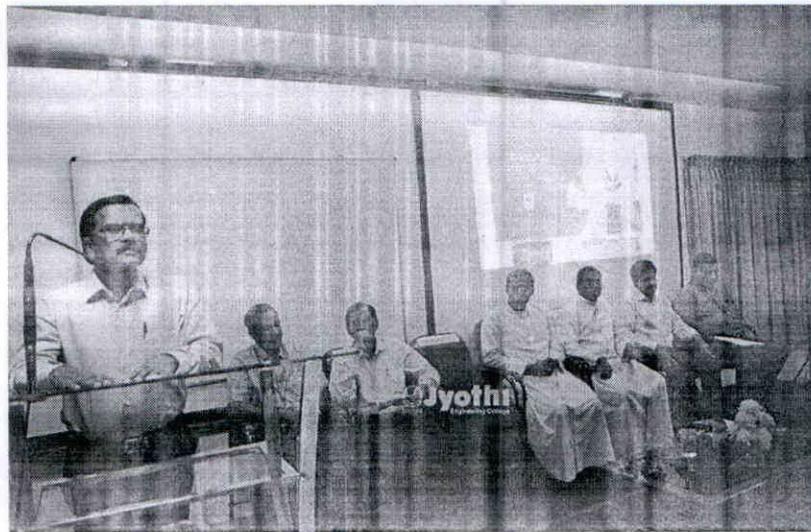
The inaugural function was chaired by Fr. Dr. Jose Kannampuzha. Dr. Biju P.L. Head of Mechanical engineering Department delivered the welcome speech. The chief guest of the function Dr. K.K. Ramachandran highlighted the importance of the topic. All together 36 participants from 8 colleges attended the function. The resource person from reputed academic institutions and industry balanced the theoretical and practical aspects of the topic.



On the Day-1 6<sup>th</sup> Jan. 2020 forenoon session was handled by Dr. K.K. Ramachandran, Associate Professor, Mechanical Engineering Department at Government Engineering College, Thrissur. The presentation was focused on the latest research developments, applications, scope and future potential in fuel cells technology. The presentation on Hydrogen fuel cells for automobiles was one of the brain storming sessions in the programme.

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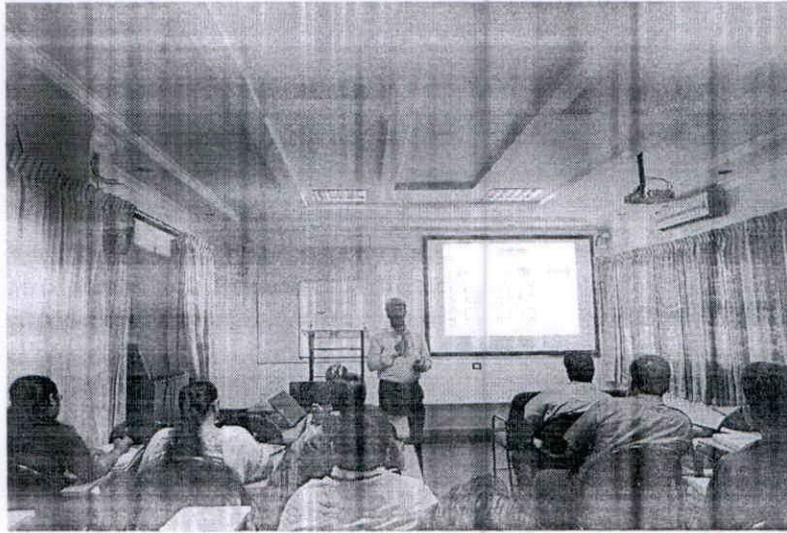
The afternoon session handled by Dr. Saji Vazhappilly, Scientist – E, HoD (CFD&AUV), DRDO-Naval Science & Technological Laboratory (NSTL), Vishakapattanam was an eye opening to the Engineering Faculty to know about the importance of CFD applications in renewable energy. The latest developments in the simulation of fluid and thermal systems, physical significance of various governing equations used in the CFD, etc. were the limelight of the presentation.



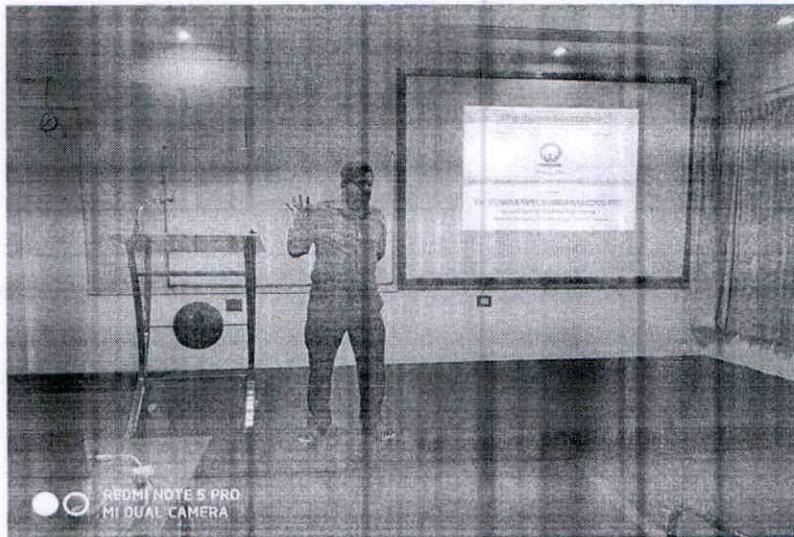
Dr. M Mubarak, MEA College, Malappuram who is an expert in the area of Algae based bio fuels, delivered an excellent session on 7<sup>th</sup>, Jan. 2020. The development of experimental support and quantitative and qualitative measurement the bio fuel produced in the process etc. were the burning topics in the non conventional energy domain.

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The second session on Day-2, started at 1.30pm. The international personality- Dr. S Kumaravel, from National Institute of Technology Calicut, who is an icon of the practicing the concept the micro-grid and distributed generators enlightened the participants about the advantage of distributed generators over the centralized power generation systems.



Third day on 8<sup>th</sup> Jan. 2020, Dr. Deepanraj B, Associate Professor in Mechanical Engineering Department at Jyothi Engineering College, Cheruthuruthy presented the latest development in the anaerobic digestion process. The resource person having large number of the high impact factor publications, illustrated about the various technical aspects of anaerobic process based on the prolific research conducted by him and explained the scope and the state of the art facilities to carryout excellent research in the area of anaerobic digestion process.

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To have an real time experience on production, testing and storage of bio energy which is included as part of waste management program of the university, all the participants of the FDP, visited Kerala Veterinary and Animal Sciences University, Thrissur. The Dr. Deepak Mathew, Assistant Professor of the Agricultural University demonstrated various activities associated in the bio energy formation process. The specification of the different equipments and instruments used, safety measures etc were well explained to the participants.



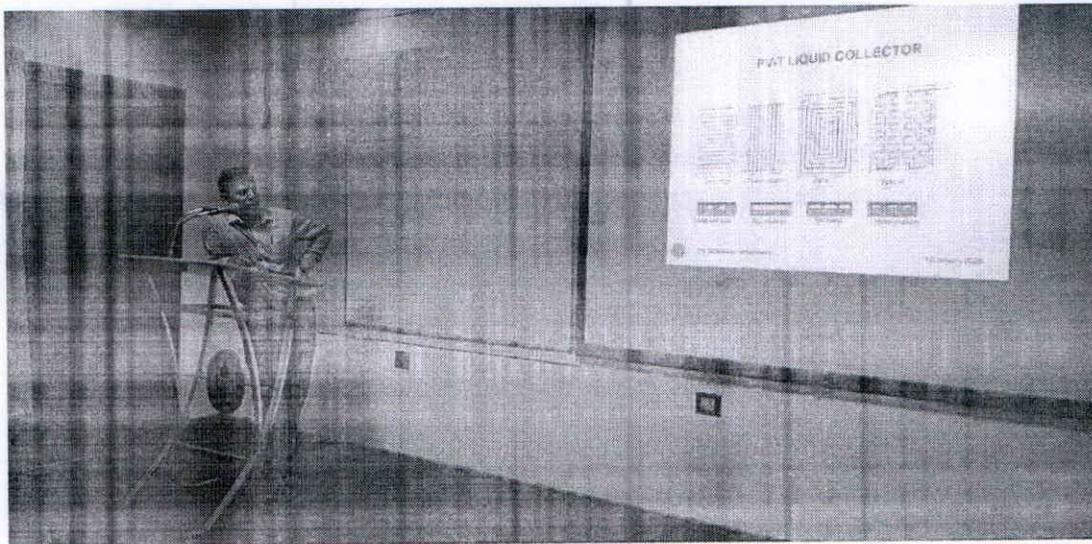
On the fourth day of the programme, 9th Jan. 2020, both forenoon and afternoon session were handled by eminent industrialist, Mr. Sreenivas, KST Wind Engineering, Tirupur. The focus of the forenoon session was the current practice, scope, challenges and future potential of harnessing non-conventional energy from wind. The strategy followed in foreign countries to harness wind

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energy, the challenges behind the technologies to harvest wind, the quality and storage of energy etc. were discussed in detail. The afternoon session dealt with storage technologies for renewable energy. Technical aspects, potential and future challenges of pumped hydroelectric, compressed air, wind driven, battery, liquid air, hydrogen, supercapacitors superconducting magnetic energy storage etc. were clearly illustrated and explained.

In the concluding day 10th Jan 2020, the subject of focus was solar heat pumps and nuclear fusion energy. The forenoon session was handled by Dr. Mohanraj, Professor from Hindustan College of Technology, Coimbatore. In the presentation, he highlighted the latest technical developments in the solar photovoltaic thermal (PV-T) hybrid heat pumps. In his presentation, different energy efficient configurations of PV-T hybrid heat pumps for drying crops were demonstrated. The optimization of the efficiency of PV-T hybrid heat pumps by using thermodynamic modeling was also discussed. The recent research in the area of PV-T evaporators, efficiency analysis etc. were also shared in the forenoon session.



The afternoon session started with the importance of nuclear energy, which is widely used in submarines, space technologies etc. The chronological developments in the area and the steps taken to ensure safety of both the operators and the society in the nearby area are also explained with proper examples. The challenges to deal nuclear waste, and the strategies adopted by the pioneers in this domain were beautifully presented in the last session of the FDP.

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At 3.00 pm, the valedictory function of the FDP was started at "INSIGHT" hall. The coordinator of the programmer Dr. George Raphael presented the short report of the program. All the 31 participants shared their five days experience in the valedictory function. They unanimously appreciated the selection of the resource person and the conduct of the programme. After the distribution of certificates to the participants, Coordinator Dr. Deepanraj B delivered vote of thanks and the five days faculty development programme was concluded by National Anthem.

#### Participant Feedbacks



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Certificate Distribution



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34

**Jyothi Engineering College, Cheruthuruthy**

Department of Mechanical Engineering

Faculty Development Program on "Renewable Energy Sources: Conversion, Storage and Applications"

Sponsored by APJ Abdul Kalam Technological University

January 06-10, 2020

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Faculty Development Programme (FDP) "Renewable Energy Sources: Conversion, Storage & Applications" 06-01-2020 to 10-01-2020.

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# Jyothi

## Engineering College



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### workshop on

# "Guidelines for Writing Research Proposals & Research Papers"



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Speaker: Dr. Jacob Philip, Dean - Academics,  
Amal Jyothi College of Engineering, Kanjirapally

**Dr. SUNNY JOSEPH KALAYATHANKAL**

M.Tech, MCA, M.Sc, M.Phil, Ph.D

organized by

Jyothi Centre for Research and Development, JECC

on  
10<sup>th</sup> January  
2020

35  
10-01-2020

## Report of Research Workshop on Guidelines for Writing Research Proposals & Research Papers

Jyothi Centre for Research and Development (JCRD) organized a one day workshop - Guidelines for Writing Research Proposals & Research Papers on Friday, 10th January 2020. The Speaker of the workshop was Dr. Jacob Philip, Dean -Academics, Amal Jyothi College of Engineering, Kanjirapally on the topic "Guidelines for Writing Research Proposals & Research Papers". The workshop Started at 10.30 am with a prayer. Sr. Dr. Rose Anitha welcomed the gathering. Rev. Dr. Jose Kannampuzha, highlight the importance of research for the growth of institution. Rev. Dr. Jaison Paul Mulerikkal, discussed on funded projects and publications. Dr. Jacob Philip handled the sessions on ethics in research, guidelines/tips to write research papers and doctoral thesis, and various opportunities in engineering science which was followed by active discussion. Sixty six faculty members participated in the workshop and Certificate of Participation was distributed. The workshop was concluded at 05.00 pm.

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Research and Development, JECC, Thrissur  
 "Guidelines for Writing Research Proposals & Research Papers"

10/01/2020

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34	Vincy Verghese	CE		
35	Aswathy Woolson	CSE		
36	Namitha TN	CSE		
37	Swapna B-Sai	CSE		Exam
38	Sajitha I	CSE		FDP
39	Minu Francis	CSE		
40	Reshma K.V	CSE		
41	NYNI K.A.	MR		Exam du
42	Annua P. Joseph	ECE		Visit sch
43	Amarly FRANCIS	ECE		Camp duty
44	DRISYA H K	ECE		
45	Neetha Rose Thomas	ECE		
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47	CAROL VARRIHESE	CE		
48	DR. AGINES ANID C	CE		
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50	Shiny M.G	ECE		
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53	Aswathy Rajan	ECE		
54	Anu Sunny	EEE		Camp duty
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56	Fr. David M	CCE		
57	NIDIE P	FCE		
58		B3H		

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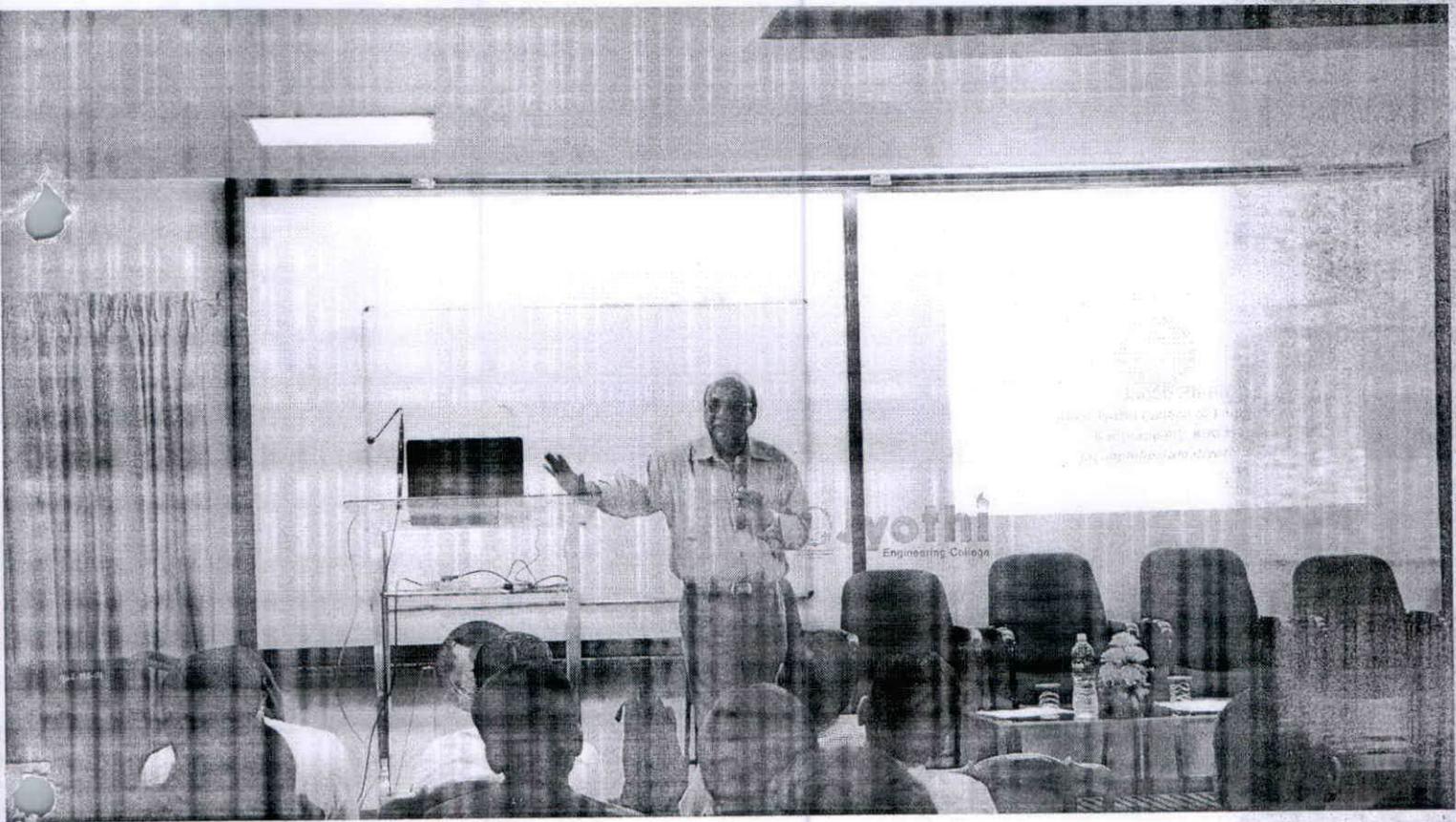
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62	Shaiyy P Shaji	ECE		
63	Datta Dand	EE	Exam duty	
64	Unnikrishnan P	CSE	Exam duty	
65	Lufaya George C	CSE	Exam Duty	
66	Dr. Deepatray B	ODE	Exam duty	

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Guidelines for writing Research Proposals & Research Papers  
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Three days online STTP on  
STATE OF THE ART PRACTICES IN  
TRANSPORTATION ENGINEERING

June 10-12, 2020



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Organized by  
Department of Civil Engineering  
**Jyothi Engineering College**  
Cheruthuruthy, Thrissur, Kerala

in association with  
**Indian Society for Technical Education**  
(ISTE)



Registration link:-  
<https://forms.gle/SdW8H5dGzFvXkKr36>



**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

**JYOTHI ENGINEERING COLLEGE**

Jyothi Engineering College is a new generation engineering college started in 2002. The College offers courses in six disciplines and is center of excellence in technical education managed by Archdiocese of Thrissur. The college is approved by AICTE and is affiliated to APJ Abdul Kalam Technological University. It is an ISO-9001:2008 & NAAC certified institution with NBA accredited programmes.

