



Jyothi Engineering College

Approved by AICTE & affiliated to APJ Abdul Kalam Technological University

N/AAC Accredited College with 883 Accredited Programmes



APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
JYOTHI ENGINEERING COLLEGE, CHERUTHURUTHY, TRISSUR, PIN-679531, KERALA
A CENTRE OF EXCELLENCE IN SCIENCE & TECHNOLOGY BY THE CATHOLIC ARCHDIOCESE OF TRIVANDRUM

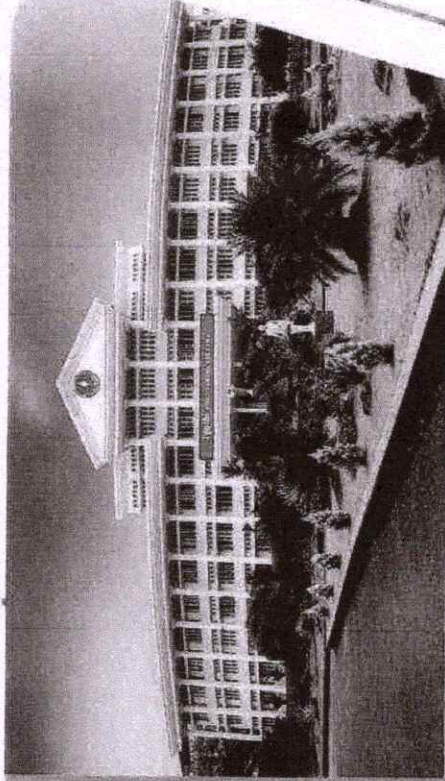
APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY, TRISSUR, PIN-679531, KERALA
JYOTHI ENGINEERING COLLEGE, CHERUTHURUTHY, TRISSUR, PIN-679531, KERALA
APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY, TRISSUR, PIN-679531, KERALA
JYOTHI ENGINEERING COLLEGE, CHERUTHURUTHY, TRISSUR, PIN-679531, KERALA

Topics to be Covered:
• Computing Applications
• Security & Trends
• Introduction (Sensors, Actuators, Processing and Communication)
• Working with Raspberry Pi & DIY Projects with Raspberry Pi
• Familiarisation

• Project
• based Project Development
• Diagnostics
• Logical Visualization
• Working with Arduino & DIY Projects with Arduino
• Production Scale Up & Production

**FIVE DAYS OFFLINE
FACULTY DEVELOPMENT PROGRAMME**

Edge based IoT for Industrial Applications



Sponsored by
APJ Abdul Kalam Technological University
Trivandrum, Kerala

**19th to 25th
January
2023**

Resource Persons:

- Dr. G. Santhosh Kumar, Professor, CSE, Cochin University of Science & Technology
- Dr. Steekanth K., Head- Solutions & Research, ICT Academy Kerala
- Mr. Riji N. Das, Head- Knowledge Office, ICT Academy Kerala
- Ms. Aparna P. Mahesh, IoT validation Engineer, Zilicon Technologies Pvt Ltd, TVM
- Mr. Abhijith Aji Kumar, IoT Technical Skills Trainer, ICT Academy Kerala

Organizing Committee

- Chief Patron: Magr. Jose Konnikkara (Manager)
- Patrons: Rev. Fr. Thomas Kakkassery (Executive Manager)
- Rev. Fr. Dr. Jose Kannampuzha (Academic Director)
- Organizing Chairman: Dr. Jose P. Theerattil (Principal)
- Dr. V.M. Xavier (Registrar)
- Coordinator: Dr. Saju P. John (Professor & Head, Computer Science & Engineering)
- Executive Committee:
- Dr. Sunny Joseph Kalayathankal (Director Research)
- Prof. Ratnan P. (Vice Principal)
- Dr. Vivek Lukose (Centre Coordinator)
- Dr. Vijayakumar R. (Professor, Computer Science & Engineering)

Contact Details :

- Sona Shaju K., Assistant Professor, sonashajuk@jecc.ac.in, Mob. 8606245031
- Soniya A. Joseph, Assistant Professor, soniyaajoseph@jecc.ac.in, Mob. 8590592683

Organized by
Department of Computer Science & Engineering
Jyothi Engineering College, Thrissur
in association with ICT Academy of Kerala



About the Institution

Jyothi Engineering College (JEC) set up in 2002, under the aegis of Thrissur Educational Trust, founded by the Catholic Archdiocese of Trichur, is a leading engineering college in Kerala. The Archdiocese of Trichur has an illustrious track record of a century and a quarter in the education sector. We at Jyothi Engineering College are aware that our stakeholders, including students and recruiters, look for reliable information on quality education offered. Jyothi Engineering College is a NAAC accredited institution with 'A' Grade, affiliated to APJ Abdul Kalam Technological University, Kerala. The NAAC instrument is developed to objectively assess and grade institutions of higher education. Five of the undergraduate programs offered by Jyothi Engineering College have NBA accreditation, which indicates that we are well recognized for the quality of education we offer. We are periodically evaluated for this stringent NBA accreditation criteria to ensure we sustain the mandated quality levels.

The worlds of study and work have changed dramatically. Students of today require different sets of skills than those of previous generations. We are in the midst of the fourth industrial revolution and the predictions are that 85% of the jobs that will exist in 2030 have not been invented yet. JYOTHI hence prepares students to become T-Shaped professionals, i.e., professionals who have in-depth expertise in their discipline as well as a breadth of competencies required in the twenty-first century. Industry seeks engineers with these skills. In order to train our students to become "T" shaped professionals, so that they are "future ready", we have set up an incubation centre, Integrated Industrial Incubation Centre (IIIC), in association with TATA Technologies.

In order to help students become "job creators" rather than "job seekers", Jyothi Engineering College has also set up a Technology Business Incubator, JEC TBI, to create technology based new enterprises, foster an entrepreneurial spirit among students and commercialize R&D output. Additionally, Jyothi Engineering College offers a vibrant, beautiful, and green environmentally friendly campus, and excellent infrastructure for students, to aid the teaching and learning process. For more information visit www.jecc.ac.in

About the Department

The Department of Computer Science and Engineering, with a strong team of research orientated faculty, 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 preparing young, creative and entrepreneurial minds to lead the technological and economic change in the region.

Vision

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

Mission

- ▶ To create 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, Academia and the Government.
- ▶ To instill Entrepreneurial Orientation and research motivation among the student of the department.
- ▶ To emerge as a leader in education in the region by encouraging teaching, learning, industry and societal connect.

Eligibility

Faculty members from colleges affiliated to

APJ Abdul Kalam Technological University are eligible to attend the program. Participation certificate will be awarded on successful completion.

Registration

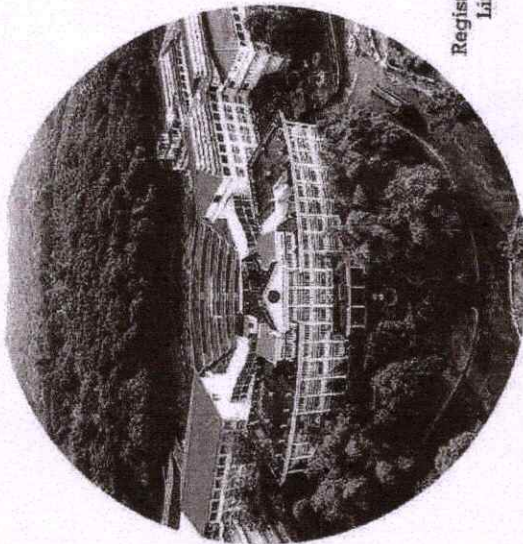
No Registration fee

SCAN ME



Registration Link

<https://tinyurl.com/csefdg>
Last date for Registration: 14.01.
Notification of selection : 16.01.2024



About the programme

The broad objective of this Faculty Development Program is to introduce Trends and Opportunities in Edge Based IoT for Industrial Applications and to impart expertise in one of the most fascinating and fastest growing areas of Computer Science. IoT and its security approaches are widely employed in a variety of applications, including biometrics, medical imaging Processing, and in industry, defence, healthcare culture and many other areas. This course will cover the fundamentals of IoT security and how they apply to various research applications. It would assist in improving skills and capabilities of faculty members at various engineering colleges in India as well as creating an environment, conducive to research and academic success. The goal of the course work is to teach theoretical foundations of Edge based IoT and provide hands-on training based on the latest IoT tools to the audience.



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

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



KTU Sponsored Five Day Faculty Development Programme on

EDGE BASED IOT FOR INDUSTRIAL APPLICATIONS

January 19th - January 25th, 2023

**Organized by Department of Computer Science and Engineering in Association with
ICT Academy Kerala**

Day #	Topic	Date	Time	Resource Persons
Day 1	Inauguration & Keynote	19-Jan	9 AM - 11 AM	Dr. Santhosh G Santhosh Kumar (Professor, CSE, CUSAT)
	Data Processing in IOT		11.15 AM - 1.15 PM	Dr. Santhosh G Santhosh Kumar (Professor, CSE, CUSAT)
	Software Familiarisation		2.00 PM - 4.00 PM	Abhijith Ajikumar (IoT Technical skills Trainer, ICT)
Day 2	Hardware Introduction	20-Jan	9 AM - 12 PM	Abhijith Ajikumar (IoT Technical skills Trainer, ICT)
	Hardware Familiarisation		1.00 PM - 4.00 PM	Aparna P Mahesh (IoT Validation Engineer, Zilicon Technologies. TVM)
Day 3	Industry Expert Session	23-Jan	9 AM - 12.00 AM 01:00PM-2:00PM	Dr. Sreekanth D (Head Solutions & Research, ICT)
	IoT Project Development		02.00 AM - 4:00 PM	Aparna P Mahesh (IoT Validation Engineer, Zilicon Technologies. TVM)
	Implementation of IoT			
Day 4	Introduction to Raspberry Pi [Hands-on]	24-Jan	9 AM - 12.00 AM	Abhijith Ajikumar
	IoT Data Analytics [Demo]		01:00PM-04:00PM	Aparna P Mahesh (IoT Validation Engineer, Zilicon Technologies. TVM)
Day 5	Industry Expert Session	25-Jan	9 AM - 12.00 AM	Davis Jose (Trainer, ICT)
	Cloud Platform Familiarisation		01:00PM-04:00PM	Riji N Das (Head Knowledge Office, ICT)
	Introduction to Arduino [Hands-on]			



Dr. Jose P Therattil
Principal
Jyothi Engineering College
Cheruthuruthy - 679531



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Report of KTU Sponsored Faculty Development Programme

on

Edge Based IOT for Industrial Applications

(January 19th - January 25th, 2023)

"Edge Based IOT for Industrial Applications ", the KTU sponsored Five day Faculty Development Programme was organized by Department of Computer Science and Engineering in Association with ICT Academy Kerala. The objective of FDP was to take the participants through the world of IOT security and how they apply to various research applications. It would assist in improving the skills and capabilities of faculty members at various engineering colleges ,as well as creating an environment ,conductive to research and academic success.

ICT Academy of Kerala is a Social Enterprise created in a Public Private Partnership model (PPP) for imparting ICT skills to the youths of Kerala and improving their employability opportunities in the Industry. The Company is supported by Govt. of India, partnered by Govt. of Kerala and the IT industry.

The five day sessions started with an inauguration function at the decennial hall at 10.00 am. HoD, Dr. Saju P John delivered the welcome address. The programme was inaugurated by Dr. G Santhosh Kumar (Professor CSE,CUSAT). Vice Principal Prof. Ratnan addressed the gathering and exhorted the participants to gain knowledge and to transfer them to the student community. The speakers also asked the participants to take the maximum benefits out of this programme. Mr. John J Padamadan (Asst. Knowledge Officer, ICT academy) also briefed about the ICT Academy of Kerala and its activities.



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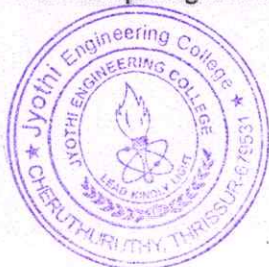
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FDP started with an introduction to IOT by Dr. G Santhosh Kumar. He explained about cyber physical systems for Edge computing: A new frontier to IOT and Integration of cloud computing and IOT, Edge computing, Fog computing, Differentiation of Edge, cloud and



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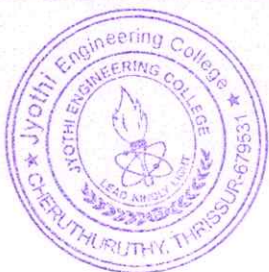
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fog also discussed in that session. Afternoon session handled by Mr. Abijith ICT academy make familiarization of Software components.

The second day of FDP dealt with introduction of hardware components like Arduino, RaspberryPi and familiarization of IOT hardware components like LED, Buzzer, Switch, nanoUSB board, joystick, motion sensor, and LDR. The participants are excited to work with such a hands-on session by Mr. Abijith. On third day there was an industry expert session by Dr. Sreekanth and afternoon session was handled by Ms. Aparna P Mahesh. She introduces various real-world applications of IOT which includes data processing of IOT. Participants were excited to do sample projects using IOT components. The fourth day dealt with introduction of RaspberryPi and programming by Mr. Abijith and IOT data analytics by Ms. Aparna P Mahesh. Fifth day of FDP dealt with an industry expert session by Mr. Davis Jose. Afternoon session dealt with Cloud Platform Familiarization and introduction to Arduino handled by Riji N Das.



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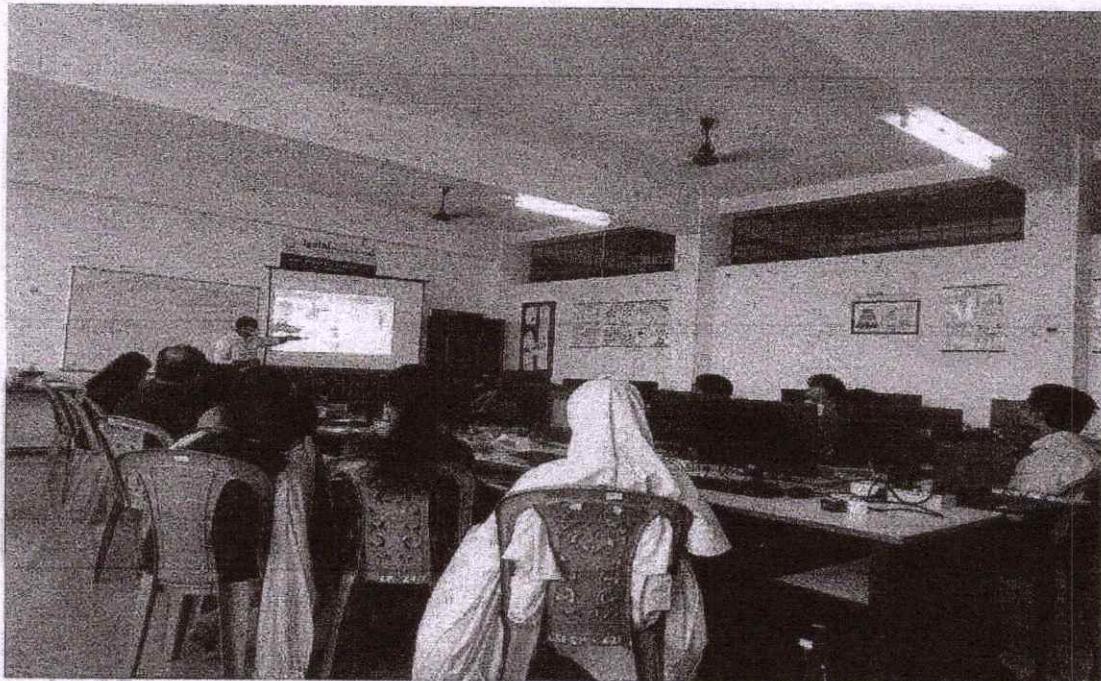
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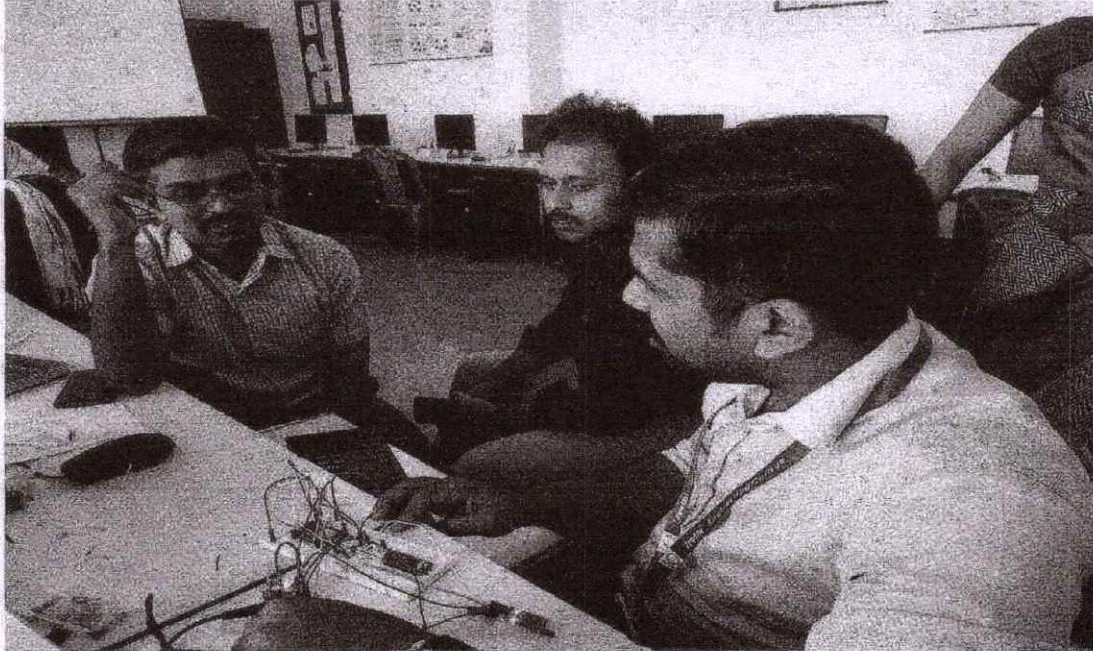
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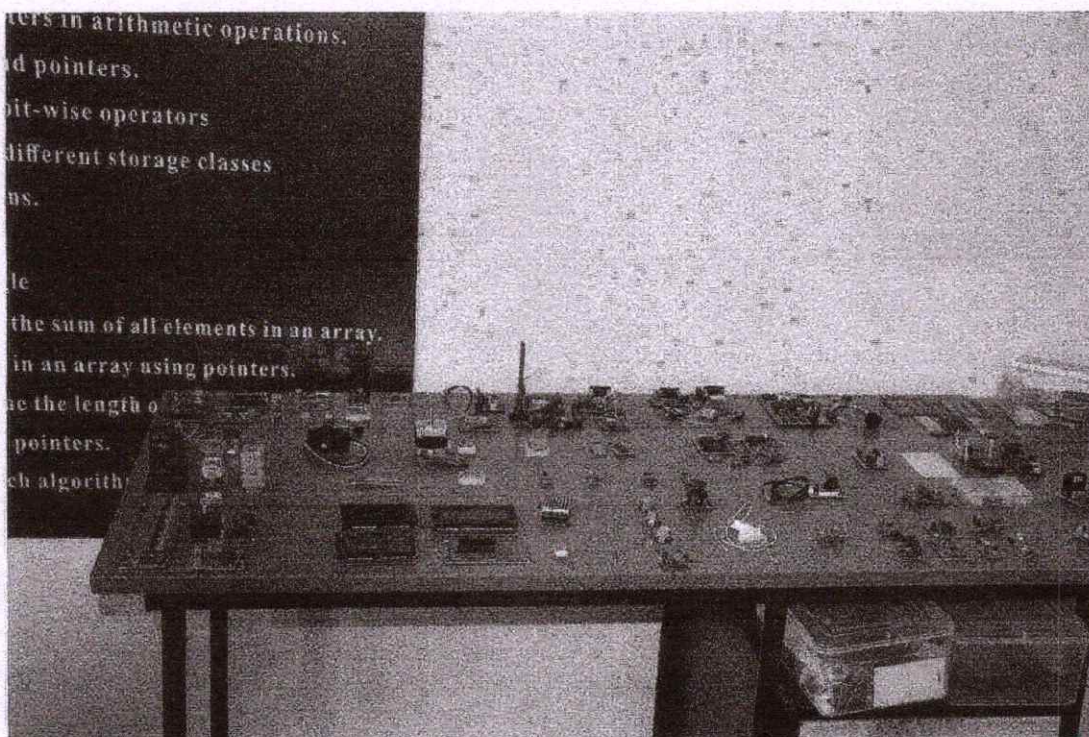
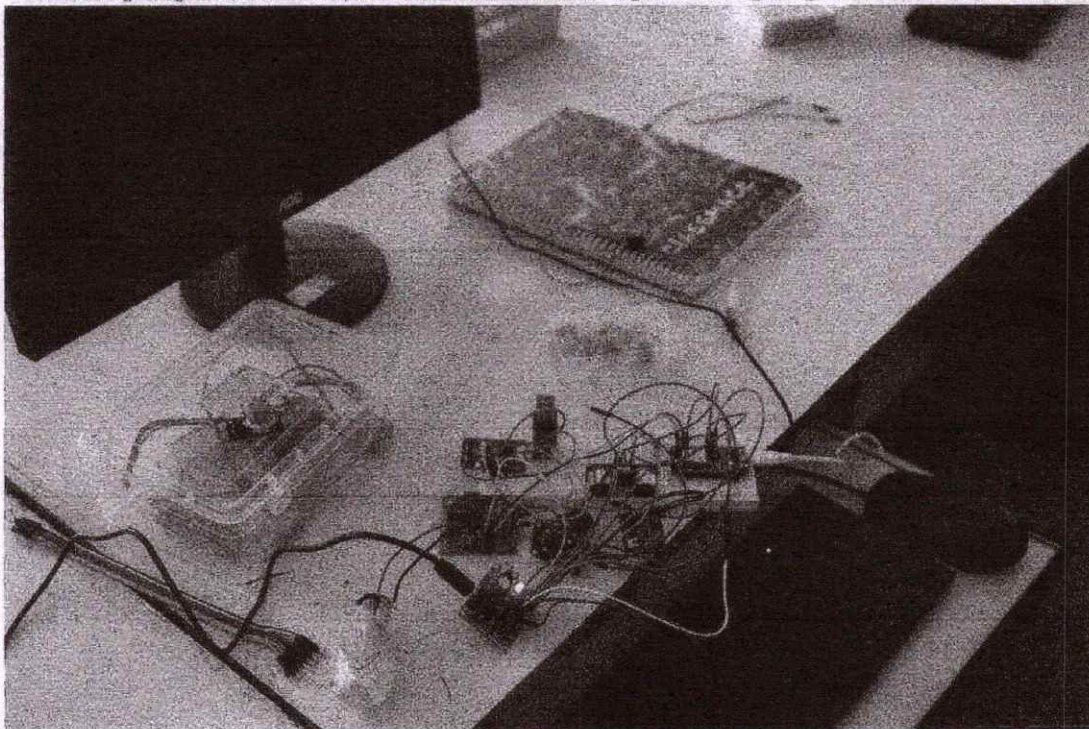
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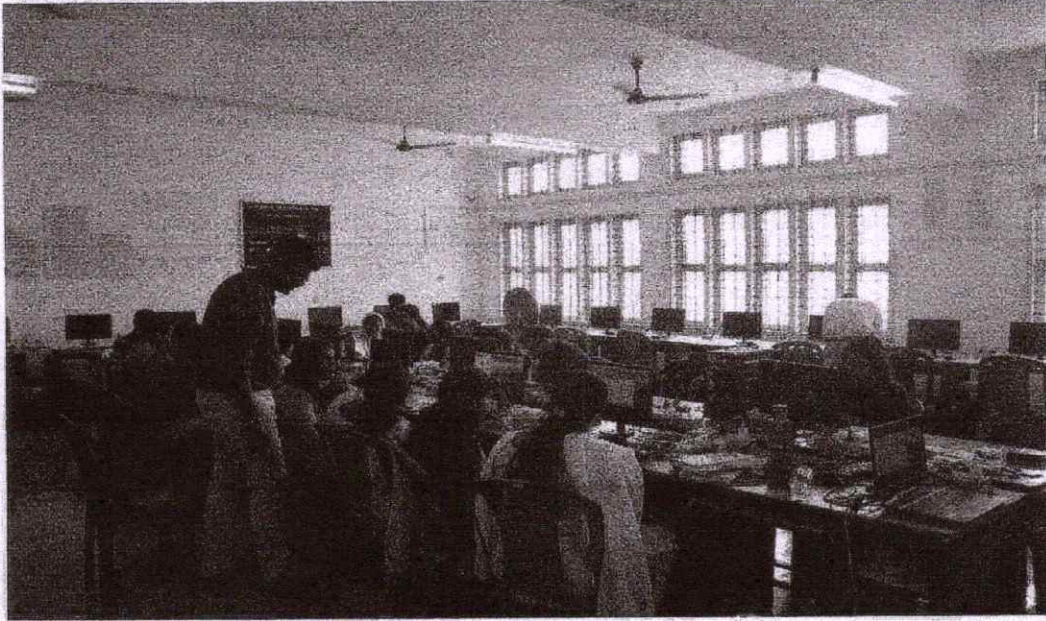
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Total of 30 participants (22 external participants and 8 inhouse participants) attended the FDP. External participants included faculty from various Government Engineering Colleges across Kerala also. FDP was concluded with the valedictory function. Dr. Saju P John, HOD CSE addressed the participants and the participants also provided their feedback about the programme. The programme came to an end after the certificate distribution to all the participants on January 25th, 4.00pm.



Dr. JOSE P THERATTIL
Principal
Jyothi Engineering College
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Attendance List



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KTU Sponsored Five Day Faculty Development Programme on

EDGE BASED IOT FOR INDUSTRIAL APPLICATIONS

January 19th- January 25th, 2023

Organized by Department of Computer Science and Engineering in Association with
ICT Academy, Kerala

ATTENDANCE SHEET

Date : 19.01.2023 Thursday

Slno	Sal	Name	Dept	Institution Name	Signature	
					FN	AN
1	Mrs.	Neethu Prabhakaran P	CSE	Ies college of engineering		
2	Ms.	Survitha P.S	ECE	Ies college of engineering		
3	Ms.	Shejina N M	CSE	IES college of engineering		
4	Ms.	Aswathy Babu	CSE	MES college of engineering		
5	Ms.	Niveditha P.s	ECE	Thejus Eng college		
6	Ms.	Reema Jose	CSE	Christ college of Eng		
7	Ms.	Anup Vasavan	Electronics	Mahaguru Institute of Technology		
8	Mr.	Shine P. Xavier	CSE	Vidhya Academy of Science & Technology		
9	Mr.	Valento Alappatt	CSE	Thejus Eng college		
10	Ms.	Jyothi P. Joy	CSE	Thejus Eng college		
11	Ms.	Divya Jose	CSE	Iecs college of Engg and mgmt		
12	Ms.	Sindhu S	ECE	Jyothi Eng college		
13	Ms.	Bridhu k	ECE	Jyothi Eng college		
14	Ms.	Ambily Francis	ECE	Jyothi Eng college		



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Principal
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15	Ms.	Neethu Rose Thomas	ECE	Jyothi Eng college	Neethu	Neethu
16	Mr.	Sudheer Maras	MCA	Nehru college	Mr.	Mr.
17	Mr.	Pranod	MCA	Nehru College	Pranod	Pranod
18	Mr.	Ashish. L	MCA	Nehru college	Ashish	Ashish
19	Mr.	Jinesh	Mechatronics	Jyothi Eng college	Jinesh	Jinesh
20	Mr.	Akhil Balakrishnan	EEE	Jyothi Eng college	Akhil	Akhil
21	Ms.	Reeny Zacharias	CSE	Jes college of Engineering	Reeny	Reeny
22	Mr.	Jeejo K.P	ECE	Thejus Eng college	Jeejo	Jeejo
23	Ms.	Sreekala R	CSE	Jawahar Lal College of Engineering	Sreekala	Sreekala
24	Ms.	Anu.T.P	CSE	Jawahar Lal College of Engineering	Anu	Anu
25	Ms.	Sindhu S	CSE	Thejus Eng College	Sindhu	Sindhu
26	Ms.	Lucy Vasco	CSE	Vidya Academy	Lucy	Lucy
27	Ms.	Sreeja P	ECE	Sreepathy Institute	Sreeja	Sreeja
28	Ms.	Jyothi KP	CSE	Sreepathy Institute	Jyothi	Jyothi
29	Ms.	Senia A. Joseph	CSE	Jyothi Engg college	Senia	Senia
30	Ms.	Sona Shaju K	CSE	Jyothi Engg college	Sona	Sona



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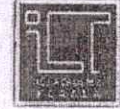
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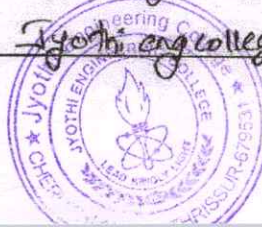
January 19th- January 25th, 2023

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ATTENDANCE SHEET

Date : 20.01.2023 Friday

Slno		Name	Dept	Institution Name	Signature	
					FN	AN
1	Mrs.	Neethu Prabhakaran	CSE	IES college of engg.		
2	Mrs.	Suvitha . P.S	ECE	IES college of engg.		
3	Mrs.	Shejina . N.R	CSE	IES college of engg.		
4	Mrs.	Aswathy Babu	CSE	MES college of engg.		
5	Mrs.	Niveditha . P.S	ECE	Thejus eng college		
6	Mrs.	Reema Jose	CSE	christ college of eng.		
7	Mrs.	Anup Vasavan	ECE	Dahaguru Institute of tech.		
8	Mrs.	Shine . p. Xavier	CSE	Vidhya Academy of Science & Technology		
9	Mrs.	Valento Alappatt	CSE	Thejus eng college		
10	Mrs.	Jyothi . p. Joy	CSE	Thejus eng college		
11	Mrs.	Divya Jose	CSE	ICCS college of eng. and mgmt		
12	Mrs.	Sindhu . S	ECE	Jyothi eng college		
13	Mrs.	Bindhu . K	ECE	Jyothi eng college		
14	Mrs.	Arbely Francis	ECE	Jyothi eng college		



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Principal
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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



15	Ms.	Neethu Rose Thomas	ECE	Jyothi eng college	Neethu	Neethu
16	Mr.	Sudheer Naray	MCA	Nehru college	SA	SA
17	Mr.	pramod	MCA	Nehru college	SA	SA
18	Mr.	Ashish. L	MCA	Nehru college	Ashish	Ashish
19	Mr.	Jinegh	mechatronics	Jyothi eng college	JVJ	JVJ
20	Mr.	Althil Balakrishnan	EEE	Jyothi eng college	SB	SB
21	Ms.	Reeny zacharias	CSE	IES college of engg.	Reen	Reen
22	Mr.	Teejo .K.P	ECE	Thejus eng college	TP	TP
23	Ms.	Sree kala . R	CSE	Tawakhal college of engg...	SR	SR
24	Ms.	Anu .T.P	CSE	Tawakhal college	AT	AT
25	Ms.	Sindhu S	CSE	Thejus Eng College	S	S
26	Ms	Jucy Vaseeo	CSE	Vidya Academy	Jucy	Jucy
27	Ms	Sreeja P	ECE	Sreepathy Institute	So	So
28	Ms.	Jyothu KP	CSE	Sreepathy Institute	JP	JP
29	Ms	Sonia A. Joseph	CSE	Jyothi Engg college	Sonia	Sonia
30	Ms	Sona Shaju.k	CSE	Jyothi Engg college	So	So



Dr. JOSE P. K. Principal
Jyothi Engineering College
Cheruthuruthy - 679531



Jyothi Engineering College

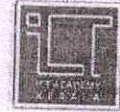
N.A.A.C. Accredited College with NBA Accredited Programmes*

Approved by AICTE & affiliated to APJ Abdul Kalam Technological University

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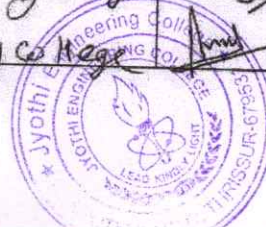
January 19th- January 25th, 2023

Organized by Department of Computer Science and Engineering in Association with
ICT Academy, Kerala

ATTENDANCE SHEET

Date : 23.01.2023 Monday

Slno		Name	Dept	Institution Name	Signature	
					FN	AN
1	ms.	Neethu prabha	CSG	IES college of engg.		
2	ms.	Suvitha. p.s	ECE	IES college of engg.		
3	ms.	Shelina. N.D	CSG	IES college of engg.		
4	ms.	Aswathy Babu	CSG	IES college of engg.		
5	ms.	Niveditha. p.s	ECE	Thejus eng college		
6	ms.	Reema Jose	CSG	christ college of engg		
7	ms.	Anup vaze	ECE	mahaguru Institute of technology		
8	ms.	Shine. p. xaviour	CSG	Vidhya Academy of sciences & technology		
9	ms.	valento Alappat	CSG	Thejus engg college		
10	ms.	Jyothi. p. Joy	CSG	Thejus engg college		
11	ms.	Divya. Jose	CSG	ICSS college of engg and mgmt		
12	ms.	Sindhu. s	ECE	Jyothi eng college		
13	ms.	Birndhu. k	ECE	Jyothi eng college		
14	ms.	Arbily francis	ECE	Jyothi eng college		



Dr. JOSE P TH
Principal



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15	Ms.	Neethu Rave Thomas	ECE	Jyothi eng college	Neethu	Neethu
16	Mr.	Sudheer Nagar	MCA	Nehru college	Su	Su
17	Mr.	pneumod.	MCA	Nehru college	Ps	Ps
18	Mr.	Ashish - L	MCA	Nehru college	Ashish	Ashish
19	Mr.	Tinesth	mechatronics	Jyothi eng college	JS	JS
20	Mr.	Akhil Balakrishnan	EEE	Jyothi eng college	AB	AB
21	Ms.	Reeny zacharias	CSE	IES college of engg.	Reen	Reen
22	Mr.	Jeejo. K.P	ECE	Therius eng college	Jeejo	Jeejo
23	Mr.	Saree kala. R	CSE	Jayachandral college of engineering	SK	SK
24	Ms.	Anu. T.P	CSE	Jayachandral college of engineering	AP	AP
25	Ms.	SHREYAS NAM	CSE	IES COLLEGE OF ENG	Shreya	Shreya
26	Ms.	Sanitha.P.S	ECE	IES college of engg	Sanitha	Sanitha
27	Ms.	Sandhu S	CSE	Therius Eng College	S	S
28	Ms.	Lucy Vaseeo	CSE	Vidya Academy	L	L
29	Ms.	Sreeraj P	ECE	Sreepathy Institute	S	S
30	Ms.	Jyothis KP	CSE	Sreepathy Institute	J	J
31	Mr.	Senia A. Joseph	CSE	Jyothi Engg college	Senia	Senia
32	Mrs.	Sona Shaju.k	CSE	Jyothi Eng college	S	S



Dr. JOSE P. THERATTIL
Principal
Jyothi Engineering College
Cheruthuruthy - 679531



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EDGE BASED IOT FOR INDUSTRIAL APPLICATIONS

January 19th- January 25th, 2023

Organized by Department of Computer Science and Engineering in Association with
ICT Academy, Kerala

ATTENDANCE SHEET

Date : 24.01.2023 Tuesday

Slno	Name	Dept	Institution Name	Signature	
				FN	AN
1.	Mrs. Neethu Prabhakaran	P CSE	Ics college of engg		
2.	Ms. Surutha P.S	ECE	Ics college of engg		
3.	Ms. Shejina N.M	CSE	Ics college of engg		
4.	Ms. Aswathy Babu	CSE	Mes college of engg		
5.	Ms. Niveditha P.S	ECE	Thejus eng college		
6.	Ms. Reema Jose	CSE	Christ college of eng		
7.	Mr. Anup Vasavan	ECE	Mahaguru Institute of Tech		
8.	Ms. Shine P. Xavier	CSE	Vidhya Academy of science & Tech		
9.	Mr. Vabinto Alappat	CSE	Thejus eng college		
10.	Mr. Jyothi P. Joy	CSE	Thejus eng college		
11.	Ms. Divya Jose	CSE	Ics college of eng and mgmt		
12.	Ms. Sindhu S	ECE	Jyothi Eng college		
13.	Ms. Bindhu K	ECE	Jyothi Eng college		
14.	Ms. Ambily Francis	ECE	Jyothi Eng college		



Dr. JOSE P THE Principal
Jyothi Engineering College



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15	Ms.	Neethu Rose Thomas	ECE	Jyothi Engg College	Neethu	Neethu
16	Mr.	Sudheer Marar	MCA	Nehau college	SD	SD
17	Mr.	Pranod	MCA	Nehau college	Pr	Pr
18	Mr.	Ashish . L	MCA	Nehau college	Ashish	Ashish
19	Mr.	Jinesh	Mechatronics	Jyothi Eng college	JV	JV
20	Mr.	Akhil Balakrishnan	EEE	Jyothi Eng college	AB	AB
21	Mr.	Reeny Zacharias	CSE	Tes college of Engg	Reeny	Reeny
22	Ms.	Jeejo . K.P	ECE	Thejus Eng college	Jeejo	Jeejo
23	Ms.	Sreekala . R	CSE	Jawaharlal college of Engg	SR	SR
24	Ms.	Anu . T.P	CSE	Jawaharlal college of Engg	Anu	Anu
25	Ms.	Sundhu S	CSE	Thejus Eng College	S	S
26	Ms.	Lucy Vaneen	CSE	Vidya Academy	L	L
27	Ms.	Sreeja P	ECE	Sreepathy Institute	SP	SP
28	Ms.	Jyothus K P	CSE	Sreepathy Institute	J	J
29	Ms.	Sonia A Joseph	CSE	Jyothi Engg college	Sonia	Sonia
30	Ms.	Sona Shaju . K	CSE	Jyothi Engg college	SK	SK



Dr. JOSE PIERATTIL
Principal
Jyothi Engineering College
Cheruthuruthy - 679531



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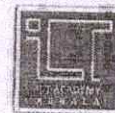
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January 19th- January 25th, 2023

Organized by Department of Computer Science and Engineering in Association with
ICT Academy, Kerala

ATTENDANCE SHEET

Date : 25.01.2023 Wednesday

Slno		Name	Dept	Institution Name	Signature	
					FN	AN
1	Ms.	Neethu Prabhakaran P	CSE	Jes college of eng	<i>Neethu</i>	<i>Neethu</i>
2	Ms.	Suvitha P.S	ECE	Jes college of eng	<i>Suvitha</i>	<i>Suvitha</i>
3	Ms.	Shijina N.M	CSE	Jes college of eng	<i>Shijina</i>	<i>Shijina</i>
4	Ms.	Aswathy Babu	CSE	Mts college of eng	<i>Aswathy</i>	<i>Aswathy</i>
5	Ms.	Niveditha P.S	ECE	Thejus eng college	<i>Niveditha</i>	<i>Niveditha</i>
6	Ms.	Reema Jose	CSE	Christ college of eng	<i>Reema</i>	<i>Reema</i>
7	Ms.	Anup Vasavan	ECE	Mahaguru Institute of Tech	<i>Anup</i>	<i>Anup</i>
8	Mr.	Shine P. Xavier	CSE	Vidhya academy of Science & Tech	<i>Shine</i>	<i>Shine</i>
9	Ms.	Valanto Alappat	CSE	Thejus eng college	<i>Valanto</i>	<i>Valanto</i>
10	Ms.	Jyothi P. Joy	CSE	Thejus eng college	<i>Jyothi</i>	<i>Jyothi</i>
11	Ms.	Divya Jose	CSE	Jes college of eng & mgmt	<i>Divya</i>	<i>Divya</i>
12	Ms.	Sindhu S	ECE	Jyothi eng college	<i>Sindhu</i>	<i>Sindhu</i>
13	Ms.	Bindhu K	ECE	Jyothi eng college	<i>Bindhu</i>	<i>Bindhu</i>
14	Ms.	Ambily Francis	ECE	Jyothi eng college	<i>Ambily</i>	<i>Ambily</i>



Dr. JOSE P THEJAS
Principal
Jyothi Engineering College
Thirissur, PIN-679531



Jyothi Engineering College

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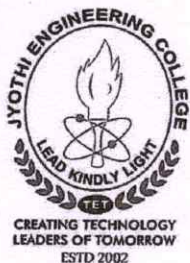


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15.	Ms.	Neethu Rose Thomas	CCE	Jyothi Eng college	Neel	Neel
16.	Mr.	Sudheer Maraz	MCA	Nehru college	JUN	JUN
17.	Mr.	Pranod	MCA	Nehru college	am	am
18.	Mr.	Ashish L	MCA	Nehru college	Am	Am
19.	Mr.	Tiniesh	mechato nics	Jyothi Eng college	JUN	JUN
20.	Mr.	Akhil Balakrishnan	EEE	Jyothi Eng college	SE	SE
21.	Ms.	Reeny Zacharias	CSE	Les college of Eng	chand	chand
22.	Ms.	Tejo K.P	CCE	Thejus Eng college	CT	CT
23.	Ms.	Sreekala R	CSE	Jawaharlal collg of Eng	SS	SS
24.	Ms.	Anu T.P	CSE	Jawaharlal collg of Eng	sh	sh
25.	Ms.	Sindhu S	CSE	Thejus Eng College	\$	\$
26.	Ms.	Lucy Vaseeo	CSK	Vidya Academy	JUN	JUN
27.	Ms.	Sreeja P	ECE	Sreepathy Institute	SUN	SUN
28.	Ms.	Jyothus KP	CSK	Sreepathy Institute	SP	SP
29.	Ms.	Sona A. Joseph	CSK	Jyothi Engineering	chane	chane
30.	Ms.	Sona Shajuk	CSK	Jyothi Engineering	Sh	Sh



Dr. JOSE P THERATH
Principal
Jyothi Engineering College
Chervuthuruthy - 679531



Jyothi Engineering College

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

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



14th September 2022

The Dean(Academics)
A P J Abdul Kalam Technological University
CET Campus Trivandrum.