**DEPARTMENT OF CIVIL ENGINEERING**

Civil Engineering Department was established in 2012. The department offers UG and PG programmes. The faculty is a rich blend of experienced professionals from the academia and the industry. The department is equipped with nine full-fledged laboratories engaged in research and consultancy apart from regular academics. Industry specific training programmes, invited talks, workshops and industrial visits are organized by the department for better employability, building confidence and for overall development of the students. Department has Center for Water Research and Education (CWRE). Environmental Engineering Laboratory under this is accredited by the Kerala State Pollution Control Board. The center imparts training on water quality management and sanitation to the schools, women groups and community on a regular basis apart from testing of water samples at concessional rates

**Vision of the Department:**

To emerge as a Centre of Excellence in Civil Engineering through quality professional education and to create eminent leaders with values committed to the profession and society.

**Mission of the Department:**

To impart state of the art education and to provide industry exposure to students

- To create civil engineers who successfully adapt and innovate solutions for the built environment
- To inspire and transform the students to hard core professionals and academicians with ethical values.

**ORGANIZING COMMITTEE**

**Chief Patron:**

Msr. Thomas Kakkassery, *Manager*

**Patrons:**

Rev. Fr. Roy Joseph Vadakkan, *Secretary & Campus Head*

Er. Thomas Mathew, *Administrator*

Er. Bobby Peter, *Asst. Administrator*

Lt. Col. Jacob E. D (Ret.), *Asst. Administrator*

**Organizing Chairman:**

Rev. Dr. Jaison Paul Mulerikkal CMI, *Principal*

**Executive Committee:**

Rev. Dr. Jose Kannampuzha, *Director of Academics*

Dr. U. Lazar John, *Director of Industry & HR*

Sr. Dr. Rose Anitha, *Director of Research*

Prof. Ratnan P., *Vice Principal*

Dr. Nidhi M., *Associate Professor, CE Dept.*

Prof. Cyriac M. G., *Associate Professor, CE Dept.*

Dr. Agnes Anto, *Associate Professor, CE Dept.*

Ms. Archana S., *Assistant Professor, CE Dept.*

Ms. Vincy Verghese, *Assistant Professor, CE Dept.*

**Convenor:**

Prof. Rathish S., *Professor & Head of Dept., CE*

**Coordinators:**

Ms. Jisha Akkara,

*Assistant Professor,*

*Dept. of Civil Engg*

*jishaakkara@jcec.ac.in*

*Mob: 9633103108*

Ms. Carol Varghese,

*Assistant Professor,*

*Dept. of Civil Engg*

*carolv@jcec.ac.in*

*Mob: 9567854622*

About the FDP: The objective of this training programme is to expose the academicians, professionals and post graduate students to the state of the art planning and design practices in the field of traffic and transportation and to enhance their knowledge and skills.

**Course Content:**

- Urban & Transportation Planning Design of Roads for Quality of Life
- Pavement management and maintenance practices
- Transportation Planning Practices in Kerala and Paradigm Shift in the Covid Scenario
- Intelligent Transportation Systems
- Transport Industry and opportunities
- Multimodal Integration for Metro Services

**Resource persons:**

- Dr. A.S. Narasimha Murthy, Senior Transportation Engineer, California
- Dr. Sunil Vasudevan, Techno Legal Expert, Trivandrum
- Er. Rijesh N.M., Deputy Town Planner, Regional Town Planning Office, Ernakulam
- Er. Amegh Gopinath, Technical Expert, GIZ, Delhi
- Er. Santhosh Kadavy, Manager, IBI group, Andhra Pradesh
- Er. Vivek M., Traffic and Transportation Planner, RINA Consultancy S.p.A, Mumbai

**Eligibility:**

- The faculty members, research scholars, PG Scholars and practicing professionals are eligible to apply. The maximum number is limited to 60 on a first come first serve basis.

\*Registration will be free.  
\*e-certificate will be issued based on attendance.

- Last date of application: 08-06-2020
- Intimation of selection: 09-06-2020



## Programme Schedule

Three days online STTP on

### “STATE OF THE ART PRACTICES IN TRANSPORTATION ENGINEERING”

June 10-12, 2020

Organized by

Department of Civil Engineering  
Jyothi Engineering College  
Cheruthuruthy, Thrissur, Kerala

in association with

Indian Society for Technical  
Education  
(ISTE)

Day/Time	Day 1 (Wednesday) 10-06-2020	Day 2 (Thursday) 11-06-2020	Day 3 (Friday) 12-06-2020
10.30 am - 12.00 am	<b>Er. Vivek M.,</b> Traffic and Transportation Planner, RINA Consultancy S.p.A, Mumbai  Topic: “Multimodal Integration for Metro Services”	<b>Dr. A.S. Narasimha Murthy,</b> Senior Transportation Engineer, California  Topic: “Urban & Transportation Planning Design of Roads for Quality of Life”	<b>Dr. Sunil Vasudevan,</b> Techno Legal Expert, Trivandrum, Kerala  Topic: “Fidic Contracts- Management Challenges”
2.00 pm - 3:30 pm	<b>Er. Rijesh N.M,</b> Deputy Town Planner, Regional Town Planning Office, Ernakulam, Kerala  Topic: “Transportation Planning Practices in Kerala and Paradigm Shift in the Covid Scenario ”	<b>Er. Santhosh Kadavy,</b> Manager, IBI group, Andhra Pradesh  Topic: “Intelligent Transportation Systems”	<b>Er. Amegh Gopinath,</b> Technical Expert, GIZ, Delhi  Topic: “Transport Industry and opportunities”

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N.A.C 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

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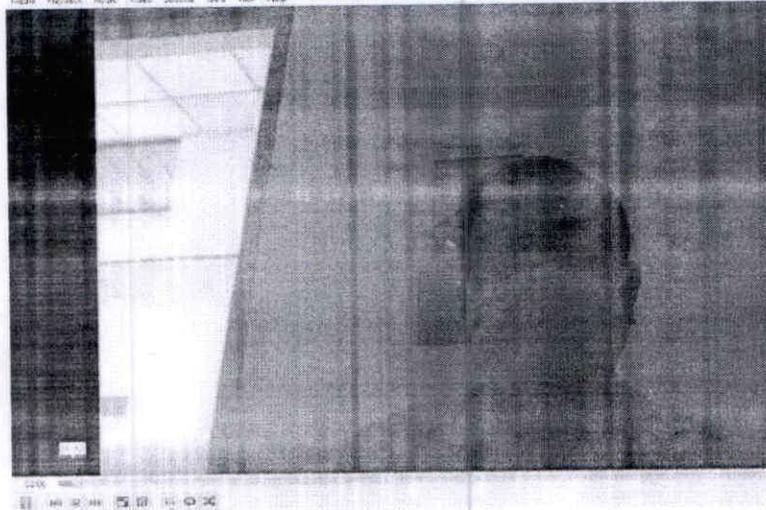
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Report on 3 DAY ONLINE STTP on "State of the Art Practices in Transportation Engineering"  
(10<sup>th</sup> – 12<sup>th</sup> JUNE 2020)

DAY 1: 10 June 2020

Gmeet Link: <https://meet.google.com/zfz-kiqy-pnr>

Jyothi Engineering College - STTP Session 1 (10:00-10:15) at Jyothi Engineering College - VLC media player



The Day 1 of the 3 Day Online STTP organized by Department of Civil Engineering in association with ISTE started with a silent prayer at 10.15 am. The online meeting then proceeded into the formal inauguration ceremony attended by dignitaries for the occasion from the host institution (Jyothi Engineering College, Thrissur) and around 90 participants from all over the country. Prof. Rathish, Head of the Department, Dept. of Civil Engineering delivered the welcome speech extending his welcome to all present to the online STTP on "**State of the Art Practices in Transportation Engineering**". He affirmed the importance of transportation and infrastructure and how it has transformed the way we live. He opined that the emergence of new technologies in line with the various research outputs has revolutionised the whole transport scenario. In order to cope up with the trying times during COVID 19, he said he hoped that this initiative of STTP undertaken by Jyothi Engineering College, will help the participating students, academicians and practicing professionals to improve their knowledge domain.

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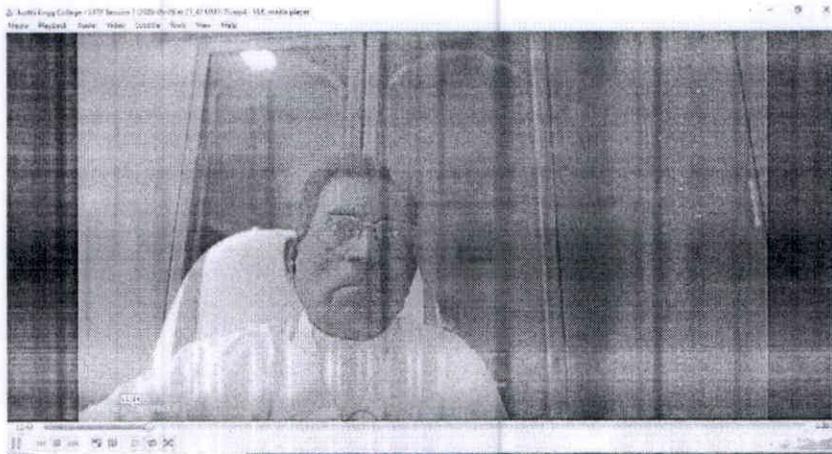
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The presidential address was delivered by Rev. Dr. Jaison Paul Mullerickal CMI, Principal, Jyothi Engineering College, Thrissur. He congratulated the Civil Department under the leadership of Prof. S Rathish for organising the **first ever Online STTP** organized by the college. He reflected that in the changing times post COVID, the shared information from the resource persons of the STTP will help the participants to form relevant perspectives about public transport sector. He wished all success to the STTP and requested all participants to fully make use of all the sessions.



Rv. Dr. Jose Kannampuzha, Academic Director, Jyothi Engineering College, Thrissur through his inaugural address urged all participants to consider this STTP as an opportunity to sharpen their skills during the uncertain times of COVID. Wishing all success for the 3 day event, he formally

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announced the inauguration of STTP. With a formal Vote of Thanks, the inaugural ceremony ended at 10.30 am.

Session 1: Gmeet Link: <https://meet.google.com/zfz-kiqy-pnr>

Speaker: Mr. Vivek E.M, Transport Planner- RINA Consulting s.P.A, Mumbai

Topic: "Multimodal Integration for Metro Services"

Time: 10.30 am – 12.00 noon

Number of Participants: 113



The session started with the speaker introducing the need for Multi Modal Integration of the metro services for connectivity and accessibility in the transport infrastructure. He then proceeded with the details on the different stages of the project "Multimodal Integration for Mumbai Metro" which included Delineation of study area, Data collection and analysis, Feeder system planning, Simulation Analysis, Road safety audit, Stakeholder participation and Tender Preparation. The speaker elaborated on the various challenges to the implementation to the project identified during the data collection stage. These included insufficient roadway width, unruly commercial establishment, insufficient light, inefficient pedestrian pathways and inadequate parking facilities. The speaker discussed the multimodal integration process with due attention to areas of road infrastructure, street furniture, junction improvement, safety enhancement, urban space markings

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and mobility management. The methodology adopted for feeder system planning and simulation model analysis were also elaborated. The speaker, on an ending note, affirmed the importance of road safety audit and stakeholder interventions before the tender preparation stage of any project. The session ended with the Q/A session with the speaker attending to participant queries. Some of the participants expressed their concern over the use of public transport options in a post- COVID scenario. The speaker hoped that the transport planners around the world including him will come up with some solutions for the same.

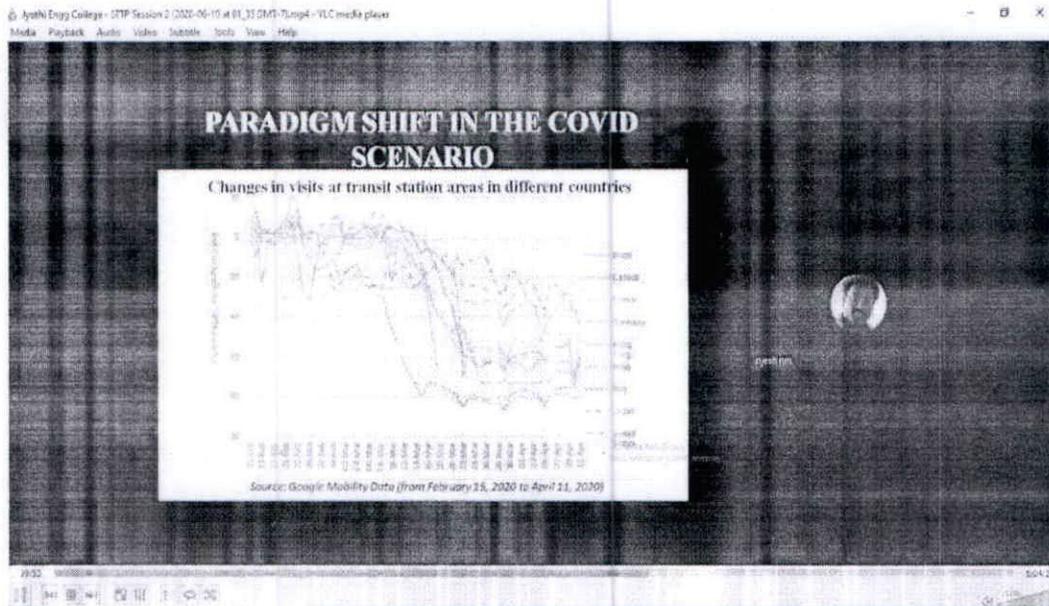
Session 2: Gmeet Link: [meet.google.com/yag-cmzi-kib](https://meet.google.com/yag-cmzi-kib)

Speaker: Er. Rijesh N. M, Deputy Town Planner, Regional Town Planning Office, Ernakulam, Kerala

Topic: "Transportation Planning Practices in Kerala and Paradigm Shift in the COVID Scenario"

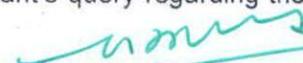
Time: 2.00 pm – 3.30 pm

Number of Participants: 105



The speaker started the session introducing the conventional 4 step modelling process followed for transportation planning practices in Kerala. It was followed with the elaboration of project planning stages to model development stages. The modern approaches like land use transport planning and simulation modelling approaches were also discussed. The paradigm shift in a post COVID scenario was also discussed pinpointing the problems that we might face in the future transport scenario. The session ended on the note in which the speaker urged the participants to actively contribute to changing times post COVID. One of the participant's query regarding the

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A CENTRE OF EXCELLENCE IN SCIENCE & TECHNOLOGY BY THE CATHOLIC ARCHDIOCESE OF TIRUCHIRAPPALLUR  
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use of Activity Based Models for planning procedures in Govt. sector, was duly answered by the speaker. He said that modelling procedure and tool kits towards the activity-based model building is on the development stage in his department.

## DAY 2

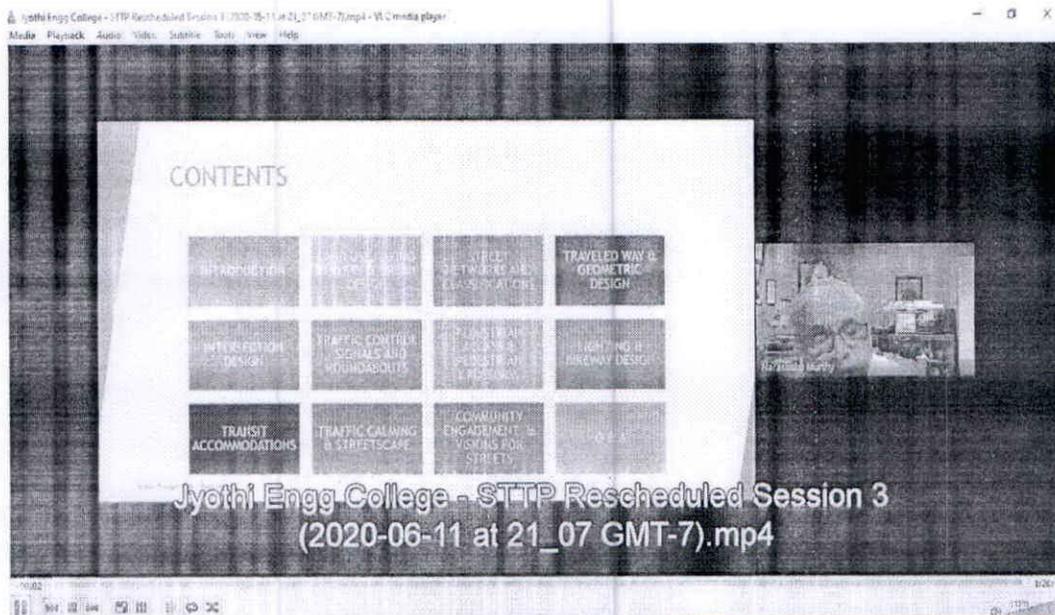
Session 3: Gmeet Link: [meet.google.com/xgy-fxwj-kzm](https://meet.google.com/xgy-fxwj-kzm) (Rescheduled)

Speaker: Dr.A.S. Narasimha Murthy, *Senior Transportation Engineer, California*

Topic: "Urban & Transportation Planning Design of Roads for Quality of Life"

Time: 10.30 am – 12.00 noon

Number of Participants: 91



The speaker skillfully invited the participants attention to the need of land use planning for the design of effective and sustainable living giving due room to transport needs. The discussion flowed through the focusing areas like land use, Street and Urban design, Street networks and classifications, travelled way and geometric design, intersection design, traffic control signals and roundabouts, lighting and bikeway design, transit operations and traffic calming & streetscape. The speaker ended the session by reinforcing the need of community engagement and vision for street in a most interactive way, for a sustainable future.

Session 4: Gmeet Link: [meet.google.com/mrz-mksr-smt](https://meet.google.com/mrz-mksr-smt)

Speaker: Er. Santhosh Kadavy, *Manager, IBI group, Andhra Pradesh*

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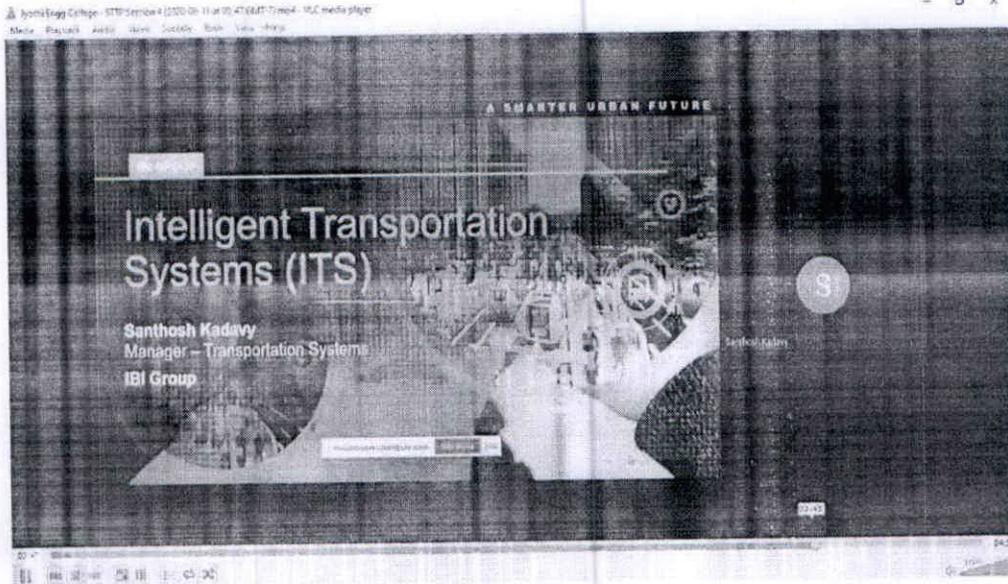
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Topic: "Intelligent Transportation Systems"

Time: 1.15 pm – 12.45 pm

Number of Participants: 108



The session started with the speaker introducing Intelligent Transportation Systems (ITS) as a major aid in managing the transport demand and road infrastructure-user interactions. It was followed with the description of various components in the architecture of the ITS system planned for Hyderabad. The interaction between various players in a traffic management system were explained.

## DAY 3

Session 5: Gmeet Link: [meet.google.com/czo-eanq-qmm](https://meet.google.com/czo-eanq-qmm)

Speaker: **Dr. Sunil Vasudevan**, Techno Legal Expert, Trivandrum, Kerala

Topic: "Fidic Contracts - Relevance in Modern Construction Management"

Time: 11:30 am – 1pm

Number of Participants: 97

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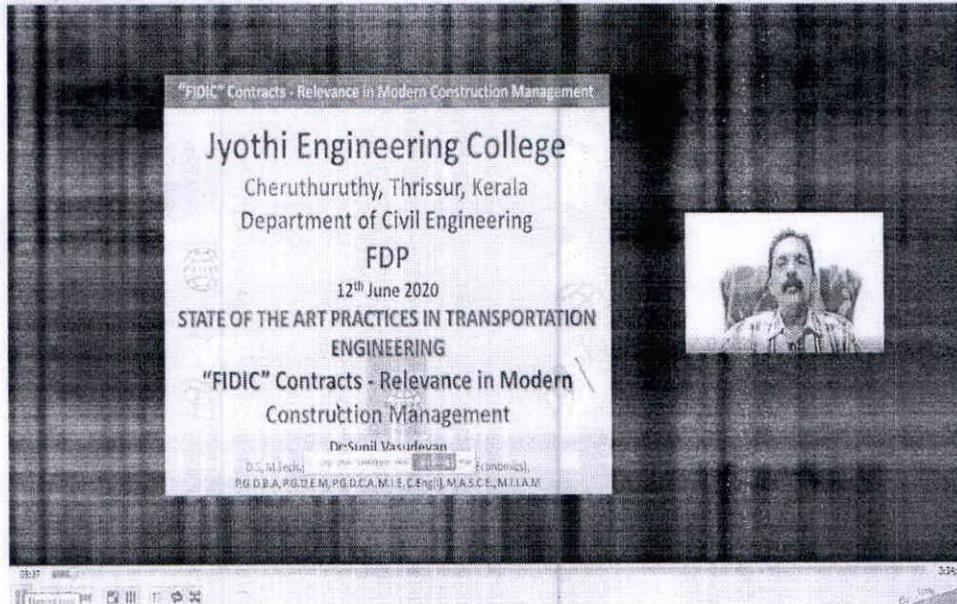
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Jyothi Engg College - STP Session 5 (2020-26-11) at 12:34 GMT+05:30 - VLC media player  
Media Playlist Audio Video Subtitle Tools View Help

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The speaker started the session by introducing the participants to FIDIC Contracts – the basic Red Book and its subsequent revisions and made a comparison with the conventional contract. The Clauses of the latest Red Book were discussed in detail and the account on Five Golden principles of the contract was informative. The speaker established the relevance of FIDIC Contracts in Modern Construction Management in area like common project issues, QA and QC, delays, variations, payments to contractors, share of Risks, Force majeure, claims and disputes and arbitration.

Session 6: Gmeet Link: [meet.google.com/rde-wguu-snx](https://meet.google.com/rde-wguu-snx)

Speaker: Er. Amegh Gopinath, Technical Expert, GIZ, Delhi

Topic: "Transport Industry and opportunities"

Time: 2 pm – 3.30 pm

Number of Participants: 96

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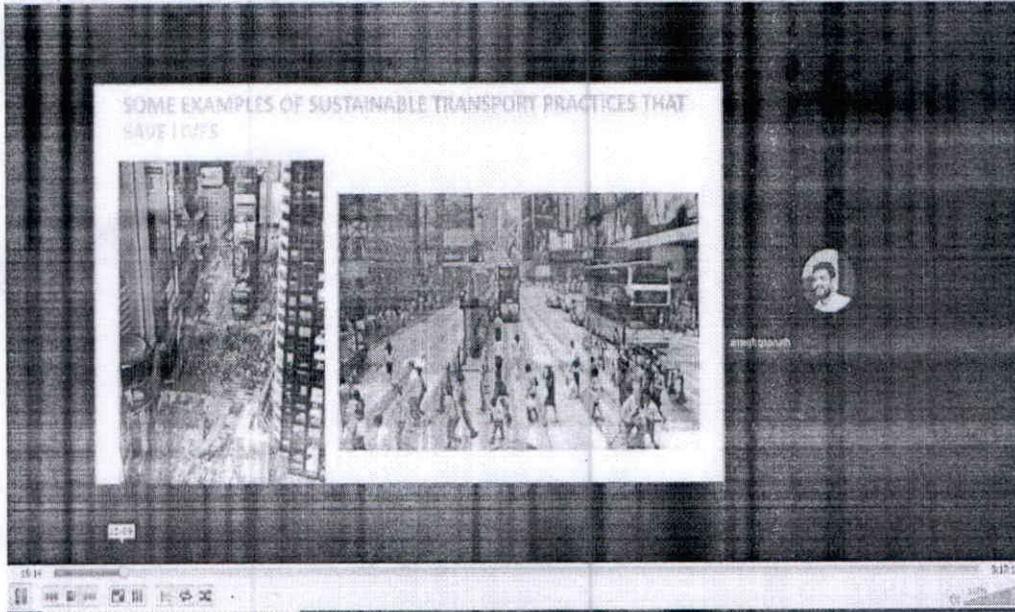
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Meeting Date: STTP (2016-2017) 10/11/2017 10:04:40 am  
Meta File: Audio File, 500Kb, 156.8Kb



The speaker started the session by affirming the goal of urban transport planning keeping in mind the need for efficient and balanced system promoting a desirable pattern of human activities. The speaker opined that the increasing population is demanding the transport planner to think of sustainable solution to reduce the impact on environment, and consider options so that the future generation also can exist. Some of the sectors that can be of interest to transport planner in future or can be counted as opportunities were listed as Non- motorized Transport and Public Transport planning, street design, Road Safety, Freight Transport, Shared Mobility, Big data analysis, ITS and Climate Change and Transport. The speaker ended the session hoping each individual take wise decisions towards a sustainable transport option like cycling and public transport reducing the impending carbon emissions.

The valedictory function followed next with Prof. S Rathish, Head of Department, Civil Engineering thanking all speakers, participants and organisers for the successful completion of the 3-day online STTP. Two participants, Ms. Ruhina Begum, Faculty of Global Institute of Engineering and Technology, Moinabad, Hyderabad and Dr. Anitha Jacob, Lecturer, Govt. Polytechnic Chelakkara, acknowledged the STTP organisers for their co-ordination of the sessions and thanked the speakers for their wonderful sessions.

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CIVIL STTP		
#	Name	Download Link
1	A Nanditha	<a href="https://jecc.ac.in/certificates/verify/abaf22b24e">https://jecc.ac.in/certificates/verify/abaf22b24e</a>
2	Abid Hasan	<a href="https://jecc.ac.in/certificates/verify/543e9f5e2a">https://jecc.ac.in/certificates/verify/543e9f5e2a</a>
3	Aeshlyn Jose	<a href="https://jecc.ac.in/certificates/verify/c29319f1f5">https://jecc.ac.in/certificates/verify/c29319f1f5</a>
4	Akhila M	<a href="https://jecc.ac.in/certificates/verify/55400f7515">https://jecc.ac.in/certificates/verify/55400f7515</a>
5	Amandeep Singh Bhalla	<a href="https://jecc.ac.in/certificates/verify/5ca0b05a30">https://jecc.ac.in/certificates/verify/5ca0b05a30</a>
6	Ammu B Crusho	<a href="https://jecc.ac.in/certificates/verify/7230fb38f2">https://jecc.ac.in/certificates/verify/7230fb38f2</a>
7	Anagha Suresh	<a href="https://jecc.ac.in/certificates/verify/c317f088c8">https://jecc.ac.in/certificates/verify/c317f088c8</a>
8	Angel Sebastian	<a href="https://jecc.ac.in/certificates/verify/0050c1e230">https://jecc.ac.in/certificates/verify/0050c1e230</a>
9	Aniket Wakhare	<a href="https://jecc.ac.in/certificates/verify/c5a85ea627">https://jecc.ac.in/certificates/verify/c5a85ea627</a>
10	Anita. S	<a href="https://jecc.ac.in/certificates/verify/1448d2b390">https://jecc.ac.in/certificates/verify/1448d2b390</a>
11	Anitha Jacob	<a href="https://jecc.ac.in/certificates/verify/0a0b6a5668">https://jecc.ac.in/certificates/verify/0a0b6a5668</a>
12	Anjamjot Singh	<a href="https://jecc.ac.in/certificates/verify/cb4b36c898">https://jecc.ac.in/certificates/verify/cb4b36c898</a>
13	Anjima Joseph	<a href="https://jecc.ac.in/certificates/verify/ed77571947">https://jecc.ac.in/certificates/verify/ed77571947</a>
14	Anju M J	<a href="https://jecc.ac.in/certificates/verify/4ac4ba5256">https://jecc.ac.in/certificates/verify/4ac4ba5256</a>
15	Anupama Krishnan	<a href="https://jecc.ac.in/certificates/verify/2a1df1acb0">https://jecc.ac.in/certificates/verify/2a1df1acb0</a>
16	Aparna Ms	<a href="https://jecc.ac.in/certificates/verify/1b82c6f745">https://jecc.ac.in/certificates/verify/1b82c6f745</a>
17	Archana S	<a href="https://jecc.ac.in/certificates/verify/0e4123292a">https://jecc.ac.in/certificates/verify/0e4123292a</a>
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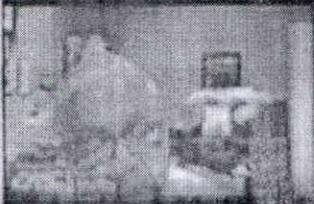
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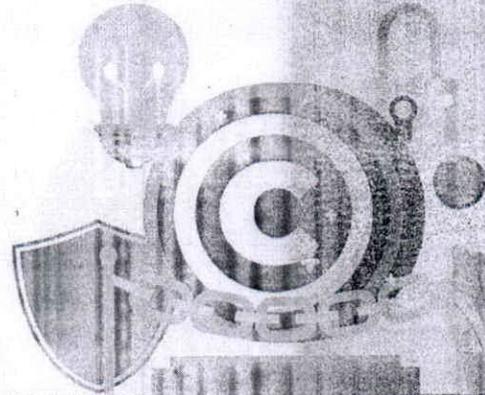
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# PATENT DRAFTING AND IMPORTANCE OF TRADEMARK AND COPYRIGHT



8<sup>th</sup> August 2020



## Jyothi Engineering College

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# Jyothi Engineering College

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## Short Term Training Programme on Patent Drafting and importance of trademark and copyright (08<sup>th</sup> August 2020)

Jyothi Engineering College, Cheruthuruthy

**Objective:** To give the participants a basic understanding of the patent drafting, trademark and copyright. The programme aims at motivating the participants to conduct research activities and to draft patents.

**Description:** One day Short Term Training Programme on Patent Drafting and importance of trademark and copyright.

**Venue:** Insight Seminar Hall, JECC

**Outcomes:**

1. Participants are able to get an understanding of patent drafting, trademark and copyright.
2. Participants are able to get an idea of different steps involved in the 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 problem.

**Implementation:**

A one day Short term training Programme on Patent Drafting and importance of trademark and copyright was organized by Jyothi Engineering College on 08th August 2020. The programme was organized in such a way that it would be beneficial for the Faculty members 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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The Inaugural ceremony was held. Prof Dr. Sunny Joseph, Principal in charge welcomed the dignitaries and other invited guests. Rev. Fr. Roy Joseph Vadakkan, Rev. Fr. Joju Chiriyankandath and Rev. Fr. Jinto Pereppadan presided over the function and Rev. Fr. Roy Joseph Vadakkan stressed on the importance of patent activities to be undertaken under the Departments. Er. Bobby Peter felicitated the gathering. Dr Biju P L delivered the vote of thanks. HODs of other departments and senior professors were present during the function. Dr M Balagopalan delivered the keynote address on the topic 'Patent Drafting and importance of trademark and copyright '. 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 M. Balagopalan 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 and Patent Drafting and importance of trademark and copyright. The next half was handled by Dr. Jose P Therattil. He detailed the criteria for selecting good journals for the publication of works and importance of trademark and copyright

There were 25 participants for the programme. The participants expressed extreme satisfaction about the overall conduct of the program.