Sir,

Sub: Submitting the report, Original audited statement and Bills for reimbursement

Ref:-Notification No: KTU/ACA1/1449/2022 dated 14/03/2022 by your office


As per the reference cited above the FDP Proposal submitted by Dr Swapna B Sasi ,Associate Professor, Computer Science& Engineering department has got approval from the University in the Topic "Machine Learning : A Trajectory through the World of adaptive algorithms ". The 5 day FDP has successfully conducted from 22nd August 2022 to 26th August 2022.

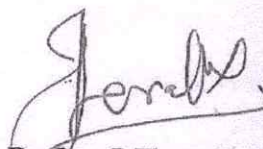
Here we are forwarding the FDP report, audited statement, bills and other enclosures prescribed by the University for your kind consideration. The Total expenditure for the programme is Rs.166533. (1 Lakh Sixty-Six Thousand Five Hundred and Thirty-Three)

It is hereby requested to reimburse the amount to the following account as early as possible.

NAME- JYOTHI ENGINEERING COLLEGE
BANK-FEDERAL BANK
BRANCH-CHERUTHURUTHY
IFSC CODE-FDRL0001699
ACCOUNT NUMBER-15250100001019

Yours Truly,


Dr. Swapna B Sasi
FDP Coordinator
Associate Professor,
Computer Science & Engineering


Dr. Jose P Therattil
Principal




Dr. JOSE P THERATTIL
Principal
Jyothi Engineering College
Cheruthuruthy - 679531

**Report of the Faculty
Development Programme
22nd -26th August , 2022**

Topics to be covered:

Trends and Opportunities in Machine Learning & Artificial Intelligence
Python for Machine Learning
Hands on session on Tools, Platform and Framework for ML/AI
Introduction to Machine Learning Life Cycle
Introduction to Preprocessing
Introduction to Supervised Learning Techniques
Case Study on Regression
Case Study on Classification
Introduction to Unsupervised Learning Techniques
Introduction to Clustering
Hands on session on Case Study on Clustering
Introduction to Dimensionality Reduction
Hands on session on Case Study on Dimensionality Reduction
Artificial Neural Network & Case Study
Introduction to Natural Language Processing
Case Study on NLP
Introduction to Computer Vision
Case Study on CV

Resource Persons:

Dr. Viniith R. (Postdoctoral Fellow, Amrita Vishwa Vidyapeedham, Coimbatore)
Dr. Sreekanth D. (Head, Solutions & Research Dept., ICT Academy of Kerala)
Mr. Unnikrishnan P. (Research Scholar, NIT Calicut)
Mr. Ummer Shaik (Solutions Architect Data Science, Reflections Info Systems, Technopark)
Mr. Abhimanyu K. S. (AI Consultant, QuEST Global, Technopark)

Organizing Committee

Chief Patron: Msgr. Jose Konikara
Patrons: Rev Fr. Thomas Kakkassery, Rev Fr. Jose Kannampuzha
Organizing Chairman: Dr. Jose P Therattil, Principal, Dr. V. M. Xavior, Registrar
Coordinator: Dr. Swapna B Sasi, Associate Professor, Computer Science & Engineering
Executive Committee:
Prof. Ratnan P. (Vice Principal)
Dr. Vivek Lukose (Centre Coordinator)
Dr. Vijayakumar R (Professor, Computer Science & Engineering)
Dr. Sajju P John (Professor & Head, Computer Science & Engineering)

Contact Details :

Dr. Swapna B Sasi, Associate Professor, swapna @jecc.ac.in, Mob: 9447125373
Ms. Ninu Francis, Assistant Professor, ninufrancis@jecc.ac.in, Mob: 9446045708

www.jecc.ac.in | | hodcs@jecc.ac.in



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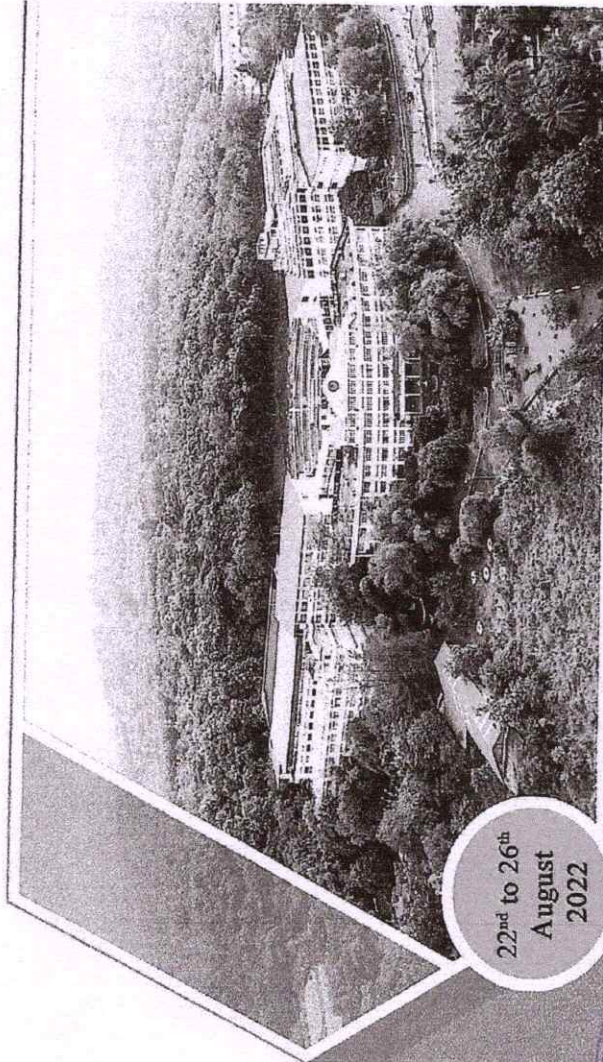
FACULTY DEVELOPMENT PROGRAMME

(OFFLINE MODE)

Machine Learning : A Trajectory through The World of Adaptive Algorithms

Sponsored by

APJ Abdul Kalam Technological University
Trivandrum, Kerala



22nd to 26th
August
2022

Organized by

Department of Computer Science & Engineering

Jyothi Engineering College, Thrissur

in association with

ICT Academy of Kerala



About the Institution

Jyothi Engineering College (JEC) set up in 2002, under the aegis of Thrissur Engineering Trust, founded by the Catholic Archdiocese of Trichur, is a leading engineering college in Kerala. The Archdiocese of Trichur has an illustrious track record of a century and a quarter in the education sector. We at Jyothi Engineering College are aware that our stakeholders, including students and recruiters, look for reliable information on quality education offered. Jyothi Engineering College is a NAAC accredited institution with 'A' Grade, affiliated to APJ Abdul Kalam Technological University, Kerala. The NAAC instrument is developed to objectively assess and grade institutions of higher education. Five of the undergraduate programs offered by Jyothi Engineering College have NBA accreditation, which indicates that we are well recognized for the quality of education we offer. We are periodically evaluated for this stringent NBA accreditation criteria to ensure we sustain the mandated quality levels.

The worlds of study and work have changed dramatically. Students of today require different sets of skills than those of previous generations. We are in the midst of the fourth industrial revolution and the predictions are that 85% of the jobs that will exist in 2030 have not been invented yet. JYOTHI hence prepares students to become T-Shaped professionals, i.e., professionals who have in-depth expertise in their discipline as well as a breadth of competencies required in the twenty-first century. Industry seeks engineers with these skills. In order to train our students to become "T"-shaped professionals, so that they are "future ready", we have set up an incubation centre, Integrated Industrial Incubation Centre (IIC), in association with TATA Technologies.

In order to help students become "job creators" rather than "job seekers", Jyothi Engineering College has also set up a Technology Business Incubator, JEC TBI, to create technology based new enterprises, foster an entrepreneurial spirit among students and commercialize R&D output. Additionally, Jyothi Engineering College offers a vibrant, beautiful, and green environmentally friendly campus, and excellent infrastructure for students, to aid the teaching and learning process. For more information visit www.jecc.ac.in

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.

Vision

Creating ethical leaders in the domain of Computational Sciences through quality professional education with a focus on holistic learning and excellence

Mission

To create 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, Academia and the 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.

Eligibility

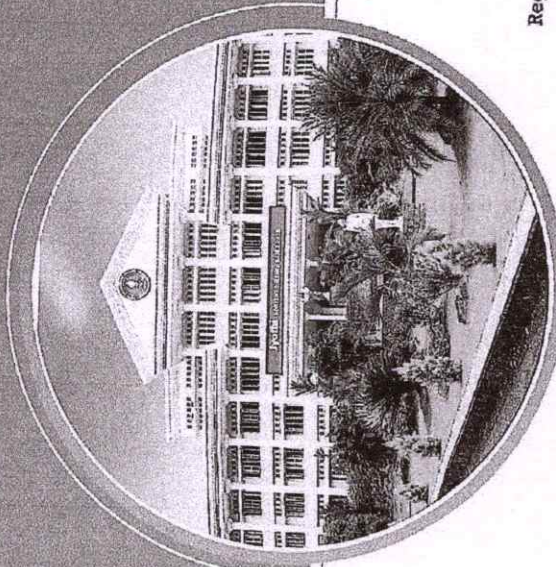
Faculty Members from

Colleges affiliated to

APJ Abdul Kalam Technological University

are eligible to attend the programme

Participation certificate will be awarded on successful completion



Registration

No Registration fee

SCAN ME



Registration Link

<https://tinyurl.com/jecdcp>

Last date for Registration: 12.08.2022

Notification of selection: 16.08.2022

About the programme

The broad objective of this Faculty Development Program is to introduce the Trends and Opportunities in Machine Learning & Artificial Intelligence and to impart expertise in one of the most fascinating and fastest growing areas of Computer Science. AI approaches are widely employed in a variety of applications, including Biometrics, Medical Imaging Processing, Natural Language Processing, and in industry, defence, healthcare, agriculture and many other areas. This course will cover the fundamentals of AI and how they apply to various research applications. It would assist in improving the skills and capabilities of faculty members at various engineering universities in India, as well as creating an environment conducive to research and academic success. The goal of the course work is to teach theoretical foundations of artificial intelligence and to provide hands-on training based on the latest AI tools to the audience.





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KTU Sponsored Five Day Faculty Development Programme on

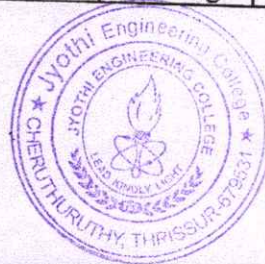


MACHINE LEARNING: A Trajectory through The World of Adaptive Algorithms





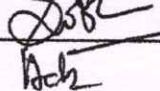
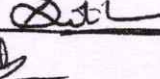


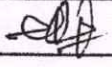

August 22nd - August 26th, 2022

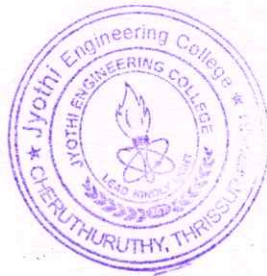
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#	Time Slot	Topic	Session Type	Duration (Hrs)	Date	Resource Persons
Day 1	FN	Trends and Opportunities in Machine Learning & Artificial Intelligence	Hands-on	6	22-Aug	Mr. Abhimanyu K.S. & Ms. Maya Mohan
		Python for Machine Learning				
	AN	Tools, Platform and Framework for ML/AI				
		Introduction to Machine Learning Life Cycle				
Day 2	FN	Introduction to Preprocessing	Hands-on	6	23-Aug	Mr. Abhimanyu K.S. & Ms. Maya Mohan
		Case Study on Preprocessing				
	AN	Introduction to Supervised Learning Techniques				
		Case Study on Regression				
Day 3	FN	Introduction to Classification	Hands-on	6	24-Aug	Mr. Ummer Shaik & Mr. John J. Padamadan
		Case Study on Classification				
	AN	Introduction to Unsupervised Learning Techniques				
		Introduction to Clustering				
Day 4	FN	Case Study on Clustering	Hands-on	2	25-Aug	Dr. Sreekanth D
		Introduction to Computer Vision		2		
	AN	Case Study on CV	Hands-on	2		Mr. Unnikrishnan P
		Introduction to Graph Neural Networks		2		
		Introduction to Natural Language Processing		2		
		Case Study on NLP		2		
Day 5	FN	Introduction to Dimensionality Reduction	Hands-on	6	26-Aug	Mr. Ummer Shaik & Mr. John J. Padamadan
		Case Study on Dimensionality Reduction				
	AN	Introduction to Artificial Intelligence				
		Artificial Neural Network & Case Study				



Jose P
Dr. Jose P. Thirattil
Principal
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Chervuruthy - 679531

Sl No	Salutation	Name	Institution Name	SIGNATURE (FRIDAY)		26.08.22
				FN	AN	
26	Ms.	VINCY VERGHESE	JECC			
27	Ms.	SAJITHA I	Jyothi Engg. College			
28	Ms.	SOBHA XAVIER	JECC			
29	Ms.	ASWATHY WILSON	JECC			
30	Mr.	BINEESH M	Jyothi Engg			





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KTU Sponsored Five Day Faculty Development Programme on MACHINE LEARNING: A Trajectory through The World of Adaptive Algorithms August 22nd - August 26th, 2022

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Sl No	Salutation	Name	Institution Name	SIGNATURE 26.08.22 (FRIDAY)	
				FN	AN
1	Mr.	SHINE P XAVIER	VAST Thalakkattur		
2	Ms.	LINTA A T	MCET Desamangalam		
3	Ms.	RAMYA RAJ K P	MCET, Desamangalam		
4	Ms.	RESHMA V M	Malabar Engineering College		
5	Ms.	SINDHU S	Thejus Engg College		
6	Ms.	NOUFALA T S	Universal Engg College		
7	Ms.	SAMEEMA I	Malabar Engg. College		
8	Dr.	KRISHNADAS J	SCET, Kodakara		
9	Mr.	SAVYAN P V	CEEC, PKD		
10	Dr.	VALANTO ALAPPATT	Thejus Engg College		
11	Dr.	SUDHEER S MARAR	Nahrain College, Pattalam		
12	Mr.	PRAMOD K	"		
13	Ms.	ASHISH L	"		
14	Ms.	ANUGRAHA KR	ICCS, muplium		
15	Ms.	JYOTHI P JOY	TEC,		
16	Ms.	DIVYA JOSE	ICCS, Muplium		
17	Ms.	SUPRIYA JOSE	Mek's School of Engng		
18	Mr.	ANURANJ P	FRSAT		
19	Mr.	TOM JACOB	AICTE		
20	Ms.	SREETHA E S	SCET, Kodakara		
21	Dr.	MUBARAK T	Cheraman		
22	Ms.	SAJITHA M	CEEC PKD		
23	Mr.	BALAKRISHNAN	TECC		
24	Ms.	SHINY M I	TECC		
25	Ms.	NEETHU ROSE THOMAS	TECC		



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Report of KTU Sponsored Faculty Development Programme

on

MACHINE LEARNING: A Trajectory through The World of Adaptive Algorithms (August 22nd -August 26th , 2022)

"MACHINE LEARNING: A Trajectory through The World of Adaptive Algorithms", the KTU sponsored Five day Faculty Development Programme was organized by Department of Computer Science and Engineering in Association with ICT Academy Kerala. The objective of FDP was to take the participants through the world of adaptive algorithms and impart the theoretical understanding and practical know-how requisite to pursue the area further. Also to introduce the state of art programming technologies and specifically tailored features for data analytics and learning.

ICT Academy of Kerala is a Social Enterprise created in a Public Private Partnership model (PPP) for imparting ICT skills to the youths of Kerala and improving their employability opportunities in the Industry. The Company is supported by Govt. of India, partnered by Govt. of Kerala and the IT industry.

The five day sessions started with an inauguration function at the decennial hall at 10.00 am. HoD, Dr. Saju P John delivered the welcome address. The programme was inaugurated by Fr. Thomas Kakasseri, Executive Manager of Jyothi Engineering College. Principal, Dr. Jose P Therattil and Academic director, Rev. Dr. Jose Kannampuzha also addressed the gathering and exhorted the participants to gain knowledge and to transfer them to the student community. The speakers also asked the participants to take the maximum benefits out of this programme. Ms. Priya Susan Varghese, Project Coordinator, ICT academy also briefed about the ICT Academy of Kerala and its activities.



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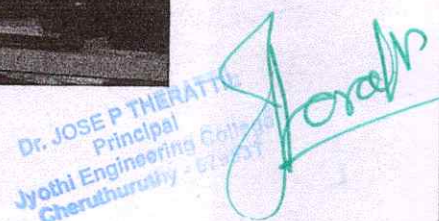
FDP started with an explanation to the steps in machine learning life cycle. This includes data collection, data preparation, data pre-processing, data analysis, training and testing model, finally with deployment. Also, the session introduces different types of learning namely supervised, unsupervised and reinforcement learning. The widely used language for machine learning are Python, Julia and Go. The major libraries used throughout the fdp was pandas, numpy, matplotlib and seaborn. Every day, the theory as well as hands-on were practiced on different topics.

The second day of FDP dealt with handling missing value in a data frame using measures of central tendency concept. This includes dropping missing values, various statistical approaches like mean, median and mode. Also, the session handles (hands-on)



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Dr. JOSE P. THOMAS

Handwritten signature of Dr. Jose P. Thomas.





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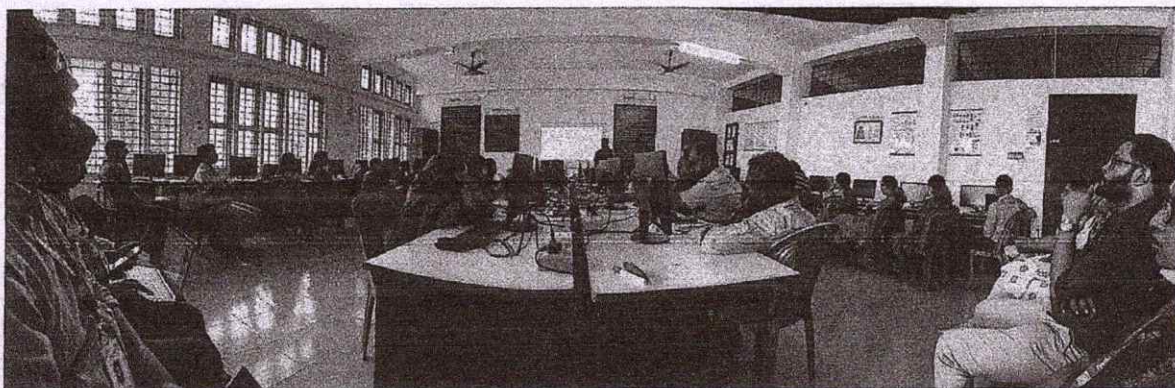
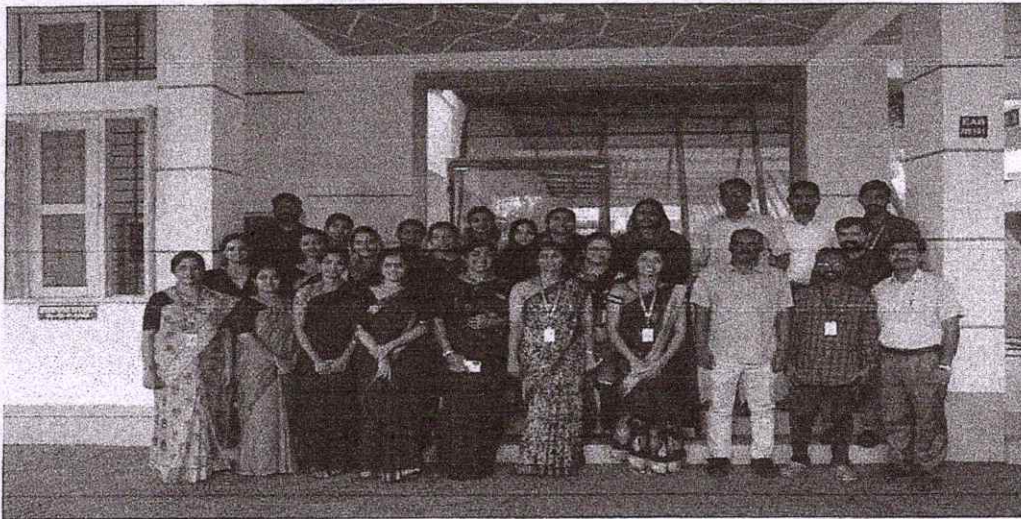
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various encoding schemes like One-hot encoding and Label encoding to change categorical data to numerical values. The third day introduces various real-world applications of ML which includes e-Commerce, Chatbots, Fraud detection and many more. Various metrics including accuracy, precision, f1 score, recall, r2 score etc were discussed as part of evaluating the model. Various classification models like random forest, decision tree and regression models like logistic regression, decision tree regression were discussed and the hands-on were practiced. The fourth and fifth day of FDP dealt with clustering algorithms, deep learning concepts (with the help of mnist dataset), building a new deep learning model, Graphical neural network and many more.



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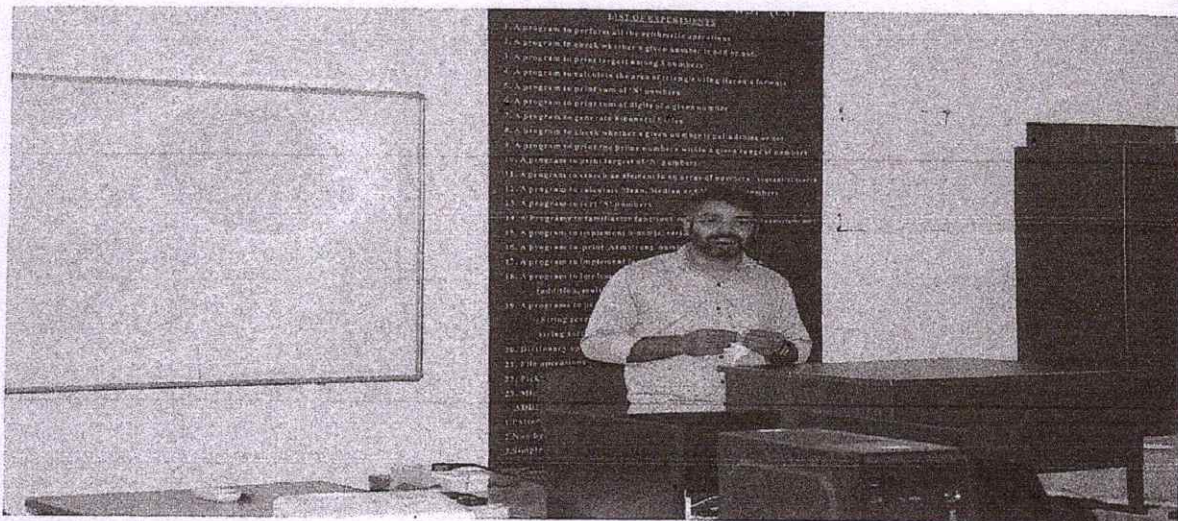
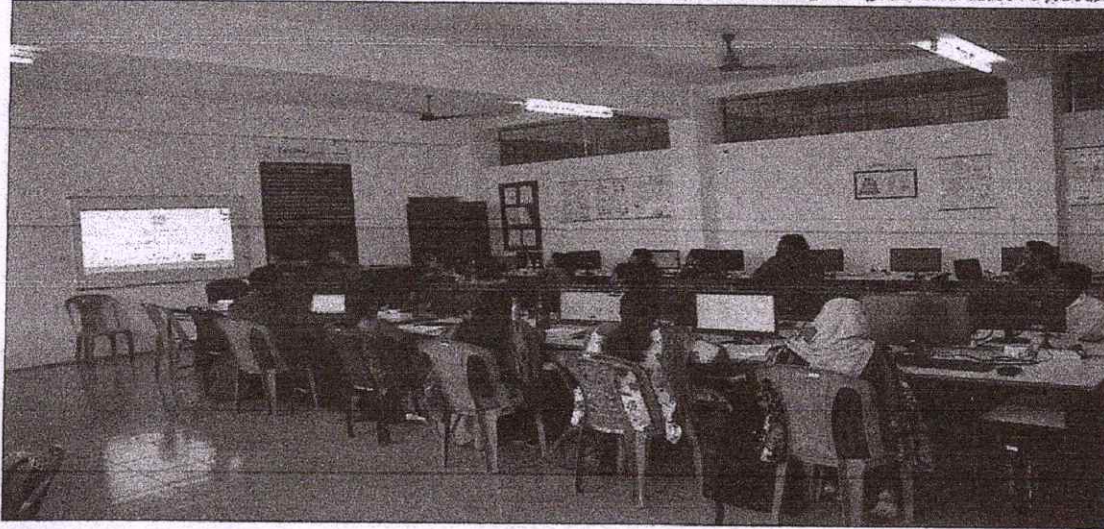
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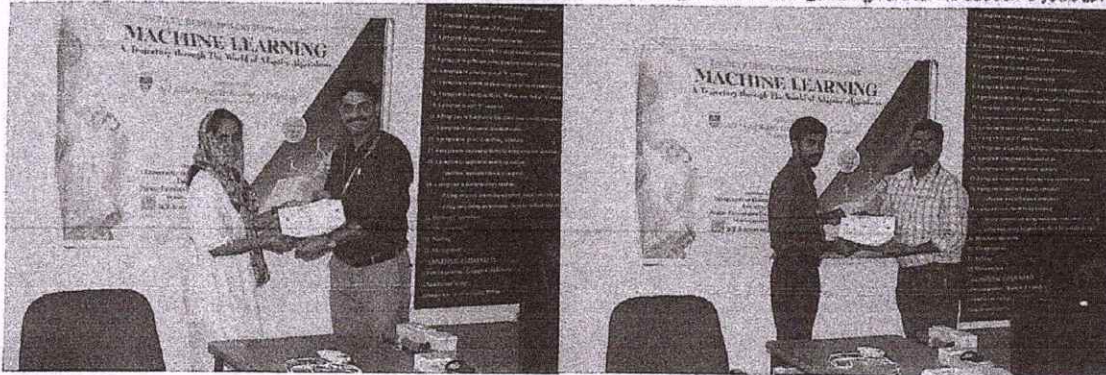
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Total of 30 participants (22 external participants and 8 inhouse participants) attended the FDP. External participants included faculty from various Government Engineering Colleges across Kerala also. FDP was concluded with the valedictory function. Dr. Saju P John, HOD CSE addressed the participants and the participants also provided their feedback about the programme. The programme came to an end after the certificate distribution to all the participants on August 26th, 4.00pm.

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Attendance Sheets



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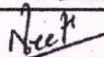
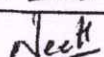


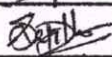

KTU Sponsored Five Day Faculty Development Programme on MACHINE LEARNING: A Trajectory through The World of Adaptive Algorithms August 22nd - August 26th, 2022

Organized by Department of Computer Science and Engineering in Association with ICT Academy Kerala


Sl No	Salutation	Name	Institution Name	SIGNATURE		22.08.22
				(MONDAY)		
				FN	AN	
1	Mr.	SHINE P XAVIER	Vidya Academy of Science and Tech			
2	Ms.	LINTA A T	Madhavan College of Engineering & Technology			
3	Ms.	RAMYA RAJ K P	Malabar College of Engineering and Technology			
4	Ms.	RESHMA V M	Malabar College of Engineering and Technology			
5	Mr.	BINEESH M	Jyothi Engg. College Cheruthuruthy			
6	Ms.	SINDHU S	Thyus Engg College			
7	Ms.	NOUFALA T S	Universal Engg. College.			
8	Ms.	SAMEEMA I	Malabar College of Eng			
9	Dr.	KRISHNADAS J	Sahrdaya College of Engg & Tech			
10	Ms.	ASWATHY WILSON	Jyothi Engg. College, Cheruthuruthy			
11	Ms.	SOPHA XAVIER	Jyothi Engg. College, Cheruthuruthy			
12	Mr.	SAVYAN P V	GEC, PKD			
13	Dr.	VALANTO ALAPPATT	Thyus Engg College			
14	DR.	SUDHEER S MARAR	Nikhil College			
15	MR	PRAMOD K	Nikhil College			
16	MR	ASHISH L	Nikhil College			
17	MS.	ANUGRAHA KR	ICCS college of Engineering management			
18	Ms.	JYOTHI P JOY	Thyus Engineering College, Velluramkudi			
19	Ms.	DIVYA JOSE	ICCS COLLEGE OF ENGINEERING			
20	MS.	SUPRIYA JOSE	Mel's School of Engineering			
21	Mr.	ANURANJ P	FISAT			
22	Mr.	TOM JACOB	ATCE, Kanjampally			
23	Ms	SREETHA E S	Sahrdaya College of Eng			
24	Dr.	DR. MOHAMED MUBARAK T	CE Permen			
25	Ms	SAJITHA M	GEC PKD			
26	MR.	AKHIL A. BALAKRISHNAN	JYOTHI ENGINEERING COLLEGE CHERUTHURUTHY			



Dr. J. Joy Principal
Jyothi Engineering College
Cheruthuruthy, Thrissur - 679531

Sl No	Salutation	Name	Institution Name	SIGNATURE 22.08.22 (MONDAY)	
				FN	AN
27	Ms.	SHINY M I	JECC		
28	Ms.	NEETHU ROSE THOMAS	JECC		
29	Ms.	VINCY VERGHESE	JECC		
30	Ms.	SAJITHA I	Jyothi Engg. College		




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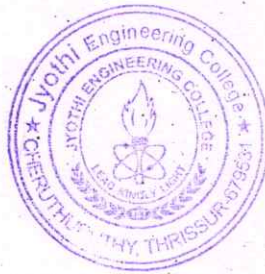


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Sl No	Salutation	Name	Institution Name	SIGNATURE 23.08.22 (TUESDAY)	
				FN	AN
1	Mr.	SHINE P XAVIER	Vidya Academy of Science & Technology		
2	Ms.	LINTA A T	MCET		
3	Ms.	RAMYA RAJ K P	MCET		
4	Ms.	RESHMA V M	Malabar Engineering College		
5	Ms.	SINDHU S	Thyges Engg College		
6	Ms.	NOUFALA T S	Universal Engg College		
7	Ms.	SAMEEMA I	Malabar College		
8	Dr.	KRISHNADAS J	SCET, Kodakara		
9	Mr.	BINEESH. M	Jyothi Engg. College Cheruthuruthy		
10	Ms.	ASWATHY WILSON	Jyothi Engg. College Cheruthuruthy		
11	Mr.	SAVYAN P V	GEC, PKD		
12	Dr.	VALANTO ALAPPATT	Thyges Engg college.		
13	Dr.	SUDHEER S MARAR	Nehru College, Pampady		
14	Mr.	PRAMOD K	"		
15	Mr.	ASHISH L	"		
16	Ms.	ANUGRAHA KR	ICCS, muplium		
17	Ms.	JYOTHI P JOY	Thyges Engineering clg		
18	Ms.	DIVYA JOSE	ICCS, Muplium		
19	Ms.	SUPRIYA JOSE	Met's School of Engg.		
20	Mr.	ANURANJ P	FISAT		
21	Mr.	TOM JACOB	ASCE		
22	Ms.	SREETHA E S	SCET, Kodakara		
23	Dr.	DR. MOHAMED MUBARAK T	CE peramman		
24	Ms.	SAJITHA M	GEC, PKD		
25	Mr.	AKHIL A. BALAKRISHNAN	JECC		
26	Ms.	SHINY M I	JECC		

Sl No	Salutation	Name	Institution Name	SIGNATURE (TUESDAY)		23.08.22
				FN	AN	
27		NEETHU ROSE THOMAS	Jyothi Engg. College	Neel		
28		VINCY VERGHESE	JECC	VV	VV	
29		SAJITHA I	Jyothi Engg. College	Sajitha	Sajitha	
30		SOBHA XAVIER	Jyothi Engg. college	Sobha	Sobha	



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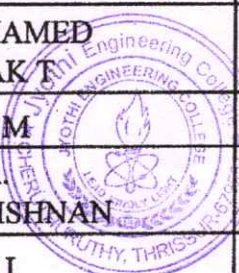
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Sl No	Salutation	Name	Institution Name	SIGNATURE 24.08.22 (WEDNESDAY)	
				FN	AN
1	Mr.	SHINE P XAVIER	Vidya Academy of Science and Technology		
2	Ms.	LINTA A T	Malabar College of Eng.		
3	Ms.	RAMYA RAJ K P	MCET, Desamangalam		
4	Ms.	RESHMA V M	Malabar college		
5	Ms.	SINDHU S	Thyus Engg College		
6	Ms.	NOUFALA T S	Universal Engg college		
7	Ms.	SAMEEMA I	Malabar College		
8	Dr.	KRISHNADAS J	SCEI, Kodakara		
9	Mr.	BINEESH M	JECC		
10	Ms.	ASWATHY WILSON	JECC		
11	Mr.	SAVYAN P V	GIEC, PKD		
12	Dr.	VALANTO ALAPPATT	Thyus Engg college		
13	Dr.	SUDHEER S MARAR	adham college		
14	Mr.	PRAMOD K	"		
15	Mr.	ASHISH L	"		
16	Ms.	ANUGRAHA KR	ICCS, Mupliam		
17	Ms.	JYOTHI P JOY	TEC, Velluralland		
18	Ms.	DIVYA JOSE	ICCS, Mupliam		
19	Ms.	SUPRIYA JOSE	Met's School of Engineering		
20	Mr.	ANURANJ P	FISAT		
21	Mr.	TOM JACOB	ATCE		
22	Ms.	SREETHA E S	SCET, Kodalare		
23	Dr.	DR. MOHAMED MUBARAK T	CE, Perman		
24	Ms.	SAJITHA M	GIEC PKD		
25	Mr.	AKHIL A BALAKRISHNAN	JECC		
26	Ms.	SHINY M I	JECC		