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# Jyothi Engineering College

NAAC Accredited college with NEP Accredited programmes\*

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## Short Term Training Programme on Patent Drafting and importance of trademark and copyright

(08<sup>th</sup> August 2020)

Jyothi Engineering College, Cheruthuruthy

### PARTICIPANT LIST

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1	Dr. Sunny Joseph	Jyothi Engineering College	Principal, JECC
2	Prof. M. Balagopalan	Jyothi Engineering College	BSH
3	Dr. Anitha Jacob	Jyothi Engineering College	Civil Engineering
4	M.G. Cyriac	Jyothi Engineering College	Civil Engineering
5	Dr. Nidhi M	Jyothi Engineering College	Civil Engineering
6	Fr. Dr. A.K. George	Jyothi Engineering College	Computer Science Engineering
7	Dr. Vinith R	Jyothi Engineering College	Computer Science Engineering
8	Divya M Menon	Jyothi Engineering College	Computer Science Engineering
9	Dr. Adarsh N Gokul	Jyothi Engineering College	Computer Science Engineering
10	Thomas George K	Jyothi Engineering College	Computer Science Engineering
11	Dr. Jose P Therattil	Jyothi Engineering College	Electronics Communication Engineering
	Prof. Muralee Krishnan C	Jyothi Engineering College	Electronics Communication Engineering
12	Dr. Anoop V	Jyothi Engineering College	Electronics Communication Engineering
13	Annie P. Joseph	Jyothi Engineering College	Electronics Communication Engineering
14	Sindhu S	Jyothi Engineering College	Electronics Communication Engineering

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16	Ratnan P.	Jyothi Engineering College	Electrical Electronics Engineering
17	Dr. Jarin T	Jyothi Engineering College	Electrical Electronics Engineering
18	Dr. Shijoh V	Jyothi Engineering College	Electrical Electronics Engineering
19	Anu Sunny	Jyothi Engineering College	Electrical Electronics Engineering
20	Jenson Jose	Jyothi Engineering College	Electrical Electronics Engineering
21	Dr. Biju P.L	Jyothi Engineering College	Mechanical Engineering
22	Prof. K.C. John	Jyothi Engineering College	Mechanical Engineering
23	Dr. George Rapheal	Jyothi Engineering College	Mechanical Engineering
24	Dr. David K.J	Jyothi Engineering College	Mechanical Engineering
25	Manoj Kumar V K	Jyothi Engineering College	Mechanical Engineering

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Patent Drafting and importance of trademark and copyright  
8-8-2020

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## Eminent Speakers



**Dr. Biju C.V**  
Associate Professor  
Department of Mechanical Engg.,  
Jyothi Engineering College, Thrissur.

Day-1

Day-2

**Dr. Sugavaneswaran M**  
Assistant Professor (Senior),  
School of Mechanical Engg.,  
VIT Vellore



**Dr. Arun Tom Mathew**  
Associate Professor,  
School of Mechanical Engg.,  
VIT Vellore

Day-3

Day-4

**Dr. V Sivaraman**  
Director-Industry institute Relations  
EGSP Engg. College (Autonomous)  
Nagapattinam



**Mr. Joseph V A**  
Director  
Kyeesha Research and  
Education Trust, Bangalore

Day-5

Day-5

**Mr. Shiju George**  
Founder  
Kyeesha Research and  
Education Trust, Bangalore



**Dr. Solaman Bobby S**  
Assistant Professor (Senior),  
School of Mechanical Engg.,  
VIT Vellore

Day-6

Day-7

**Mr. C Karunakaran**  
Project Staff-ARDB  
School of Mechanical Engg.,  
VIT Vellore



## Registration

**THERE WILL BE NO REGISTRATION FEES**

*Participants may fill the registration form by using the link:*

<https://tinyurl.com/jecmefdp>

OR



Last Date of Registration : 09/08/2020

Intimation of Selection: 09/08/2020

## Online Platform

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Google Meet

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**NB: E-certificates will be Provided to all active registered participants.**

For Queries: [fdpme@jecc.ac.in](mailto:fdpme@jecc.ac.in)

9447314582, 9633103837



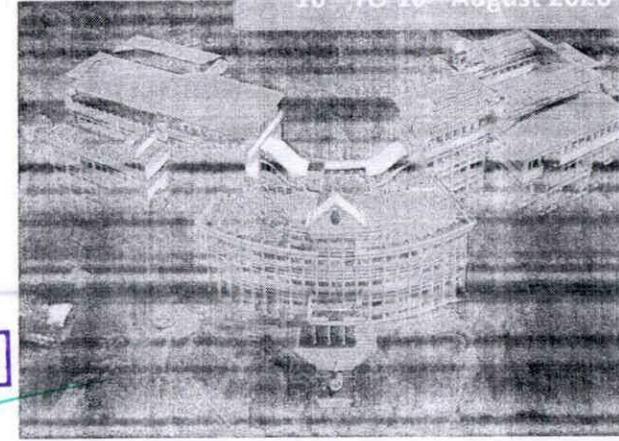
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## Seven Days Online Faculty Development Programme

# RECENT TRENDS IN PRODUCT DEVELOPMENT

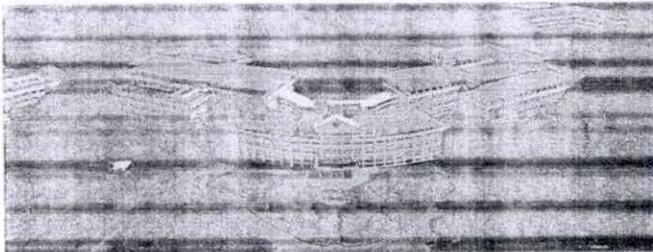
10<sup>th</sup> TO 16<sup>th</sup> August 2020



In Association with  
SAE India Collegiate Club, JECC  
&  
Kyeesha Research and Educational Trust,  
Bangalore



KRJET



### About the College

Jyothi Engineering College (JEC), Cheruthuruthy is a NAAC accredited institution which offer NBA accredited programmes, run by Thrissur Educational Trust founded by the Catholic Archdiocese of Thrissur. The college was established in the year 2002. The vision of Jyothi is to create eminent and ethical leaders through quality professional education with emphasis on holistic excellence.

### About the Department

The Department of Mechanical Engineering was established in the year 2004 and got NBA accreditation since 2016. The department has well qualified and experienced faculty members whose areas of specialization includes Thermal and Energy Engineering, Product Design and Development, Manufacturing and True Copy Attested Science, Mechatronics, Computer Integrated Manufacturing, Automobile Engineering etc. The department offers B.Tech Programme in Mechanical Engineering, M.Tech Programme in Industrial Automation & Robotics, Ph.D. in various Mechanical Engineering Streams.

### About the Programme

The product development industry ever-changing due to the nature of the business. Innovation continues to spur today's product development efforts, and additive manufacturing is playing a large role in this growth. Additive manufacturing offers more than just being economical; the flexibility in design and physical properties not previously possible mean that there's a range of practical applications and uses such as medical, motor vehicle, aerospace, military and consumer products etc.

### Course Content

- The major topics dealt with in this Programme are:
- Current and Future Applications of Additive Manufacturing.
  - Recent Trends in 3D and 4D Printing.
  - Plastic 3D Printing Fundamentals and Industrial Applications etc.
  - 3D Printing for COVID-19
  - Biomimetic Principles for Sustainable Product Design.
  - Trends in Modern Product Design.
  - Revolutions in Manufacturing Technology.
  - Construction of Stability Lobe Diagram (SLD) & Selection of Machining Parameters.

### Organizing Committee

**Chief Patron:**  
Msgr. Thomas Kakkasserry, Manager

**Patrons:**  
Rev. Fr. Roy Joseph Vadakkan,  
Secretary & Campus Head  
Er. Thomas Mathew, Administrator  
Er. Bobby Peter, Asst. Administrator

Lt. Col. Jacob Ed (Rtd), Asst. Administrator

**Organizing Chairman:**  
Dr. Sunny Joseph Kalayathankal, Principal

**Executive Committee:**  
Rev. Fr. Dr. Jose Kannampuzha, Director-Academic  
Sr. Dr. Rose Anitha, Director-Research  
Dr. Lazar John, Director-IR&P  
Prof. Ratnan P, Vice Principal

**Convenor:**  
Dr. Biju P.L.  
Professor & Head, ME

**Co-ordinators:**  
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## Seven Days Online Faculty Development Programme

On

RECENT TRENDS IN PRODUCT DEVELOPMENT (10<sup>th</sup> TO 16<sup>th</sup> August 2020)

### Report

7-Days Faculty Development Programme titled "RECENT TRENDS IN PRODUCT DEVELOPMENT" was conducted from 10<sup>th</sup> to 16<sup>th</sup> August 2020 in which around 200 participants from different parts of the country participated. Total received Online registration for the programme was around 400.

The resource persons of the programme and their profile are furnished below:

DATE & TIME	RESOURCE PERSON & TOPICS
Day-1 Monday 10/08/2020 11:00 am	 <b>Dr. Biju C V</b> Associate Professor, Department of Mechanical Engineering Jyothi Engineering College, Thrissur. <i>Construction of Stability Lobe Diagram (SLD) &amp; Selection of Machining Parameters</i>
Day-2 Tuesday 11/08/2020 11:00 am	 <b>Dr. Sivasubramanian M</b> Assistant Professor (Senior) School of Mechanical Engineering, VIT Vellore. <i>Current and Future Applications of Additive Manufacturing</i>
Day-3 Wednesday 12/08/2020 11:00 am	 <b>Dr. Arun Tom Mathew</b> Associate Professor School of Mechanical Engineering, VIT Vellore. <i>Recent Trends in 3D and 4D Printing</i>
Day-4 Thursday 13/08/2020 11:00 am	 <b>Dr. V Sivarajaram</b> Director-Industry Institute Relations EGSP Engineering College (Autonomous), Nagapattinam. <i>Plastic 3D Printing Fundamentals and Industrial Applications</i>
Day-5 Friday 14/08/2020 11:00 am	 <b>Mr. Joseph V A</b> Director Kyesecma Research and Education Trust, Bangalore. <i>Trends in Modern Product Design</i>
Day-6 Saturday 15/08/2020 11:00 am	 <b>Mr. Shiju George</b> Founder Kyesecma Research and Education Trust, Bangalore. <i>Revolutions in Manufacturing Technology</i>
Day-7 Sunday 16/08/2020 11:00 am	 <b>Dr. Sankaran Bobby S</b> Assistant Professor (Senior) School of Mechanical Engineering, VIT Vellore. <i>3D Printing for COVID-19</i>
	 <b>Mr. C Karunakaran</b> Project Staff-ARDB School of Mechanical Engineering, VIT Vellore. <i>Biomimetic Principles for Sustainable Product Design</i>

The product development industry ever-changing due to the nature of the business. Innovation continues to spur today's product development efforts, and additive manufacturing is playing a large role in this growth. Additive manufacturing offers more than just being economical; the flexibility in design

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# Jyothi Engineering College

N.A.A.C Accredited College with NBA Accredited Programmes\*

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

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and physical properties not previously possible mean that there's a range of practical applications and uses such as medical, motor vehicle, aerospace, military and consumer products etc.

The Programme Conducted through the online platform (Google meet). The active participation in all the sessions around 200 members. All the sessions are handled by the eminent speakers and the feedback from the participants for each sessions are recorded and all the participants rated a very good response throughout the programme.

The programme started with the lecture by Dr. Biju CV Associate Professor Department of Mechanical Engg. Jyothi Engineering College, Thrissur on the topic " Construction of Stability Lobe Diagram (SLD) & selection of Machining Parameters.it takes nearly 2.00 hours and have a good interaction with the participants and clarifying queries. In the second day of the FDP, the session handled by Dr.Sugavaneswaran M, Assistant Professor (Senior), School of Mechanical Engg,VIT Vellore, on the topic on Current and Future Applications of Additive Manufacturing. Third day of the FDP has scheduled a lecture on Recent Trends in 3D and 4D Printing and it was handled by Dr.Arun Tom Mathew,Associate Professor, School of Mechanical Engg,VIT Vellore. Fourth day the session handled by Dr.V Sivaraman Director-Industry institute Relations EGSP Engg.College(Autonomous) Nagapattinam on the topic onPlastic 3D Printing Fundamentals and Industrial Applications. Fifth day,there are two sessions conducted as per the schedule the first one by Mr. Joseph V A Director Kyeesha Research and Education Trust Banglore on the topic Trends in Modern Product Design and the second lecture by Mr. Shiju George Founder Kyeesha Research and Education Trust Banglore on the topic Revolutions in Manufacturing Technology. In the Sixth day as per the schedule a very interesting topic 3D Printing for COVID-19 has taken by Dr.Solaman Bobby S Assistant Professor (Senior), School of Mechanical Engg,VIT Vellore. It was a very useful one among the current scenario. And come to the final day of the faculty development programme, the final session was handled by Mr.C Karunakaran Project Staff-ARDB School of Mechanical Engg, VIT Vellore on the topic : Biomimetic Principles for Sustainable Product Design.

The overall feedback from all the active participants are collected through the online and overall feedback from the participants in each and every sessions are evaluated.

### Programme Coordinators:

- Mr. Sukesh O P, AP-ME
- Mr. Christy V Vazhappilly, AP-ME
- Mr. Praveen Raj, AP-ME
- Mr. Nice Menachery, AP-ME

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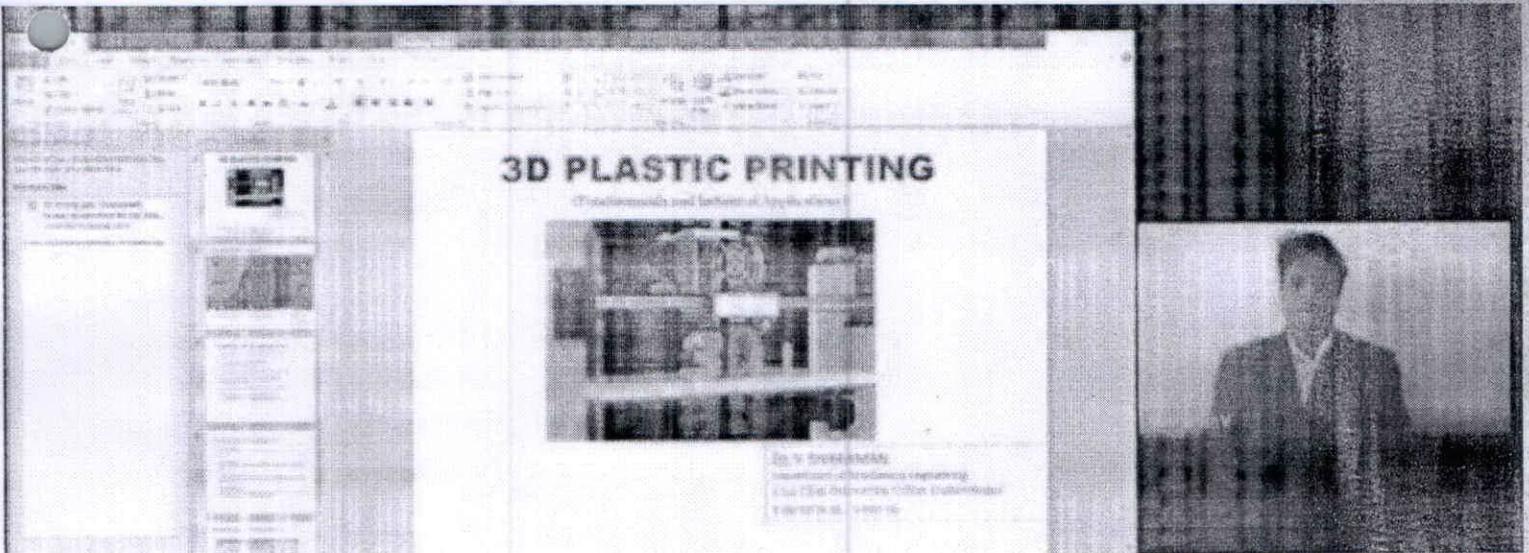
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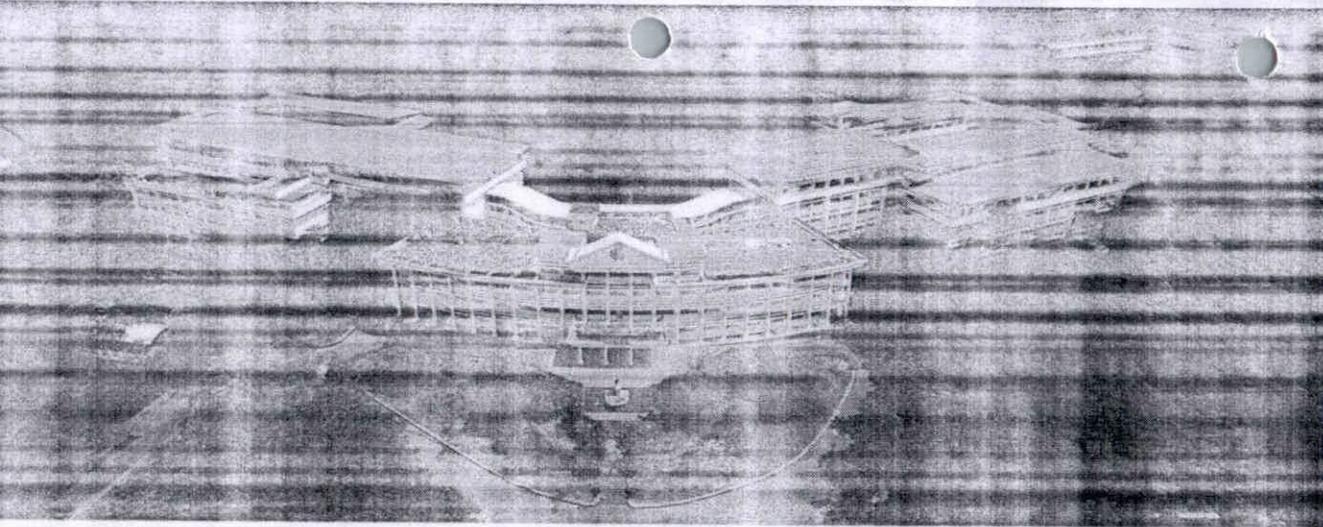


The image shows a screenshot of a presentation slide. The main title is "3D PLASTIC PRINTING" in bold black letters. Below the title, there is a subtitle "Frontiers and Technical Applications" and a central image of a 3D printer. To the right of the slide, there is a small video inset showing a man in a suit speaking. Below the slide, there is a white banner with black text that reads "FDP ON RECENT TRENDS IN PRODUCT DEVELOPMENT, 10-8-2020 TO 16-8-2020".

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### ABOUT THE INSTITUTION

Jyothi Engineering College is an outcome of Thrissur Educational Trust founded by the Catholic Diocese of Thrissur, started functioning at Cheruthuruthy from the year 2002. With a visionary management, a team of dedicated faculty and with ample infrastructural facilities, Jyothi has emerged as one of the model self-financing colleges in Kerala. Within a decade, it has achieved an enviable position among the Engineering Colleges affiliated to APJ Abdul Kalam Technological University. Today Jyothi is a NAAC accredited institution which offer NBA accredited programmes. The vision of Jyothi is to create eminent and ethical leaders through quality professional education with emphasis on holistic excellence. The institution is presently offering following degree programs.

### Bachelor Degree Program (UG Courses):

- Civil Engineering#
- Computer Science & Engineering#
- Electrical & Electronics Engineering#
- Electronics & Communication Engineering#
- Mechanical Engineering#
- Mechatronics Engineering
- Artificial Intelligence & Data Science
- Robotics & Automation

# NBA Accredited Programmes

### Master Degree Program (PG Courses):

- Computer Science & Engineering
- Communication Engineering & Signal Processing
- Power Electronics
- Transportation Engineering
- Industrial Automation & Robotics

### Research Program:

- Ph.D in Engineering & Technology

### ABOUT ATAL ACADEMY

AICTE Training and Learning (ATAL) Academy is established with the vision "To empower faculty to achieve goals of Higher Education such as access, equity and quality". AICTE is committed for development of quality technical education in the country by initiating various schemes launched by Govt. of India, Ministry of Human Resource Development. Council understands that there is a need of the day to train the young generation in skill sector and having faculty & students to be trained in their respective disciplines. Training is required for increasing the knowledge and skills of faculties and students to make them more employable to acquire global competencies.

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### ABOUT THE DEPARTMENT

41-b

The Department of Mechanical Engineering was established during the year 2004. The department has well equipped laboratories and is accredited with NBA. The department has sufficient and efficient faculty members whose areas of expertise include Thermal and Energy Engineering, Manufacturing and Material Science, Robotics and Industrial Automation, Mechatronics, Product Design and Development, Nanotechnology, CAD/CAM/CIM, Automobile Engineering, etc.

### ABOUT THE FDP

Conventional energy sources are depleting day by day, and thus gets reflected the increasing energy costs, as well. Presently, various options for the use of alternative energy are being pursued vigorously. In this context, the efficient utilization of all renewable energy sources is very significant. The renewable energy sources, derived primarily from the enormous power of the sun's radiation, are the most ancient forms of energy used by humanity. Early human societies were built on the direct use of solar energy. Of late, there is renewed interest in harnessing solar radiation, both by direct and indirect methodologies with the aim of satisfying the ever increasing energy needs. This course is expected to provide a comprehensive coverage on solar energy technologies, utilization and application for the benefit of teachers, students and practicing engineers.

### COURSE CONTENT

- Basics of solar energy
- Solar thermal power systems
- Solar photovoltaics
- Solar desalination systems
- Solar water and space heating systems
- Solar dryers
- Hybrid energy systems.

September 21 – 25, 2020

Five-day Online Faculty Development Programme on  
**Solar Energy: Technologies and Applications**

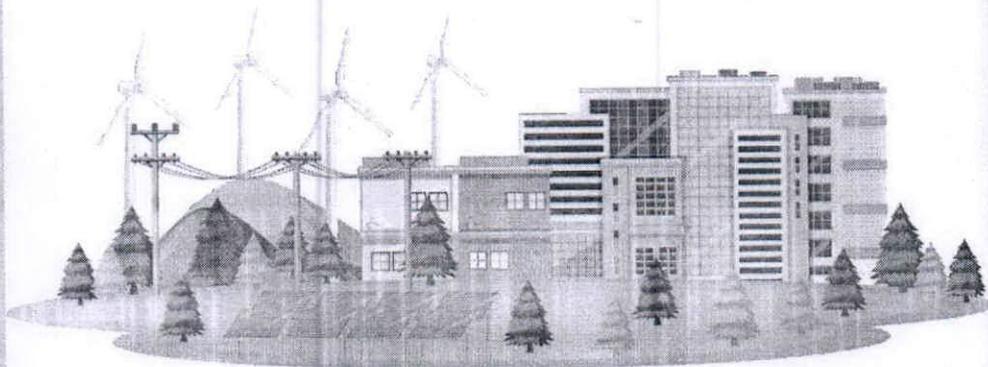


# Report

Five Day Online Faculty Development Programme on

## **SOLAR ENERGY: TECHNOLOGIES AND APPLICATIONS**

September 21 – 25, 2020



Department of Mechanical Engineering



# Jyothi Engineering College

NAAC Accredited College with NIR Accredited Programmes\*

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Approved by AICTE & affiliated to API Abdul Kalam Technological University  
A CENTRE OF EXCELLENCE IN SCIENCE & TECHNOLOGY BY THE CATHOLIC ARCHDIOCESE OF TRICHUR



JYOTHI HILLS, VETRIKATTI P.O., CHERUTHURUTHY, TRIPPLUR, PIN-679531 PH: +91-4884-257000, 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 Programmes in Civil Engineering valid for the academic years 2019-2022.

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September 21 – 25, 2020

Five-day Online Faculty Development Programme on  
**Solar Energy: Technologies and Applications**

AICTE sponsored 5-Days Faculty Development Programme titled “Solar Energy: Technologies and Applications” was conducted from 21<sup>st</sup> to 25<sup>th</sup> September 2020 in which around 200 participants from different parts of the country participated.

The resource persons of the programme and their profile are furnished below:

**Dr. K. Srinivas Reddy**, Professor, Indian Institute of Technology Madras, Chennai



**Academic Profile**

Ph.D : Energy Studies: Solar Energy, I.I.T. Delhi, 1999

M. Tech.: Energy Systems, J.N.T.U. Hyderabad, 1994

B.E.: Mechanical Engineering, Nagpur University, 1991

**Research Interests**

Solar energy, thermal energy storage for csp process heat applications, energy & environment, energy efficiency and energy auditing system analysis for power generation and process heat, desalination on water treatment, thermal power engineering.

**Dr. Raja Sekhar Y**, Associate Professor, Vellore Institute of Technology, Vellore



**Academic Profile**

Ph.D : Jawaharlal Nehru Technological University, Hyderabad

**Research Interests:**

Renewable Energy Power Generation, Solar Thermal Energy Conversion, Renewable Use For Low Temperature Domestic Applications, Nano Fluids For Solar Energy Conversion, Off-Grid Photovoltaic Energy Generation, Thermal Energy Storage For Solar Applications And Cooling Systems

**Dr. M. Mohanraj**, Professor, Hindusthan College of Engineering & Technology, Coimbatore



**Academic Profile**

Ph.D: Mechanical Engineering, National Institute of Technology Calicut

M.Tech.: Refrigeration and Air conditioning, Bharathiar University

B.E: Mechanical Engineering, University of Madras

**Research Interests:**

Refrigeration and Air conditioning, Renewable Energy Utilization, Energy Conservation and Management with special focus on solar Energy, Heat and Mass Transfer.

**Dr. Nazmul Ahsan**, Research Associate Professor, RCAST, University of Tokyo, Japan



**Academic Profile**

Ph.D, School of Engineering, The University of Tokyo (UTokyo)

**Research interests:**

Renewable energy technologies, Advanced material characterization of intermediate bands in bandgap, and inherent electronic properties in new III-V semiconductors, Design and fabrication of intermediate band solar cells (IBSC), Analysis of photoelectric conversion processes involving multiple bands and defects, etc.

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**Dr. M. Sakhivel**, Professor, Jawaharlal College of Engineering and Technology, Palakkad



**Academic Profile**

Ph.D, Mechanical Engineering, Anna University, Chennai  
M.E., Energy Engineering from Bharathidasan University, Trichy

**Research interests:**

Heat and Mass Transfer, Thermal Sciences, Renewable Energy Utilization;  
Energy Conservation and Management with special focus on solar Energy.

**Dr. Yerzhan Belyayev**, Associate Professor, Saibayev University, Kazakhstan



**Professional Experience**

Visiting Scholar in University of Virginia, University of Lorraine  
Invited participant of the event on business accelerator and support for startups in the field of clean and green technologies "Clean Tech Open 2017" in San Francisco (USA).

Author of 3 patents and more than 20 research papers.

**Research Interests**

Solar Heating and Desalination Systems, Heat Pump Technologies,  
Modeling of High Speed Reacting Flow.

**Dr. Arun K. Raj**, National Institute of Technology Calicut, Kerala



**Academic Profile**

Ph.D. National Institute of Technology Calicut  
M.Tech., Amrita Vishwa Vidyapeetham

**Research Interests**

Solar Heating and Desalination Systems, Heat Pump Technologies,  
Modeling of High Speed Reacting Flow.

**Dr. P. Muthukumar**, Associate Professor, P.V.P. Siddhartha Institute of Technology, Vijayawada.



**Academic Profile**

Ph.D : Anna University, Chennai  
M.E: Government College of Technology, Coimbatore  
B.E: Noorul Islam College of Engineering, Tirunelveli

**Research Interests**

Renewable Energy Sources, Power Electronics and Drives, and VLSI

**Dr. K. N. Sheeba**, Associate Professor, NIT Tiruchirappalli, Tamil Nadu



**Academic Profile**

Ph.D : National Institute of Technology, Tiruchirappalli  
M.Tech: Regional Engineering College, Tiruchirappalli  
B.Tech: Dr. M.G.R. Engineering College, Maduravoyal

**Research Interests**

Alternative fuels, Renewable energy, Industrial safety

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September 21 – 25, 2020

Five-day Online Faculty Development Programme on  
**Solar Energy: Technologies and Applications**

Fr. Roy Joseph Vadakkan, Secretary & Campus Head, Jyothi Engineering College, Thrissur



**Academic Profile**

MBA from Christ University, Bangalore  
PGDMLE from National Law School, Bangalore

**Professional Experience**

Secretary and Campus Head, Jyothi Engineering College, Cheruthuruthy, Trichur (Present)

Worked as HR Intern in Dell International Computers (2007)

Worked as Asst. Director of Jubilee Mission Group of Institutions (2008-2010) and started HRD in Jubilee Mission.

Youth Trainer for Value Education Programme since 2008

Visiting Faculty to Calicut University, Marymatha Major Seminary, Amala Medical College, Government Medical Nursing college, Jubilee Mission Medical College and Research Institute and LF Nursing College.

Dr. P. Biji, Associate Professor, PSG Institute of Advanced Studies, Coimbatore



**Academic Profile**

M.Sc. Cochin University of Science and Technology, Kerala  
Ph.D. Indian Institute of Technology Madras Chennai

**Research Interests**

Gas sensors and ion selective sensors, Super hydrophobic coatings for solar panels, Clean energy materials

Dr. N. Sendhilkumar, National Institute of Technology Puducherry, Karaikal



**Academic Profile**

M.Tech.: (Energy Technology)- Pondicherry University, Puducherry,

Ph.D. (Heat Transfer and Thermal Power Lab) - IIT Madras

Post Doc: Heriot Watt University, Edinburg, Scotland, United Kingdom

**Areas of Interests**

Solar Thermal, Concentrating Photovoltaic, Integration of High Temperature Solar Thermal and CPV, Heat Transfer and Fluid Flow, Jet Ejectors, Waste Frying Oils, Fuel Cells



September 21, 2020 (9.30 AM)

**Inauguration Programme**

The organizers sought the blessing of God the Almighty before starting the program with a prayer. The programme was presided over by Fr. Roy Joseph Vadakkan, Secretary and Campus Head, Jyothi Engineering College. The welcome address was delivered by Dr. Deepanraj B, the coordinator of the programme. The president of the program Fr. Roy Joseph Vadakkan expressed his best wishes for the programme and reiterated on the importance of adapting and keeping pace with the changing world. He opined that we are developing a better world by utilizing the solar energy, the divine gift of the Almighty for our own goodness and the society.

DR. SUNNY JOSEPH KALAYATHAN  
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(Computer Science), Ph.D (Mat)



Subsequently chief guest of the programme, Dr. K. Srinivas Reddy delivered the inaugural address. In his inaugural address he emphasized on the relevance and importance of the theme of the programme and declared the programme open. Dr. Jose Kannampuzha, Director, academics in his felicitation, shared the concern of dwindling reserves of fossil fuels and the need to explore alternate energy sources such as solar energy. Dr. Biju C.V. delivered the vote of thanks. In his address, he extended his sincere gratitude to AICTE ATAL Academy on behalf of the department and the college for providing financial assistance for the programme. He also thanked the chief guest, resource persons of programme, faculty members and participants. The inaugural ceremony was adjourned by the president subsequently.



Session 1: September 21, 2020 (9.30 AM to 11.00 AM)

**Solar Thermal Energy Utilization: Technologies and Applications**

**Dr. K. Srinivas Reddy,**  
Professor, Department of Mechanical Engineering  
Indian Institute of Technology Madras, Chennai

It has been understood that energy and environment are some of the global issues which are expected to face in next 50 years. The chronological development of energy sources and the energy services was explained with facts and figures. Energy demand and prosperity of nations can be linked. It has been well known that developed nations produce and consume more power.

Globally, 1.6 billion people have no access to electricity, 80 of them live in South Asia and sub-Saharan Africa. Subsequently, the resource person invited the attention of participants on the changing energy scene such as security of supply concerns, high energy prices, geopolitics, climate change, growing energy demand resource nationalism etc. The global reserves to production ratio R/P ratio have remained steady for many years even though there are large variations region wise. The oil wells are becoming deeper and deeper day by day to cope up with increased demand. It is highly desirable to switch over to sustainable solutions to meet the increased energy demand and to

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curb the ill effects of environment pollution. The concept of resource sustainability and sustainable development was explained with clear illustrations. Sustainable development is defined as the development that meets the needs of the present without compromising the ability of future generations to meet their own needs. Energy sustainability can be attained by developing appropriate technologies. Subsequently, the technology solutions conducted by resource person for solar thermal energy utilization such as models, prototypes, pilot plants developed by 4D approach (design-development-demonstration-deployment) approach in IIT Madras was shared in the presentation.