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August 22nd - August 26th, 2022**

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Sl No	Salutation	Name	Institution Name	SIGNATURE 25.08.22 (THURSDAY)	
				FN	AN
1	Mr.	SHINE P XAVIER	VAST Thalekottla		
2	Ms.	LINTA A T	Malabar College of Engin		
3	Ms.	RAMYA RAJ K P	MCET, Desamangalam		
4	Ms.	RESHMA V M	Malabar Engineering College		
5	Ms.	SINDHU S	Thyris Engg College		
6	Ms.	NOUFALA T S	Universal Engg College		
7	Ms.	SAMEEMA I	Malabar College		
8	Dr.	KRISHNADAS J	SCEI, Kodakara		
9	Mr.	SAVYAN P V	GEC, S & P, PKD		
10	Dr.	VALANTO ALAPPATT	Thyris Engg College		
11	Dr.	SUDHEER S MARAR	Nehru College Pampady		
12	Mr.	PRAMOD K	"		
13	Mr.	ASHISH L	"		
14	Ms.	ANUGRAHA KR	ICCS, muplium		
15	Ms.	JYOTHI P JOY	TEC		
16	Ms.	DIVYA JOSE	ICCS, Muplium		
17	Ms.	SUPRIYA JOSE	Mets, Mala		
18	AN	ANURANJ P	FISAT		
19	Mr.	TOM JACOB	AJCE		
20	Ms.	SREETHA E S	SCET, Kodakara		
21	Dr.	Dr. MOHAMED MUBARAK T	CE Pampady		
22	Ms.	SAJITHA M	GEC PKD		
23	Mr.	AKHIL A. BALAKRISHNAN	JECC		
24	Ms.	SHINY M I	JECC		
25	Ms.	NEETHU ROSE THOMAS	JECC		



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Cheruthuruthy, Trissur - 679531

Sl No	Salutation	Name	Institution Name	SIGNATURE 24.08.22 (WEDNESDAY)	
				FN	AN
27		NEETHU ROSE THOMAS	TECC	<i>Neel</i>	<i>Neel</i>
28		VINCY VERGHESE	TECC	<i>V</i>	<i>V</i>
29		SAJITHA I	Jyothi Engg. College	<i>Sajitha</i>	<i>Sajitha</i>
30		SOBHA XAVIER	Jyothi Engg. college	<i>Sobha</i>	<i>Sobha</i>



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Sl No	Salutation	Name	Institution Name	SIGNATURE 25.08.22 (THURSDAY)	
				FN	AN
26	Ms.	VINCY VERGHESE	JECC	V	V
27	Ms.	SAJITHA I	Jyothi Engg. College	Sajitha	Sajitha
28	Ms.	SOBHA XAVIER	Jyothi Engg. College	Sobha	Sobha
29	Ms.	ASWATHY WILSON	Jyothi Engg. College	Aswathy	Aswathy
30	Ms.	BINEESH M	JECC	Bineesh	Bineesh



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From 23-01-2023 to 25-01-2023 & 27-01-2023 to 28-01-2023

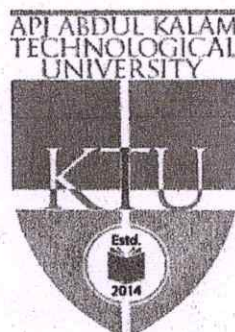
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Complete Faculty Development Programme (FDP) Event

Report

Submitted to

APJ Abdul Kalam Technological University



FDP Coordinator

DR. JARIN T, ASSOCIATE PROFESSOR, JYOTHI ENGINEERING COLLEGE

Organized by

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



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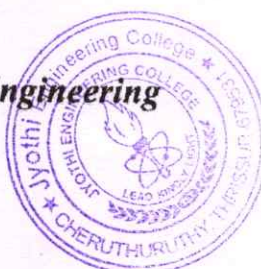
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Summary of FDP

Name of FDP	RESEARCH PUBLICATION AND ETHICS INTENDED FOR RESEARCH SCHOLARS IN COLLABORATION WITH IEEE
Date	23-01-2023 To 25-01-2023 And 27-01-2023 To 28-01-2023
Duration	5 Days
Organized by	Department Of Electrical and Electronics Engineering
Name of the college	Jyothi Engineering College, Cheruthuruthy, Thrissur
Coordinator	Dr. Jarin T, Associate Professor, Jyothi Engineering College
Mode of Conduction	Offline
No of External Resource Person	5
No of Internal Resource Person	3
No of Participants	30
Total Expenditure	1,71,090 (One Lakh Seventy-One Thousand and Thirty Rupees Only)

Organized By:

Department Of Electrical and Electronics Engineering



Jose P Therattil

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Principal
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REGISTRATION

Registration Fee Free

Click on the link or scan the QR code for registration



<https://tinyurl.com/ldpbeersearch>

How to reach



<https://tinyurl.com/jecmap>

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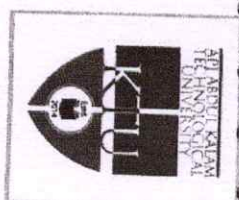
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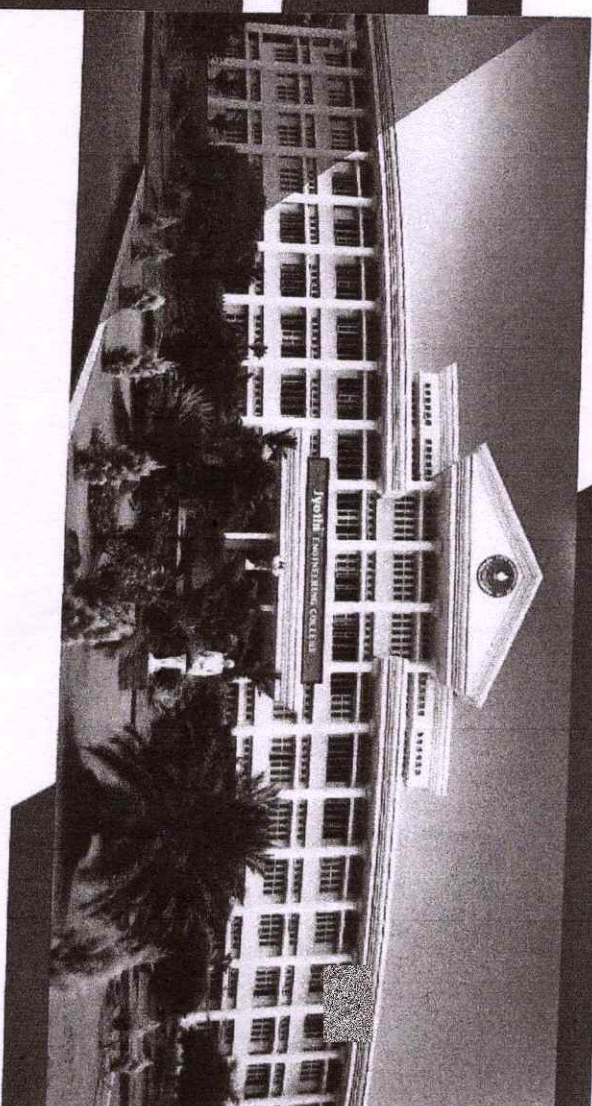
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2022-2023



Research Publication and Ethics
intended for Research Scholars

in collaboration with IEEE

23.01.2023 to 28.01.2023

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

RESEARCH PUBLICATION AND ETHICS INTENDED FOR RESEARCH SCHOLARS IN COLLABORATION WITH IEEE

23RD JANUARY TO 28TH JANUARY 2023

SCHEDULE OF SESSIONS

Date: 23-01-2023 (Monday)

Time	Topic / Session
09:30AM To 12:30PM	<u>Why Publication?, Types of publication, Basic structure of an Article</u> Dr. B. Chitti Babu, Editor-in-Chief, International Journal of Ambient Energy, Taylor & Francis, Associate Editor, IET Renewable Power Generation
12:30PM To 01:30PM	Break
01:30PM To 04:30PM	<u>Writing effective research articles</u> Dr. B. Chitti Babu, Editor-in-Chief, International Journal of Ambient Energy, Taylor & Francis, Associate Editor, IET Renewable Power Generation

Date: 24-01-2023 (Tuesday)

Time	Topic / Session
09:30AM To 12:30PM	<u>Philosophy and ethics in Research (Module 1)</u> Dr. Mubarak M., HoD - ME, MEA Engineering College
12:30PM To 01:30PM	Break
01:30PM To 04:30PM	<u>Publication Misconduct (Module 5)</u> Dr. Mubarak M., HoD - ME, MEA Engineering College



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Date: 25-01-2023 (Wednesday)

Time	Topic / Session
09:30AM To 12:30PM	<u>Open Access Publishing (Module 4)</u> Dr. Renjith V. Ravi, Assoc. Prof.-ECE, MEA Engineering College
12:30PM To 01:30PM	Break
01:30PM To 04:30PM	<u>Data bases and research Matrics (Module 6)</u> Dr. Jarin T., Associate Professor - EEE, JECC

Date: 27-01-2023 (Friday)

Time	Topic / Session
09:30AM To 12:30PM	<u>Scientific Conduct (Module 2)</u> Dr. Biju C. V., Professor & HoD - ME, JECC
12:30PM To 01:30PM	Break
01:30PM To 04:30PM	<u>Publication Ethics (Module 3)</u> Dr. Biju K., HoD-EEE College of Engineering, Munnar, IEEE Kerala Section Secretary -2023

Date: 28-01-2023 (Saturday)

Time	Topic / Session
09:30AM To 12:30PM	<u>Research Methodology Simplified</u> Dr. Shijoh V., Professor & Dean (PG Studies), JECC, Thrissur
12:30PM To 01:30PM	Break
01:30PM To 04:30PM	<u>On Teaching, Learning, Researching and Publishing</u> Dr. Rajesh M. V., Assoc. Prof. Dept. of ECE, College of Engineering, Chengannur. IEEE Kochi Subsection Chair & IETE Vice Chair



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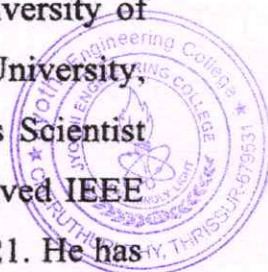
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RESOURCE PERSON PROFILE: Dr. B.Chitti Babu

Dr. B. Chitti Babu received Ph.D degree in Electrical Engineering from National Institute of Technology Rourkela, India in 2012. He was an Assistant Professor in the Department of Electrical Engineering, National Institute of Technology Rourkela, India from 2007 to 2013. He had Post-Doctoral research appointments with the Wroclaw University of Science and Technology, Poland, during 2013-2014, and with the Technical University of Ostrava, Czech Republic, during 2014-2015. He was a visiting researcher at the Polytechnic University of Milan, Italy during 2015 and Visiting Scientist at Yildiz Technical University, Turkey during 2019. He was a recipient of prestigious Young Systems Scientist Award 2019 sponsored by Systems Society of India. And also, he received IEEE MAS Best Researcher Award from IEEE Madras Section during Feb 2021. He has published over 60 papers in SCI-indexed journals including IEEE Transactions and IET Journals. He is a senior member of IEEE, IEEE Power & Energy Society, IEEE Industrial Application Society, IEEE Smart Grid Community.




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RESOURCE PERSON PROFILE: Dr Mubarak M

Dr Mubarak M currently working as Associate Professor and Head, Department of Mechanical Engineering, MEA Engineering College. He has Published 1 Book and many publications in International and National Journals and Conferences. He is also, an Editorial board member and Reviewer of many International and National Journals. His area of interest Internal Combustion Engines Production and utilization of biofuels from algae, Low heat rejection engines, Characterization of biofuels and Automotive pollution measurement and control.




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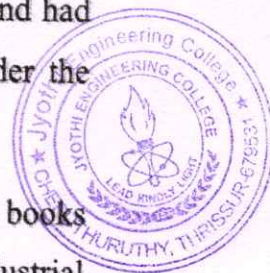
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RESOURCE PERSON PROFILE: Dr. Renjith V. Ravi

Dr Renjith V Ravi is presently employed as Associate Professor and Head of the Department of Electronics and Communication Engineering and Coordinator of the Post Graduate Programmes conducting at MEA Engineering College, Kerala, India. He possesses B.Tech. degree in Electronics and Communication Engineering in, M.E. degree in Embedded System Technology and Ph.D. in Electronics and Communication Engineering. He is a member of the panel of academic auditors of APJ Abdul Kalam Technological University, Kerala and had conducted external academic auditing in various affiliated institutions under the same University.

He has been published four edited books and currently editing three edited books from renowned international publishers. He got granted one patent, one industrial design and two copyrights. He has been served as the Program Committee member, Session Chair as well as reviewer of several National and International conferences conducted in India and abroad.



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Consolidated Statement of Registered Participants for FDP

Sl. No	Name	KTU ID	Department	Designation	College	Contact Number	E-Mail ID
1.	Dr. A Benham	KTU-F35110	Mechanical Engineering	Professor	IES College Of Engineering	9488390358	method@ieee.info
2.	Alex Jose	KTU-F25585	Electrical & Electronics Engineering	Assistant Professor	St. Alberts College Autonomous	9895395133	alexjose@alberts.edu.in
3.	Aneesh A	KTU-F13227	Mechanical Engineering	Assistant Professor	Malabar College Of Engineering And Technology	9645862838	chaneesh@ymail.com
4.	Arnoop V	KTU-F5394	Electronics & Communication Engineering	Assistant Professor	Jyothi Engineering College, Thiruvananthapuram	9895837646	vannoop@ieee.ac.in
5.	Dr. Arun M P	KTU-F40841	Mechanical Engineering	Professor	Holy Grace Academy Of Engineering	9946184306	mparun@ymail.com

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Sl. No	Name	KTU ID	Department	Designation	College	Contact Number	E-Mail ID
6.	Ashmita Moidu	KTU-F25506	Electronics & Communication Engineering	Assistant Professor	Ernad Knowledge City Technical Campus	6282307480	ashmitha@ekc.edu.in
7.	Dr. G R Gnana King	KTU-F30408	Electronics & Communication Engineering	Professor	Sahrdaya College Of Engineering And Technology	9488883786	kings.326@gmail.com
8.	Dr. Jarin T	KTU-F28528	Electrical & Electronics Engineering	Associate Professor	Jyothi Engineering College	9626623332	jarint@jecc.ac.in
9.	Jenson Jose	KTU-F13444	Electrical & Electronics Engineering	Assistant Professor	Jyothi Engineering College	9497359153	jensonjosep@jecc.ac.in
10.	Jisha Akkara	KTU-F10641	Civil Engineering	Assistant Professor	Jyothi Engineering College	9605089715	jishaakkara@jecc.ac.in

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Sl. No	Name	KTU ID	Department	Designation	College	Contact Number	E-Mail ID
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16.	Mohamed Mubarak T	KTU-F25724	Computer Science Engineering	Associate Professor	College Of Engineering Thalasseri	9946437845	mubarak.fma@gmail.com
17.	Navin Sam	KTU-F43388	Electrical & Electronics Engineering	Assistant Professor	Jyothi Engineering College	8778703990	dnavinsam@jecc.ac.in
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Five Day faculty development programme
On
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Organized by: Department of Electrical and Electronics Engineering
Sponsored by
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Event Report

Day 1 (23/01/2023)

Five Day faculty development programme on "Research Publication and Ethics intended for Research Scholars in Collaboration with IEEE" Organized by the Department of Electrical and Electronics Engineering and Sponsored by APJ Abdul Kalam Technological University started on 23/01/2023. The FDP was conducted in offline mode.

The inaugural function started at 9.00 am with a silent prayer.

The welcome address was given by Mr. Jenson Jose, HoD-EEE, JEC. He welcomed all the respected guests and the faculty attending the FDP. Rev. Dr. Jose Kannampuzha, Director of Academics, JECC gave the presidential address. He specially mentioned the importance of research.

The principal of JECC, Dr. Jose P. Therattil addressed the meeting with great words. He shared his experience during his research times.

Dr. B. Chitti Babu, Editor in Chief, of the International Journal of Ambient Energy, Taylor & Francis, Associate Editor, of IET Renewable Power Generation, inaugurated the FDP. He expressed his happiness for inviting him to the meeting.

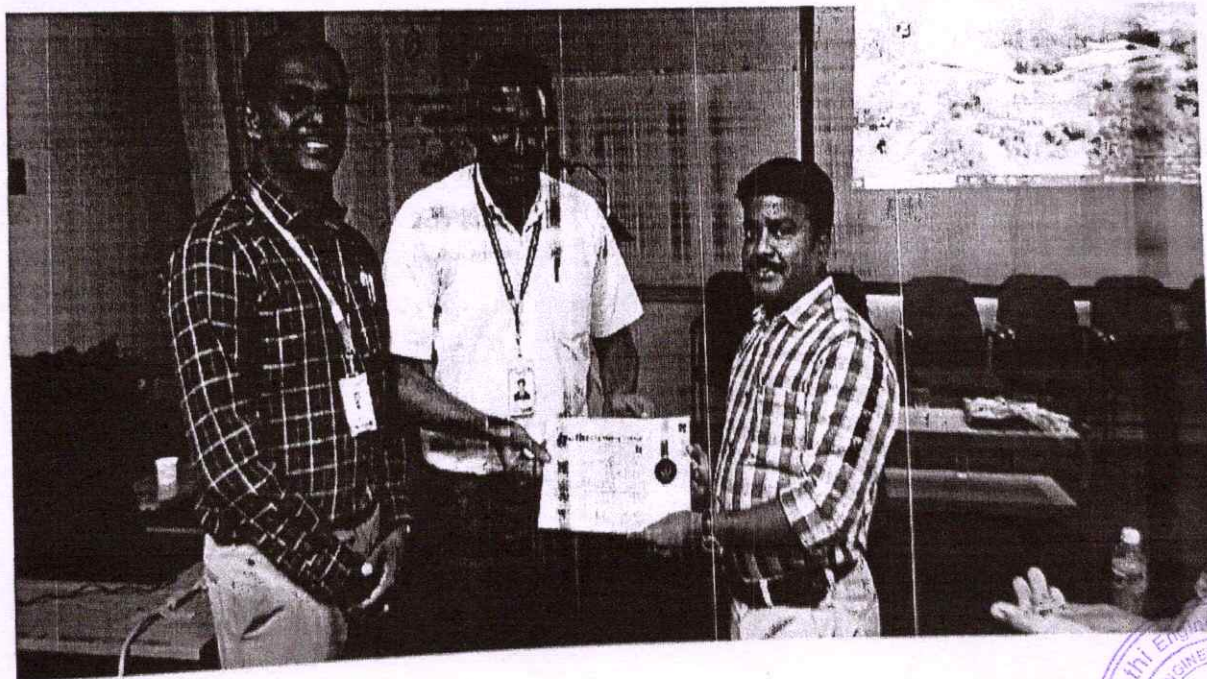
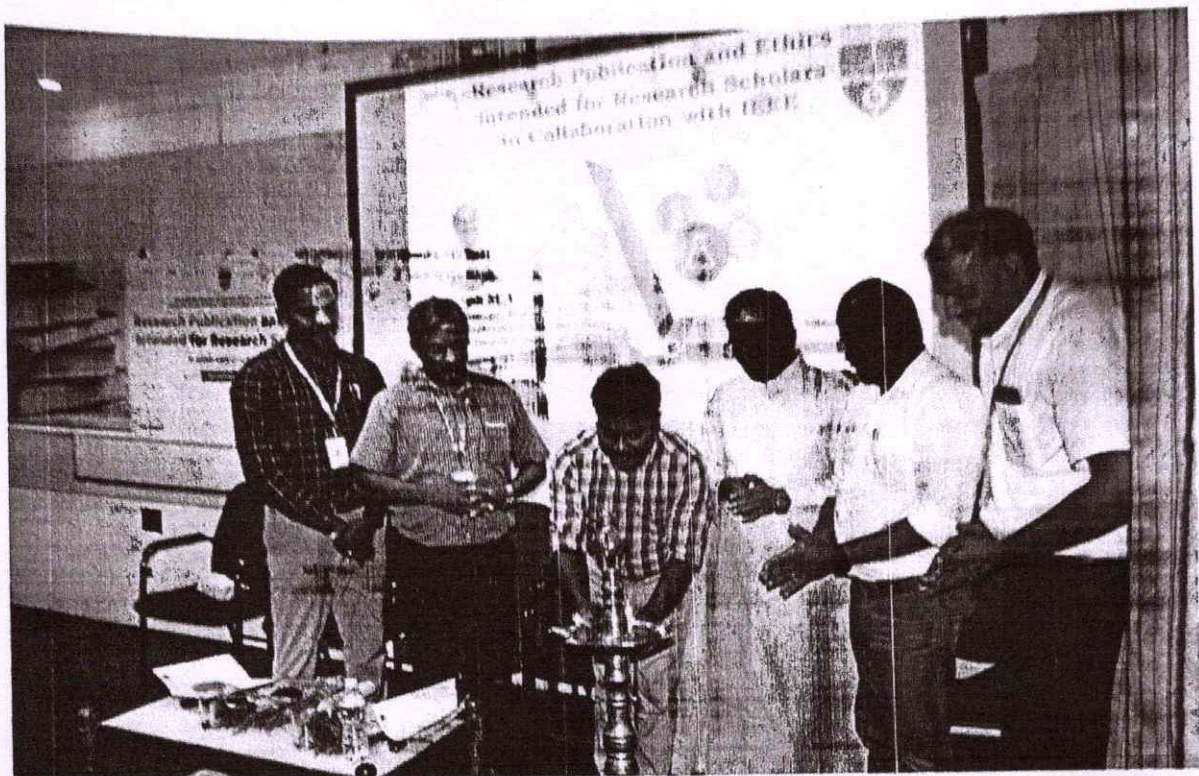
A vote of thanks was given by Dr. Jarin T. coordinator of FDP.

After the inaugural function the morning session started at 9.30 am, Dr. Chitti Babu delivered a very informative session on the need for publication and how to structure and publish an article in the morning session. The morning session was completed at 12.30 pm.

In the afternoon session, he delivered a session on how to review articles. He shared his experience as an editor. The session started at 1.30 pm and was completed at 4.30 pm.



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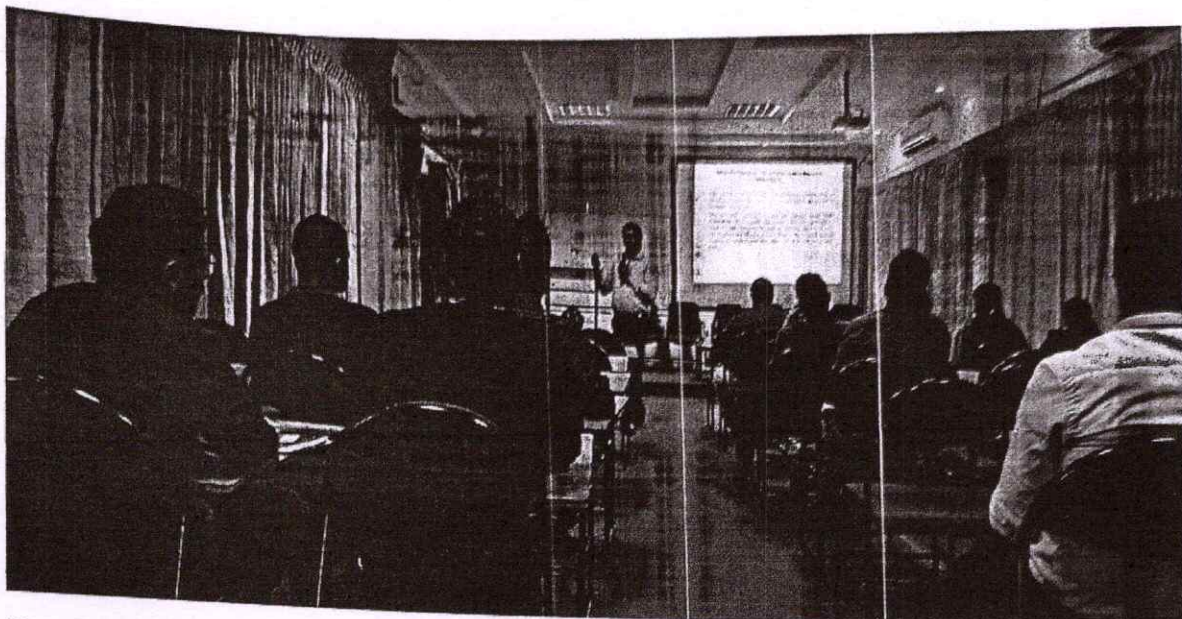
Day 2 (24/01/2023)

On the second day, the session started at 9.30 am. Dr. Mubarak, HoD-ME, MEA Engineering College delivered the session on the philosophy of research and the ethics to be followed in research in the morning session, and the session was completed at 12.30 pm.

The afternoon session started at 1.30 pm. In the afternoon session, he mentioned publication misconduct. The session was completed at 4.30 pm.

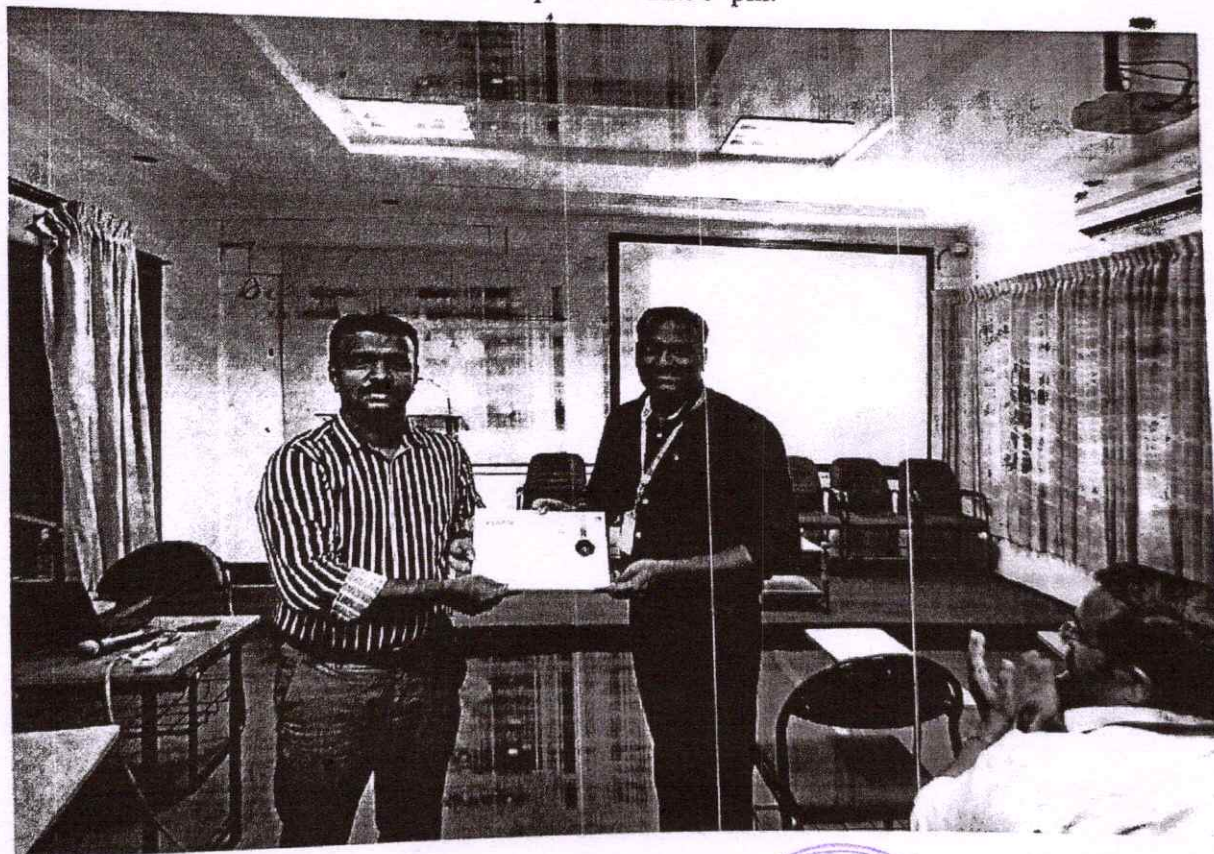


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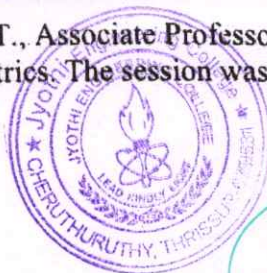
Day 3 (25/01/2023)

The morning session started at 9.30 am. The session was handled by Dr. Renjith V. Ravi, Associate Professor-ECE, MEA Engineering College. He delivered the session on open-access publishing. The session was completed at 12.30 pm.



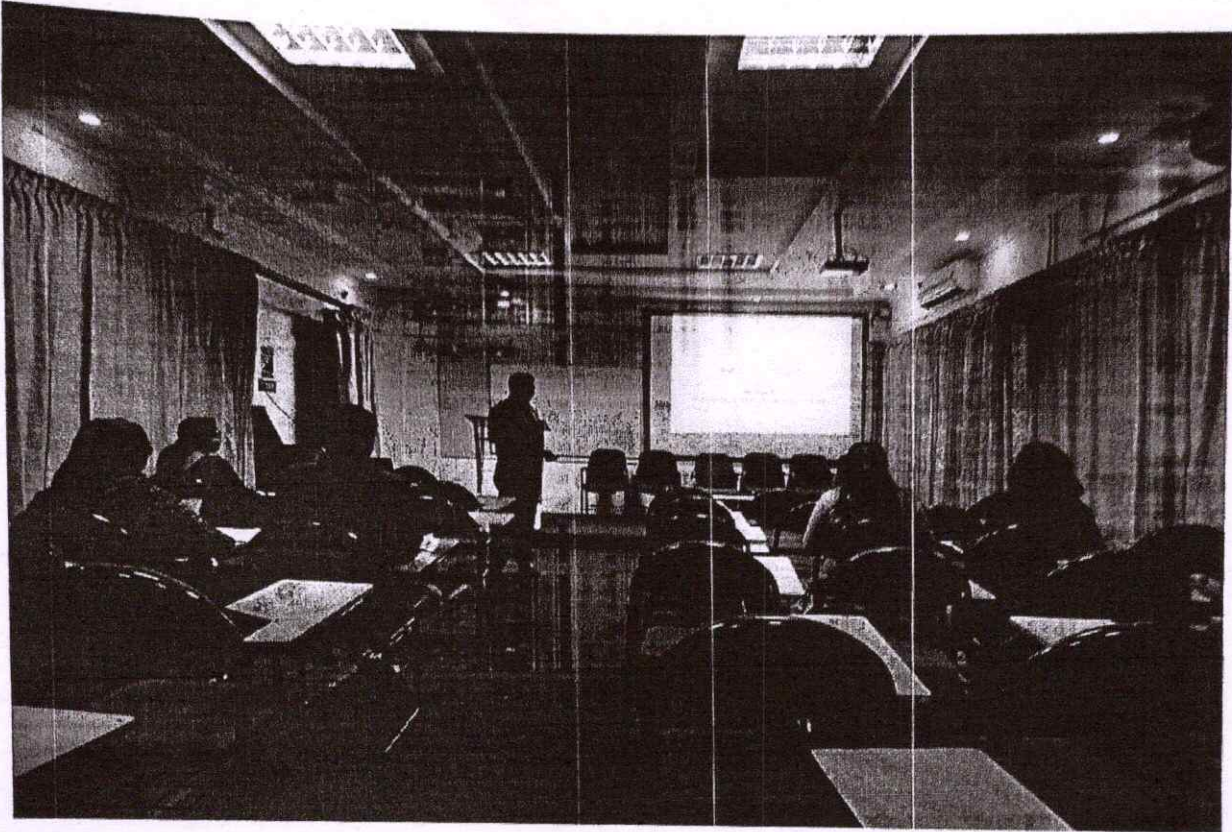
The afternoon session started at 1.30 pm. Dr. Jarin T., Associate Professor-EEE, JECC handled the session on Databases and Research Matrics. The session was completed at 4.30 pm.

Day 4 (27/01/2023)

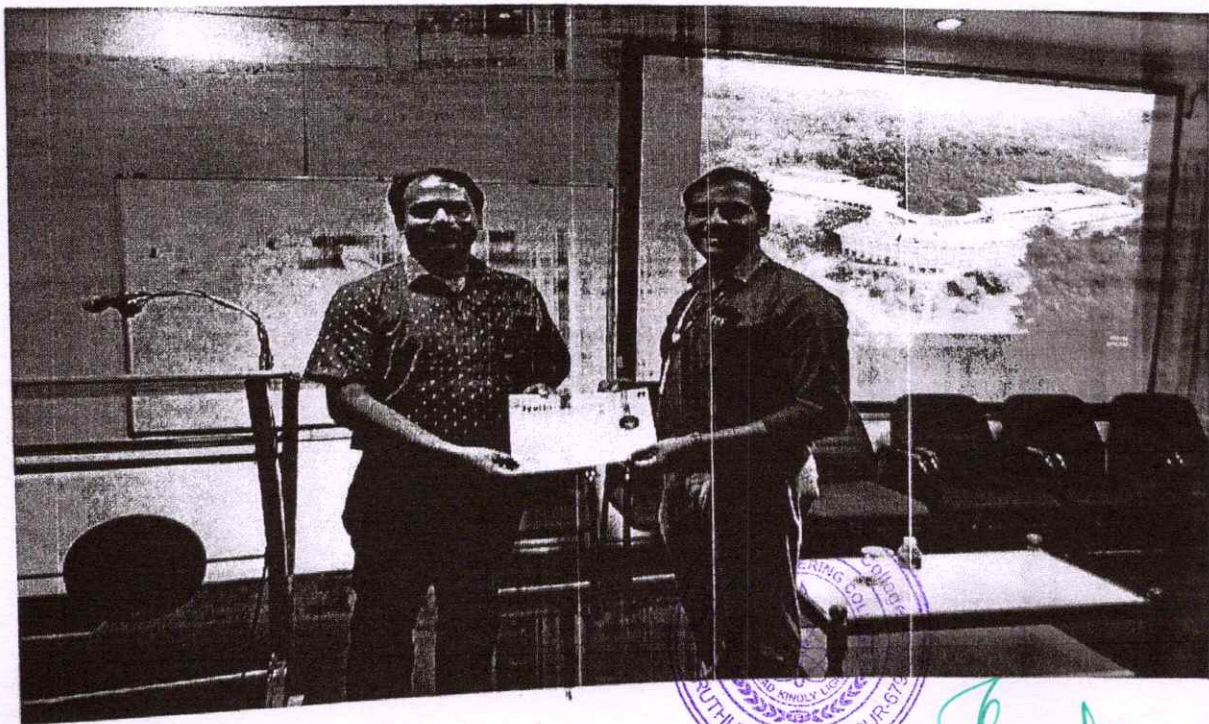


Joseph Tharakan
Principal
Jyothi Engineering College
Cheruthuruthy - 679531

The morning session started at 9.30 am. The session was handled by Dr. Biju C. V. Professor & HoD-ME, JECC on the topic of Scientific Conduct. The session was completed at 12.30 pm.



The afternoon session started at 1.30 pm. Dr. Biju K., HoD-EEE, College of Engineering, Munnar, took the session on the topic of Publication Ethics. The session was completed at 4.30 pm.