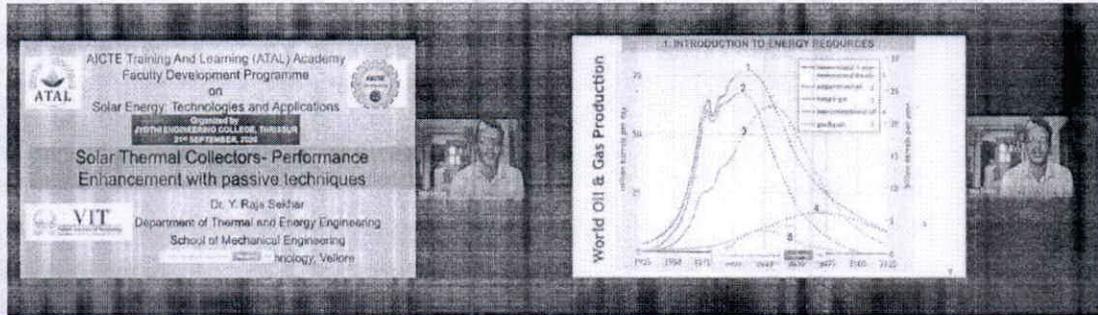
Several photographs of the prototypes developed under this approach was presented and discussed. PV system with tracking, solar dish, solar desalination, solar trough collectors, concentrating photovoltaic systems, storage integrated solar Linear Fresnel Reflector (LFR), solar integrated collector storage systems using transparent insulation materials, static 3D elliptical hyperboloid concentrator for process heat applications, portable vertical solar still, integrated multi-ray solar desalination systems. The concept of affordable net-zero energy building was presented. This utilize vertical axis wind systems, solar PV systems and features zero solid and liquid discharge using bio-mass systems for kitchen and sewage. Development of integrated renewable energy systems with energy storage for north-east rural communities using solar PV and Biomass was discussed subsequently. The prototype and specs of solar powered electric auto rickshaw. In the concluding remarks, the resource person presented the concept of research, development, demonstration, deployment and commercialization (R3DC) employed in IIT Madras for solar energy research facility.

	<p><b>Session 2:</b> September 21, 2020 (11.30 AM to 1.00 PM)</p>
	<p><b>Solar Thermal Collectors</b></p> <p><b>Dr. Raja Sekhar Y,</b> Associate Professor, School of Mechanical Sciences, Vellore Institute of Technology, Vellore</p>
<p>The focus of the session was solar thermal collectors. The session started inviting attention to the continuously depleting status of conventional energy sources in the global scenario. The session provided valuable insight to the present energy crisis and devised methods to overcome it. Presently, fossil fuels accounts for the majority of energy produced (75%).</p> <p>The contribution of renewable energy and nuclear sources is 19% and 6 % respectively. As of now out of the energy produced, only 0.2 % is the contribution by solar. The resource person pointed out the vast potential of solar energy and emphasized the need to tap it. Majority of current installations correspond to Solar PV and growth rate is exponential over the past decade whereas the growth rate of solar thermal installations is negligible compared to solar PV. In fact, there is lot of scope for improvement in solar thermal energy. The session discussed the types, construction and installation of solar flat plate collectors (FPC). The instantaneous efficiency of FPC is known to vary generally between 30 to 60%. It has been understood that there is a scope for enhancement in the efficiency. Techniques such as altering the thermo-physical properties of working fluid with nanoparticles, use</p>	

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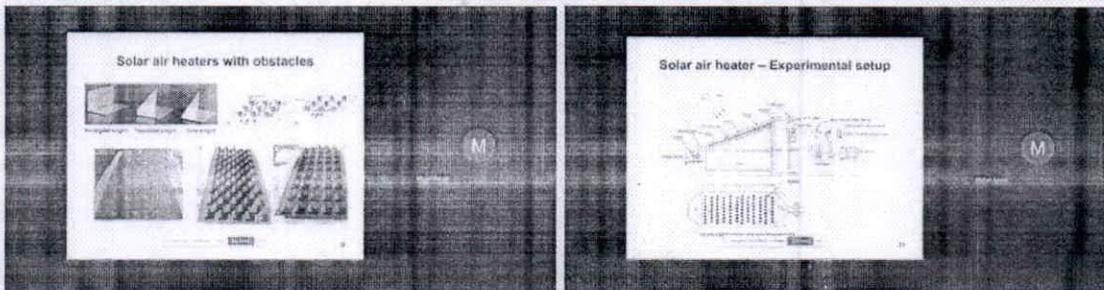
of nanofluids for laminar and turbulent flow in a tube and using a combination of nanofluids and tape inserts for flow in a tube were discussed in depth. The resource person described the parametric analysis of FPC in a lucid style for the participants coming from different backgrounds to comprehend easily. Passive augmentation techniques for improving the efficiency of PFC were the active topic of the discussion in the session.



The resource person elaborated on topics such as specialized absorber coatings (to reduce emissivity and enhance absorptivity), Inclusion of flow turbulator (enhance heat transfer between fluid and tube wall), changing working fluid properties (change the  $K$ ,  $C_p$ , etc.), changing absorber plate design (increase absorber area), providing internal grooves to tube, altering the dimensions of SFPC and component materials (to reduce heat loss). The effect of nanofluids on efficiency augmentation was explained in detail for both natural convection and forced convection. Forced convection heat transfer employing twisted tapes were delay which was appreciated by participants. To conclude, the session was very helpful to the participants to understand parametric analysis of FPC and to gain better insights for its efficiency augmentation by employing nanofluids.

	<b>Session 3: September 21, 2020 (2.30 PM to 4.00 PM)</b>
	<b>Solar Air Heaters- performance Improvements</b>
	<b>Dr. M. Mohanraj</b> Professor Department of Mechanical Engineering Hindusthan College of Engineering & Technology, Coimbatore

The resource person first gave a comprehensive introduction on solar air heater which included the applications, limitations and causes for the poor efficiency. It was followed by a vivid description of the current focus of research in solar air heaters, scope for further improvements and research avenues in the field.



The schematic layout of solar air heaters for rooms was explained with clear illustrations. Performance improvement techniques such as storage of thermal energy in the form of sensible energy or latent energy, extended surfaces (Fins, baffles, obstacles, vortex generators etc.), increase in absorber plate surface roughness, jet impingement etc. were clearly presented. Examples of sensible heat storage materials are sand, gravel, lime stone, rock beds etc. whereas paraffin wax

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comes under the class of latent heat storage materials. These techniques were discussed in detail with the advantages and limitations. For example, sensible heat storage materials are not capable of retaining the thermal energy for long duration. In the latent heat storage, thermal energy was stored during phase change from solid to liquid and it is releasing during solidification. The thermal storage in the latent heat storage materials depends on the latent heat of fusion, melting point, specific heat and density. The latent heat storage materials can retain the heat for longer duration.

Extended surfaces such as, obstacles, ribs, baffle plates, longitudinal fins, corrugated absorber plates may also be used for performance enhancement. However, due to the high aerodynamic resistance, more pressure drop occurs across the air heater. Performance by combining latent heat storage and pin-fins is promising. Several configurations employed for solar air heaters with fins and baffles and obstacles were shared in the presentation. Solar air heaters using sensible heat storage materials exhibit low heat retaining capacity and require more space whereas that using extended surfaces have more aerodynamic resistance. Thermo-hydraulic efficiency of solar air heater employing pin-fin absorber plate is observed to be highest followed by triangular tube and circular tube. The idea of using packed bed absorber plate is proposed to improve the performance of solar air heaters. The outlet air temperature, thermo-hydraulic efficiency, exergy efficiency of FC solar air heater using packed bed absorber plate were all higher as compared to flat solar air heater using absorber plate. If pin-fin absorber plate is used, further augmentation in the performance parameters was observed. The schematic and construction details of the jet impingement on solar air heaters were shared in the presentation which aroused the interest of the participants. JISAH using flat absorber plate showed enhanced performance. The session was very informative and easily understood by the participants as evidenced by the feedback.

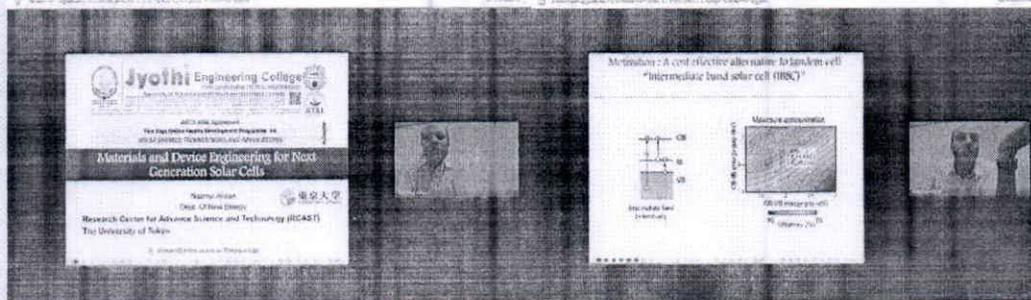


**Session 4:** September 22, 2020 (9.30 AM to 11.00 AM)

**Materials and Device Engineering for Next Generation Solar Cells**

**Dr. Nazmul Ahsan**  
Research Associate Professor  
Research Center for Advanced Science and Technology  
University of Tokyo, Japan

In the introductory slides the resource person introduced himself and the current research activities at Research Center for Advance Science and Technology (RCAST), The University of Tokyo. Subsequently data on chronological development of solar cell globally and the cell efficiencies were presented with a number of illustrations. Data on emerging and novel PV technologies such as multi-junction cells, dye-sensitized cells, perovskite cells, organic cells, organic tandem cells, inorganic cells and quantum dot cells were presented. Subsequently the technique of augmentation of Solar cell conversion efficiency in excess of 50% by Spectrum splitting approach was presented. The principle and schematic of detection of Two-step photon absorption (TSPA) and its applications in solar PV cells was discussed with neat sketches.



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The concept of Multi-junction/Multi-stack and Intermediate Band/Multiband was discussed well with clear illustrations. Novel approach for developing a cost effective alternative to tandem cell by Intermediate band solar cell (IBSC) was presented. Means of maximizing efficiency by tailoring the position of intermediate band was disclosed. Max efficiency of 63% is achievable by this method. Approaches toward formation of Intermediate bands such as wave function engineering in a super lattice structure (quantum dot super-lattice crystal), multiband engineering in highly mismatched alloys (HMA)(GaAs-N, etc), impurity band engineering (CuGaS<sub>2</sub>: Cr, Fe, etc).was shared with clear illustrations. Results of IB formation by Impurity band approach in chalcopyrite CuGaS<sub>2</sub> by transition metal doping/ sputtering was shared subsequently. DFT simulation results of IB electron barrier engineering produced by Molecular Beam Epitaxy (MBE) was shared which was very much appreciated by the participants.

The session was unique with the details of cutting edge research in the development of PV solar cells. The session in general was very well appreciated by the participants as evinced by the feedback.

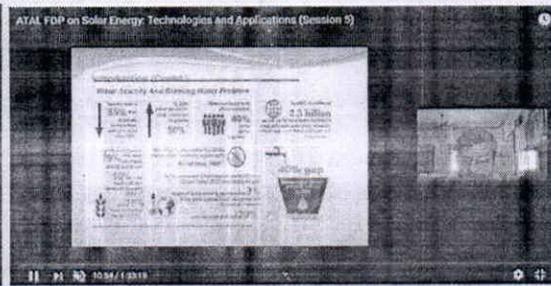
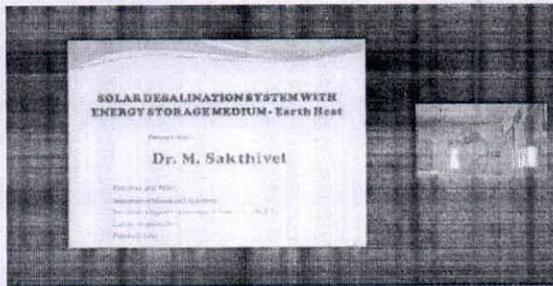


**Session 5: September 22, 2020 (11.30 AM to 1.00 PM)**

**Solar Desalination System**

**Dr. M. Sakthivel**  
Professor & Head,  
Dept. of Mechanical Engineering,  
Jawaharlal College of Engineering and Technology, Palakkad

In the opening of the session, the resource person invited the attention of the participants to the problem of water scarcity and unhygienic drinking water. It has been estimated that 40% of the global population is affected by water scarcity and by 2030; global demand for water is expected to grow by 50%. Common methods used to purify water include coagulation, precipitation, filtration, disinfection, electro-dialysis, distillation, etc. Majority of the prevalent water purifying technologies are high energy utilizers, expensive and unsuitable for general use. Therefore it is highly desirable to develop a simple, pollution-free and affordable solution that provides fresh water.



The proposed technology shall be simplest, efficient, cost-effective and long lasting and furthermore, it must be environment-friendly, reliable and affordable. Solar desalination has been suggested as the technologies which meet all the above requirements. It is affordable, promotes sustainability and many cases uses renewable energy sources. Fresh water is produced by removing/separating salts from the saline water, at the expense of energy. Subsequently two major classes of desalination process, viz. evaporation process and membrane process and their subdivisions were presented. The working principle of solar still was described with neat illustrations. Storing the excess thermal energy from solar radiation and then recovering that heat after sunshine over is one of the best techniques to enhance the solar still daily yield. Other methods such as using the latent heat (phase change) and sensible heat energy storing materials (sand, marbles, gravels etc.) can be employed. Parameters affecting the performance of sill and the methods employed to improve the yield of conventional still was discussed in detail. The approach is to reduce the heat accumulation in the air-vapour space and to store the excess solar energy during sunshine hours for

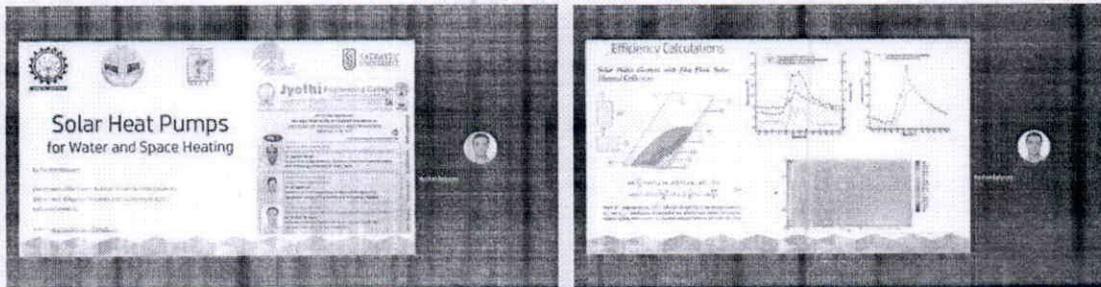
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the continuation of the evaporation process in late evening hours. The modification done to improve the yield in conventional single slope sill was presented subsequently. The schematics and working principle of modified pyramid solar sill with phase change materials (PCM), conventional solar still with encapsulated spherical ball salt heat storage were presented. Experimental setup to study the effects of flake graphite nano-particles, phase change materials, and film cooling on the solar still performance and the test results was subsequently presented. The resource person presented a novel study to utilize the ground heat to heat the saline water in the basin during late evening hours in the absence of solar radiation. The conventional solar still is modified by removing the insulation layer from the surfaces of still so that heat of the earth heat can be utilized in the late evening hours. Heat loss from the surfaces of still will be less compared to heat gain from the earth. A mathematic model was employed to study the performance of solar still by considering each component separately and by writing its energy balance equation. Theoretical values obtained from mathematical modelling are validated with experimental observations. The results obtained were promising. It was observed that 30 mm of water depth is found to be the optimum level for the maximum daily productivity of the still using earth heat. 17% increment in the daily productivity is observed for the modified still over conventional/traditional still. Due to the bottom insulation removal, basin temperature of the still using earth heat is always less than the basin temperature of the conventional still. After 6 pm, basin temperature of conventional still is reduce sat a faster rate whereas that of still using earth heat is lesser. The effect of the heat retrieval from the earth to basin is felt during evening hours (16 h to 19 h). It proves that heat lost to the earth from the basin during the noon hours due to higher solar intensity is retrieved back to the basin during late evening hours.

	<p><b>Session 6: September 22, 2020 (2.30 PM to 4.00 PM)</b></p> <p><b>Solar Heat Pumps for Water and Space Heating</b></p>
	<p><b>Dr. Yerzhan Belyayev</b>                  Associate Professor, Dept. of Mechanical Engineering,                  Satbayev University, Almaty, Kazakhstan</p>

The resource person firstly presented the global scenario of heat generation and consumption and emphasized the use of heat pumps for water and space heating. In 2017, it was estimated that over 50% of heat produced was consumed in industry for process heating, drying and industrial hot water uses. About 46% was used for space and water heating and cooking and the remainder for heating and drying purposes for agricultural purposes. As of 2017, most of heat was produced from fossil fuels and this accounted for almost 40% of energy-related carbon dioxide emissions. The use of natural gas has been suggested to rectify this problem, but natural gas installations are expensive and not feasible always.



On the other hand, this problem can be solved by using heat pumps, in particular combined with Renewable electricity. It has been estimated that heat pumps continue to meet only a small share of residential heat demand (around 5% in 2019), while fossil fuel-based and conventional electric technologies made up three-quarters of sales globally in 2019. By 2030, this indicator, according to a sustainable development scenario (SDS), should reach 22.1%. The EU market is expanding quickly, with around 1.3 million households purchasing a heat pump in 2018 (12% annual average growth since 2015). In the United States, for example, the share of heat pump sales for newly constructed

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buildings exceeds 40% for single-family dwellings and is near 50% for new multi-family buildings. Subsequently, the resource person explained the fundamental working principle of heat pumps and the current state of development in heat pumps with a number of illustrations. Solar energy is one of the top three renewable sources driving climate protection and sustainable development. In 2019, solar thermal systems produced 479 GWh of power. This is equivalent to 43 million tons of oil and the resulting generation of 138 million tons of CO<sub>2</sub> emissions. Quite recently, significant growth rates have been reported in several of the largest solar thermal markets globally proving that solar thermal systems are cost-competitive in various applications. Subsequently, the classification of solar water heaters was presented. Direct Solar Water heaters are suitable for warm and hot regions where the temperature does not drop below 10 °C (eg. India, Malaysia, etc.). For cold climate regions where the temperature drops below 0 °C (eg. Kazakhstan, Russia, China, etc.) Indirect solar water heaters can be effectively used. Solution to increase Seasonal Performance Factor (SPF) of Heat Pump System is to integration with Solar Energy (Solar Thermal and PV). Example of solar thermal boosted heat pump water heaters employing direct and indirect expansion solar evaporator were explained with neat schematics. The schematics and constructional features of prototypes developed by author were shared such as combination of Solar Water Heater and “Air-to-Water” Heat Pump (in parallel) for water and space heating application, solar Water Heaters with Flat Plate Solar Thermal Collectors. Principle of efficiency calculation from first principles and simulation using TRNSYS 18.0 was presented which was very interesting and informative. For continental climate conditions it is proposed to use combined heat supply systems. Several types of solar heat pumps with their schematics and efficiency calculation were presented such as two-stage cascaded “Air-to-Water” Heat Pump, Two-stage Direct Expansion Solar Assisted Cascade Heat Pump, Solar Assisted Auto-Cascade Heat Pump, Combi “Air-Water” Heat Pump and Gas Boiler, Solar PV based Heat Pump Water Heater etc. All of these were proved to be highly feasible for water and space heating. The barrier for commercialization of these technology was discussed which was attributed to higher initial capital cost as well the cost of assembling or component production. Research avenues in the simulation of two-phase flow heat transfer during boiling and condensation using COMSOL Multiphysics and ANSYS Fluent 19.1 were discussed which were highly beneficial for research students. In conclusion, the future plans of research to be conducted was shared with. The highly informative session came to an end with the vote of thanks..



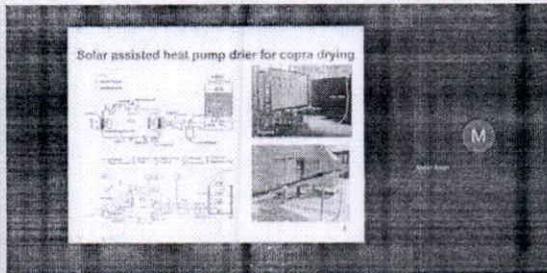
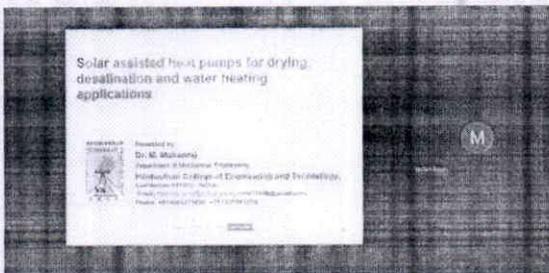
**Session 7:** September 23, 2020 (9.30 AM to 11.00 AM)

**Solar Heat Pump for drying, water heating and desalination**

**Dr. M. Mohanraj**

Professor, Department of Mechanical Engineering  
 Hindusthan College of Engineering & Technology, Coimbatore

The session opened with a warm introduction to the resource person. Initially, an outline of the presentation as planned was briefly explained by the resource person. A general introduction to heat pumps was presented. The methods that can be adapted to improve the performance of a heat pump such as integrating with renewable energy sources using solar thermal collector-evaporators, solar photovoltaic-thermal hybrid collector-evaporators, geothermal heat exchangers and solar-geothermal hybrid heat exchangers was dealt with in detail.



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Different types of solar heat pump configurations with their schematics such as Solar hybrid heat pump configurations, High temperature heat pump cycles were discussed. The resource person subsequently presented his research work on heat pump driers. The heat pump driers are energy efficient, which produce high quality dried products especially for agricultural products. Solar and ambient heat sources are possible to integrate with the heat pump system through the solar collector and finned tube air cooled heat exchanger. It has been well understood that heat pump driers are energy efficient, which produce the products of good quality. The schematics, installation details and test results of solar assisted heat pump drier for copra drying was presented which was informative and highly interesting. A performance enhancement measure for solar assisted heat pump drier was explained with schematics, images of prototypes, specifications, test results etc. which was highly interesting and informative. The results obtained were highly promising. The COP of DXSAHP using packed bed evaporator-collector was improved by about 10.3% when compared to flat plate evaporator-collector. The schematics, installation images, prototype details, specifications etc. of heat pump water heaters, solar heat pump assisted solar still, portable solar assisted heat pump water heater etc. was discussed in detail. In the concluding remarks, the potential for future research in this area was addressed which was highly helpful for research aspirants.

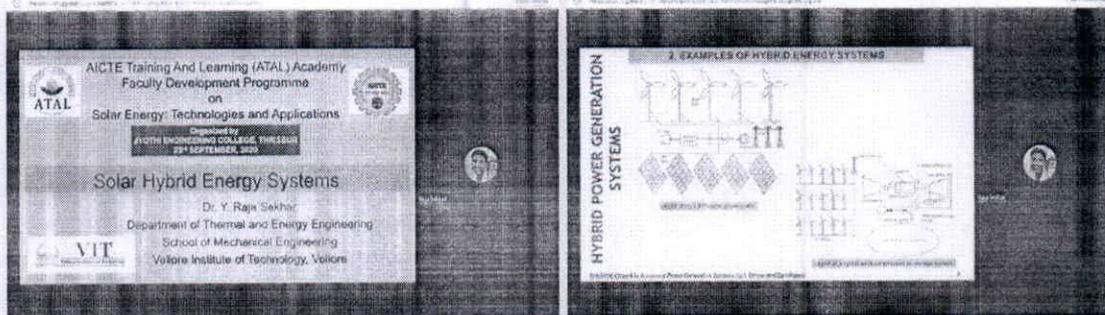


**Session 8:** September 23, 2020 (11.30 AM to 1.00 PM)

### Solar Hybrid Energy Systems

**Dr. Raja Sekhar Y,**  
Associate Professor, School of Mechanical Sciences,  
Vellore Institute of Technology, Vellore

The focus of the talk was hybrid renewable energy systems based on solar. The speaker initially presented a broad picture of integrated power generation systems. Multi-staged systems, cascaded systems, combined systems and hybridized systems come under the broad category of Integrated power generation systems. Special attention was given for hybrid energy systems. The layout employed for the hybrid energy systems were presented in detail with helpful illustrations.



Some of them were PV-wind power plants, wind-compressed air storage system, solar-PV, wind turbine, and diesel power integrated generation system, one-through solar reformer/fuel cell system etc. Classification, evaluation and sizing methodologies employed in hybrid renewable energy systems were dealt with in detail in a lucid style. Among different types of hybrid renewable energy systems, PV-wind-ES finds majority of applications followed by PV-ES and PV-wind-diesel systems. Others are potential contenders with huge potential and they are slowly catching up. Detailed discussions were undertaken on evaluating indicators in HRES, especially the reliability indicators. Others such as Economic Indicators, Environmental Indicators and Social Indicators were also discussed with due consideration. The key results of the case study on the techno-economic feasibility analysis of integrating grid-tied solar PV plant in a wind farm at Harapanahalli was presented. The net power output from the same area of the land got enhanced by 54%. NPV and IRR estimates conclusively showed the feasibility of the project. Case study on the thermodynamic assessment of desalination plant employing tri-generation (two stage humidification

dehumidification desalination and cooling) was presented next. The effectiveness of hybrid renewable energy systems is demonstrated by the results obtained; nearly 1.5 LPH of fresh water and about 175 W of cooling is generated from the integrated plant with 15 m<sup>3</sup>/h air. The details of vapour compression cooling system powered by solar PV array, layout plan of solar PV power plant and cold storage system, solar power plant (25 kW) with battery backup to power the cold storage and pre-cooling unit and cold storage facility for horticultural produce (6-8 tonne) were presented which attracted the attention of participants. Thermodynamic treatment of vapour absorption system systems, typical installations of vapour absorption system incorporating hybrid renewable energy and their performance test results were also shared. The software tools which are available for studies on hybrid renewable energy systems were also shared with will be greatly helpful for candidates aspiring for research in this area. The exciting session concluded with a precise summary of challenges and opportunities in the area of Solar Hybrid Energy Systems

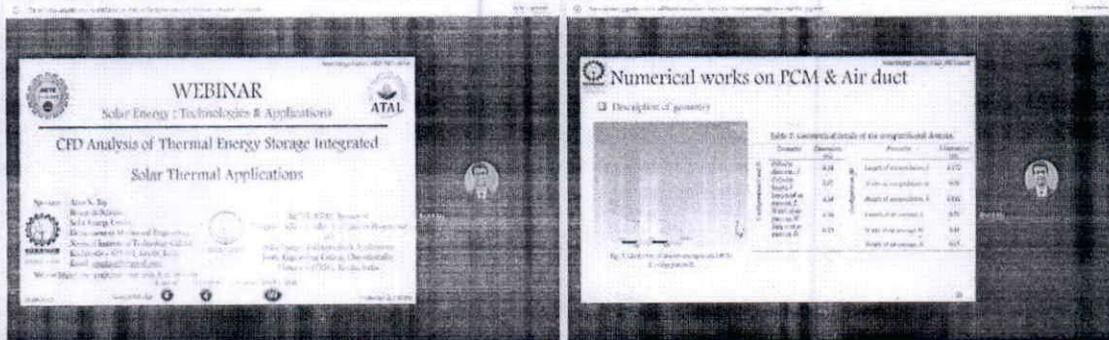


Session 9: September 23, 2020 (2.30 PM to 4.00 PM)

**CFD Analysis of Thermal Energy Storage Integrated Solar Thermal Applications**

**Dr. Arun K. Raj**  
Department of Mechanical Engineering,  
National Institute of Technology Calicut

The resource person firstly presented an overall picture of world energy production and consumption. Due to ever widening gap between production and consumption, relying on renewable energy sources can be an alternative solution. However, major renewable energy sources like solar energy, wind energy etc. are characterized by its intermittent nature. Subsequently the resource person introduced the concept of energy storage. In order to reduce the mismatch between energy supply and demand, energy storage is necessary. This improves the reliability and performances of energy systems and reduces wastage. Types of thermal energy storage commonly available are sensible heat SH, latent heat LH, thermochemical, cryogenic, combination of SH and LH etc.



Examples of sensible heat materials are iron, lead, aluminum, graphite, bricks, rocks, sand, limestone, slags, concrete etc. whereas that for latent heat materials are salt hydrates, fatty acids, paraffin compounds, eutectics of organic and inorganic compounds etc. A phase-change material (PCM) is a substance with a high heat of fusion which, melting and solidifying at a certain temperature, is capable of storing and releasing large amounts of energy. PCM's fall into categories such as salt hydrates, paraffin, non-paraffin organic solids, inorganic compounds, clathrate and semi-clathrate hydrates, eutectics. Measures employed to tackle incongruent melting and super cooling in salt hydrides was discussed. Subsequently the results on CFD simulation studies of macro-encapsulated PCM in air duct as well as on PCM integrated in Evacuated Tube Collector (ETC) type solar water heating (SWH) system was presented. Several configurations of PCM incorporated on Air duct was employed for the study. The objective of the numerical analysis was to determine the favorable encapsulation geometrical configuration to be integrated within the solar water heater. The CFD model was able to visualize and predict the behaviour of a latent heat storage unit integrated

ETC SWH was developed. Heat input, melting temperature, latent heat, and quantity of wax was observed to have a significant influence on the phase transition of the selected PCM introduced in the airflow pathway of the SAH system. The session was concluded with the presentation of the results of CFD simulation for the two cases. The appreciated the relevance of the topic and the presentation provided valuable insights in CFD analysis.



**Session 10:** September 24, 2020 (9.30 AM to 11.00 AM)

**Multilevel inverter PWM generation for solar PV systems**

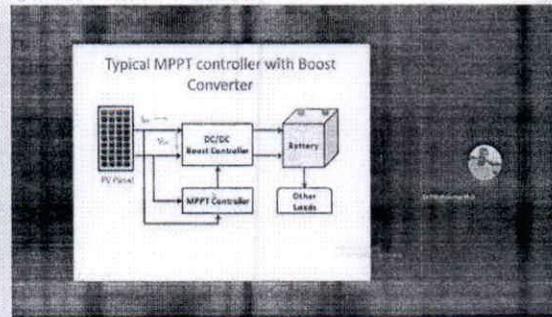
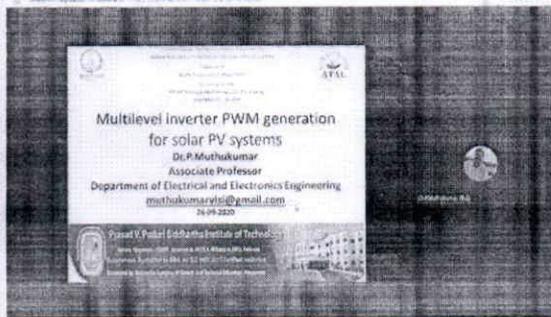
**Dr. P. Muthukumar**

Associate Professor,

Dept. of EEE,

Prasad V. Potluri Siddhartha Institute of Technology, Andhra Pradesh

The resource person first gave an introduction on the classification of photo voltaic systems based on functional and operational requirements, component configurations, and how the equipment is connected to other power sources and electrical loads. The two principal classifications are grid-connected or utility-interactive systems and stand-alone systems. Stand-alone PV systems are designed to operate independent of the electric utility grid, and are generally designed and sized to supply certain DC and/or AC electrical loads.

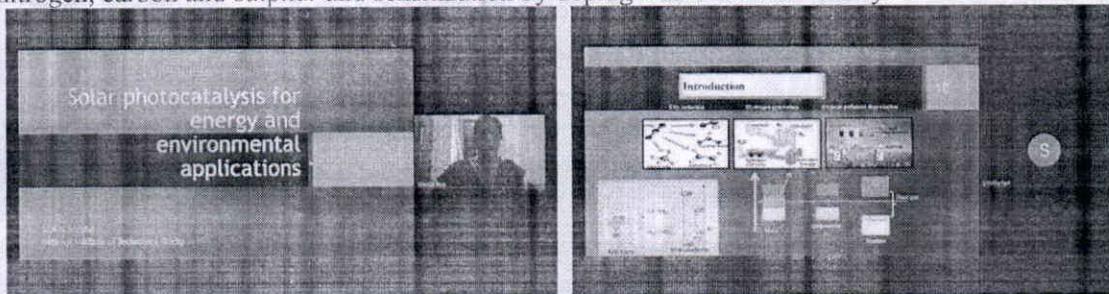


Adequate discussions were conducted on various configurations of PV systems and the functional parts such as charge controller, MPPT controller and inverters. The charge controller is a set of circuit (controller) to protect the battery from over charging whereas MPPT controller is used to suck the maximum power from PV arrays. The performance measure of inverters by the estimation of THD was dealt with in detail. Classification and topology of inverters such as two level and multi-level employing sine pulse width modulation (SPWM) were presented in detail with illustrations. Drawback of two level SPWM-Inverter are high switching losses of the semiconductor switches and cost and size of the filter. The novel concept of multilevel inverter (MLI) was introduced which overcomes the drawback of traditional inverter configurations. In a multilevel inverter, power semiconductor elements which are capable of providing desired alternating voltage with multiple levels at the output using multiple level DC voltages as an input or Single DC Source are used. A MLI gives output AC closer the sine wave with lesser THD without filters. Major categories of MLI are diode clamped, capacitor clamped and cascaded H-bridge based. The cascaded multilevel control method is very easy to implement when compared to other multilevel inverter topologies. The two PWM methods mainly used in multilevel inverter control strategy are Multi carrier PWM and Carrier less PWM. Based on the number of source there are Symmetrical MLI and Unsymmetrical MLI. The schematic and prototype of 31-level multi-level Inverter was shared in the presentation with the simulated and actual test results. It was observed that as the number of levels increased then the THD, magnitude of higher order harmonics will be reduced. The Lower order harmonics are also dominated in less number of levels. Various topographies and operation modes of carrier based single H-Bridge and multiple sources MLI were shared which was a new experience for majority of the participants. The classifications and analysis of multi-level inverter such as Phase Disposition (PD), Phase opposition Disposition (POD) and Alternate Phase Opposition Disposition

(APOD) was discussed in detail with numerous illustrations. The performance measures such as THD and Harmonic Spread Factor (HSF) were vividly explained. The simulation diagram and results FFT analysis for multi-level inverter were presented which was highly informative for research students in power electronics. The objective of the session was well accomplished as evinced by the feedback and discussions after the session.