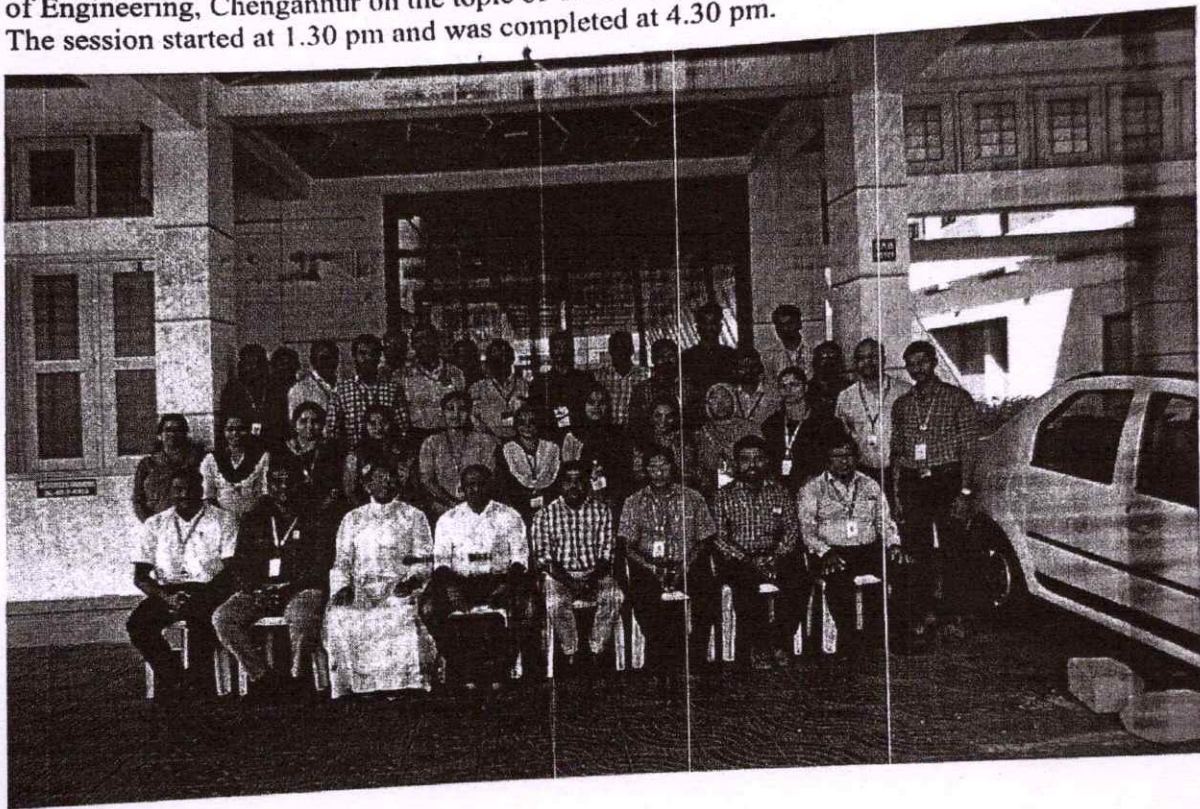


Day 5 (28/01/2023)

Joseph P. Thera
DR. JOSE P THERA
Principal
Jyothi Engineering College
Cheruthuruthy - 679551

The morning session started at 9.30 am. The session was handled by Dr. Shijoh V., Professor & Dean (PG Studies), JECC on the topic of Research Methodology Simplified. The session was completed at 12.30 pm.

The afternoon session was handled by Dr. Rajesh M. V., Associate Professor-ECE, College of Engineering, Chengannur on the topic of Teaching, Learning, Researching and Publishing. The session started at 1.30 pm and was completed at 4.30 pm.



Joseph



(8)

Dr. JOSE P THERATTIL
Principal
Jyothi Engineering College
Cheruthuruthy - 679531

Jyothi Engineering College

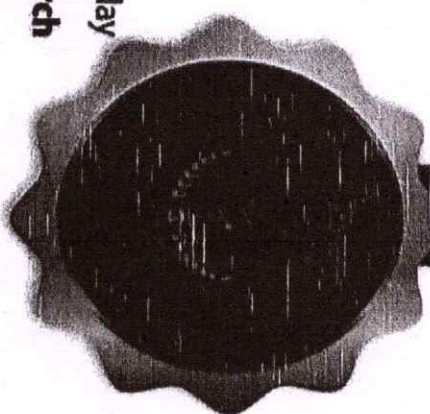
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Certificate of Participation

This is to certify that Mr. Jenson Jose has participated in the five-day
Faculty Development Programme on "Research Publication and Ethics intended for Research
Scholars in collaboration with IEEE" organized by Department of Electrical & Electronics Engineering,
Jyothi Engineering College, Cheruthuruthy, Thrissur and sponsored by APJ Abdul Kalam Technology
University from 23rd January to 28th January 2023.



Mr. Jenson Jose

HOD, EEE

Dr. Jose P. Therattil

Principal

Rev. Fr. Thomas Kakkassery

Executive Manager

Jyothi Engineering College
Thrikkur, Thiruvananthapuram
670561

Five Day Faculty Development Programme On
**"RECENT ADVANCEMENTS IN INTELLIGENT CONTROL
SYSTEMS (RAICS)"**

Sponsored by: APJ Abdul Kalam Technological University

Complete Faculty Development Programme (FDP) Event
Report

Submitted to

APJ Abdul Kalam Technological University



FDP Coordinator

DR. SHIJOH V., PROFESSOR, JYOTHI ENGINEERING COLLEGE

Organized By

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS
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Dr. Jyothi Cherattil
Principal
Jyothi Engineering College
Cheruthuruthy - 679531

The FDP is open to the faculty members of all the KTU affiliated institutions.

REGISTRATION

No registration fee is charged for the programme, since the FDP is fully sponsored by APJ Abdul Kalam Technological University. For online registration please scan:



<https://tiny.cc/ldpeerrajcs>

IMPORTANT DATES

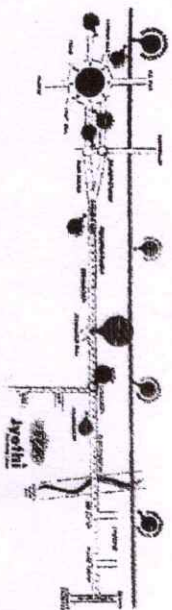
Online registration ends	20 th January, 2023
Intimation to selected participants	25 th January, 2023
FDP dates	30 th Jan - 3 rd Feb, 2023

HOW TO REACH JEC



<https://goo.gl/maps/Mv8X3CEszvzmVXp96>

ROUTE MAP



"Creating Technology Leaders of Tomorrow"

Certificates shall be issued to all the participants who have attended the program with minimum 80% attendance and submitted the feedback forms at the end of each sessions.

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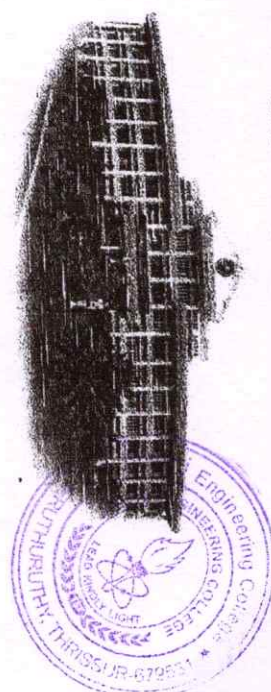
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Prof. Rathan P., Vice Principal & Dean (UG), JEC
Mr. Jenson Jose, Head of the Department - EEE, JEC
Dr. Vivek Lukose, KTU FDP Center Coordinator

COORDINATOR

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☎ 0 9496 347 695 ☎ akhilbalakrishnan@jec.ac.in



FACULTY DEVELOPMENT PROGRAMME ON RECENT ADVANCEMENTS IN INTELLIGENT CONTROL SYSTEMS (RAICS)

30th January - 3rd February
2023

Organized by
DEPARTMENT OF
ELECTRICAL AND ELECTRONICS
ENGINEERING

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Dr. JOSE P THERATTIL,
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

RECENT ADVANCEMENTS IN INTELLIGENT CONTROL SYSTEMS (RAICS)

30TH JANUARY TO 03RD FEBRUARY 2023

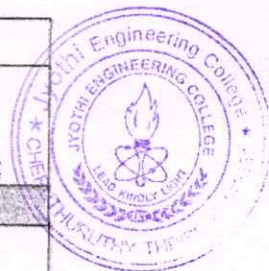
SCHEDULE OF SESSIONS

Date: 30-01-2023 (Monday)

Time	Session No. & Topic
08:30AM To 09:00AM	<u>Inauguration</u>
09:00AM To 11:00AM	<u>Session 1</u> Nonlinear Digital Control Systems Dr. Jeevamma Jacob, Professor, NIT Calicut
11:30AM To 11:40AM	Break
11:10AM To 12:10PM	<u>Session 2</u> Artificial Intelligence in Engineering Systems Dr. Shijoh V., Professor & Dean (PG Studies), JECC, Thrissur
12:10PM To 01:00PM	Break
01:00PM To 04:00PM	<u>Session 3</u> Control of Parallel Robots Dr. Ramesh Kumar P., Associate Professor, GEC Wayanad

Date: 31-01-2023 (Tuesday)

Time	Session No. & Topic
09:00AM To 11:00AM	<u>Session 4</u> Intelligent Predictive Control Dr. Shihabudheen K. V., Assistant Professor, NIT Calicut
11:00AM To 11:10AM	Break
11:10AM To 01:10PM	<u>Session 5</u> Soft Computing Techniques Mr. Jenson Jose., HoD - EEE, JECC, Thrissur
01:10PM To 02:00PM	Break
02:00PM To 04:00PM	<u>Session 6</u> Modeling and Control of Unmanned Aerial Vehicles Dr. Rakesh R. Warier, Assistant Professor, NIT Calicut





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Date: 01-02-2023 (Wednesday)

Time	Session No. & Topic
09:00AM To 11:00AM	Session 7 Learning Controllers Dr. Imthias Ahamed T. P., Professor, TKMCE
11:00AM To 11:10AM	Break
11:10AM To 01:10PM	Session 8 Learning Controllers Dr. Imthias Ahamed T. P., Professor, TKMCE
01:10PM To 02:00PM	Break
02:00PM To 04:00PM	Session 9 Recent Research Trends in Instrumentation and Control Dr. C. Karthik, Associate Professor, JECC, Thrissur

Date: 02-02-2023 (Thursday)

Time	Session No. & Topic
09:00AM To 11:00AM	Session 10 PLC based Automation & Ladder Programming SMEC Automation Pvt. Ltd., Cochin
11:00AM To 11:10AM	Break
11:10AM To 01:10PM	Session 11 PLC based Automation & Ladder Programming SMEC Automation Pvt. Ltd., Cochin
01:10PM To 02:00PM	Break
02:00PM To 04:00PM	Session 12 PLC based Automation - Hands on Session SMEC Automation Pvt. Ltd., Cochin

Date: 03-02-2023 (Friday)

Time	Session No. & Topic
09:00AM To 11:00AM	Session 13 Design of Bio-Inspired Robots using Shape Memory Alloys Dr. Sreekanth M., KabaniTech - Maker Space, Shoranur
11:00AM To 11:10AM	Break
11:10AM To 01:10PM	Session 14 Design of Bio-Inspired Robots using Shape Memory Alloys Dr. Sreekanth M., KabaniTech - Maker Space, Shoranur
01:10PM To 02:00PM	Break
02:00PM To 04:00PM	Session 15 ANN Application in Process Control Dr. Shijoh V., Professor & Dean (PG Studies), JECC, Thrissur
04:00PM To 04:10PM	Feedback Session and Valedictory Function

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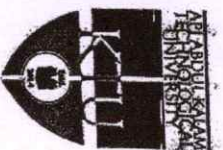
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REGISTRATION SHEET

Sl. No.	Name of Participant	KTU ID	Designation	Department	College Address	Email Address	Contact Number
1.	ABDUL VAHAB P. A.	KTU-F26722	Assistant Professor	Electrical & Electronics Engineering	Al Ameen Engineering College, Kulappully, Shornur	pa.vahab@gmail.com	9895395201
2.	ABEENA A.	KTU-F26946	Assistant Professor	Electrical & Electronics Engineering	Al Ameen Engineering College, Kulappully, Shornur	abeena.eee@gmail.com	9645896077
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4.	AKHIL A. BALAKRISHNAN	KTU-F8969	Assistant Professor	Electrical & Electronics Engineering	Jyothi Engineering College, Jyothi Hills, Panjal Road, Vettikkattiri P. O., Cheruthuruthy, Thirissur	akhilbalakrishnan@jecc.ac.in	9496347695
5.	ANAS S. R.	KTU-F1971	Assistant Professor	Electrical & Electronics Engineering	College of Engineering Muthathara, Vallakkadavu P.O, Thiruvananthapuram 695008	anas@cemuthathara.ac.in	8547981069
6.	ANJU SAM	KTU-F8347	Assistant Professor	Electrical & Electronics Engineering	Royal College of Engineering and Technology, Akkikavu Thirissur	anjusam@gmail.com	8157911466
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10.	DINTO THOMAS	KTU-F8145	Assistant Professor	Electrical & Electronics Engineering	Royal College of Engineering and Technology Akkavu Thirissur	dintothomas@gmail.com	8157911466
11.	Dr. GIBY JOSE	KTU-F7346	Associate Professor	Electronics & Computer Engineering	St. Joseph's College of Engineering and Technology, Palai, Choodacherry P. O., Pala, Kottayam - 686579	giby.jose@sjcetpalai.ac.in	9446273933
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15.	JOSLY JOSE	KTU-F6745	Assistant Professor	Electrical & Electronics Engineering	IES College of Engineering, Chittappilly, Thirissur	jostlyjose@iesce.info	9400393146
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21.	REMYA K. V.	KTU-F4641	Associate Professor	Electrical & Electronics Engineering	Al Ameen Engineering College, Kulappully, Shornur	mareenaremya@gmail.com	8921695283
22.	ROSHNI RAJAN K	KTU-F13324	Assistant Professor	Electronics & Communication Engineering	Jyothi Engineering College, Jyothi Hills, Panjal Road, Vettikattiri P. O., Cheruthuruthy, Thirissur	roshni@jecc.ac.in	9995613889
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24.	SARITHA P	KTU-F13296	Assistant Professor	Electrical & Electronics Engineering	Jyothi Engineering College, Jyothi Hills, Panjal Road, Vettikattiri P. O., Cheruthuruthy, Thirissur	sarithap@jecc.ac.in	9847797683
25.	SHABAB O	KTU-F7506	Associate Professor	Electrical & Electronics Engineering	Al Ameen Engineering College, Kulappully, Shornur	shababuly@gmail.com	9946106374

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27.	SIMITHA K. M.	KTU-F43156	Assistant Professor	Electrical & Electronics Engineering	IES College of Engineering, Chittilappilly, Thrissur	simithakm21@gmail.com	9497559803
28.	SMRITHI VIJAYAN	KTU-F44063	Assistant Professor	Electrical & Electronics Engineering	Providence College of Engineering, Angadical South P. O., Chengannur, Alappuzha, Kerala - 689122	smrithi.v@providencce.edu.in	8594074111
29.	SOURMYA C	KTU-F13367	Assistant Professor	Electrical & Electronics Engineering	Jyothi Engineering College, Jyothi Hills, Panjal Road, Vettikatti P. O., Cheruthuruthy, Thrissur	sourmya@jecc.ac.in	9495402964
30.	VINEETH R.	KTU-F4023	Assistant Professor	Electronics & Communication Engineering	College of Engineering and Management Punnapara, Vadakal P. O., Alappuzha 688003,	vineethraju.tvn@gmail.com	9447773772



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Report of KTU Sponsored Faculty Development Programme

On

RECENT ADVANCEMENTS IN CONTROL SYSTEMS (RAICS)

(January 30th – February 3rd, 2023)

“RECENT ADVANCEMENTS IN CONTROL SYSTEMS (RAICS)” the KTU sponsored Five-Day Faculty Development Programme was organized by the Department of Electrical and Electronics Engineering. The objective of FDP was to make sense of the new advancement in control systems, and understand the applications of control systems at an analysis level. Control system is a common word these days, but many of us do not realize the amazing impact it has on our daily lives. According to the statistics, control systems are gaining a wider application in the industries. Most of the industries are on the automation levels so the control systems have high demand in their usage. Since technological advancements are growing day by day, technology has taken the control system to a next level. So, the FDP aims to provide valuable knowledge of advancements in the field of control systems.

The five-day sessions started with registration followed by an inauguration function at the Insight hall of Jyothi Engineering College at 8.30 am, HOD, Mr. Jenson Jose delivered the welcome address. The programme was inaugurated by Dr. Jeevamma Jacob, Professor, NIT Calicut. Principal, Dr. Jose P Therattil and Academic Director, Rev. Dr. Jose Kannampuzha also addressed the gathering and motivated the participants to gain knowledge at its maximum level and to transfer them to the student community. Dr. Shijoh V and Mr. Akhil A. Balakrishnan were the FDP Coordinators.



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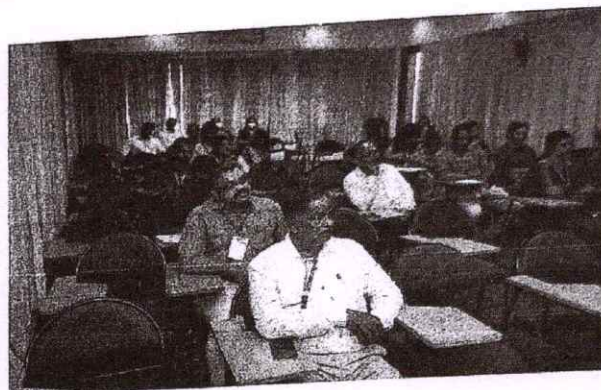
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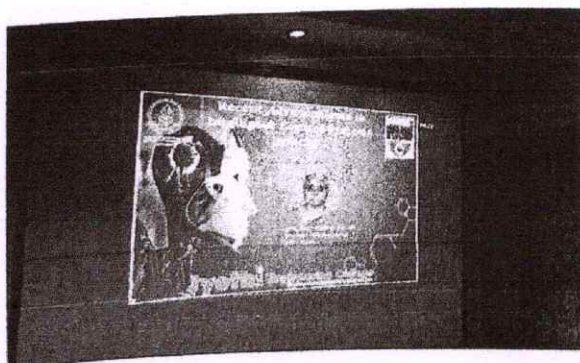


Day 1 (Monday- 30/01/2023)

Session 1: "Nonlinear Digital Control Systems".

Resource Person: **Dr. Jeevamma Jacob, Professor, NIT Calicut.**

The main topics covered in this session were Elements of nonlinear systems, Estimation of the DoA and Small gain theorem. She also pointed out the classifications of equilibrium points. She discussed Lyapunov functions. With examples, brief ideas about the different stabilities were given. She further moved on to absolute stability. The most effective session was about the state feedback controller. Then 10 minutes were given for discussion. It was an effective discussion. At last participants came forward for the feedback. The session was very interesting and all the participants got more knowledge on the same.



Joseph Therattil
Dr. JOSEPH THERATTIL
Principal
Jyothi Engineering College
Cheruthuruthy - 679531



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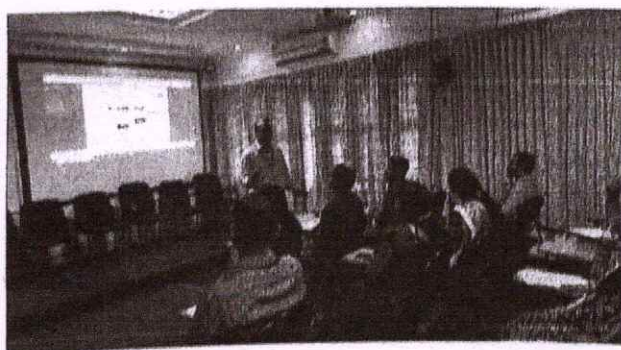
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Session 2: "Artificial Intelligence in Engineering Systems"

Resource Person: **Dr. Shijoh V, Professor & Dean (PG Studies), JEECC, Thrissur**

In the second session resource person discussed Control systems, Neural network basics and Control Applications. He gave the introduction about control systems and requirements of controller design. Explained in detail about the estimator block diagram and ANN in controller design etc. After this, a slot of 10 minutes was given for discussion. The session was wonderful and informative.



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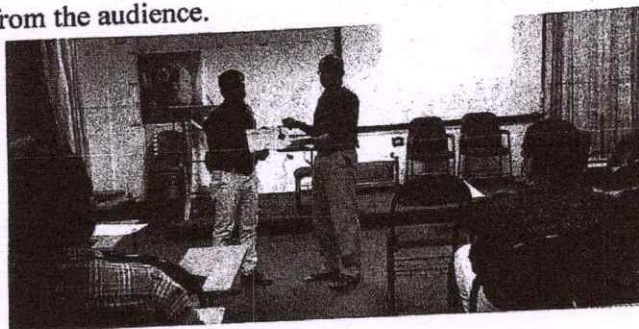
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Session 3: "Control of Parallel Robots"

Resource Person: **Dr. Ramesh Kumar P, Associate Professor, GEC Wayanad.**

Resource person discussed about the control of parallel robots. A basic motivation was given for this topic to be taken by him. The basic types of robotic geometry and comparison between series and parallel robot were discussed. Also explained in detail about high order sliding mode controller. Then a slot of 10 minutes given for discussing the topic and clarifying the doubts. Feedback was given from the audience.



Day 2 (Tuesday - 31/01/2023)

Session 4: "Intelligent Predictive Control"

Resource Person: **Dr. Shihabudheen K.V., Assistant Professor, NIT Calicut.**

Control systems is an unavoidable part in the field of electrical and electronics. The recent advancement in control technology led to the development of intelligent control systems. The resource person had discussed the various modelling of the control systems. Prediction of the future events using the intelligent control system was the core topic discussed during the session. Various predictive models were discussed. The Matlab Simulink modelling was included in the session, which helped the audience to understand the concept very well. The 10 minutes interactive discussion paved the way for the new possibilities in the field of intelligent predictive control systems. The session was ended by feedback of participants.



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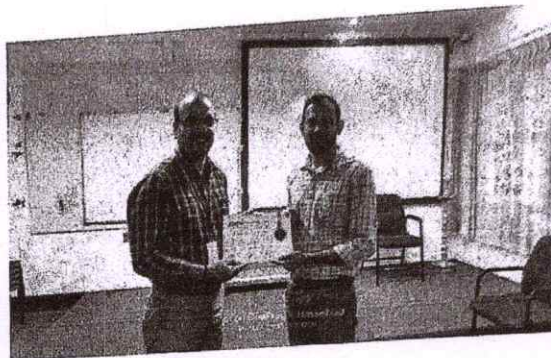
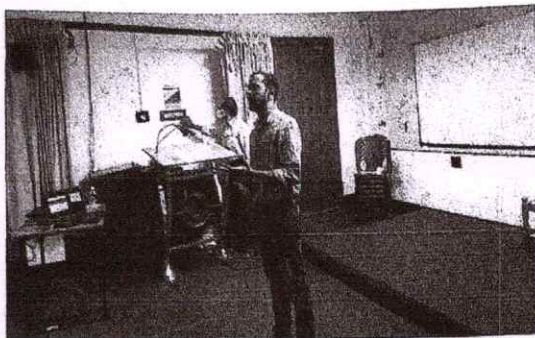
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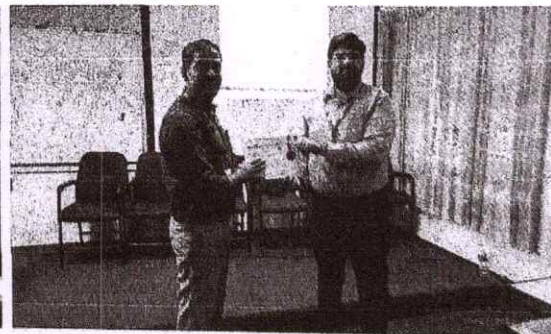
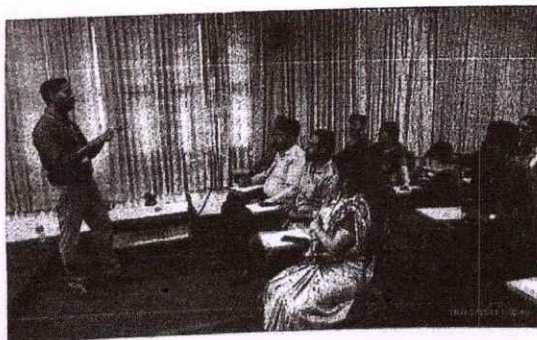
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Session 5: "Soft Computing Techniques"

Resource Person: Mr. Jenson Jose, HOD - EEE, JECC, Thrissur.

The topic of the session was soft computing techniques. Various applications of the soft computing was discussed in the session. The novel area of the session was about artificial neural networks. It is an efficient information processing system which resembles the human brain's neural network. The artificial neural network is further classified into supervised learning, unsupervised learning and reinforcement learning. The session was very informative. The speaker was given 10 minutes for the open discussion for the topic. The session was ended by the feedback given by the participants.



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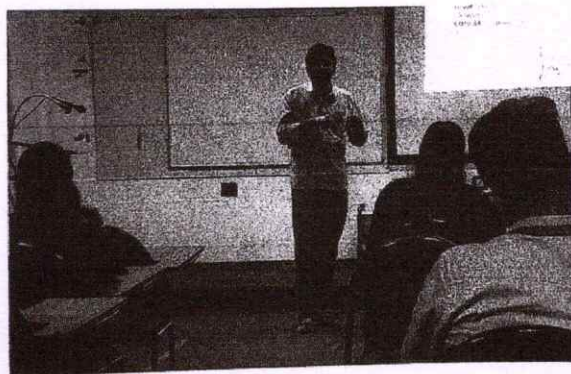
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Session 6: Modelling and Control of Unmanned Aerial Vehicles

Resource Person: **Dr. Rakesh R. Warier, Assistant Professor, NIT Calicut.**

The resource person had given an overview of the modelling and control of the UAV. The applications of the UAV are limitless. In this session the speaker had discussed how to model a UAV and their control techniques. UAVs are applied in various fields like defense, agriculture, surveillance etc. Also, he discussed the advantages and disadvantages about the UAV. The session was very actively taken by the speaker. Every participant was actively engaged in the session. 20 minutes was given to the participants for the discussion. The session was ended by the feedback from the faculty members.



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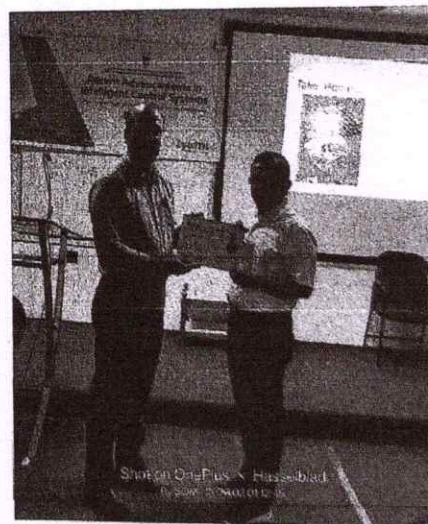
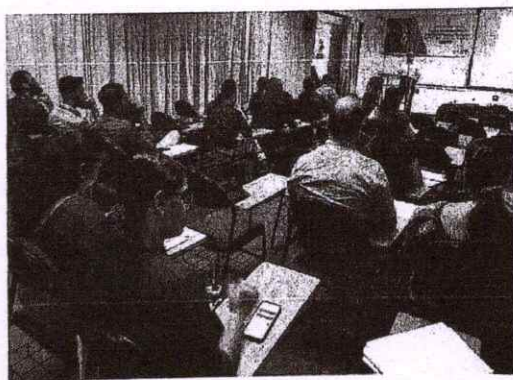
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Day 3 (Wednesday -01/02/2023)

Session 7 & 8: "Learning Controllers"

Resource Person: Dr. Imthias Ahamed T. P., Professor, TKMCE

He discussed about controller problems, regulator problems, PID controllers. An informative topic was taken which was reinforcement learning. A detailed explanation of requirements of reinforcement learning was given by the resource person in a simplified manner with interesting examples. Then he discussed about different Robbins Munro Algorithm & Greedy Algorithm. Then LA applications were given. Learning of neural network were discussed further. The discussion was held between resource person and participants. After that feedback was given from participants.



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Session 9: "Recent Research Trends in Instrumentation and Control"

Resource Person: **Dr. C. Karthik, Associate Professor, JECC Thrissur**

Resource person gave an introduction about control systems. A chart showing impact of advanced control technologies on real world was shown. Then he discussed about classical and intelligent control and approaches to modelling was given and need for modelling was discussed. A comparison between first principles and empirical modelling was given. Soft computing tools were discussed and the session was wrapped up. Then a discussion time was given for 10 minutes and feedback was given of how the session was informative.

Day 4 (Thursday-02/02/2023)

Sessions 10, 11 and 12: "PLC based Automation & Ladder Programming - Hands on Session"

Resource Person: **SMEC Automation Pvt. Ltd., Cochin**

It was arranged as three sessions. First session was about the basics of Programmable Logic Controllers (PLCs) and types etc., while second session deals with ladder programming. Third session was arranged to provide Hands on training.

In the first session, the resource person gave a brief introduction about (PLC) and different classifications of PLC according to their make and based on the output. He also discussed about the various PLCs in different industries. This session was very informative and it had given a clear-cut idea about the PLCs. We get familiar with the PLCs used in Siemens and Bosch.

He discussed the various kinds of programming methods for the implementation of the PLCs in second session. We had studied about ladder programming. And we tried to design the ladder diagram for different logical operations. Also, an introduction about SCADA was given.



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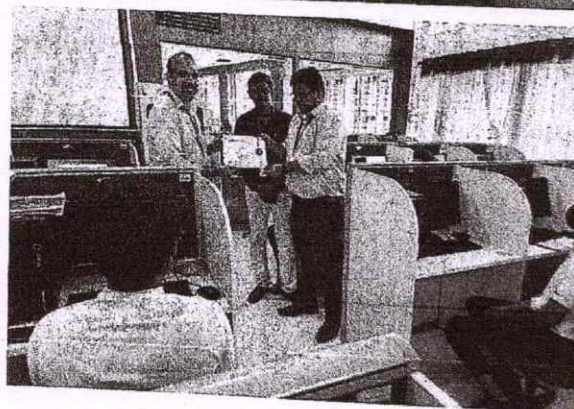
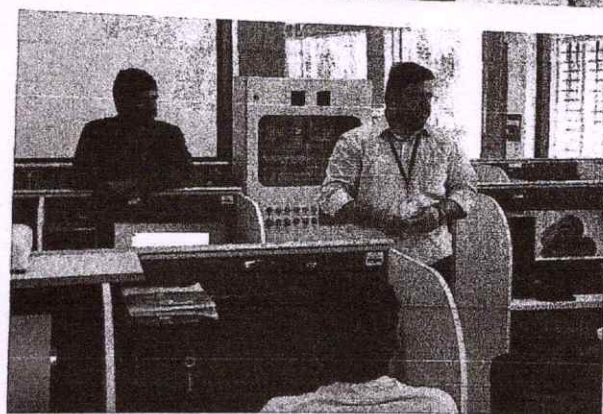
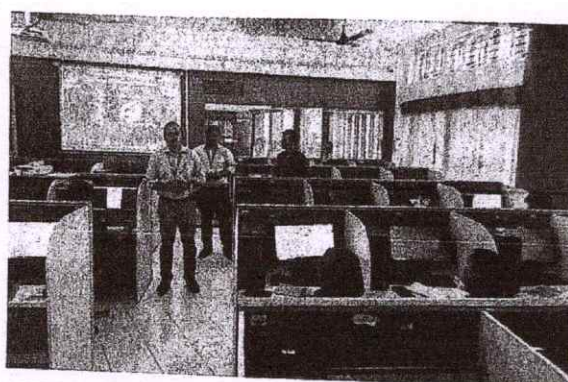
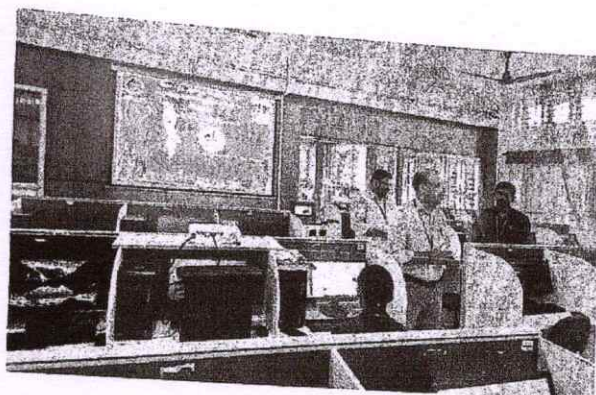
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After that there was a hands-on session on the software in which ladder programming was done. He also motivated the participants by showing and discussing about different projects done by SMEC Automation. The participants got a brief idea about the PLCs and the ladder programming language. The session was concluded with the feedback from two of the participants. It was a very informative session and the speaker motivated us by sharing his real-world industrial experience.



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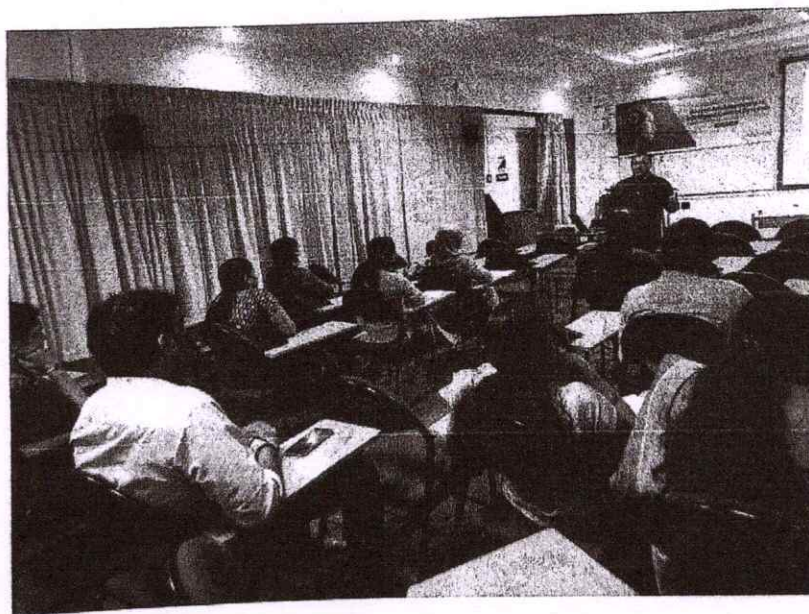
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Day 5 (Friday -03/02/2023)

Session 13 & 14: "Design of Bio-Inspired Robots using Shape Memory Alloys"

Resource Person: Dr. Sreekanth M, Kabani Tech- Maker Space, Shoranur

Dr. Sreekanth discussed about the stand we are having right now about robotics and in the future to what extent this would go. Then he discussed about 3D printing and system control. The different types of system were discussed as in the open loop system and closed loop system. He discussed about longest lab in the world, cars running with the help of code, multivariable control etc. Then he discussed about the different characteristics of robot. This session was really informative and interesting. After this a 10-minute time was given for a quick discussion. Participants came forward to give their feedback.



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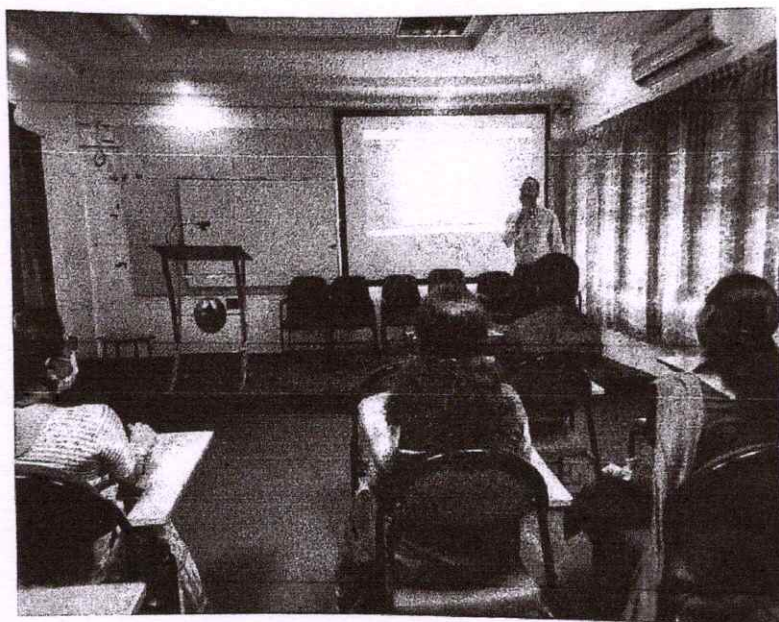
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Session 15: "ANN Application in Process Control"

Resource Person: Dr. Shijoh V., Professor & Dean (PG Studies), JECC, Thrissur

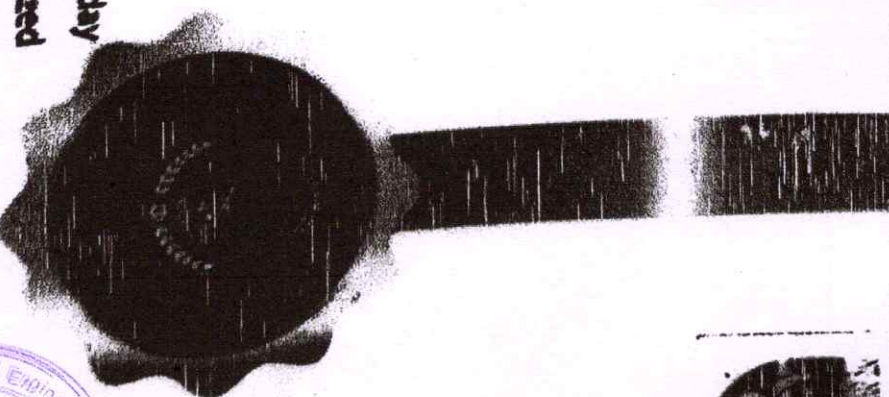
He discussed about the idea of ANN. He showed the inspiration of neurobiology, a basic model of neurons. A brief history of neurons study was shown by the resource person. He showed how the neural network can be used in control system. After this, participants were given a time to discuss and then the feedbacks were given.