	Session 11: September 24, 2020 (11.30 AM to 1.00 PM)
	<b>Solar Photo-catalysis for Energy and environmental Applications</b>
	<b>Dr. K. N. Sheeba</b> Associate Professor, Dept. of Chemical Engineering, NIT Tiruchirappalli, Tamil Nadu

The resource person, in the opening slides presented the basic fundamentals of catalysis and catalysts with clear illustrations. Subsequently the topic of the presentation was introduced with apt and clear illustration that was understandable even for a novice. The same was highly acclaimed by participants. The mechanism of photo-catalysis was explained in lucid style with suitable examples. The classification of photo-catalysis with adequate examples for each of them was presented subsequently. Modification of photo-catalyst such as dye sensitization for organic molecules, surface modification for improved stability, coupled semiconductors for multi-layer systems, doping by nitrogen, carbon and sulphur and sensitization by doping was dealt with briefly.



The principle employed for the reduction of recombination by metallic doping was explained subsequently. Upon induction of light, electrons are generated in the conduction band whereas holes are generated in the valence band called excitons. Doping of metallic substance attracts electrons from conduction band, thereby reducing electron hole recombination. Advantages of nanoparticles over bulk particles for modifications were highlighted. For instance, high surface area provides larger catalytic sites and thereby more activity, morphology tuning by nanoparticles in the form of wires, plates, spheres etc. Conditions affecting photocatalytic activity such as crystallinity, surface area, crystal structure etc. was discussed in detail. Prominent applications of photo catalysis in energy and environmental areas such as water splitting/H<sub>2</sub> generation, production of fuels, water and air treatment, CO<sub>2</sub> reduction, organic deodorization, antimicrobial treatments were aptly discussed. The historical developments in photo-catalysis starting from 1960s to present are highly informative and useful for research scholars. The technological details of photocatalytic reduction of CO<sub>2</sub> using visible light driven carbon based nanocomposites attracted wide interest among participants on account of the potential for sustainable development. Furthermore, heterogeneous photo-catalysts based on metal-free polymeric graphitic carbon nitride semiconductors for photo reduction of CO<sub>2</sub> and evaluation of photocatalytic performance efficiency of reduction process in aqueous and non-aqueous medium was presented. The criteria for the design of photo-catalytic materials such as low recombination rate, visible light absorption and stability was explained in detail. Semiconductor materials available (Zns, TiO<sub>2</sub>, SrTiO<sub>3</sub>, NaTaO<sub>3</sub>, Ag<sub>3</sub>PO<sub>4</sub>, WO<sub>3</sub>, Fe<sub>2</sub>O<sub>3</sub>, g-C<sub>3</sub>N<sub>4</sub>, CdS, MoS<sub>2</sub>, Cu<sub>2</sub>O) for photo-catalysis process and their relative merits was presented. Synthesis of graphitic carbon nitride (g-C<sub>3</sub>N<sub>4</sub>) and photocatalytic performance efficiency of AgBr decorated g-C<sub>3</sub>N<sub>4</sub> composite towards CO<sub>2</sub> reduction reaction and the details of experimental setup was presented. Effect of rate determining parameters of AgBr/AgCl/AgI decorated g-C<sub>3</sub>N<sub>4</sub> composite towards CO<sub>2</sub> reduction

reaction such as AgBr/AgCl/AgI loading concentration, reaction media, irradiation time and catalyst dosage was explained in detail along with stability assessment criteria such as recycling, storage in dark and photo aging. The results showed that main products from the photocatalytic reduction of CO<sub>2</sub> were methane, acetone and ethanol and 1% AgI/g-C<sub>3</sub>N<sub>4</sub> nano-composite shows enhanced photo-catalytic activity than g-C<sub>3</sub>N<sub>4</sub>. The results of experiments on photocatalytic reduction of CO<sub>2</sub> using non- aqueous (gas) phase reactor was presented next. The detailed schematic of experimental setup and a comparison with the AgX decorated g-C<sub>3</sub>N<sub>4</sub> was also furnished. Lower methane production was observed in gas phase reaction than that of liquid phase reaction. Experimental results on solar photocatalytic degradation of phenolic effluent by semiconductor, alkali halide, non-metal, and layer doubled hydroxide modified g-C<sub>3</sub>N<sub>4</sub> catalyst in a continuous flow reactor. The objective of the experiment was to evaluate the effect of process parameters on the photocatalytic performance of modified g-C<sub>3</sub>N<sub>4</sub> to treat real tannery effluent in a continuous flow reactor. The session concluded with the discussion on challenges in photo-catalysis and avenues that are open for active research.



**Session 12: September 24, 2020 (2.30 PM to 4.00 PM)**

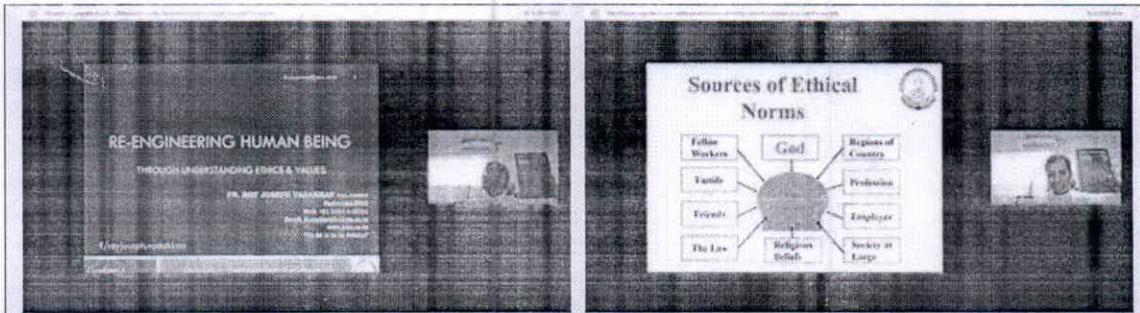
**Re-Engineering Human Being:  
Through Understanding Ethics and Values**

**Fr. Roy Joseph Vadakkan**  
Secretary & Campus Head,  
Jyothi Engineering College, Thrissur

“Re-engineering human beings through understanding ethics and values” was the topic of the session. The session was aimed to develop insights on knowing thyself, understand the ethical world and being a man of values. In this session the resource person portrayed the relationship between technology, human values and ethics. In the opening of the presentation, the resource person emphasized the importance of communication in the teaching learning process. Learning can be defined as any relatively permanent change either in your behaviour or in your cognition. For teaching learning process to be effective, the mindset of the teacher and learner should match. Communication is deemed to be a failure if it is not cyclic; in other words a feedback is not received from the listener. There are three methodologies to learn; fear, force, freedom. The four pillars of education are learning to know, do, be, together. According to Vinod Bave, three aims of education are yogam (mind formation), udhyogam (talent formation) and sahayyogam (societal formation). If you want to be successful you have to forget the surroundings and just engage in what you want to try and play a single role in a life. Role can be defined as the expectation about a life position in the life sequence. Role can be classified into three type; perceived role, expected role and enacted role. Role ambiguity is one of the problem in 21st century. Einstein have given the definition of madness as doing the same thing again and again each time expecting a different result. Same thing can be implemented in the teaching learning process in the class rooms also, which will make the classes enchanting. It has been widely understood that the three pillars of life are pleasure, possession and power. Success encompass three elements; knowledge, understanding and love that is attributed to brain, mind and heart respectively. Human beings are proactive and man is a rational animal as Aristotle have pointed out. Men are known to be rational whereas women are known to be emotional. It will be worthwhile to quote here: “The origin of a child is a mother, a woman, she shows a man what sharing, caring and loving is all about. That is the essence of a woman”- Sushmita Sen, Miss Universe 1994. It has been well established that basic emotional needs of a human are acceptance, appreciation, approval, affirmation, affection. The factors that create sadness are considered to be negative mindset/ attitude perception, unawareness about the golden rule of making others happy, thinking about you and craze towards worldly things. It has been well established that the two elements in the human beings are body and the mind. Subsequently the objective of the session was introduced and dealt with a philosophical perspective.

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Emphasis was given for developing and nurturing values and ethics for success in life. Ethics and values are interconnected. Firstly a person have to know about thyself, then only he can understand what values and ethics are all about. Know thyself is the best knowledge on can acquire as Socrates have pointed out. If you know about yourself, then you can conquer yourselves and become a master in all the deeds and endeavors. Ethics can be defined as a commitment to a higher order of moral values and ability to distinguish right from the wrong. The word ethics is derived from the Greek word “ethos” meaning character or manners. Ethics is the source of character of a person expressed as right or wrong conduct as per the prevailing moral standards. Objective of ethics in general is to study human behaviour, establish standards of behaviour and prescribe moral behaviour and expresses an opinion or attitude about human conduct. These are closely connected with mental domain which is an objective are of a human being. Two key branches of ethics are descriptive ethics and normative ethics. Descriptive ethics involves describing, characterizing and studying morality. The session concluded with a brief discussion on improving ethical climate in an organization. In general, the participants acquired valuable philosophical insights on human values and ethics for a successful life from this session.

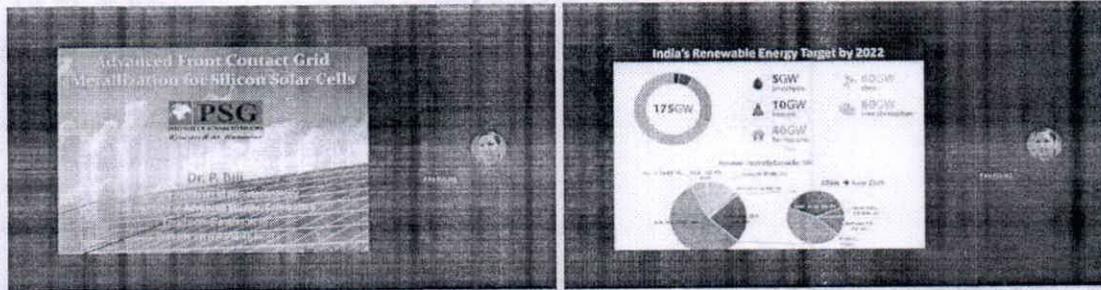


**Session 13:** September 24, 2020 (9.30 AM to 11.00 AM)

**Advanced Front Contact Grid Metallization for Silicon Solar Cells**

**Dr. P. Biji**  
Associate Professor in Nanotechnology,  
PSG Institute of Advanced Studies,  
Coimbatore, Tamil Nadu.

The resource person in the opening of the presentation emphasized on the need of sustainable energy due to the increasing amount of greenhouse gases and the resultant global warming as a result of indiscriminate use of fossil fuels. Non renewable energy sources such as fossil fuels are getting depleted day by day and the use of nuclear energy is highly hazardous.



On the other hand we have clean and renewable energy at our disposal such as solar, hydroelectric, biofuel, tidal power, geothermal and wind power which are poorly utilized. The energy generated in India by renewable energy sources is 21% and is expected to increase from a current value of 82.6 GW to 175 GW by 2022. The contribution of solar energy is expected to 37 GW by 2020. Currently for the commercial photovoltaic systems, crystalline silicon cells are employed, which is a

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The characteristics of ground-level solar radiation and the procedure for the measurement of solar irradiance were explained in detail. Subsequently, the construction details and working principle of Pyrheliometer was presented vividly with neat illustrations. The resource person then presented an overview of applications of solar energy such as solar water heating, solar heating of buildings, solar distillation, solar drying of agricultural and animal products, solar furnaces, solar cooking, solar pumping solar electric power generation, solar thermal power production, solar greenhouses etc. The general constructional features and principle of working of solar power conversion technologies such as parabolic trough collector, linear Fresnel collectors, solar towers, and parabolic dish concentrator were presented in a concise yet easily understandable manner. Subsequently, the session focused on Concentrating Solar Power Technologies. In the informative and vivid session, the historical perspective of Concentrating Solar Power Technologies and classification based on power output and their relative merits were presented. The resource person pointed out that linear Fresnel reflector and parabolic trough collectors are simple in design and provide cost effective technologies for power generation and there is scope of improvement in the performance of line focusing systems, in general. Constructional features and typical schematics with specifications of Concentrating technologies such as Glass Faceted Concentrator, Full Surface Paraboloid Concentrator, Single facet Stretched Membrane Concentrator and Multi facet Stretched Membrane Concentrator were explained in detail. Associated tracking systems for solar dish such as azimuth-elevation mount, polar-declination mount and roll-tilt mount were also presented. Typical designs for receiver for dish concentrator such as surface/flat receiver and cavity type receiver were compared and contrasted.

The remark on the research scope on the design of perfect and imperfect/fuzzy dish was widely appreciated by the audience. The results of analysis for the optimal design of Temperature Contours of Modified Cavity Receiver and Schematic and Temperature Contours of 3-D Secondary Reflectors were shared which were very helpful for the participants who want to pursue research in this area. The design aspects of solar parabolic trough and the associated tracking system and issues and challenges in power tower and line focusing of concentrated solar power technologies employed in direct steam generation and thermic fluid was explained in detail with excellent illustrations. The hot research areas and challenges in concentrated solar power were briefly explained which was very informative for the research students. The need for cooling requirement of concentrated photovoltaic systems was addressed in the presentation. Active and passive cooling technologies by means of extended fins, micro channels, phase change materials, nano-fluids, etc. were dealt with briefly in the presentation. Discussions on Global solar power plant installations based on concentrated solar power technologies aroused wide interests among participants. The presentation was concluded with a briefing about the current research activities in the affiliated institution.

	<b>Session 15: September 24, 2020 (2.30 PM to 4.00 PM)</b>
	<b>Discussion, Test, Feedback and Valedictory Function</b>
<p>Prior to the commencement of valedictory session, an objective test of 30 min. duration, covering the subject topics of the faculty development programme was conducted online using google forms as the platform. Subsequently the valedictory session commenced at 3:00 PM with Mr. Sheik Aftab delivering the welcome address. In his welcome address, he extended a warm welcome to our Research Director Sr. Dr. Rose Anitha, the chief guest and president of the gathering, resource persons, faculty members and all the participants from the different parts of the country. Subsequently, Sr. Dr. Rose Anitha delivered the presidential address. In the presidential address, she expressed her gratitude and appreciation for the efforts taken to conduct such a programme on a highly relevant topic. She opined that the sessions were delivered by renowned resource persons from reputed institutions across the globe. She pointed out that the programme was conducted in a good manner and highly successful in covering the topics starting from the basics of solar energy to advanced ones such as hybrid energy.</p>	

September 21 – 25, 2020

Five-day Online Faculty Development Programme on  
**Solar Energy: Technologies and Applications**

The function was subsequently declared open for participant's feedback. Several participants expressed their views and majority of them opined that the programme was highly informative and the resource persons employed were highly competent on their respective domains. Many of them disclosed that the programme was highly helpful and gave large insights for their ongoing Ph.D. and expressed their gratitude for the organizers of the programme.



N. Senthilkumar

Subha T.D

Samik Bhatt

Debashree

Arvind L. Chel

The vote of thanks was delivered by Dr. Biju C.V. Associate Professor, Mechanical Engineering. In his address, he specially thanked AICTE ATAL Academy for the financial assistance for the conduct of the programme. Sincere gratitude was extended to the resource persons for delivering the lectures, the coordinator of the programme, management of Jyothi Engineering College and the aspiring participants. Subsequently, the programme was declared adjourned by the president of the gathering.

It was a great Initiative by **ATAL Academy** amidst the prevailing pandemic condition due to Covid-19. We hereby express my sincere gratitude to AICTE ATAL Academy for the financial assistance for the conduct of the programme. We also thank AICTE for giving me the opportunity to conduct the programme free of cost for the faculty members of technical institutions of India. We got huge response for registration from participants as well as a lot of appreciation and compliments on the selection of topics and resource persons, the manner in which online FDP was conducted etc.

**Special Acknowledgement to AICTE ATAL Academy, New Delhi**



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AIOTE Training And Learning (ATAL) Academy  
Faculty Development Programme  
08  
Solar Energy: Technologies and Applications

Solar Thermal Collectors- Performance  
Enhancement with passive techniques

Dr. Y. Raja Sekhar  
Department of Thermal and Energy Engineering  
School of Mechanical Engineering  
VIT - Vellore

Year	Oil Production (Billion Barrels/Day)	Gas Production (Billion Cubic Feet/Day)
1960	10	1
1970	25	2
1980	20	3
1990	15	4
2000	10	5

5 days online FDP on Solar Energy - Technologies and Applications  
21-09-2020 TO 25-09-2020

True Copy Attested

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