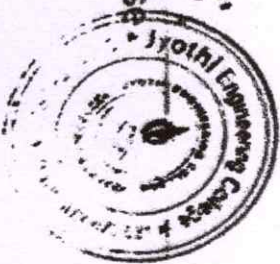
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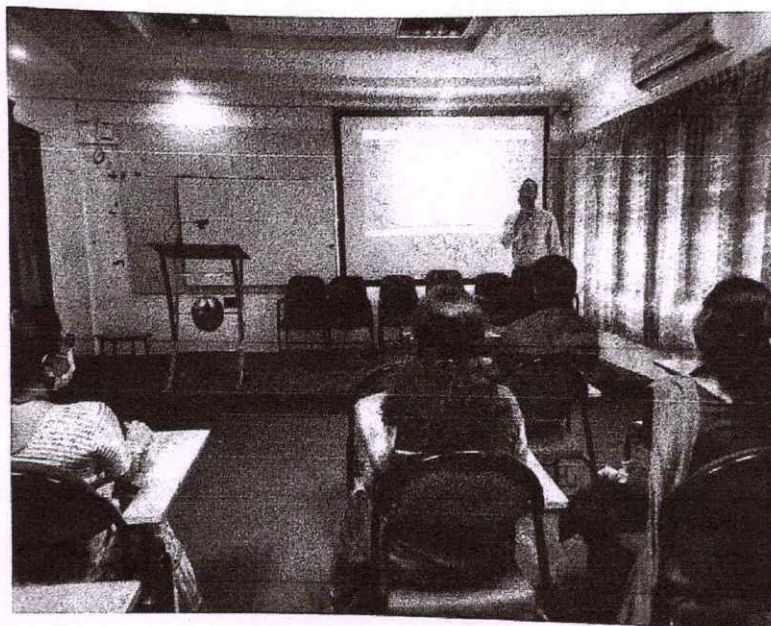


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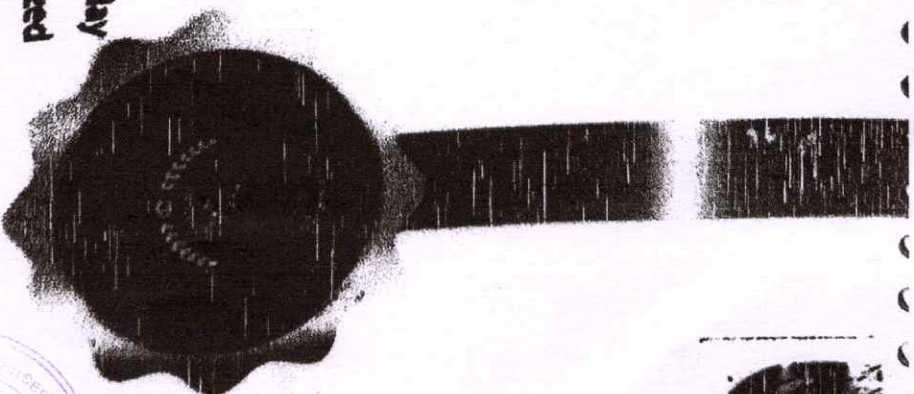
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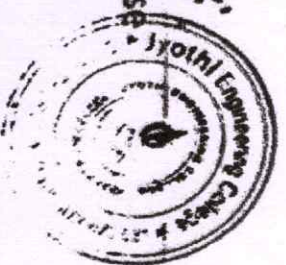
Certificate of Participation

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by the Department of Electrical & Electronics Engineering, Jyothi Engineering College, Cheruthuruthy,
Thirissur and sponsored by APJ Abdul Kalam Technology University from 30th January to 3rd February
2023.



Mr. Jensen Jose

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Dr. Jose P. Therattil

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Dr. Jose P. Therattil

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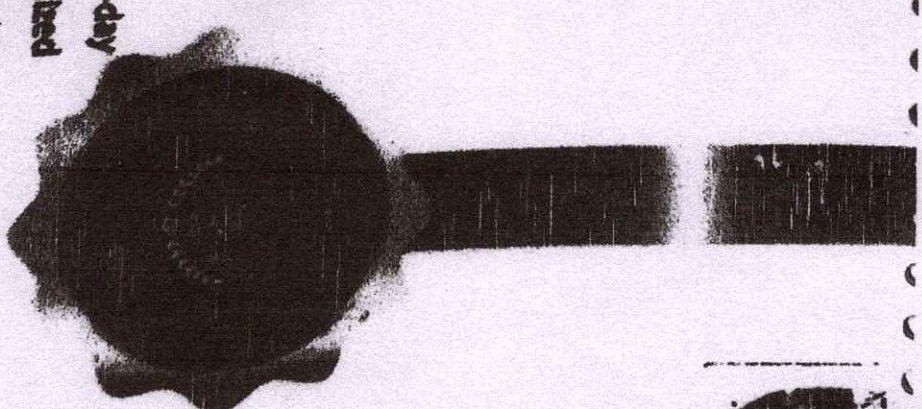
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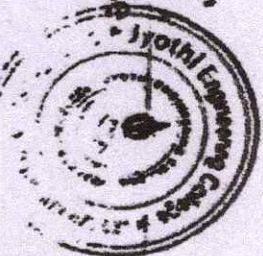
Certificate of Participation

This is to certify that Ms. Saeedha P. has participated in the five-day Faculty Development Programme on "Recent Advancements in Intelligent Control Systems" organized by the Department of Electrical & Electronics Engineering, Jyothi Engineering College, Cheruthuruthy, Thrissur and sponsored by APJ Abdul Kalam Technology University from 30th January to 3rd February 2023.



Mr. Jenson Jose

HOD, EEE



Dr. Jose P. Therattil

Principal

Fr. Thomas Kakkasseri

Executive Minister

Dr. JOSE P. THERATTIL
Principal
Jyothi Engineering College
Cheruthuruthy, Thrissur - 679531

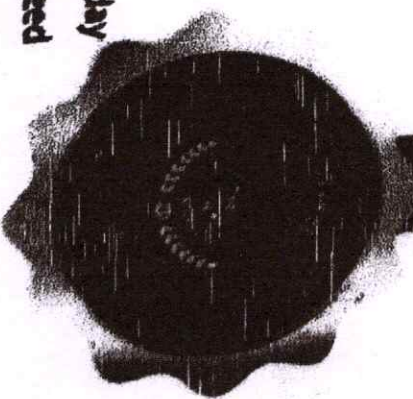
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Approved by AICTE & affiliated to APJ Abdul Kalam Technological University
ACCREDITED BY NAAC (Grade A) & NBA
IN THE MEANS WITH APJ A. K. TECHNOLOGICAL UNIVERSITY, THIRISSUR
WWW.JYOTHI-ENG.CA

Certificate of Participation

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by the Department of Electrical & Electronics Engineering, Jyothi Engineering College, Cheruthuruthy,
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2023.



[Signature]
Mr. Jenson Jose
HOD, EEE



[Signature]
Dr. Jose P. Therattil
Principal

[Signature]
Fr. Thomas Kakkasseri
Executive Member

[Signature]
Dr. Jose P. Therattil
Principal
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Thirissur - 679531



Jyothi Engineering College

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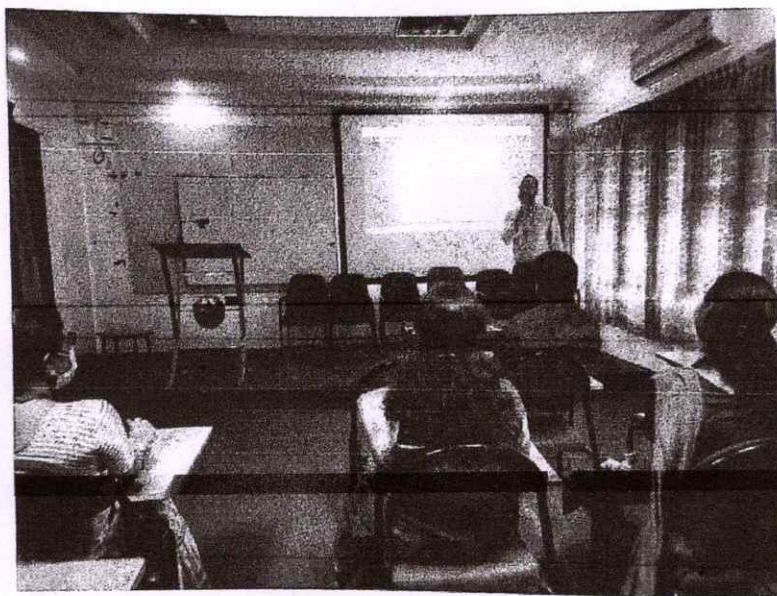


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Session 15: "ANN Application in Process Control"

Resource Person: **Dr. Shijoh V., Professor & Dean (PG Studies), JECC, Thrissur**

He discussed about the idea of ANN. He showed the inspiration of neurobiology, a basic model of neurons. A brief history of neurons study was shown by the resource person. He showed how the neural network can be used in control system. After this, participants were given a time to discuss and then the feedbacks were given.



Jose

Dr. JOSE P THERATTIL
Principal
Jyothi Engineering College
Cheruthuruthy - 679531

**Report of Faculty development Programme
Conducted on January 19th - January 25th,
2023**



Dr. JOSE P THERATTIL
Principal
Jyothi Engineering College
Cheruthuruthy - 679531





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Department of Mechanical Engineering

KTU Sponsored Five Day Offline Faculty Development Programme

on

Outcome Based Education (OBE): Adapting Effective Pedagogy
(30th Jan. – 03rd Feb. 2023)

***Document Submission to
APJ Abdul Kalam Technological University***





Jyothi Engineering College

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The Dean (Academics)
A P J Abdul Kalam Technological University
CET Campus Trivandrum.

14th Feb. 2023

Sir,

Sub: Submitting the report Original audited statement and Bills for reimbursement


Ref -Notification No: KTU/ACA1/1449/2022 dated 14/03/2022 by your office

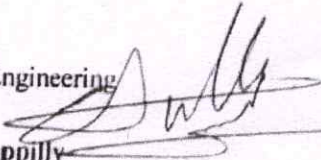
As per the reference cited above the FDP Proposal submitted by Dr. Biju C V (Professor) and Dr. George Raphael (Assistant Professor), Department of Mechanical Engineering has got approval from the University in the Topic "Outcome Based Education (OBE): Adapting Effective Pedagogy". Since Dr. George Raphael, Associate Professor of Mechanical Engineering Department has been relieved from service on 31st July, 2022, the coordinator ship of FDP has been allotted to Mr. Christy V Vazhappilly, Asst. Professor of Mechanical Engineering Department.

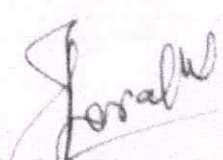
The 5 day FDP was successfully conducted from 30th Jan. to 03rd Feb. 2023. Here we are forwarding the FDP report, audited statement, bills and other enclosures prescribed by the University for your kind consideration. The Total expenditure for the programme is Rs.1,98,313. (One lakh ninety-eight thousand three hundred and thirteen only). It is hereby requested to reimburse the amount to the following account as early as possible.

NAME : JYOTHI ENGINEERING COLLEGE
BANK : FEDERAL BANK
BRANCH : CHERUTHURUTHY
IFSC CODE : FDRL0001699
ACCOUNT NUMBER: 15250100001019

Yours Truly,


Dr. Biju CV
FDP Coordinator
Professor & Head
Dept. of Mechanical Engineering


Mr. Christy V Vazhappilly
FDP Coordinator
Assistant Professor
Dept. of Mechanical Engineering


Dr. Jose P Therattil
Principal


Dr. Jose P Therattil
Principal
Jyothi Engineering College
Cheruthuruthy - 679531

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Report of KTU Sponsored Faculty Development Programme

on

Outcome Based Education (OBE): Adapting Effective Pedagogy

(30th Jan. to 03rd Feb. 2023)



Jonahs



Certificates will be given to the registered and effective participants

REGISTRATION

Registration Fee Free

<https://tinyurl.com/MEFDPOBE>



Click on the link or scan the QR code for registration

How to reach



<https://tinyurl.com/jecmap>

Msgr. Jose Konikara, Manager, JEC

Fr. Thomas Kakkassery, Executive Manager, JEC

Dr. Josep P. Therattil, Principal, JEC

Rev. Dr. Jose Kannampuzha, Academic Director, Jyothi Engineering College, Thrissur

Dr. Biju C.V., Professor, HOD, Dept. of Mechanical Engineering

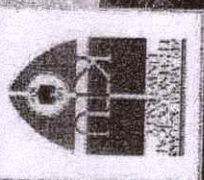
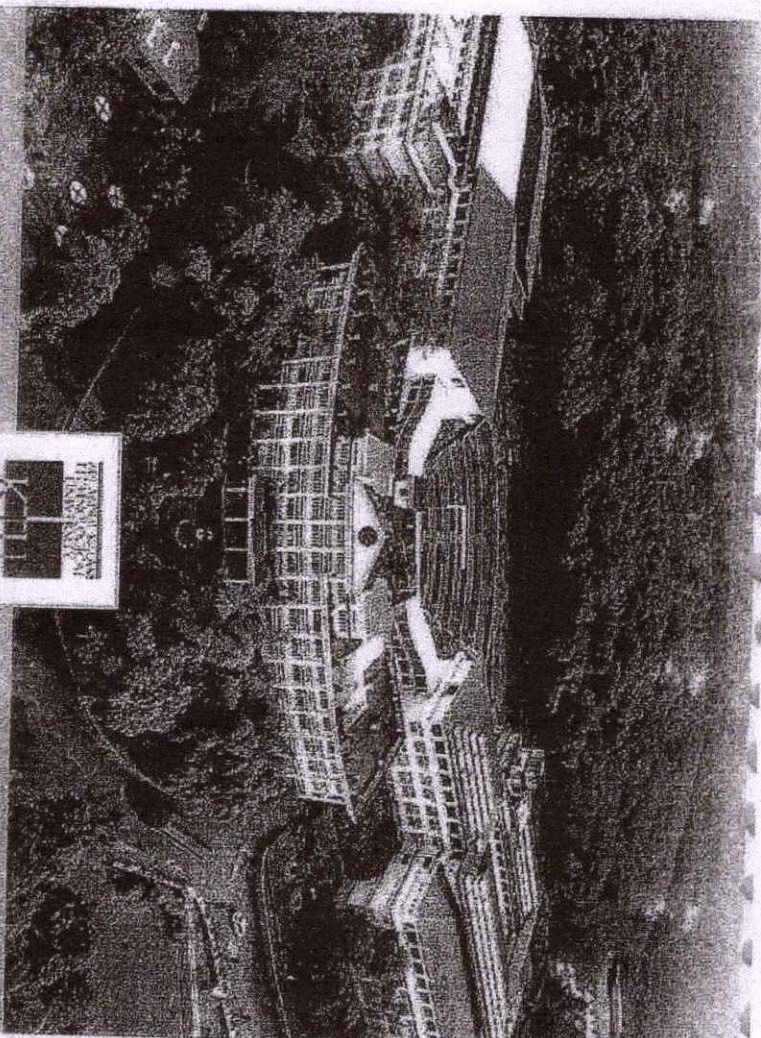
Christy V. Vaznappilly, Assistant Professor, Dept. of Mechanical Engineering

Tel: +91 4884 259000, 274423

Mobile: +91 9447388932, +91 9895638192

Email: topme@jecc.ac.in || **Website:** www.jecc.ac.in

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APJ ABUL KALAM TECHNOLOGICAL UNIVERSITY
FACULTY DEVELOPMENT PROGRAMME (FDP)

2022-2023

Organized by Department of Mechanical Engineering

OUTCOME BASED EDUCATION (OBE): ADOPTING EFFECTIVE PEDAGOGY

30.01.2023 to 03.02.2023



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ACKNOWLEDGMENTS The authors thank Dr. J. A. H. Wessels for his critical reading of the manuscript.

Principal
Engineering College
Chennai - 600 031

ABOUT JYOTHI ENGINEERING COLLEGE

Jyothi Engineering College (JEC), set up in 2002, under the aegis of Trichur Educational Trust, founded by the Catholic Archdiocese of Trichur, is one of the leading engineering colleges in Kerala. The college is affiliated to Kerala Technological University and offers various B.Tech, M.Tech, PhD programmes in Engineering and Technology. The Archdiocese of Trichur has an illustrious track record of a century and a quarter in the education sector.

Jyothi Engineering College is a NAAC re-accredited institution with Grade 'A'. Five of the undergraduate programs offered by Jyothi Engineering College have NBA accreditation, which signifies that we are well recognized for the quality of education we offer. We are periodically evaluated for this stringent NBA accreditation criteria to ensure that we sustain the mandated quality levels.

The worlds of study and work have changed dramatically. Students of today require different sets of skills than those of previous generations. We are in the midst of the fourth industrial revolution and the predictions are that 85% of the jobs that will exist in 2030 have not been invented yet.

Jyothi Engineering College prepares students to become T-Shaped professionals, i.e., professionals who have in-depth expertise in their discipline as well as a breadth of competencies acquired in the 21st century. In order to train our students to become "T" shaped professionals, so that they are "future ready", we have set up an incubation centre, Integrated Industrial Incubation Centre (IIIC), in association with TATA Technologies.

Additionally for students desirous of being "job creators" rather than "job seekers", Jyothi Engineering College has also set up a Technology Business Incubator, JEC TBI, to help students create technology based new enterprises, foster an entrepreneurial spirit among students and commercialise R&D output.

Jyothi Engineering College offers a vibrant, beautiful, and green environmentally friendly campus, and excellent infrastructure for students, to aid the teaching and learning process. For more information visit www.jecc.ac.in

ABOUT DEPARTMENT

The Department of Mechanical Engineering started functioning in 2004, two years after the inception of the College. Currently, the department offers four year UG program in Mechanical Engineering, affiliated to APJ Abdul Kalam Technological University. UG program, Mechanical Engineering attracts bright and aspiring students every year and is designed to provide solid foundations for careers in industry, research, and academia. The department has highly qualified, experienced and dynamic faculty members with specialization in Thermal Engineering, Machine Design, Materials Engineering, Advanced Manufacturing, Industrial Engineering and CAD/CAM. The department is equipped with most modern infrastructure and state of art laboratories to undertake high-end teaching, research and developmental activities.

COURSE DETAILS

Significance:

The changing nature of the education sector worldwide has shifted the focus from the traditional mode of classroom teaching to an outcome based teaching - learning environment. The recent National Education Policy 2020 has also envisaged the idea to bridge the gap between the current state of learning outcomes and what is required by undertaking major reforms that bring the highest quality, equity, and integrity into higher education. Presently, there is a pre-dominance of the conventional and traditional classroom setup which are highly "Teacher-Centered" or taught with fixed curricula. Outcome based Education (OBE) is a shift towards "Students-Centered" classrooms with focus on learning outcomes. To achieve this, it is pertinent to adopt high-quality pedagogy to successfully deliver the curricular material to students. It is facilitated by the interactions between the instructor's knowledge of the subject matter and ability to develop and use best methods within teaching pedagogy. In fact, the pedagogical practices adapted, play a major role in determining the learning experiences received by the students and thereby, directly influencing their learning outcomes. The FDP is an endeavour in this direction and emphasizes on various aspects of teaching effectiveness to be explored within the changing dynamics of the educational environment.

The current Programme aims to train the faculty members in the new knowledge and skills, required to move beyond the scope of traditional classroom and to implement novel approaches in teaching pedagogy. The themes of the programme are designed in a manner to systematically cover the latest pedagogies regarding foundational conceptual frameworks of Blooms' taxonomy, graduate attributes, formative and adaptive assessment of learning outcomes, competency-based learning, and related pedagogies, such as experiential learning and use of ICT applications to aid the process. Furthermore, the FDP will facilitate the participants to share innovative ideas, develop critical thinking and share best practices related to OBE.

Objectives:

1. To define the perspectives of effective teaching.
2. To enhance the knowledge on Outcome-Based Education (OBE) and its implications in teaching, assessment, and evaluation
3. To facilitate understanding of teaching pedagogy and effective implementation of every aspect of pedagogy.
4. To enable self-reflective assessment of effectiveness in teaching.
5. Understand the mapping of Mission, Vision, Core Values and Objectives
6. To familiarize with the developments in communication and technology.

DEPARTMENT OF MECHANICAL ENGINEERING

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.

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.



Kerala Engineering College
Thiruvananthapuram - 679531

JYOTHI ENGINEERING COLLEGE, CHERUTHURUTHY

DEPARTMENT OF MECHANICAL ENGINEERING

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY Sponsored

5 Days' FDP on "OUTCOME BASED EDUCATION (OBE): ADOPTING EFFECTIVE PEDAGOGY" [30/01/2023 - 03/02/2023]

Day & Date	Forenoon Timing (9.00AM to 12.15PM) (Tea break: 10.45AM to 11.00AM)	Afternoon Timing (12.45PM to 04.00PM) (Tea break: 02.15PM to 02.30PM)
Timing	09.00AM to 10.30AM 10.45AM to 12.15PM	12.45PM to 02.15PM 02.30PM to 04.00PM
DAY 1 30/01/2023	<p>Immigration Dr. ELIZABETH ELIAS (Director - Research, Christ College of Engg., Irinjakkudi) "OBE Based Teaching Learning Process"</p>	<p>Dr. ELIZABETH ELIAS (Director - Research, Christ College of Engg., Irinjakkudi) "Mapping & Attainment of COs & POs"</p> <p>Dr. BIJU C. V HOD-M.E, JECRC & Search - An Effective Tool for Active Teaching Learning Process"</p>
DAY 2 31/01/2023	<p>Dr. SUNIL JOBI (Faculty - Marian College, Kuttikkattam, & Chief of Academics, IPSR Solutions) "Bloom's Taxonomy & Introduction to OBE"</p>	<p>Dr. NANDAKUMAR C. G. (Faculty - Dept. of Ship Technology, CUSAT) "The Paradigm Shift in Engineering Education with NEP 2020 & the relevance of OBE"</p>
DAY 3 01/02/2023	<p>Dr. SURESH NAMBOOTHIRI (Director - Export Technologies, Pune, & Former COO - TATA Motors) "Lower Order Thinking to Higher Order Thinking"</p>	<p>Dr. RAJESH P. NAIR (Asst Professor - Ship Technology, CUSAT) "Importance of Values in OBE"</p> <p>Mr. JASNA AVINASH (YOGA Specialist & Trainer) "Stress Management through Yoga & Role of Yoga in Education"</p>
DAY 4 02/02/2023	<p>Dr. INDIRANIMA M. (Professor-Dept. of CSE, BMS College, Bangalore) CO PO mapping and assessment</p>	<p>Dr. B. KANNANI (Professor-Dept. of ECE, BMS College, Bangalore) Assessment and CO PO attainment - Interactive session</p>
DAY 5 03/02/2023	<p>Dr. K. S. SAJAN (Asst. Professor of Education, NSS Training College, Ottapalam) "College Mission to ILQ, PLO, CLO, or from Specific Learning Outcomes"</p>	<p>Dr. GIRESHKUMARAN THIAPPI B. S. (Professor - Dept. of M.E, CUSAT) "OBE - A Gateway for NBA Accreditation"</p>

LUNCH BREAK

(12.15PM to 12.45PM)



Jose P. Therattil
Dr. JOSE P. THERATTIL
Principal
Jyothi Engineering College
Cheruthuruthy - 879531





Jyothi Engineering College

Approved by AICTE & Affiliated to APJ Abdul Kalam Technological University
N/AAC Accredited college with BBA Accredited programmes
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DEPARTMENT OF MECHANICAL ENGINEERING

KTU Sponsored Five Days FDP on “OUTCOME BASED EDUCATION (OBE): ADOPTING EFFECTIVE PEDAGOGY”

Inauguration Programme Schedule – 30/01/2023

- | | |
|-----------------|--|
| 09.30am-09.33am | Prayer: Ms. Sreelakshmi S., S2 M. Tech |
| 09.33am-09.38am | Welcome Address: Dr. Biju C. V., HOD-M.E. |
| 09.38am-09.45am | Address the audience: Dr. Jose P Therattil, PRINCIPAL |
| 09.45am-09.50am | Inauguration: Lighting the lamp |
| 09.50am-09.55am | Message by the chief guest: Dr. ELIZABETH ELIAS, Director
– Research, Christ College of Engg., Irinjalakuda |
| 09.55am-10.00am | Felicitation: Fr. Dr. Jose Kannampuzha, Director – Academics |
| 10.00am-10.05am | Felicitation: Dr. V. M. Xaviour, Registrar |
| 10.05am-10.10am | Vote of Thanks: Mr. Christy V. Vazhappilly, FDP Coordinator |
| 10.10am-10.12am | National Anthem: Ms. Sreelakshmi S., S2 M. Tech |
| 10.15am-10.30am | Tea Break |



Jose P
Dr. JOSE P THERATTIL
Principal
Jyothi Engineering College
Cheruthuruthy - 679531



Report of KTU Sponsored Faculty Development Programme
On
Outcome Based Education (OBE): Adopting Effective Pedagogy

Mechanical Engineering department of Jyothi Engineering College conducted five day KTU sponsored Faculty Development Programme (FDP) on Outcome based Education from 30th Jan – 03rd Feb. 2023. Thirty faculty members from different KTU affiliated institutions.

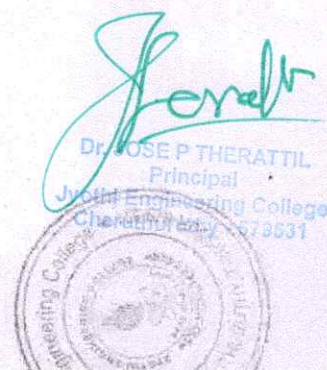
In the five days programme 15 sessions were conducted focusing on various key aspects of OBE & NBA including two hands sessions on CO - PO Attainment, Course File, ICT & Interactive Teaching Practices.

FDP sessions consists of Vision, Mission & Outcome Based Education, Skill India in OBE, Implementation of OBE, Achieving Academic Excellence, Mapping & Attainment of COs and POs, Course File Preparation & Rubrics, OBE based Teaching Learning, Occupational Stress Management, Role of Teacher in Value Based Education, Continuous Improvement based on PO/PSO Attainment, Active Learning Strategies, Continuous Quality Improvement, Systematic Pedagogy with Constructive Alignment and Interactive Learning Platform

The five Day FDP comprising 15 sessions started with registration followed by Inaugural function at the Insight Hall at 09.30 am. Dr. Biju CV, Head of the Department delivered the welcome address. The programme was inaugurated by Dr. Elizebath Elias, Retd. Professor NIT Calicut. Principal Dr.



Jose P Therattil, Academic Director Fr. Dr. Jose Kannampuzha also addressed the gathering. Mr. Christy V Vazhappilly FDP coordinator presented vote of thanks.



**Session Wise Report
Faculty Development Programme
on**

**Outcome Based Education (OBE): Adopting Effective Pedagogy
(30th Jan. – 03rd Feb. 2023)**

Day - 1 : 30th Jan. 2023
Session- : 1&2
Topic : OBE Based Teaching Learning Process
Speaker : Prof (Dr.) Elizabeth Elias, Retd. NIT Calicut

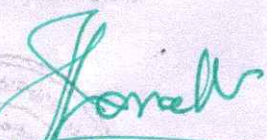
Speaker focused on higher education which includes World class research with high quality teaching learning process. The history of OBE and accreditation process was well covered in the session. The concept of vision and mission and formulation of the same for institute and Department level was presented in the morning session on the first day of FDP.



Day - 1 : 30th Jan. 2023
Session : 03
Topic : Mapping & Attainment Of Cos & Pos
Speaker : Prof (Dr.) Elizabeth Elias, Retd. NIT Calicut

Speaker covered the formation of Course Outcomes (CO) in relation with the syllabus of the particular course and assessment of CO's at different stages of the academic calendar. The direct and indirect assessment tools were also discussed in the session. Speaker focused on Programme Educational Objectives, Programme Outcomes, Course Outcomes and Blooms Taxonomy. PEOs are the expected achievements of graduates in their career that are expected to achieve during after few years of their graduation. PEOs must be quantifiable, suitable, realistic and attainable. Graduate Attributes (GAs) are prescribed by NBA and programme outcomes should be defined from these GAs. Mapping of PEO & PO and PO & CO is enlightened.




Dr. JOSE P. THERATTIL
Principal
Jyothi Engineering
Cheruthuruthy - 695031

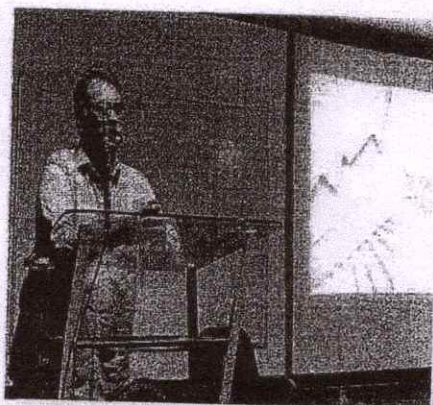
Day - 1 : 30th Jan. 2023
 Session- : 04
 Topic : Pause & Search -An Effective Tool for Active Teaching Learning Process
 Speaker : Prof (Dr.) Biju CV, Head of the Department, Jyothi Engineering College.

Speaker enlightened the need to introduce efficient teaching methodology to ensure unaltered attention of the students in the classrooms. The concept of "Pause and search", an active teaching learning tool was well discussed in the session. Examples from different fields were presented in the programme. The concept and formation of nodes, knowledge junctions etc were shared in the last session on the first day of the faculty Development Programme. The participants actively involved in the hands on session. Each every participant presented their models and explained the potential of the tool in their academic domain.



Day - 2 : 31st Jan. 2023
 Session- : 1&2
 Topic : Blooms Taxonomy & Introduction to OBE
 Speaker : Prof (Dr.) Sunil Job, Marian College Kuttikkanam

Dr. Sunil Job started his presentation with the statement of knowledge, skill and attitude the graduate engineer will be able to demonstrate after successful completion of the course. Training extended in the area of incorporating Blooms taxonomy while preparing question papers. Blooms taxonomy has 6 levels. Level-1: Understand, Level-2: Remember, Level-3: Apply, Level-4: Analyze, Level-5: Evaluate, Level-6: Create. The assessment tools -

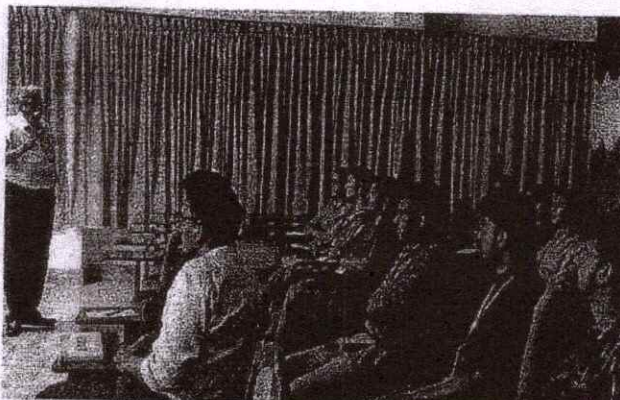


Direct and Indirect were covered in the session. The design of direct assessment tools in mid examinations, assignments, laboratory examinations, semester examinations, seminars, min and major projects were explained in detail in the presentation.

Day - 2 : 31st Jan. 2023
 Session- : 3 & 4
 Topic : The Paradigm Shift in Engineering Education with NEP 2020 & the relevance of OBE
 Speaker : Retd. Prof (Dr.) Dr. Nandakumar C. G. (CUSAT)



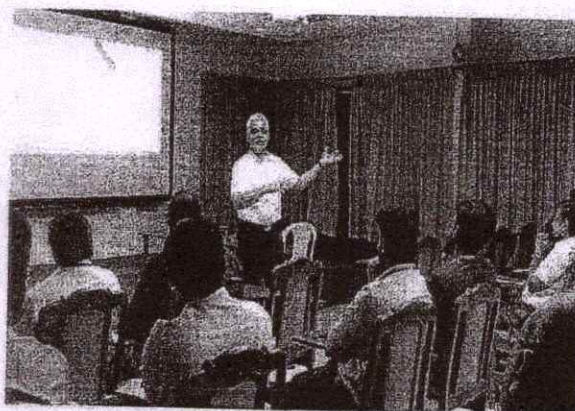
Speaker Prof. (Dr.) Nandakumar CG gave a brief description about New Education Policy 2020. In view of NEP 2020, he explained the changes required in the higher education sector. The need of strong curriculum and its execution to address the emerging areas such as Big Data, ML, AI etc. where most of the unskilled jobs may be taken over by the machines were discussed



in the afternoon session. The need of the time such as solution for climatic change, depletion of natural resources, sanitation needs etc. More than meeting the lower levels of blooms taxonomy, he invited the attention of the faculty members attending the FDP to mould the their students to address the higher levels of BT.

Day - 3 : 01st Feb. 2023
 Session- : 1&2
 Topic : Lower Order Thinking to Higher Order Thinking
 Speaker : Dr. Suresh Namboothiri

Speaker Dr. Suresh Namboothiri started his session with the statistics of employability of engineering graduates from different institutions in the country. He focused in the area of graduate attributes and how it is reflected in the NBA accreditation process. He presented the adoption of revised blooms taxonomy in the knowledge dimensions. The tools to improve critical creative thinking were

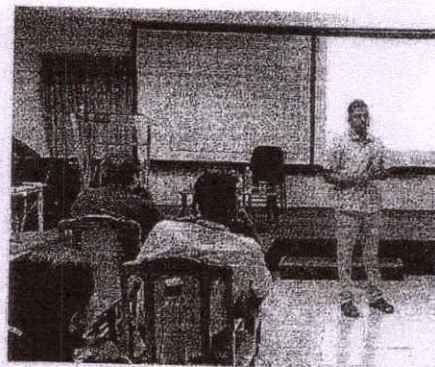
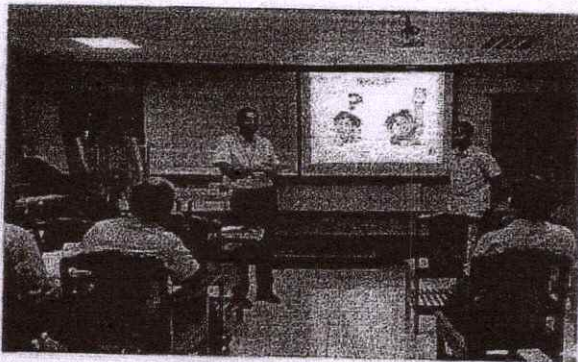


discussed in the session. In the hands on session, participants presented their models based on on Vygotsky's pedagogical works.

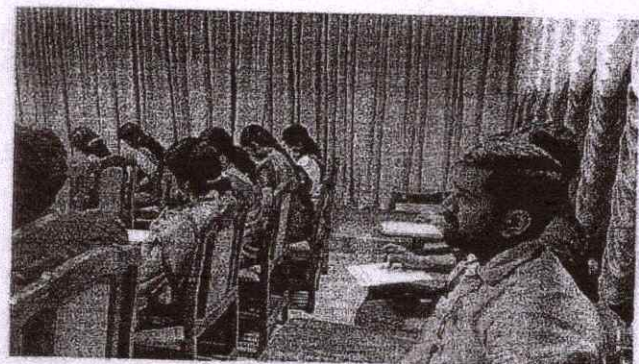
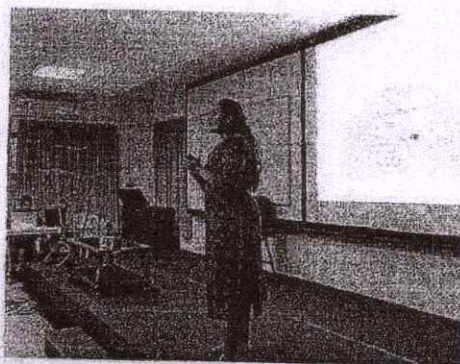
Day - 3 : 01st Feb. 2023
 Session- : 03
 Topic : Importance of Values in OBE
 Speaker : Prof. (Dr.) Rajesh P. Nair, Dept of Ship Technology, CUSAT



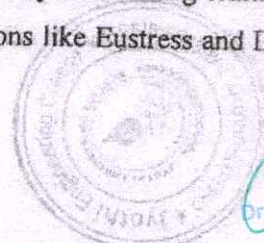
Speaker Dr. Rajesh P Nair emphasized the need of value education in professional curriculum. He shared the concept of Universal Human Values where Value education has being envisaged to be universally applicable to all human beings and be true at all times and all places. The logically connected the role of value education for skill education and with the help of examples in the professional career, he established the relationship. The difference between moral education and value education was presented in detail. The role of education which can be used to enable transformation ensuring the proper relationship with human beings were beautifully shared in the session.



Day - 3 : 01st Feb. 2023
 Session- : 04
 Topic : Stress Management through Yoga & Role of Yoga in Education
 Speaker : Ms. Jasna Avinash, YOGA Specialist & Trainer

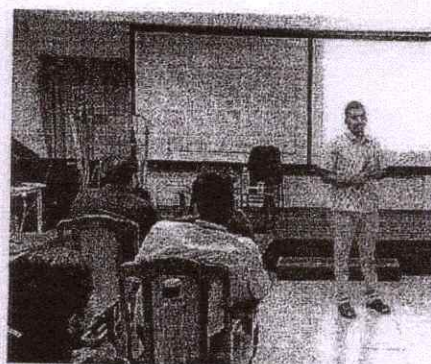
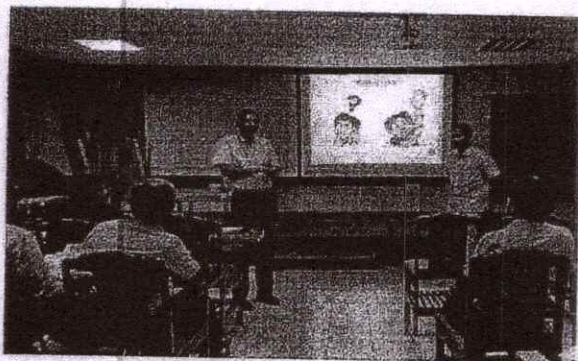


Speaker Ms. Jesna who has rich experience in the area of YOGA training shared the need of mental health and techniques to manage mental stress especially in teaching learning process. She started with the cause of mental stress and its classifications like Eustress and Distress. The

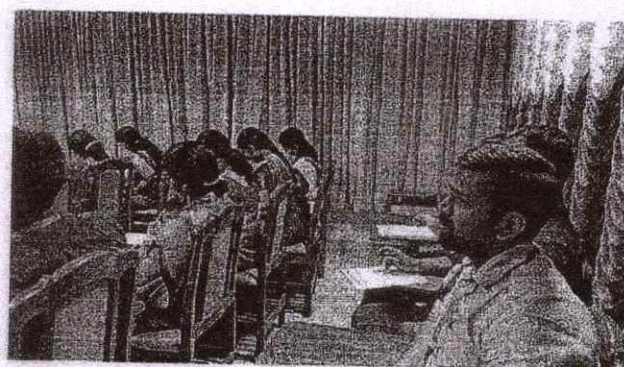
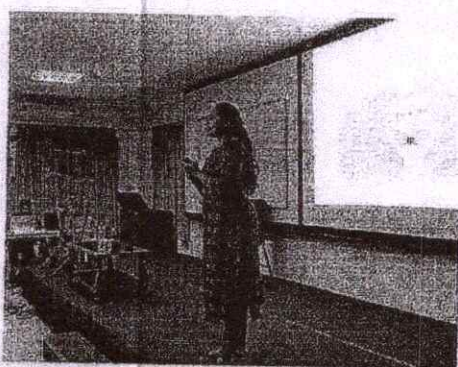


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 Principal
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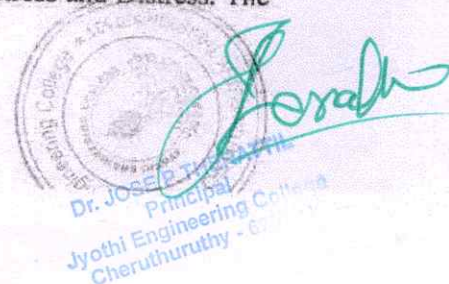
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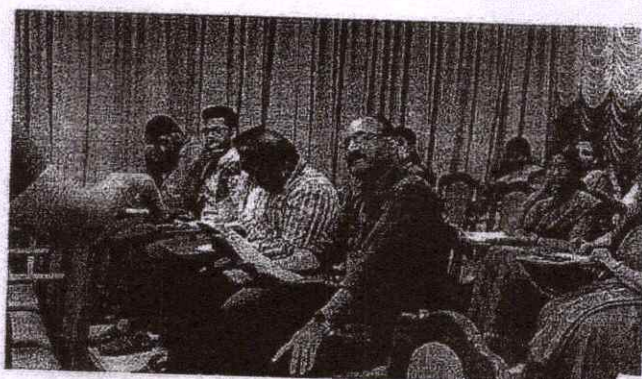
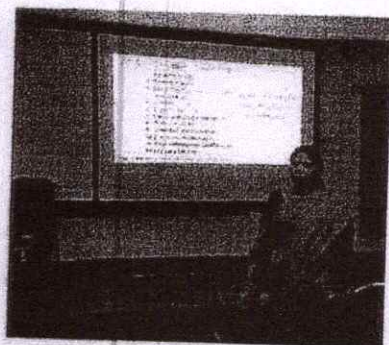


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following benefits of practicing yoga such as improvement of cognitive power, improvement of amazing creative power, smoothening of the brain power etc. were discussed in detail.

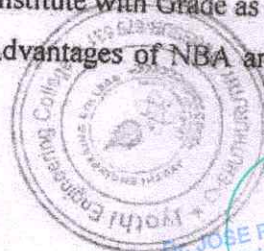
Day - 4 : 02nd Feb. 2023
Session- : 01 & 02
Topic : CO PO mapping and assessment
Speaker : Prof. (Dr.) Indiramma M, Dept. of CSE, BMS College, Bangalore.



Speaker focused on preparing assessment tools for the various theory and practical courses included in the Engineering Curriculum. The feedback format for collecting data from various stakeholders, review of direct & indirect achievements, action taken based on the results of evaluation of each of the POs & PSOs were discussed in the forenoon session. Identifying the areas of weaknesses in the program based on the analysis of evaluation of POs & PSOs attainment levels. Some of the areas that are initiated are remedial classes, workshop, assignments, etc. Weak students in each area are identified and counseled separately by their mentors. All participants were trained to identify the blooms taxonomy levels and PO mapping for previous question papers was really informative.

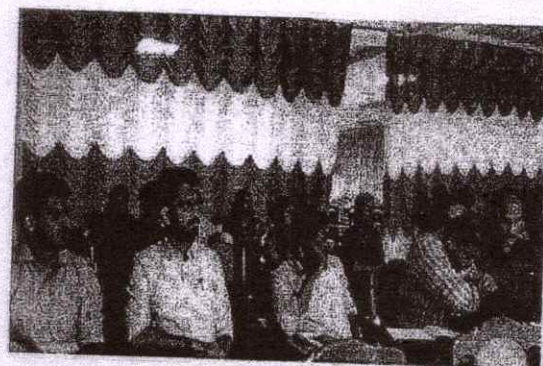
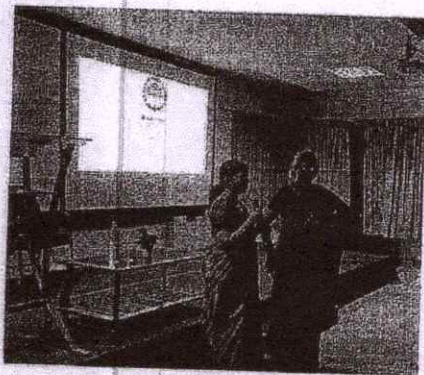
Day - 4 : 02nd Feb. 2023
Session- : 03 & 04
Topic : CO PO mapping and assessment
Speaker : Prof. (Dr.) B. Kanmani, Dept. of ECE, BMS College, Bangalore.

Dr. Kanmani having rich experience as the peer team member and Chairman of the NBA accreditation started her presentation with the importance of NBA for technical institutions. The National Board of Accreditation (NBA) has permanent membership in the Washington Accord, an international agreement for standardizing engineering education. Institute with Grade as Tier-I and Tier -II based on status of Autonomy and University status. Advantages of NBA are that



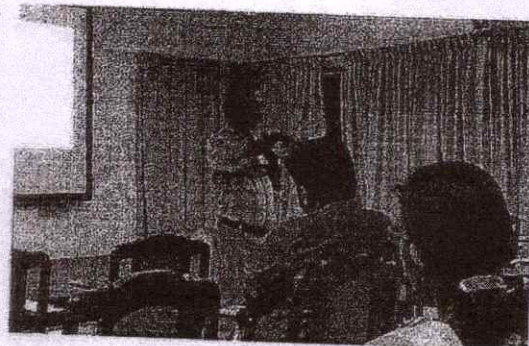
Dr. JOSE P. THEARATIL
Principal
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Cheruthuruthy - 695531

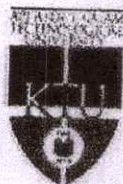
students get quality education and better employment opportunity. Institution builds up a brand, continuous improvement towards excellence and many more. There are many active learning strategies to empower, engage, and stimulate a classroom by putting students at the center of the learning process. Some of them are group assignments, collaborative learning, jigsaw, think pair share, fish in bowl, etc. and she trained the participants how to map all the activities with PO and PSO.



Day - 5 : 03rd Feb. 2023
 Session- : 01 & 02
 Topic : College Mission to ILO, PLO, CLO, or from Specific Learning Outcomes?
 Speaker : Prof. (Dr.) K, S. Sajan, NSS Training College, Ottappalam, Palakkad

Dr.Sajan, resource person of the Faculty Development Programme explained pedagogy which refers to the "interactions between teachers, students, and the learning environment and the learning tasks." This broad term includes how teachers and students relate together as well as the instructional approaches implemented in the classroom were discussed in detail. Designing appropriate outcome-based curriculum, were trained in the hands on session. In the second session he enlightened the need of the concept of Course/Activity Learning Outcomes (CLOs) which are the specific take always from a course activity that students are meant to apply in future settings.





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ADOPTING EFFECTIVE PEDAGOGY"**

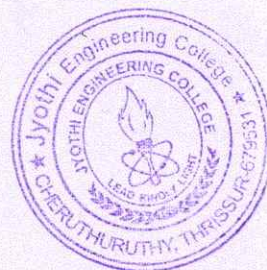
DEPARTMENT OF MECHANICAL ENGINEERING

**PARTICIPANTS LIST
&
REGISTRATION DETAILS**



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Jyothi Engineering College, Cheruthuruthy, Thrissur - 686 010
Phone: 0462-2745511 Fax: 0462-2745512 Email: jyothisec@rediffmail.com



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11	Ms	ANITHA MATHEW	KTU- F30521	IES COLLEGE OF ENGINEERING
12	Mr	NASID K	KTU- F36863	AL-AMEEN ENGINEERING COLLEGE
13	Mr	SANJEEV KUMAR C P	KTU- F6118	AL-AMEEN ENGINEERING COLLEGE
14	Ms	ARUNIMA RAJEEV	KTU- F44412	VISAT ENGINEERING COLLEGE
15	Mr	SHINTO BABY	KTU- F44767	VISAT ENGINEERING COLLEGE
16	Mr	RAMESH M	KTU- F34413	VISAT ENGINEERING COLLEGE
17	Mr	ABIN SEBASTIAN	KTU- F44720	VISAT ENGINEERING COLLEGE
18	Mr	SALMAN BIN ALI	KTU- F7929	MALABAR COLLEGE OF ENGINEERING AND TECHNOLOGY
19	Mr	ARJUN C NAIR	KTU- F29705	MALABAR COLLEGE OF ENGINEERING AND TECHNOLOGY
20	Mr	SHAMEER HASSAN P M	KTU- F44135	MALABAR COLLEGE OF ENGINEERING AND TECHNOLOGY



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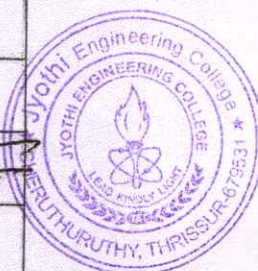
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DEPARTMENT OF MECHANICAL ENGINEERING

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2	Dr	JOHN CHEMBUKKAVU	KTU-F6709	<i>John</i>	<i>John</i>
3	Dr	DILEEP K	KTU-F1387	<i>Dileep</i>	<i>Dileep</i>
4	Mr	ANEESH S	KTU-F39941	<i>Aneesh</i>	<i>Aneesh</i>
5	Mr	ANIL M	KTU-F19768	<i>Anil</i>	<i>Anil</i>
6	Ms	VIJITHA G	KTU -F3224	<i>Vijitha</i>	<i>Vijitha</i>
7	Ms	RINCHU P	KTU-F39103	<i>Rinchu</i>	<i>Rinchu</i>
8	Mr	THOMAS JOSEPH	KTU-F3179	<i>Thomas</i>	<i>Thomas</i>
9	Mr	MANIKANDAN N R	KTU- F4211	<i>Manikandan</i>	<i>Manikandan</i>
10	Ms	NEGMA IQBAL	KTU- F43819	<i>Negma</i>	<i>Negma</i>
11	Ms	ANITHA MATHEW	KTU- F30521	<i>Anitha</i>	<i>Anitha</i>
12	Mr	NASID K	KTU- F36863	<i>Nasid</i>	<i>Nasid</i>
13	Mr	SANJEEV KUMAR C P	KTU- F6118	<i>Sanjeev</i>	<i>Sanjeev</i>
14	Ms	ARUNIMA RAJEEV	KTU- F44412	<i>Arunima</i>	<i>Arunima</i>
15	Mr	SHINTO BABY	KTU- F44767	<i>Shinto</i>	<i>Shinto</i>
16	Mr	RAMESH M	KTU- F34413	<i>Ramesh</i>	<i>Ramesh</i>
17	Mr	ABIN SEBASTIAN	KTU- F44720	<i>Abin</i>	<i>Abin</i>



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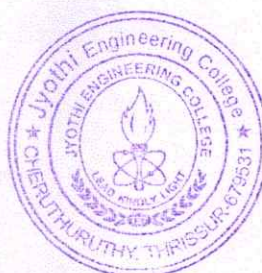
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				FN	AN
18	Mr	SALMAN BIN ALI	KTU- F7929		
19	Mr	ARJUN G NAIR	KTU- F29705		
20	Mr	SHAMEER HASSAN P M	KTU- F44135		
21	Ms	TINTU DEVASSY	KTU-F12600		
22	Mr	CHRISTY V VAZHAPPILLY	KTU- F13576		
23	Ms	ANNA JOSEPH	KTU-F14303		
24	Dr	BIJU C V	KTU- F13494		
25	Ms	VIDYA. V. MENON	KTU-F7338		
26	Ms	SANDHYA E	KTU-F 43865		
27	Dr	CIJIL B JOHN	KTU-F13125		
28	Sr	JESNA CATHERINE	KTU-F42541		
29	Ms	SUGANTHI T	KTU-F20428		
30	Mr	NICE MENACHERY	KTU- F11077		



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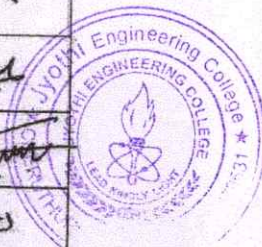
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S.No	Salutation	Name	KTU ID	02/02/2023	
				FN	AN
1	Dr	RENJITH V RAVI	KTU-F10724	<i>Renjith</i>	<i>Renjith</i>
2	Dr	JOHN CHEMBUKKAVU	KTU-F6709	<i>John</i>	<i>John</i>
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This is to certify that Dr./Prof./Mr./Ms. **SANDHYA E**

JYOTHI ENGINEERING COLLEGE of

the five-day Faculty Development Programme on "Outcome Based Education (OBE): Adopting Effective Pedagogy" sponsored by APJ Abdul Kalam Technological University and organized by Department of Mechanical Engineering, Jyothi Engineering College, Cheruthuruthy, from 30th January to 03rd February 2023.

Dr. Fr. Jose Kannampuzha

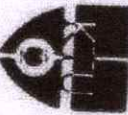
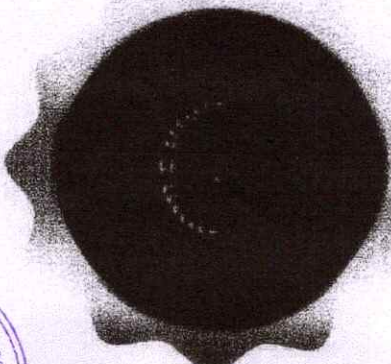
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Dr. Jose P. Therattil

Principal

Fr. Thomas Kakkassery

Executive Manager



Joseph

Dr. JOSE P. THERATTIL
Principal
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Dr. Fr. Jose Kannampuzha

CONFIRMED



Dr. Jose P. Therattil

Principal

Thomas Kakkassery

Fr. Thomas Kakkassery

Executive Manager

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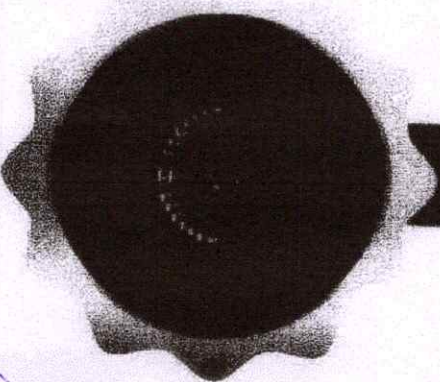
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Dr. Fr. Jose Kannampuzha

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Dr. Jose P. Therattil

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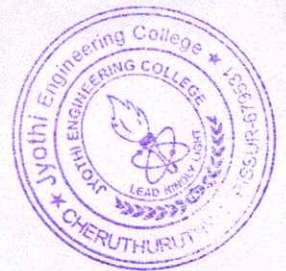
Fr. Thomas Kakkassery

Executive Manager

[Signature]

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**REPORT OF THE
FACULTY DEVELOPMENT
PROGRAMME
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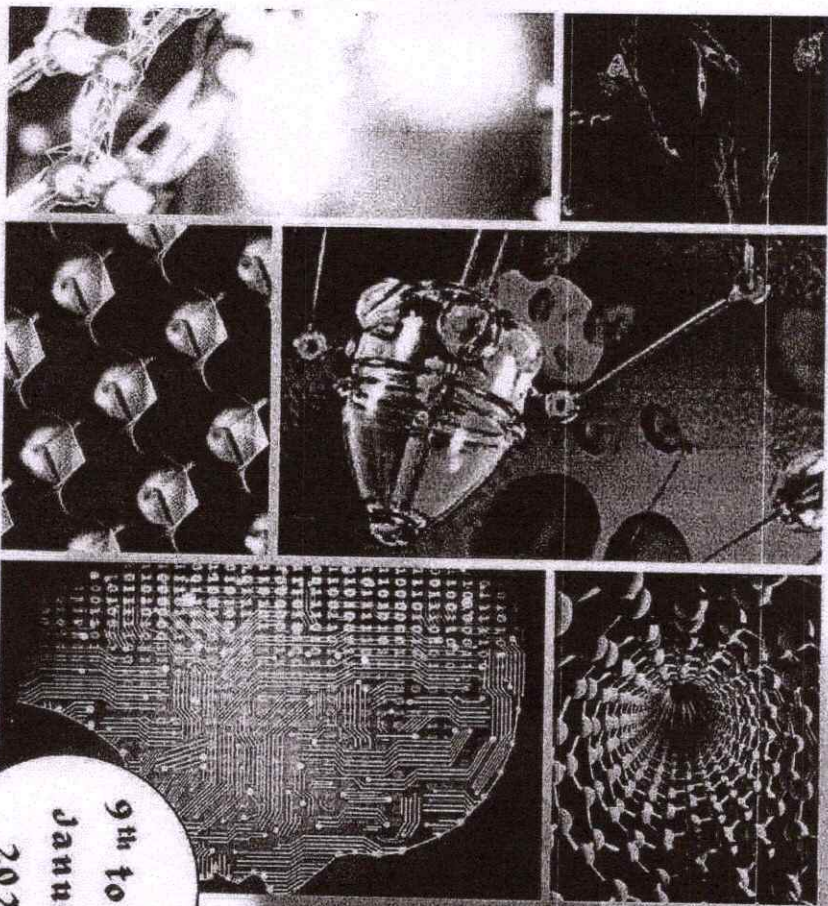


9th to 13th January 2023

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5 DAY OFFLINE FACULTY DEVELOPMENT PROGRAMME

NANOTECHNOLOGY



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DEPARTMENT OF MECHANICAL ENGINEERING
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PROGRAMME COORDINATORS:

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ASSOCIATE PROFESSOR, ME
9446393693

DR. S. KRISHNANUNNI

ASSISTANT PROFESSOR, ME
9037974084

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on

"NANOTECHNOLOGY"

9th to 13th January, 2023

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Certificates will be given to the registered
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HOD, ME

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(FDP)**

on

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9th to 13th January, 2023

Organized by

Department of Mechanical Engineering
Jyothi Engineering College, Thrissur



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Resource Persons

Dr. C. V. YELAMAGGAD (Chief Guest)
Scientist, Centre for Nano and Soft Matter Sciences (CeNS), Bangalore

Dr. SWAPNA S. NAIR
Professor, Dept. of Physics, Central University of Kerala, Kasargod

DR. ANAND H. S.
Associate Professor, Dept. of CSE, Muthoot Institute of Technology and Science

Dr. BINITHA N. N.
Professor, Dept. of Chemistry, University of Calicut.

Dr. SANDEEP KUMAR
Professor, Dept. of Chemistry, Mite Meenakshi Institute of Technology (MITM), Bangalore

Dr. MANJUNATHA PATTABI
Director, Dept. of Science & Technology, Mangalore University, Mangalore

Dr. PRADEEPAN PERIYAT
Associate Professor and HOD, Dept. of EUS, Kannur University

Dr. S. ANANDHAN
Professor, Dept. of Metallurgical and Materials Engineering, MIT Karnataka.

Dr. SASHI BHUSHAN ARYA
Assistant Professor, Dept. of Metallurgical and Materials Engineering, MIT Karnataka.

Dr. MOHAMMAD RIZWANUR RAHMAN
Associate Professor, Dept. of Metallurgical and Materials Engineering, MIT Karnataka.

Dr. A. O. SURENDRANATHAN
Retired Professor, Dept. of Metallurgical and Materials Engineering, MIT Karnataka.

Course Significance

Nanotechnology is a common word these days, but many of us do not realize the amazing impact it has on our daily lives. According to the United States National Nanotechnology Initiative, nanotechnology is "science, engineering, and technology conducted at the nanoscale, which is about 1 to 100 nanometers." One nanometer is a billionth of a meter, or 10^{-9} of a meter. For comparison, a sheet of newspaper is about 100,000 nanometers thick. Scientists have discovered that atoms and molecules behave differently at the nanoscale. It is also a rapidly expanding field. Scientists and engineers have great success in making materials at the nanoscale to take advantage of enhanced properties such as higher strength, lighter weight, increased electrical conductivity, and chemical reactivity compared to their larger-scale equivalents

Course Objectives

1. To make sense of nanotechnology.
2. To understand the smallness of nano scale.
3. To appreciate the impossibility of creating nano scale materials with macro scale tools.
4. Explore the applications of nanotechnology and how it is changing materials

Course Contents

1. Nano materials
2. Polymer Nano composites
3. Molecular Nano composites
4. Liquid Crystals
5. Environmental Biology
6. Nano technology from lab to industry
7. Green and Economical methods in Graphene synthesis
8. Nano fabrication by Electrospinning
9. Nanotechnology in concrete materials
10. Engineered nano systems for next generation sensing energy harvesting and medicine
11. Fundamentals of carbon nanostructure

About JEC

Jyothi Engineering College (JEC) set up in 2002, under the aegis of Trichur Educational Trust, founded by the Catholic Archdiocese of Trichur, is a leading Engineering College in Kerala. Jyothi Engineering College is NAAC accredited. The NAAC instrument is developed to objectively assess an grade institutions of higher education. Five of the undergraduate programs offered by Jyothi Engineering College have NBA accreditation. In order to help students become "job creators" rather than "job seekers", Jyothi Engineering College has also set up an Integrated Industrial Incubation Centre (IIC), in association with TAT. Technologies and Technology Business Incubator, JEC TBI, to create technology based new enterprises, foster an entrepreneurial spirit among students and commercialize R&D output. Additionally, Jyothi Engineering College offer a vibrant, beautiful, and green environmentally friendly campus, and excellent infrastructure for students, to aid the teaching and learning process.

About Department

The Department of Mechanical Engineering started functioning in 2004, two years after the inception of the College. Currently, the department offers a four year UG program in Mechanical Engineering and is affiliated to APJ Abdul Kalam Technological University. UG program in Mechanical Engineering attracts bright and aspiring students every year and is designed to provide solid foundations for careers in industry, research, and academia. The department has highly qualified, experienced and dynamic faculty members with specialization in Thermal Engineering, Machine Design, Materials Engineering, Advanced Manufacturing, Industrial Engineering and CAD/CAM. The department is equipped with most modern infrastructure and state-of-art laboratories to undertake high-end teaching, research and developmental activities. The department has well equipped infrastructure, department library computing facilities with the latest software like Pro-E, Catia Solid works etc. The department is vibrant with several activities, both academic and cultural round the year.

JYOTHI ENGINEERING COLLEGE

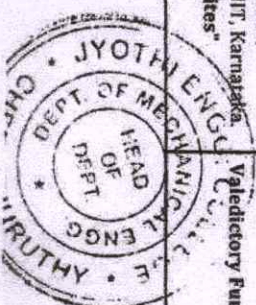
DEPARTMENT OF MECHANICAL ENGINEERING

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY SPONSORED

FIVE DAY OFFLINE FDP ON NANOTECHNOLOGY- 9th to 13th January 2023

PROGRAMME SCHEDULE

Day & Date	Forenoon Timing: 9.00am to 12.30pm (Tea Break : 10.30am to 10.45am)			Lunch Break (12.30pm to 1.00pm)	Afternoon Timing: 1.00pm to 4.00pm (Tea Break : 2.45pm to 3.00pm)		
Time	9.00 to 9.30 am	9.30 to 10.30 am	10.45 am to 12.30 pm		1.00 to 2.00 pm	2.00 to 3.00 pm	3.15 to 4.00 pm
DAY 1 09/01/2023	Registration	Inauguration	Dr. C. V. YELAMAGAD, FRSC, Scientist, Centre for Nano and Soft Matter Sciences (CENS) "Chiral plasmonic nanomaterials: Towards dreamy invisibility application"		Dr.SWAPNA S NAIR, Professor, Dept. of Physics, Central University of Kerala, Kasaragod "Engineered Nanosystems for next generation sensing energy harvesting and medicines"		
DAY 2 10/01/2023	DR. ANAND H. S. Associate Professor, Dept. of CSE, Muthoot Institute of Technology and Science "Artificial Intelligence Integration with Nanotechnology"				Dr. BINITHA N. N. Professor, Dept. of Chemistry, University of Calicut. "Green and Economic Methodologies in Graphene Synthesis"	Dr. SANDEEP KUMAR, Department of Chemistry, Nitte Meenakshi Institute of Technology (NMIT), Yelahanka, Bangalore "Self-assembling Supramolecular structures as Advanced Materials for Opto-electronics"	
DAY 3 11/01/2023	Dr. MANJUNATHA PATTABI Director, IQAC, Dept. of Science & Technology, Mangalore University, Mangalore "Biological Applications of Nanoparticles" and "Applications of thin films"				Dr. PRADEEPAN PERIVAT Associate Professor and Head of the Department, Kannur University "Nanotechnology from lab to industry"		
DAY 4 12/01/2023	Dr. S.ANANDHAN, Assistant Professor, Dept. of MME, NIT, Karnataka. "Synthesis, Properties and Applications of Electrospun Nanofibers"				Dr. SASHI BHUSHAN ARYA, Assistant Professor Grade I, Dept. of MME, NIT, Karnataka. "Development of bulk nanostructured Metallic alloy and its effect on corrosion and passivity"		
DAY 5 13/01/2023	Dr. MOHAMMAD RIZWANUR RAHMAN,Associate Professor, Dept. of MME, NIT, Karnataka. "Fundamentals of Carbon Nanostructure"				Dr. A.O. SURENDRANATHAN, Retired Professor, Dept. of MME, NIT, Karnataka. "Polymer Nanocomposites"	Valedictory Function	



Dr. A. O. Surendranathan
Head of Department
Jyothi Engineering College
Chertthuthiruthy - 679531

Invitation for Inauguration of Faculty Development Programme on "Nanotechnology"

Sponsored By



In association with Department of Mechanical Engineering
9th to 13th January 2023

Inauguration

Dr. C. V. Yelamaggad

*Scientist, Centre for Nano and Soft Matter Sciences
(CeNS), Bangalore*

9.30 AM. 9th Jan 2023

INSIGHT HALL



FDP COORDINATORS

Dr. Lawrance C A & Dr. S Krishnanunni



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Jyothi Engineering College
Cheruthuruthy, Thrissur - 679531
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Inauguration of Faculty Development Programme on "Nanotechnology"

Inauguration Schedule

Welcome Address	:	Dr. Biju C. V (HOD-ME) FDP Convenor
Address the audience	:	Dr. Jose P Therattil (Principal) Organizing Chairman
Inauguration	:	Lighting the lamp
Message by the chief guest:		Dr. C. V. Yelamaggad
Blessings	:	Fr. Thomas Kakkassery, Executive Manager
Felicitation	:	Fr. Dr. Jose Kannampuzha, Academic Director
Felicitation	:	Dr. V. M. Xaviour Registrar
Vote of Thanks	:	Dr. Lawrance C. A Course Coordinator



Dr. JOSE P. THERATTIL
Principal
Jyothi Engineering College
Cheruthuruthy - 679531



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Report of KTU Sponsored Faculty Development Programme

On

NANOTECHNOLOGY

(January 9th – January 13th, 2023)

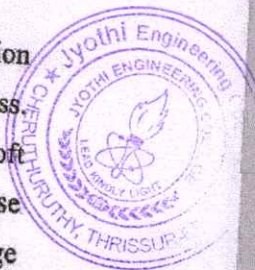
"NANOTECHNOLOGY" the KTU sponsored Five Day Faculty Development Programme was organized by the Department of Mechanical Engineering. The objective of FDP was to make sense of nanotechnology, understand the smallness of nano scale, appreciate the impossibility of creating nanoscale materials with macro scale tools and to explore the applications of nanotechnology and how it is changing materials. Nanotechnology is a common word these days, but many of us do not realize the amazing impact it has on our daily lives. According to the United States National Nanotechnology Initiative, nanotechnology is "Science, Engineering and Technology conducted at the nanoscale, which is about 1 to 100 nanometers." One nanometer is a billionth of a meter, or 10^{-9} of a meter. For comparison, a sheet of newspaper is about 100,000 nanometers thick. Scientists have discovered that atoms and molecules behave differently at the nanoscale. It is also a rapidly expanding field. Scientists and Engineers have great success in making materials at the nanoscale to take advantage of enhanced properties such as higher strength, lighter weight, increased electrical conductivity and chemical reactivity compared to their larger scale equivalents.

The five day sessions started with registration followed by an inauguration function at the Insight hall at 10.00 am, HOD, Dr. Biju C V delivered the welcome address. The programme was inaugurated by Dr. C V Yelamaggad, Scientist, Centre for Nano and Soft Matter Sciences (CeNS). Principal, Dr. Jose P Therattil and Academic Director, Rev. Dr. Jose Kannampuzha also addressed the gathering and motivated the participants to gain knowledge at its maximum level and to transfer them to the student community. Dr. Lawrance C A and Dr. S Krishnanunni were the FDP Coordinators.

Department of Mechanical Engineering



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Jose P



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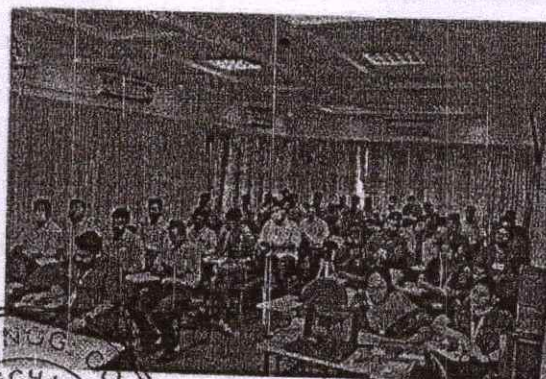
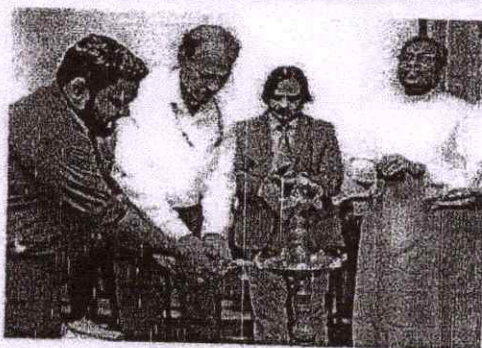
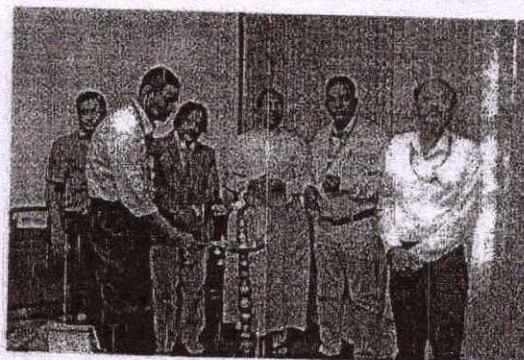
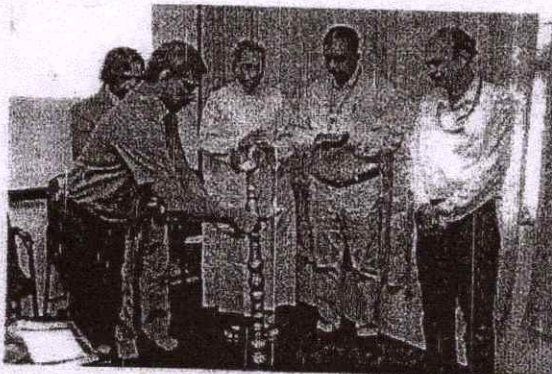
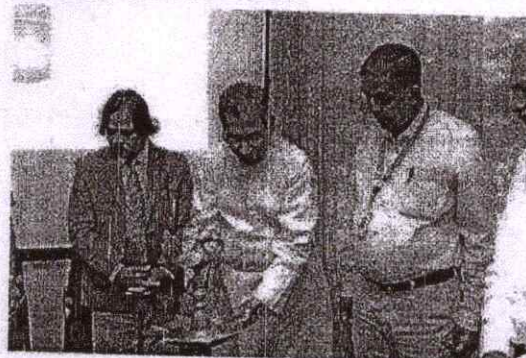
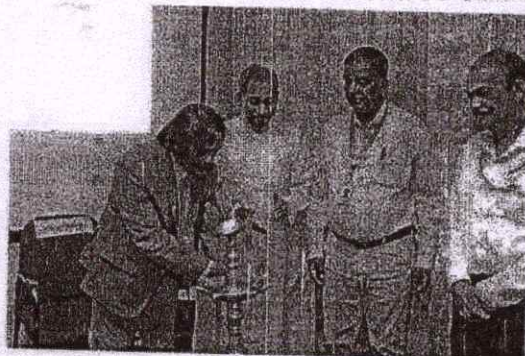
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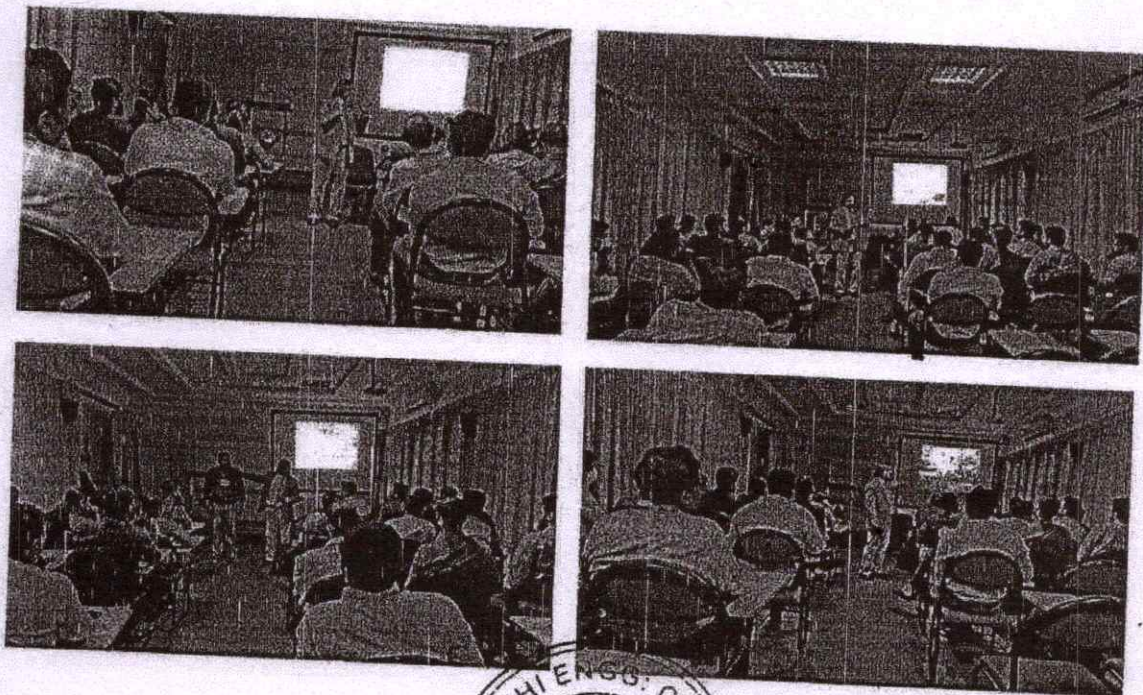
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Day 1 (Monday- 09/01/2023)

Session 1: "Chiral Plasmonic nanomaterials: Towards dreamy invisibility application".

Resource Person: Dr C V Yelamaggad, Scientist, Centre for Nano and Soft matter Sciences (CeNS)

The main topics covered in this session were Liquid Crystals, Nanomaterials and Soft nano composites. He also pointed out the scope and applications of Metamaterials. He brought polarisers and conducted the experiment on how the solid, liquid and liquid crystals behaves in plane polarised. It is seen in the experiment that Solids shows double refraction, Liquids shows fluidity and Liquid Crystals shows both double refraction and fluidity. Hence it is understood that Liquid crystal is a state of matter and its position will be in between Solid and Liquid. The session was very interesting and all the participants got more knowledge on the same.



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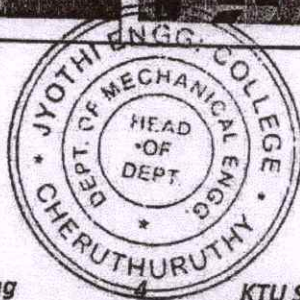
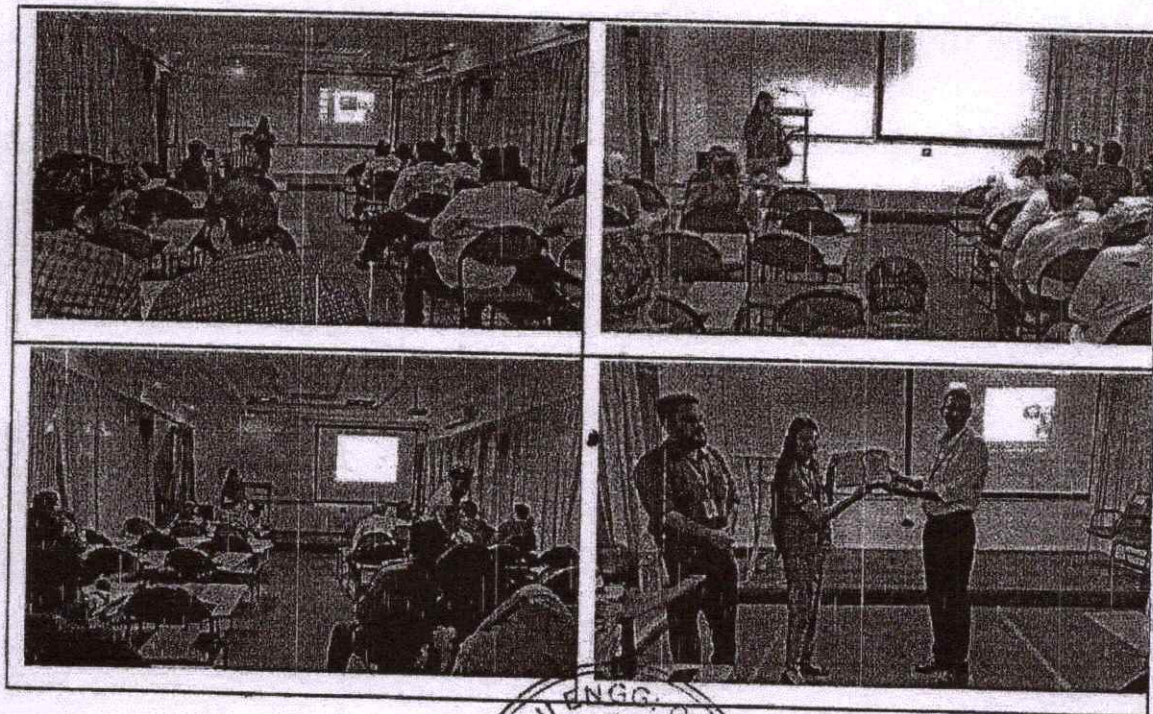


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Session 2: "Engineered Nanosystems for next generation sensing, energy harvesting and medicines."

Resource Person: Dr. Swapna S Nair, Professor, Dept. of Physics, Central University of Kerala, Kasaragod

In the second session resource person discussed Carbon NanoStructures, Definition of Nanomaterials similarly the properties of Nanomaterials. She said that Nanotechnology is mainly focussed in Fuel Cells, Solar Cells, Batteries and Capacitors. Explained in detail about the applications of Nanomaterials like Bio sensors, Bio COM Chip, Drug Delivery, Regenerative medicine etc. The session was wonderful and informative.



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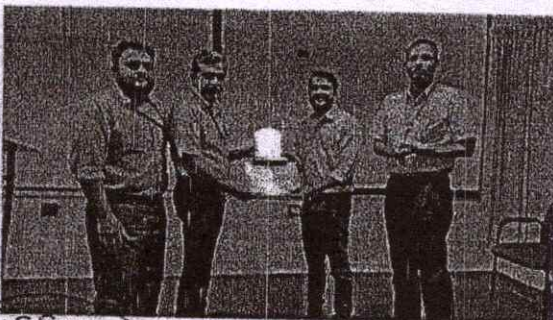
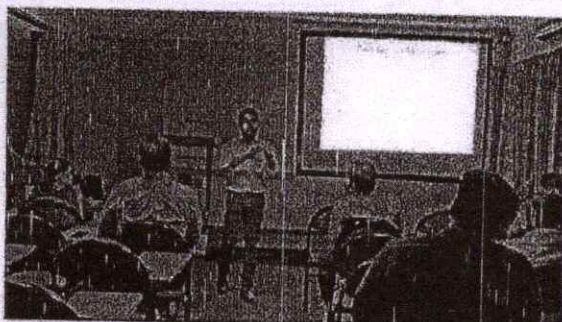
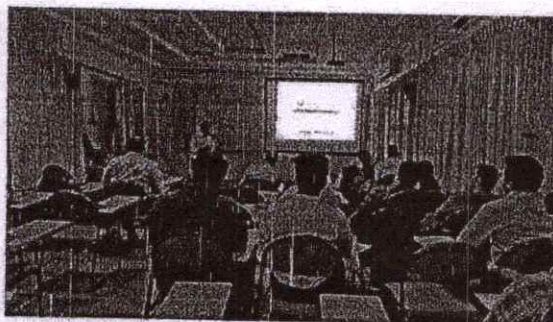
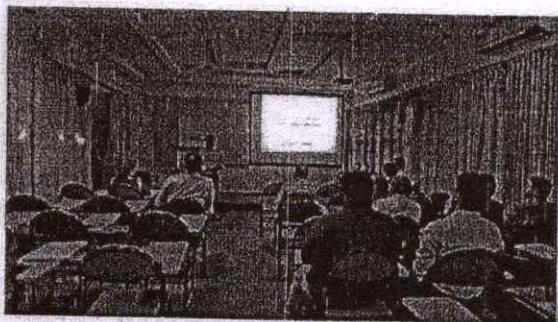
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Day 2 (Tuesday -10/01/2023)

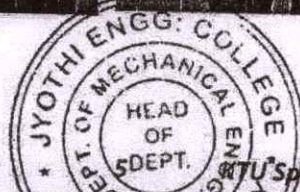
Session 1: "Artificial Intelligence Integration with Nanotechnology"

Resource Person: Dr. Anand H S, Associate Professor, Dept. of CSE, Muthoot Institute of Technology and Science

AI is being used, for instance, to understand carbon nanotube structures by quantifying structural qualities like alignment and curvature. There are many factors that must be considered in order to generate an image or a dynamic depiction of a chemical system. Up until recently, and as with the example of microscopy above, isolating these factors from the surrounding noise has been very difficult. AIs, however, are effective at this task. He also shared his experiences with Some institutes which helped us a lot in understanding the scope of the same. Session was very interactive.



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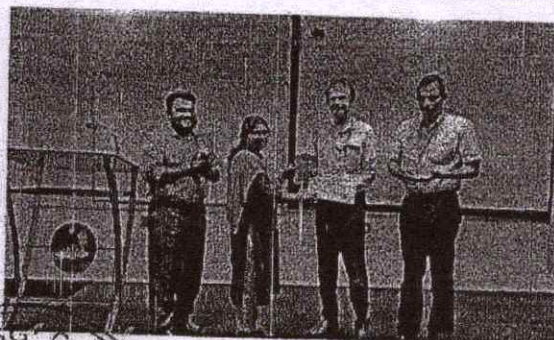
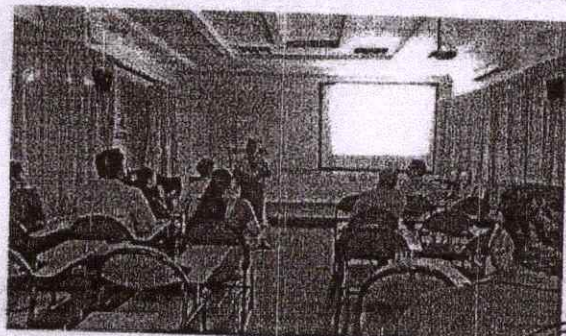
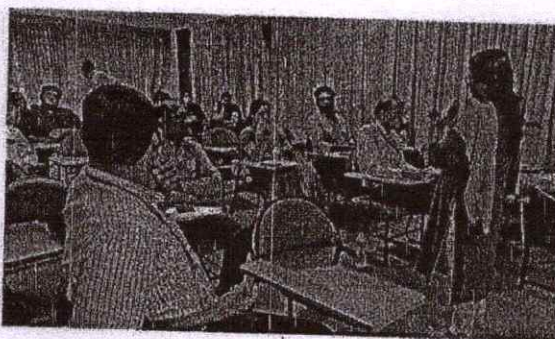
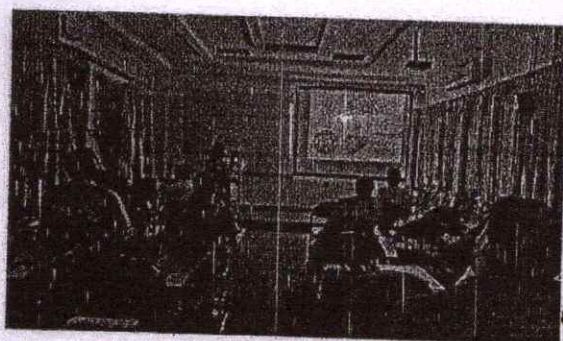
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Session 2: "Green and Economic Methodologies in Graphene Synthesis"

Resource Person: Dr. Binitha N N, Professor, Dept. of Chemistry, University of Calicut.

Resource person discussed the Carbon Nanostructures, Applications of Graphene and different methods for Graphene production. She said that if surface atoms are increased the property is also enhanced. In the case of Graphene all atoms are surface atoms. Graphene is fundamentally a two dimensional material with extraordinary optical, thermal, mechanical and electrical characteristics. It has a versatile surface chemistry and large surface area. It is a carbon nanomaterial, which comprises sp^2 hybridized carbon atoms placed in a hexagonal lattice with one -atom thickness, giving it a two -dimensional structure. The session was informative.



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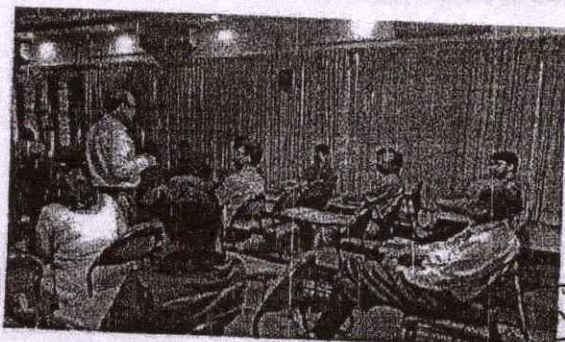
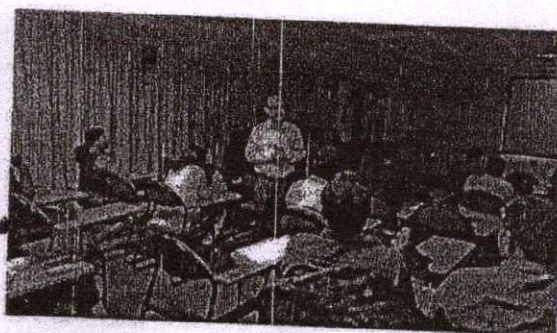
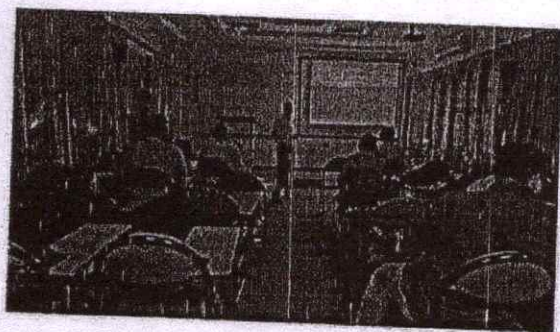
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Session 3: "Self-assembling Supramolecular Structures as Advanced Materials for Opto-Electronics"

Resource Person: Dr. Sandeep Kumar, Department of Chemistry, Nitte Meenakshi Institute of Technology (NMIT), Yelahanka, Bangalore

He pointed out that Supramolecular organic electronics rests on the use of bottom-up chemical self assembly phenomena in order to design components on the 5-100 nm Scale. The Challenges to take up in this field are both the construction of 1D-nanostructures displaying optimized charge transport properties and their insertion in optoelectronic devices. He also described several processing strategies to engineer and integrate them in (opto) electronic devices such as field effect transistors, light emitting diodes and organic solar cells.



Department of Mechanical Engineering



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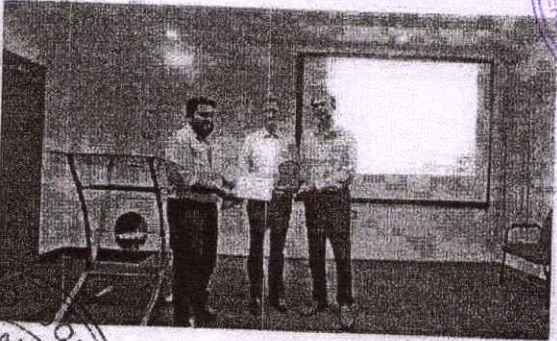
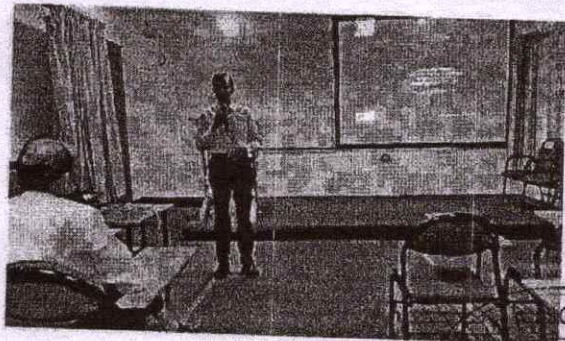
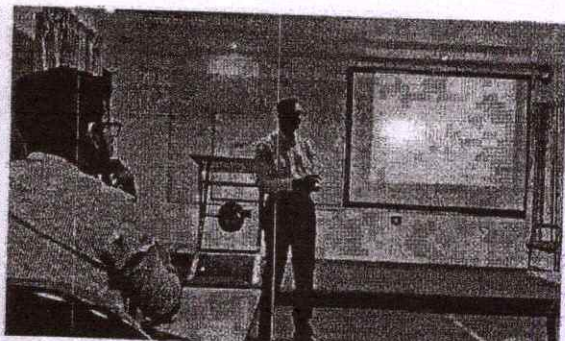
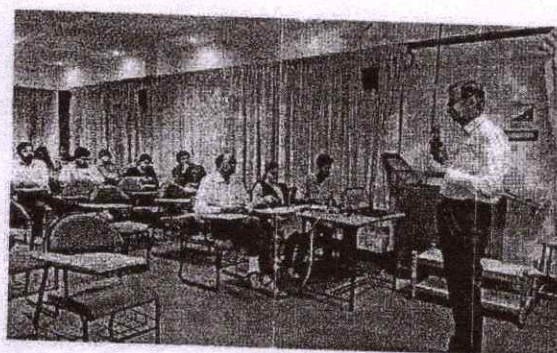


Day 3 (Wednesday -11/01/2023)

Session 1: "Biological Applications of Nanoparticles and Applications of Thin films"

Resource Person: Dr. Manjunatha Pattabi, Director, IQAC, Dept. Of Science and Technology, Mangalore University, Mangalore

He discussed Chemical and physical properties of Nanoparticles, Giant Magneto resistance, Tunnelling Magnetoresistance and transparent conducting films. Nanoparticles and thin films are currently among the most active research fields in material sciences for technological applications. The interest in nanoscale systems arises not only from the purpose of miniaturization, but also from the fact that new properties are emerging at this length scale and these properties change with their size, surface to volume ratio and shape.



Department of Mechanical Engineering



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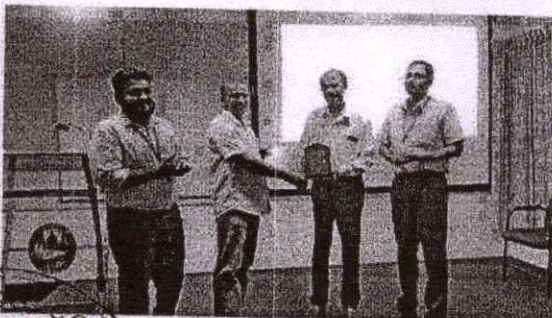
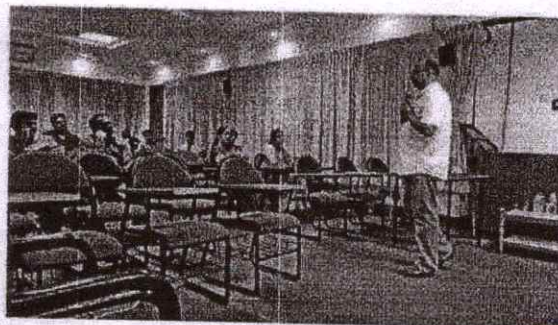
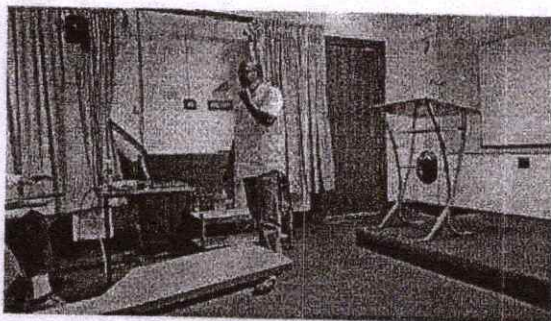
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Session 2: "Nanotechnology from Lab to Industry"

Resource Person: **Dr. Pradeepan Periyat**, Associate Professor and Head of the Department, Kannur University

Nanotechnology holds great promise and is hyped by many as the next industrial revolution. Medicine, food and cosmetics, agriculture and environmental health, and technology industries already profit from nanotechnology innovations and their influence is expected to increase dramatically in the near future. However, there are also many challenges that need to be overcome to bring a nanotechnological product or business to the market. The session was very much interesting with real world applications.



Department of Mechanical Engineering



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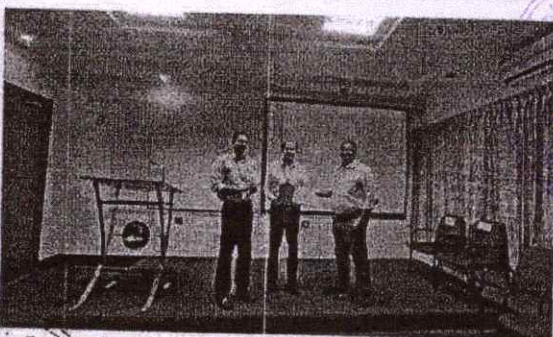
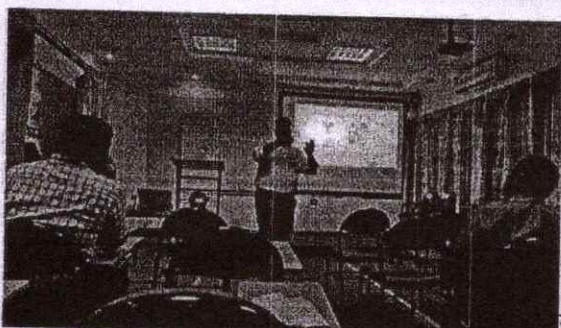
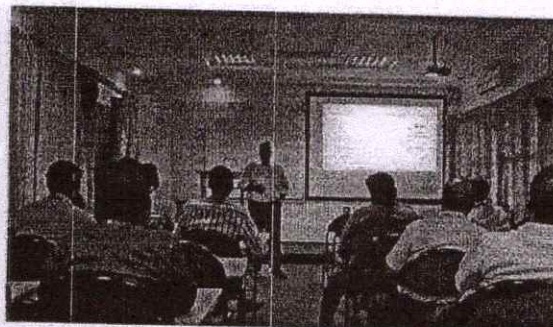
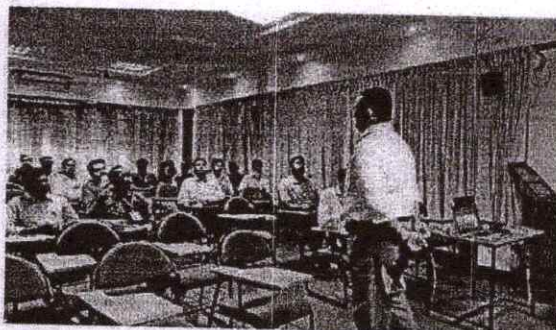


Day 4 (Thursday-12/01/2023)

Session 1: "Synthesis, Properties and Applications of Electrospun Nanofibres"

Resource Person: Dr. S Anandhan, Assistant Professor, Dept. of MME, NIT, Karnataka

Ceramic nanofibers have recently been developed for advanced applications due to their unique properties. Surface activity of electro spun ceramic NFs is improved by post pyrolysis, hydrothermal and carbothermal processes. Also, when combined with another surface modification method, electro spun ceramic NFs result in the advancement of properties and widening of the application domains. With the decrease in diameter and length of a fibre, many properties of fibrous materials are modified; characteristics of such ceramic NFs are different from their wide and long counterparts.



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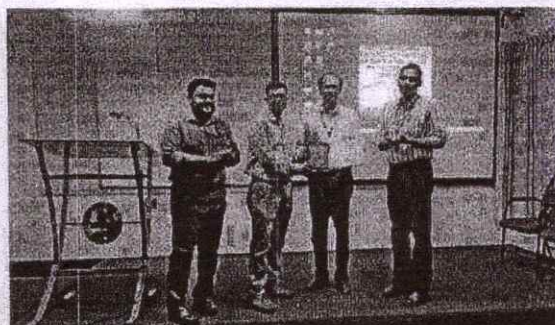
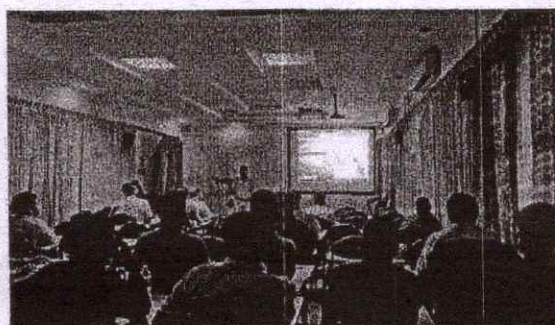
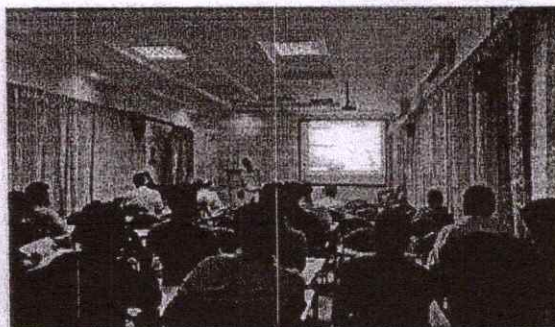


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Session 2: "Development of bulk nanostructured Metallic alloy and its effect on corrosion and passivity"

Resource Person: Dr. Sashi Bhushan Arya, Assistant Professor Grade 1, Dept. of MME, NIT, Karnataka

Resource person discussed corrosion, reasons to know corrosion engineering etc. He also showed some real word case studies about corrosion. It helped us a lot for understanding the dangerous situation of corrosion. The session was interactive & informative.



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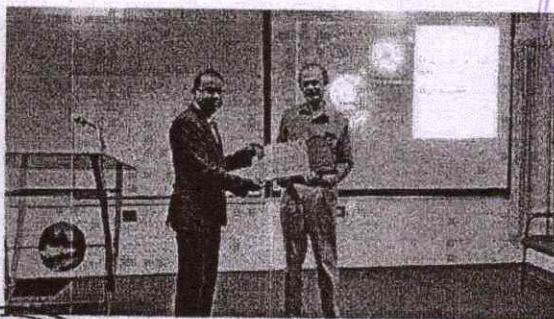
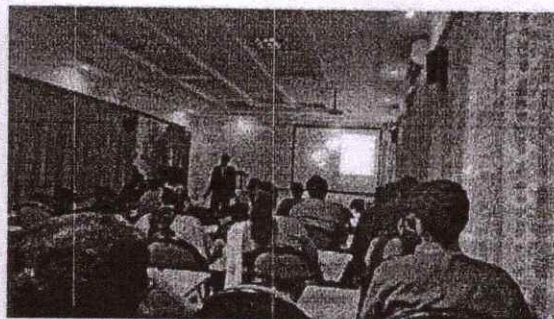
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Day 5 (Friday -13/01/2023)

Session 1: "Fundamentals of Carbon Nanostructure"

Resource Person: **Dr. Muhammad Rizwanur Rahman**, Associate Professor, Dept. of MME, NIT, Karnataka

With the carbon nanostructures proving their widespread application in the development of sustainable technologies, during the past three decades research efforts have been devoted to the development of a variety of synthesis methods. Among the various synthesis methods, chemical vapour deposition and arc discharge have been reported to be economically viable on an industrial scale. He also pointed out the unit cell construction of Carbon Nanotubes.



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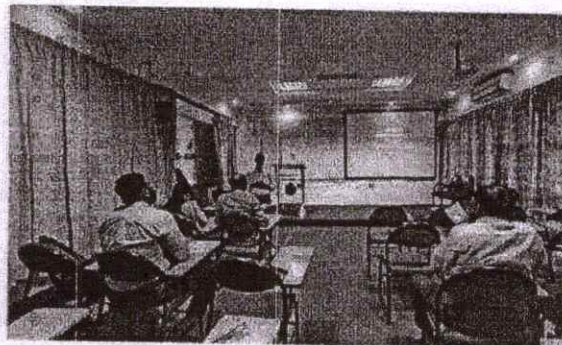
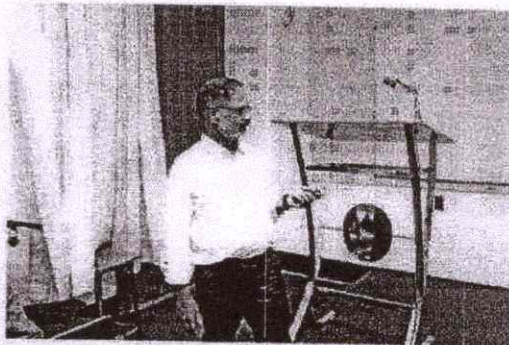


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Session 2: "Polymer Nanocomposites"

Resource Person: **Dr. A. O. Surendranathan**, Retired Professor, Dept. of MME, NIT, Karnataka

He told that in the field of nanotechnology, one of the most popular areas for current research and development are polymer nanocomposites, and the investigation field covers a broad range of topics. This would include nanoelectronics, polymeric bio nanomaterials, reinforced PNCs, nanocomposite-based drug delivery systems etc.





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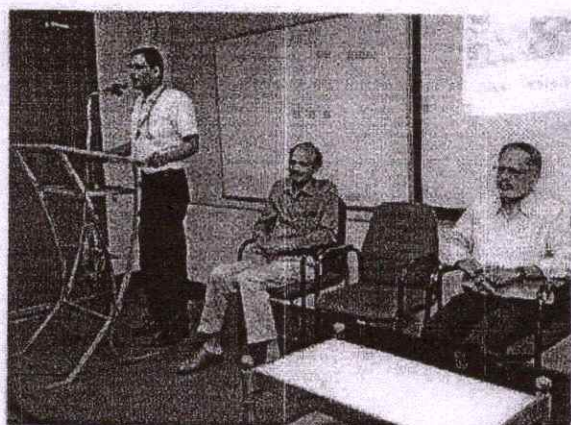
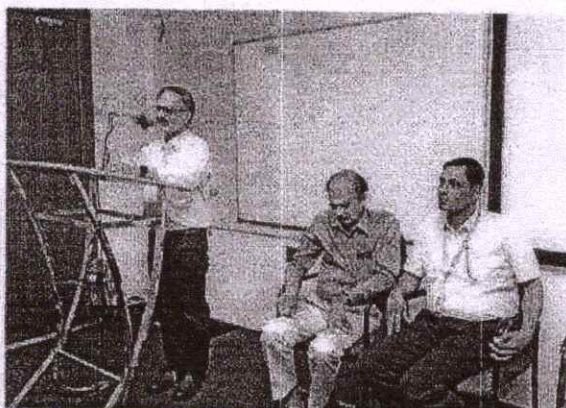
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Total of 30 participants (24 External Participants and 6 in-house participants) attended the FDP. External Participants includes faculty from Government, Aided and Self financing Institutes. Last session was followed by a Valedictory function which was inaugurated by Dr. A O Surendranathan, Retired Professor, Dept. of MME, NIT, Karnataka. Rev. Dr. Jose Kannampuzha distributed certificates to all the participants.





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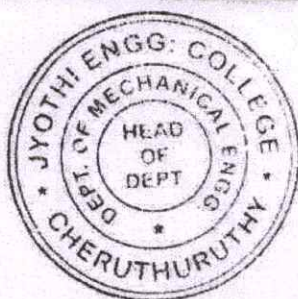
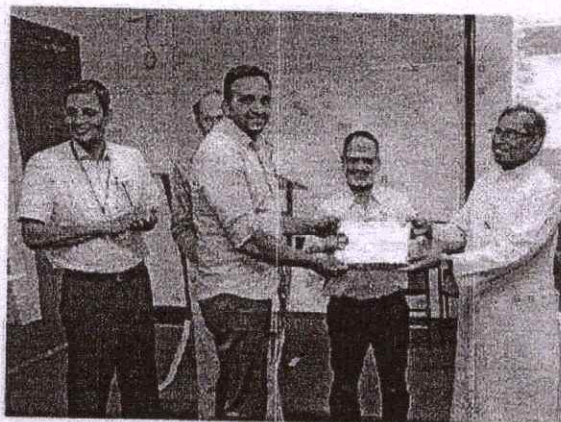
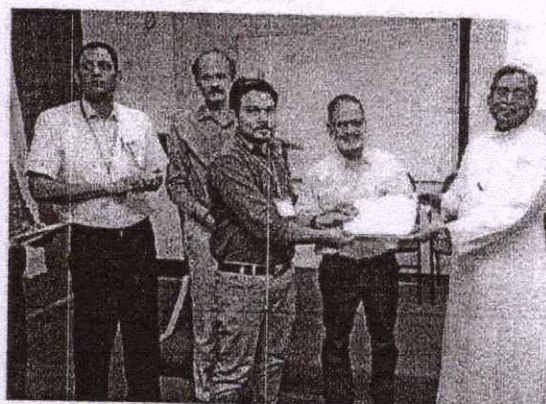
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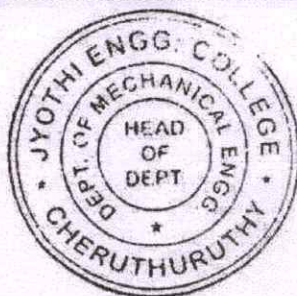
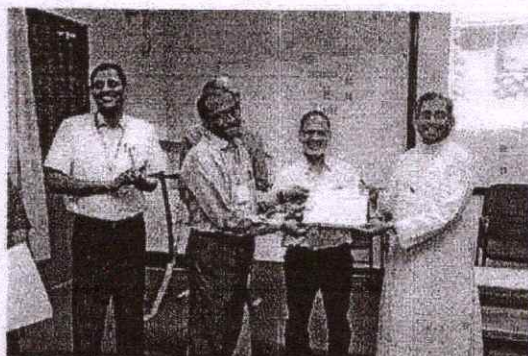
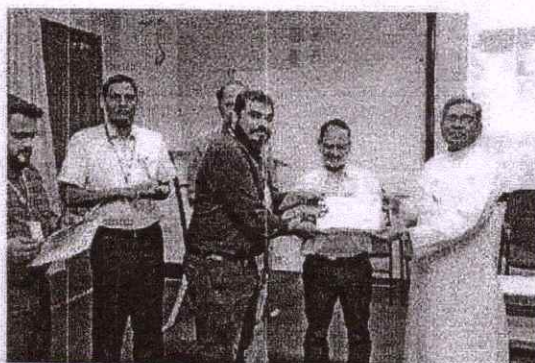
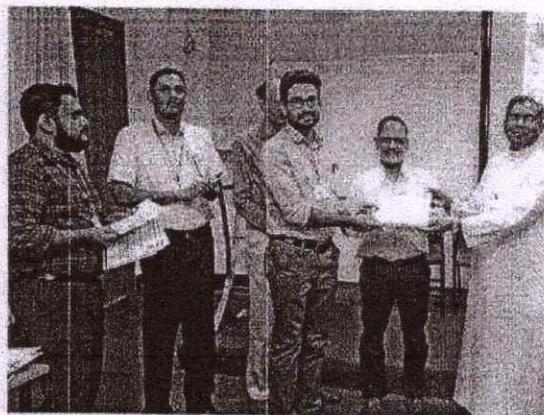
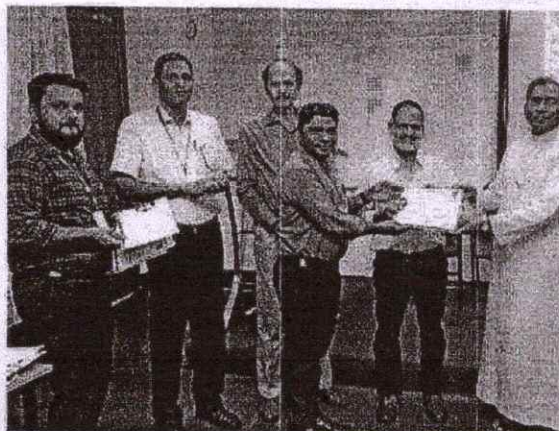
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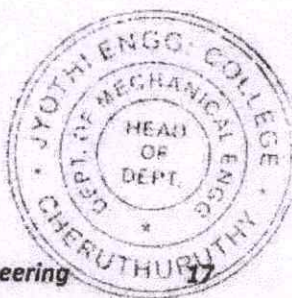
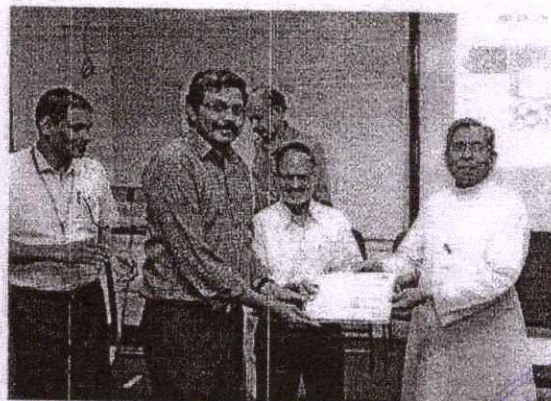
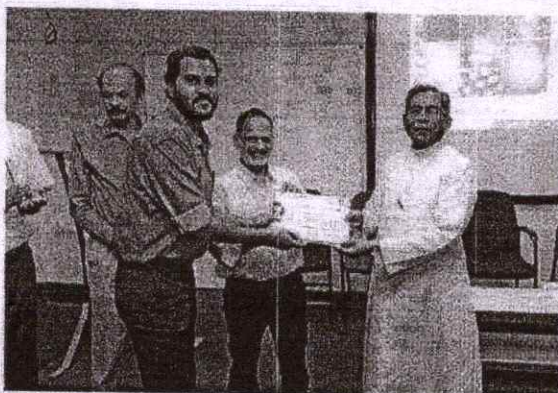
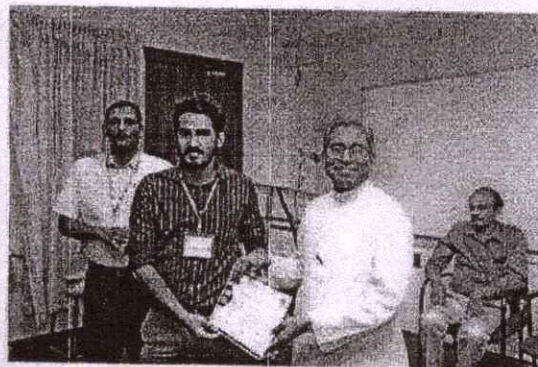
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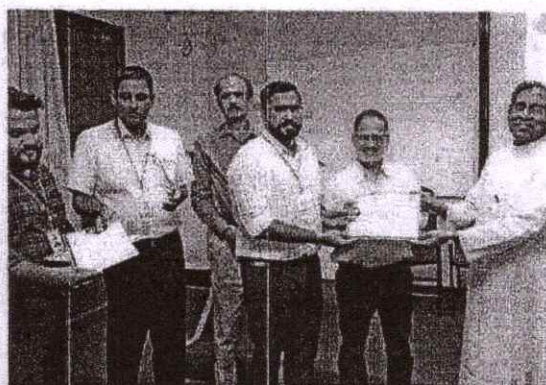
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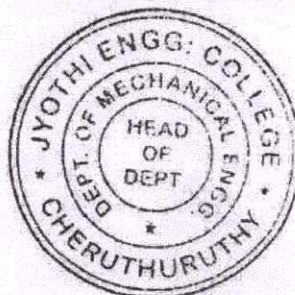
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Valedictory function ends with distributing certificates and mementos to the coordinators, convenor and the active participant's.



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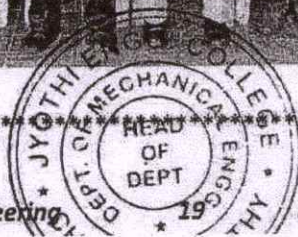
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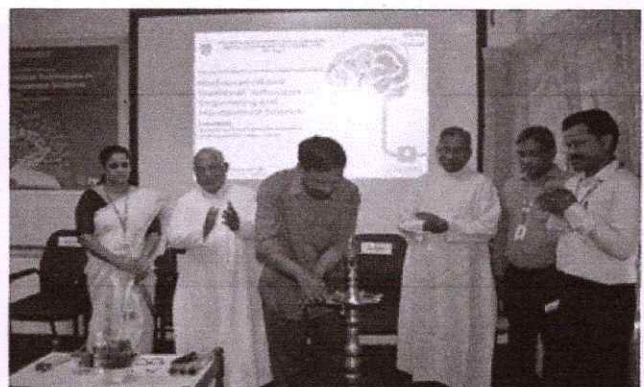
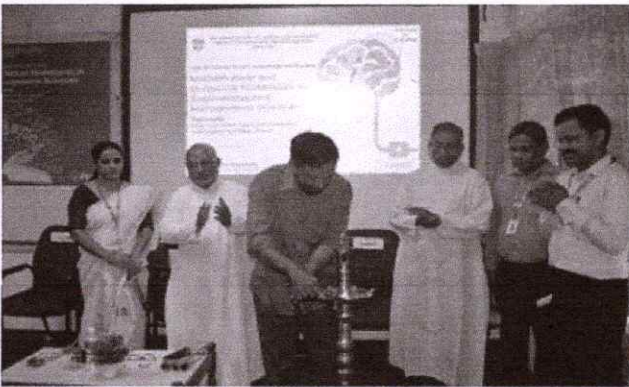
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Inauguration Photos



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Day - 1 FN (Monday 13-02-2023)

Session 1: "A talk on statistical Inference"

Resource Person : Dr. P.G Sankaran

(Professor and Pro Vice Chancellor Department of Statistics, CUSAT, Kerala, India)

The resource person started the session by explaining simple life situations where statistical inference is applied (pharmaceutical, anthropology, business etc). The main topics covered included deductive, inductive approach, parametric and non parametric approach using graphical representations. He also explained the methods of estimation namely point estimation, interval estimation, pivotal quantity method and sampling distributions. The session also covered the topics confidence interval, testing of hypothesis, non parametric estimation, goodness of fit, test for independence and homogeneity and Kruskal –Wallis test. The session was highly informative and interesting.



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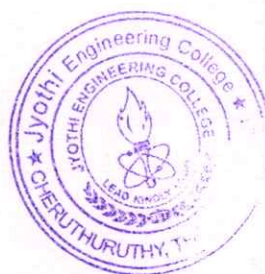
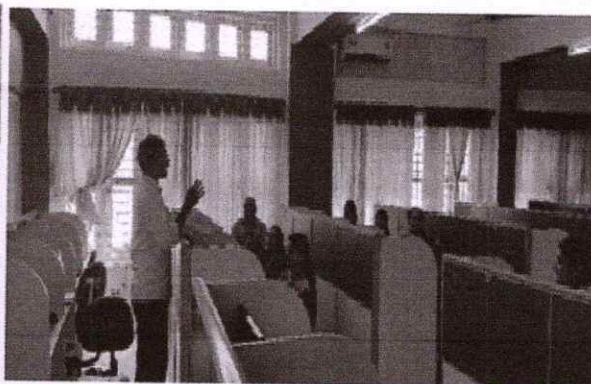
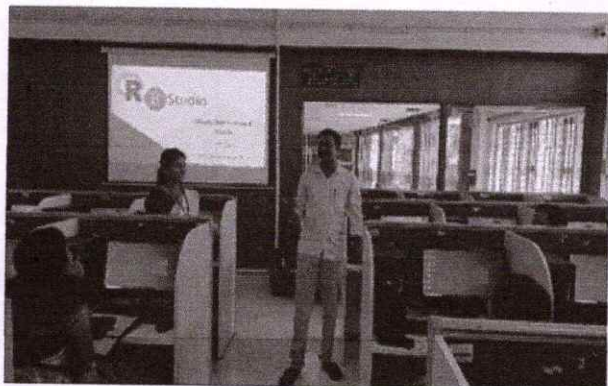
Day - 1 AN (Monday 13-02-2023)

Session 2: "Introduction to R Programming "

Resource Person : Dr Jerin Paul

(Assistant Professor, Department of Statistics , Vimala College, Thrissur, Kerala, India)

The resource person gave a brief history of R programming which included features of R, introduction to R studio, R as a calculator, variable assignment and printing. He also explained basic programming in R/R studio which consisted of basic arithmetic operations. He also gave a detailed practical session on installing a package in R and loading a package to R .The hands on training session was highly useful to the participants.



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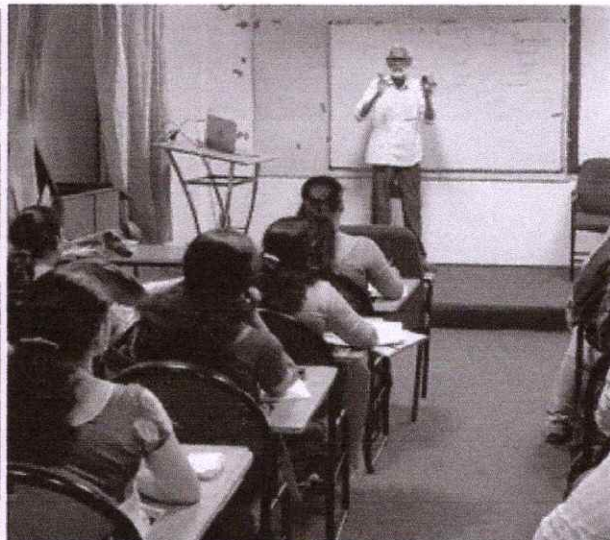
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Day - 2 FN (Tuesday 14-02-2023)

Session 1: “Queues, Inventory, Queuing-Inventory and Reliability Modeling ”

Resource Person : Prof Achyutha Krishnamoorthy
(Emeritus Professor, CMS College Kottayam, Kerala, India)

The resource person explained the relevance of queues and inventory in engineering and other branches of study. The topics covered in the session included stochastic process, Markov chain, Markov process, Poisson process, Queues, Inventory and Queuing –Inventory systems. He gave a simple derivation the probability of the number of customers by time t in a Poisson process. Then he explained about queuing systems and their characteristics. He further discussed the different types of queues namely $M/M/1$, $M/M/c$ etc. The session also covered the topic Reliability and queuing models. The session was highly informative.



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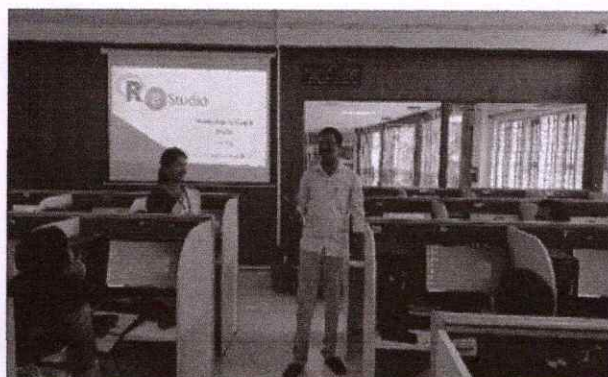
Day 2 AN (Tuesday 14-02-2023)

Session 2: "Introduction to R Programming "

Resource Person :Dr Jerin Paul

(Assistant Professor , Department of Statistics ,Vimala College ,Thrissur ,Kerala ,India)

The hands on training session on R programming included methods to import data set in xlsx format, procedure to import data set into R studio , creating frequency tables, labeling the variables , drawing basic diagrams in R/R studio (Bar diagram, Pie chart ,Histogram etc).He also explained R-functions and the basic syntax of R functions. The session was very interesting and interactive. He cleared the doubts of the participants.



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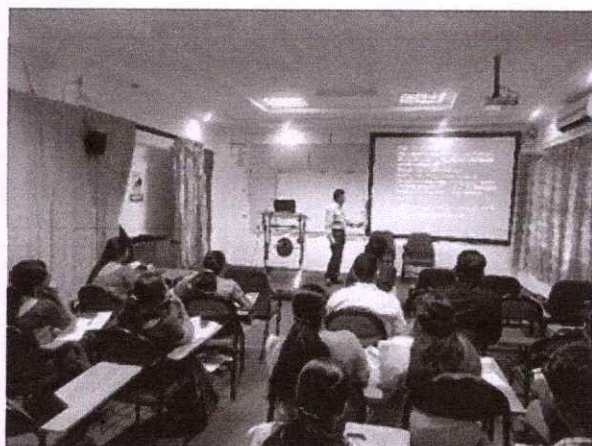
Day - 3 FN (Wednesday 15-02-2023)

Session 1: "Some Aspects of stochastic processes"

Resource Person :Dr M.Manoharan

(Professor & Member of Syndicate, Department of Statistics, Calicut University, Kerala, India)

The resource person started with explaining the basic theory and applications of stochastic processes, covering fundamental aspects. The session included the topics Stationary processes, Processes with stationary and independent increments, Markov processes and Renewal processes. In the session the speaker explained the formulation of a stochastic process, Analytic definition FDD, Daniell-Kolmogorov theorem, Poisson processes, exponential function, PASTA and Gauss Markov process. The speaker also gave a brief summary of Renewal theory and Stochastic modeling with examples. The session concluded with alternating Renewal process and the light bulb example of an inspection paradox.



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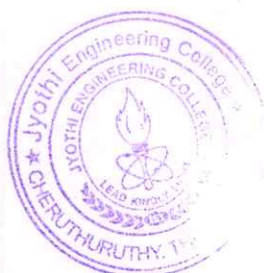
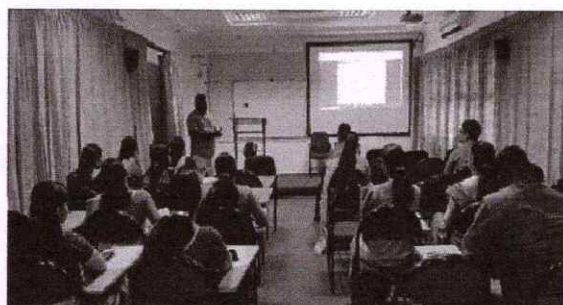
Day 4 FN (Thursday 16-02-2023)

Session 1: "Introduction to Statistical Computing Methods"

Resource Person : Dr Joby K Jose

(Registrar, Kannur University Department of Statistics, Kannur University, Kerala, India)

The speaker explained that the fundamental tools required in computational statistics are the ability to stimulate random variables from specified probability distributions. In the session the resource person covered the topics which included Monte Carlo Integration, Monte Carlo methods in inference, Markov chain Monte Carlo methods. The speaker also gave a detailed description about MSE percentiles, law of Large numbers, Central limit theorem, Bias and MSE standard error of a sample proportion, multi variate Normal distributions, finite mixture models with graphical representations and in R programming steps. The speaker concluded the session by explaining estimation of MSE of trimmed mean, MCMC methods, Hastings sampler and the Gibbs sampler.



Jose

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Principal
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Cheruthuruthy - 679531



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

JYOTHI HILLS, VETTIKATTIRI P.O., CHERUTHURUTHY, THRISSUR, 679531 | Ph. +91 4884 259000 | info@jecc.ac.in | www.jecc.ac.in



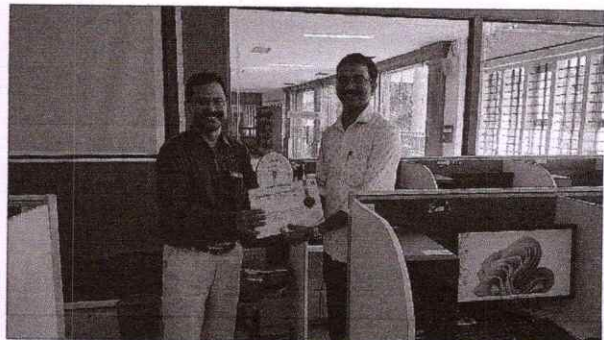
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Day 4 AN (Wednesday 16-02-2023)

Session 2: "Analysis of variance"

Resource Person : Dr Jenson P.O (Professor, Jyothi Engineering College, Thrissur, Principal (Retired), St .Thomas College, Thrissur)

The resource person began with stating that analysis of variance is a powerful statistical tool for tests of significance .In a situation where there are three or more samples to consider at a time ,the technique of Analysis of variance is used. The speaker explained that the total variation in any set of numerical data is due to a number of causes which may be classified as assignable causes and chance causes. Later the speaker explained the validity of F-test in ANOVAs, Randomized design (CRD) and Randomized Block design (RBD),Latin square design(LSD) and factorial design .The session was highly informative.



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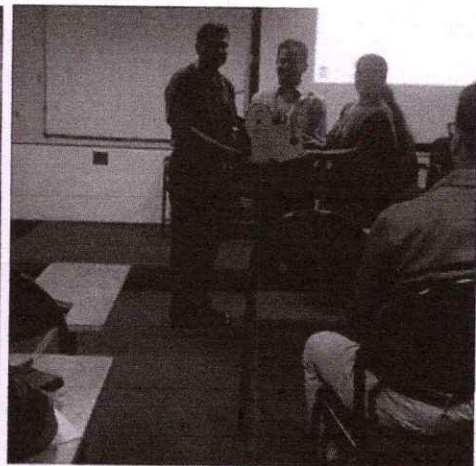
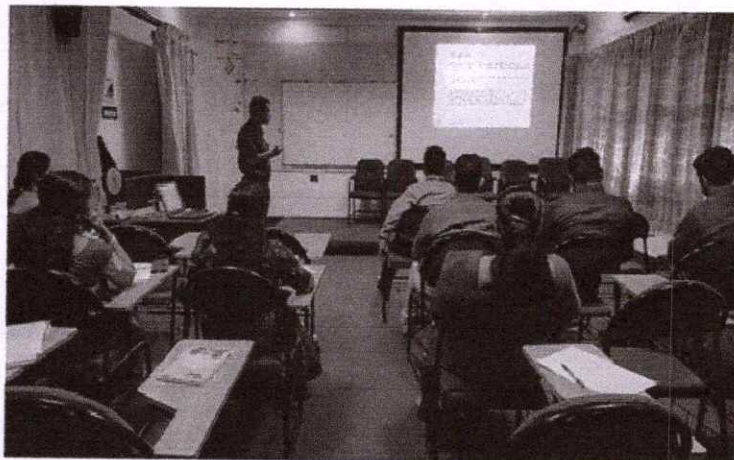
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Day 5 FN (Friday 17-02-2023)

Session 1: "Probability based design : Probability models and statistical methods "

Resource Person : Dr. S. M Sunoj

(Head, Department of Statistics, CUSAT, Cochin, Kerala, India)



Jose P

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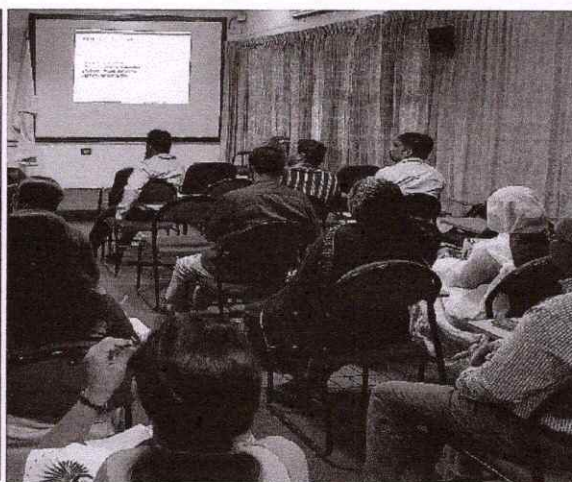
*NBA reaccredited BTech Programmes in Civil Engineering, Computer Science and Engineering, Electronics and Communication Engineering, Electrical and Electronics Engineering and Mechanical Engineering valid till 2025

Day 5 AN (Friday 17-02-2023)

Session 1: "Application of Statistics in Economics"

Resource Person : Dr. Baby C B

(Professor, Department of Basics Science and Humanities , JECC, Thrissur, Kerala, India)



Jose P

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REINVENTING THE PROCESS OF TEACHING LEARNING

Three-day Faculty Development Programme

06.08.2022 to 08.08.2022

Venue: Yuvakshetra Institute of Management Studies,
Mundur, Palakkad, Kerala, 678631.



CREATING TECHNOLOGY
LEADERS OF TOMORROW
ESTD 2002

Joseph
Dr. JOSE P. THERATTIL
Principal
Jyothi Engineering College
Jyothi
Engineering College

About Jyothi Engineering College

Jyothi Engineering College (JEC), set up in 2002, under the aegis of Trichur Educational Trust, founded by the Catholic Archdiocese of Trichur, is one of the leading engineering colleges in Kerala. This college is affiliated to Kerala Technological University and offers various B.Tech, M.Tech, Ph.D programmes in Engineering and Technology. The Archdiocese of Trichur has an illustrious track record of a century and a quarter in the education sector.



Jyothi Engineering College is a NAAC reaccredited institution with Grade 'A'. Five of the undergraduate programs offered by Jyothi Engineering College have NBA accreditation, which indicates that we are well recognized for the quality of education we offer. We are periodically evaluated for this stringent NBA accreditation criteria to ensure we sustain the mandated quality levels.

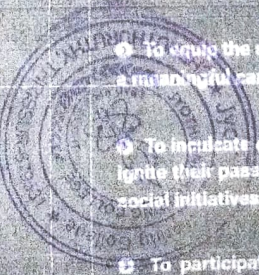
The worlds of study and work have changed dramatically. Students of today require different sets of skills than those of previous generations. We are in the midst of the fourth industrial revolution and the predictions are that 85% of the jobs that will exist in 2030 have not been invented yet.

Jyothi Engineering College prepares students to become T-Shaped professionals, i.e., professionals who have in-depth expertise in their discipline as well as a breadth of competencies required in the 21st century. In order to train our students to become "T" shaped professionals, so that they are "future ready", we have set up an incubation centre, Integrated Industrial Incubation Centre (IIIC), in association with TATA Technologies.

Additionally for students desirous of being "job creators" rather than "job seekers", Jyothi Engineering College has also set up a Technology Business Incubator, JEC TBI, to help students create technology based new enterprises, foster an entrepreneurial spirit among students and commercialize R&D output.

Jyothi Engineering College offers a vibrant, beautiful, and green environmentally friendly campus, and excellent infrastructure for students, to aid the teaching and learning process. For more information visit www.jecc.ac.in

 Vision	 Mission
Creating eminent and ethical leaders through quality professional education with emphasis on holistic excellence.	<ul style="list-style-type: none">1 To emerge as an institution par excellence of global standards by imparting quality engineering and other professional programmes with state-of-the-art facilities.
Motto Creating Technology Leaders of Tomorrow	<ul style="list-style-type: none">2 To equip the students with appropriate skills for a meaningful career in the global scenario.3 To inculcate ethical values among students and ignite their passion for holistic excellence through social initiatives.4 To participate in the development of society through technology incubation, entrepreneurship and industry interaction.


JOSE P. THEATHIL
Principal
Jyothi Engineering College
Cheruthuruthy - 679531

Forat

PROGRAMME SCHEDULE

1st Day – 6th August 2022 (Saturday)

Session 1 (10.30 AM – 1 PM)

Resource Person : *Dr. T. C. Thankachan*

Topic: *21st Century –Learners and Learning Style*

Session 2 (2 PM – 3 PM)

Resource Person : *Dr. T. C. Thankachan*

Topic: *Session on 21st Century –Learners and Learning Style Continues*

Session 3 (3.30 PM – 6 PM)

Resource Person : *Fr. Bobby Jose Kattikad*

Topic: *Masters as consciousness*

Session 4 (7 PM – 9 PM)

Resource Person : *Mr. Vineesh K. I.*

Topic –*Yoga*

2nd day – 7th August 2022 (Sunday)

6 AM– 7 AM – Holy Mass

7 AM – 9 AM – Yoga

Session 1 (10 AM –1.30 PM)

Resource Person : *Dr. Thomas George*

Topic: *Dealing with Gen –Z students*

1.30 PM– 2.30PM – Lunch break

Session 2 (2.30 PM – 4.30 PM)

Resource Person : *Dr. Chandra Sekhar*

Topic: *Paradigm shift in handling engineering students.*

5 PM – 6 PM – Break

Session3 (6 PM – 8 PM)

Resource Person : *Dr. Balamourougane R.*

Topic: *Radiant thinking : Where is your sketch pen?*

8 PM – 9 PM – Break

9 PM – 11 PM – Cultural Program

3rd day – 8th August 2022 (Monday)

7 AM – 9 AM – Yoga

Session1 (10 AM – 12.05 PM)

Resource Person : *Mr. Joe A. Scaria*

Topic: *Teachers as leaders*

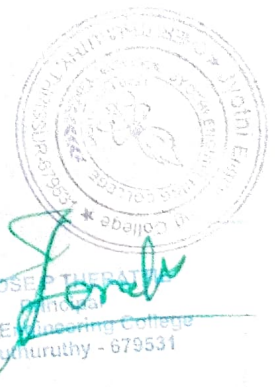
Session 2 (12.15 PM – 1.30 PM)

Resource Person : *Dr. Thomas George*

Topic: *How to make sessions interesting for the students?*

1.30 PM – 2.30 PM – Lunch Break

2.30 PM – 3.30 PM – Valedictory Function



Overview of the Faculty Development Programme

The Faculty Development Programme provides a platform for improving teaching – learning outcomes. This initiative shall be of great benefit for Jyothi Faculty to contribute to the process of evolving effective strategies for student development. This Faculty Development Programme focuses on enabling faculty to understand their strengths and weaknesses and to be more specific on skill sets. This ensures the ability to become effective facilitators for learning. The sessions include Various types of learners and their learning styles, Dealing with Gen –Z students, Making sessions interesting for the students, Paradigm shifts in handling engineering students etc. They also help in improving social skills necessary for collaboration, professional growth, personnel management, and leadership. Practice sessions on Yoga are arranged considering the health and well being of the participants.

Organizing Committee

Chief Patron

His Grace Mar Andrews Thazhath

Archbishop of Trichur Archdiocese

Patrons

Rev. Msgr. Jose Konikkara – Manager

Rev. Fr. Thomas Kakkassery – Executive Manager

Rev. Dr. Jose Kannampuzha –Director of Academics

Dr. Sunny Joseph Kalayathankal – Principal

Prof. Ratnan P. – Vice Principal

Coordinators

Prof. Dr. Jose P. Therattil

H.O.D. – Electronics & Communication Engineering

Prof. Jasmin Jose

H.O.D. – Basic Science and Humanities



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Principal
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Sl	NAME	GENDER	DEPT
1	Fr.Thomas Kakkassery	MALE	Admn
2	Fr. Jose Kannampuzha	MALE	Admn
3	Fr. Ajeesh Babu Perinchery	MALE	Admn
4	Fr. David Nettikkadan	MALE	Admn
5	Antony Joseph	MALE	BSH
6	Aswathy P. M.	FEMALE	BSH
7	Bibin Joy	MALE	BSH
8	Jasmine Jose	FEMALE	BSH
9	Nidhin Johnson	MALE	BSH
10	Niyya Wilson	FEMALE	BSH
11	Renju Francis	FEMALE	BSH
12	Rich K.J	MALE	BSH
13	Sandhya E.	FEMALE	BSH
14	Sivakumar K.S.	MALE	BSH
15	Suganthi T	FEMALE	BSH
16	Viji E.P.	FEMALE	BSH
17	Anju M.J	FEMALE	CE
18	Dr. Alwyn Varghese	MALE	CE
19	Dr. Jacob Chandapillai	MALE	CE
20	Jeffy Johny	FEMALE	CE
21	Neeraja P.G	FEMALE	CE
22	Rosmi Sebastian	FEMALE	CE
23	Soorya M Nair	FEMALE	CE
24	Aneesh Chandran	MALE	CSE
25	Aswathy Wilson	FEMALE	CSE



26	Bineesh M	MALE	CSE
27	Dr. Adarsh N. Gokul	MALE	CSE
28	Dr. Saiju P. John	MALE	CSE
29	Dr. Swapna B. Sasi	FEMALE	CSE
30	Lufiya George	FEMALE	CSE
31	Ninu Francis	FEMALE	CSE
32	Parvathy Jyothi	FEMALE	CSE
33	Sajitha I.	FEMALE	CSE
34	Shaiju Paul	MALE	CSE
35	Sobha Xavier P.	FEMALE	CSE
36	Sonia A. Joseph	FEMALE	CSE
37	Thomas George K	MALE	CSE
38	Ambily Francis	FEMALE	ECE
39	Dr. Anoop V	MALE	ECE
40	Dr. Gaswin Kastro G.	MALE	ECE
41	Dr. Jose P Therattil	MALE	ECE
42	Dr. Prajoon P.	MALE	ECE
43	Dr. Sindhu S	FEMALE	ECE
44	Drisya M.K	FEMALE	ECE
45	Neethu Rose Thomas	FEMALE	ECE
46	Ponmani Raja	MALE	ECE
47	Saritha P	FEMALE	ECE
48	Sr. Jesna Catherine	FEMALE	ECE
49	Dr. Jarin T	MALE	EEE
50	Dr. Shijoh V	MALE	EEE
51	Jenson Jose	MALE	EEE
52	Jithin K Jose	MALE	EEE



Jyothi

53	Kapil Das K.S	MALE	EEE
54	Navin Sam D.	MALE	EEE
55	Ratnan P.	MALE	EEE
56	Soumya C	FEMALE	EEE
57	Anto Zacharias	MALE	ME
58	Christy V. Vazhappilly	MALE	ME
59	Dr. Anandakrishnan N.	MALE	ME
60	Dr. Gijil B John	MALE	ME
61	Dr. S. Krishnanunni	MALE	ME
62	Hareesh N.V	MALE	ME
63	Manoj Kumar V.K	MALE	ME
64	Melvin Raj C.R.	MALE	ME
65	Sukesh O.P.	MALE	ME
66	Dr. Anoop Jose Chittappilly	FEMALE	MR
67	Dr. Vivek Lukose	MALE	MR
68	Nyni K.A	FEMALE	MR
69	Dr. C. Karthik	MALE	RA



Jose

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

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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.



Session 2 (2.30P.M. - 4.30P.M.)

Resource Person : Dr. Chandra Sekhar

Topic: Paradigm shift in handling engineering students.

5P.M. – 6P.M. - Break

Session3 (6 P.M. – 8 P.M.)

Resource Person : Dr.Balamurugane

Topic: Radiant thinking : Where is your sketch pen?

8P.M. – 9P.M. -Break

9P.M. –11P.M. - Cultural Program

3rd day - 8th August 2022 (Monday)

7A.M. – 9A.M. - Yoga

Session1 (10A.M. – 12.05P.M.)

Resource Person : Mr. Joe A. Scaria

Topic: Teachers as leaders

Session 2 (12.15P.M.–1.30P.M.)

Resource Person : Dr. Thomas George

Topic: How to make sessions interesting for the students?

1.30P.M.-2.30P.M. - Lunch Break

2.30P.M. – 3.30P.M. - Valedictory Function



Dr. JOSE P THERATTIL
Principal
Jyothi Engineering College
Cheruthuruthy - 679531

Report on Faculty Development Programme
'Reinventing The Process of Teaching Learning'

Organized by Jyothi Engineering college, Cheruthuruthy, Thrissur-679531

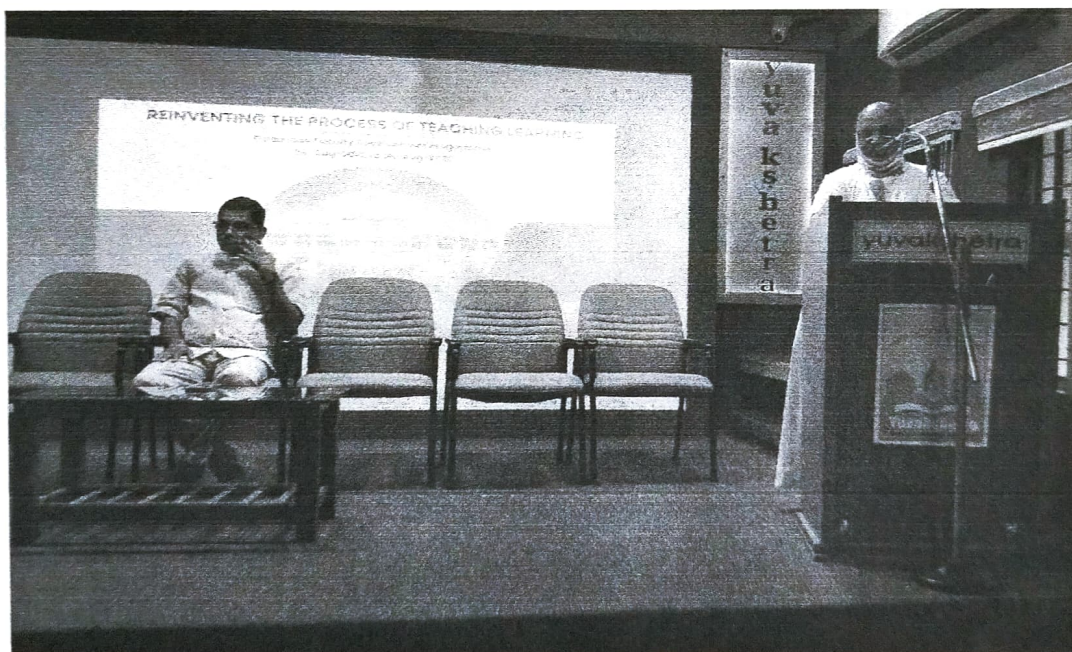
Date: 06 Aug 2022 to 08-Aug-2022

Venue: Yuvakshetra Institute of Management Studies

Mundur, Palakkad, Kerala-678631

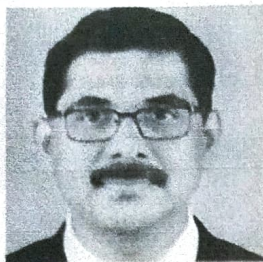
Inauguration: 6th Aug 2022, 10.30 am.

The three-day faculty development programme was inaugurated by Rev.Fr Thomas Kakkasserry, Executive Manager, Jyothi Engineering College. In his inaugural address he pointed out the importance of such programmes and congratulated all the participants and organizers of the programme.



Inauguration of the FDP by Rev. Fr. Thomas Kakkasserry


Dr. JOSE P THERATTIL
Principal
Jyothi Engineering College
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Day 1, 6 - August 2022 (Saturday)

Session 1 and 2


Resource Person: Dr. T. C. Thankachan.

Topic: 21st Century –Learners and Learning Style

Dr. T. C. Thankachan, Associate Professor in Education, St. Thomas College of Teacher Education, Pala, Kerala joined in permanent service in 2005. The area of interest in teaching are; education, social science, educational technology, guidance and counselling, research, value education, peace education, etc. Presently, he is handling four subjects in the college; contemporary India and education, knowledge and curriculum, language across the curriculum, gender school and society. He has teaching and research guidance experience in the Department of PG Studies in Education (M. Ed), St. Thomas College of Teacher Education, Pala since 2005. The career objective of Dr. T. C. Thankachan is to become an inspiring humanistic teacher educator with a difference – intellectually competent, emotionally stable, socially efficient, spiritually mature, physically strong, morally upright, technically advanced, culturally refined, and internationally liberal.

In his talk, Dr. Thankachan spoke about the learning styles of 21st century learners and learning styles. The talk was very informative and interactive. Dr. Thankachan also shared his insights about Digital Generation – Natives/Immigrants, Teaching-Learning and Digital Platforms, SMART Learner, Managing the 21st Cy Learners and Contemporary Teaching Methods.

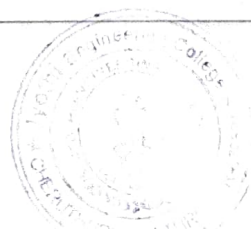
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	<p>Day 1, 6 - August 2022 (Saturday)</p> <p>Session 3</p> <p>Resource Person: Fr. Bobby Jose Kattikad Topic: Masters as consciousness</p>
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Fr. Bobby Jose Kattikad popularly known as 'Bobbyachan' or 'Fr. Bobby Jose Capuchin' is a Roman Catholic priest from Order of Friars Minor Capuchin in India, known for his preaching and especially evangelization through television, radio and other media. He founded Theo Publications in 2002, which publishes many books related to spirituality. Fr. Bobby is also author for many books which gained popularity around spirituality of malayalam speaking world. The television preaching programs called Gurucharanam in Shalom TV India and many other programs are led by him. Those programs are reported to have large number of viewers. He also leads growth retreats which is conducted all over the world among Malayali communities. For a long time, he was associated with conducting growth retreats in San Pio retreat centre, Kovilthottam, Kollam. Fr. Bobby was appointed as the first director and guardian of the retreat centre. He is an editor and contributor for a magazine called Theo Manusyasnehi. Fr. Bobby was born at Thumpoly Alappuzha district in 1968.

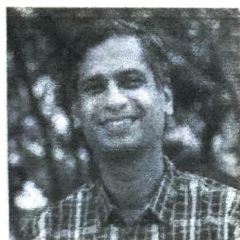
Rev. Fr. Bobby Jose Kattikad starts his session by putting the idea of becoming a master, not only in the physical level; but also, in the literal stage through becoming a real master who encourage the students. He emphasises on the importance of converting oneself into rivers through various propaganda. The relevance of finding out the master inside oneself and exploring the talent is a point stresses throughout the session.

	<p>Day 1, 6 - August 2022 (Saturday)</p> <p>Session 4</p> <p>Resource Person: Mr. Vineesh K. I Topic: Yoga</p>
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[Signature]
Principal
Jyothi Engineering College
Cheruthuruthy - 679531

Mr. Vineesh K. I is a Skilled Yoga Instructor certified in Ashtanga Yoga and familiar with hatha yoga, vinyasa, traditional Indian martial arts as Kalarippayattu, Self defense techniques, Mixed martial art and Thai chi old yang styles. Builds effective relationships with students of all backgrounds and skill levels. Hardworking, dedicated and supportive with excellent communication and problem-solving abilities. He is Trained in different martial art forms. He conducted sessions on basis of self defense. He conducted yoga demonstrations in different places for the promotion and spreading of yoga. He has worked in an international yoga tutorial CD taken by Sri.Dileep Yoga and holistic trainer.



Day 2, 7 - August 2022 (Sunday)

Session 1 & 3

Resource Person: Dr. Thomas George

Topic: Dealing with Gen Z Students



Joseph Therattil
Dr. JOSE P. THERATTIL
Principal
Jyothi Engineering College
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Dr. Thomas George K, had his Engineering Degree in Electronics and Communication and did MBA in Systems, further he pursued M.Sc. in Applied Psychology, M. Phil in Psychology, M.Phil in Management and obtained his Doctorate on the thesis 'Enhancing Competencies of Engineering and Management Students' from Bharathiar University. In 1994, he started his professional career as an entrepreneur of a startup computer firm called Prompt Computers who have developed India's largest touch screen network for Indian Railways.. He is the Chief Mentor of 'Turning Point' – a 6-day life skill training programme which is widely recommended by many management specialists. LEAD College of Management is one of the institutions that stands out from the rest with its unique methodologies in education .He is currently the Chairman of NIPM (National Institute of Personnel Management) Palakkad Chapter, Executive member at ASMIK (Association of Self-Financing Management Institutions in Kerala, Secretary at AMICU (Association of Management Institutions under Calicut University) and Treasurer at VISWAS (Victims, Sensitization, Welfare and Assistance).

The resource person divided the faculties into various groups in order to find out the challenges face by teachers to handle new generation students. He proposed some suggestions to overcome these challenges in an effective manner. As a first step, teachers have to change their attitude and teaching methodology while handling these students.

	Day 2, 7 - August 2022 (Sunday) Session 2 Resource Person: Dr. Chandra Sekhar Menon Topic: Paradigm Shift in Handling Engineering Students
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Jose P

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Dr. R. Chandrasekhar Menon, a healthcare professional turned renowned professor having core competency in business Analytics, Healthcare Management and Management education. Dr. Menon started his career with M/s. Sarabhai Chemicals in analytical side of healthcare marketing in 1977 and groomed to the position of heading a global conglomerate M/s. B. Braun AG. Dr. Menon became the first overseas head for the international operation for its PGPM program at Knowledge village Dubai for the prestigious M/s. S.P.Jain Centre of Management in 2000.. He has been Dean Kalasalingam University and now Founder Director of M/s.Swift MBA a business Analytics organization specialized in healthcare analytics and also visiting faculty to IIMs and IMT. He has published 23 International and 18 national articles with Scopus Index and enjoying high citations. His academic credentials include Ph.D. from Washington University, U.S.A, M. Phil in Environmental Economics Madras University, Master's degree in Sociology, Economics, Psychology, Public administration, and a Fellowship in Advanced Marketing (FAM) from International Institute of Advanced Marketing, LL. B from Siddhartha College of Law Mumbai, PGDBA from University of Calicut (First Class and First Rank Holder), and B.Sc., from Govt. Victoria College, Palakkad.

Dr. Chandra Sekhar discussed about the issues faced by the engineering students such as language proficiency, lesser industry interaction, lesser exposure to reality etc. He changed our thought to break the existing norms and methods to a modern one. He also emphasizes that better thinking can make changes in one's feeling to convert that into successful actions. He addresses teachers as good facilitators and instructor to use the new pedagogy in teaching. The session comes to an end with the note on the importance of self-management necessary to a learner.

Cultural events



Joseph
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Principal
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	Day 3, 8- August 2022 (Monday)
	Session 1
	Resource Person : Mr. Joe A. Scaria
	Topic : Teachers as Leaders

Joe A Scaria is a Journalist, Trainer , Speaker and an Author. He worked around 4 decades as editors in Indian Express and Economic times and has worked all across the country He is basically from Bharananganam Changanaserry. He now teaches journalism students , gives talks on media and socio economic trends, and conducts workshops for corporate leaders.

Mr. Joe A Scaria distinguished the ideas of real and academic life by adding more points regarding the topic. It was a motivational session that encouraged the audience to utilize the present moment and he also talks about identifying the open levels and professionalism in new teaching learning process. He motivated the teachers to be the reason for changes in the coming generations.



	Day 3, 8- August 2022 (Monday)
	Session 2
	Resource Person : Dr.Balamurugane
	Topic : Radiant thinking : Where is your sketch pen?

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He has around 20 years of teaching experience in handling management and accounting subjects under various streams like engineering, management subjects under various streams like engineering, management and computer applications. His expertise is in HRM and he has obtained three post-graduation degrees from two central universities and he was awarded PhD in the area of HRM in specific to QWL and Family Enrichment. As he is passionate about student engagement, he learned the art of mind-mapping in academics and experimented the same in enriching the student's memory for a better outcome and also among the faculty memories through FDPs. His publications are listed in ABDC, Scopus and UGC listed Journals.



Valedictory Function

A handwritten signature in blue ink, appearing to read "Jorabr", located in the bottom right corner of the page.

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