



**St. JOSEPH'S COLLEGE OF ENGINEERING**  
OMR, Chennai – 600119  
**Department of Electronics and Communication  
Engineering**



**Report on Online Faculty Development Program on “JAVA and PYTHON”**

**Held on 22.05.2020 and 23.05.2020**

## BROCHURE



**St. JOSEPH'S COLLEGE OF ENGINEERING**  
St. Joseph's Group of Institutions  
OMR, Chennai – 119





**Quality Improvement Cell**  
In Association with  
**Spoken tutorial Project Team**  
**IIT-Bombay, MHRD, Govt. of India**

**Jointly Organize**

**FACULTY DEVELOPMENT PROGRAMME**  
**On JAVA and PYTHON**  
**22-05-2020 & 23-05-2020**

Registration can be done through the following links  
**JAVA** : <https://forms.gle/xaV1s9fyXp2t8ZwA6>  
**PYTHON** : <https://forms.gle/LsWpiBhA1YCMmpBF6>

- **No registration fee** for the participants
- Study materials will be provided after the confirmation of registration
- **E - Certificate** will be issued to all participants by Spoken Tutorial Team, IIT Bombay, MHRD Govt. of India
- Selection on First Come First Served basis
- Last date for registration: **18.05.2020 till 12.00 Noon**

**Patrons**

**Dr. B. Babu Manoharan** M.A, M.B.A, Ph.D  
Chancellor, St. Joseph's Group of Institutions

**Mr. B. Shashi Sekar**, M.Sc  
Director

**Mrs. S. Jessie Priya**, M.Com  
Managing Director

**Dr. Vaddi Seshagiri Rao** M.E., M.B.A, Ph.D  
Principal

**Dr. B. Parvathavarthini** M.E., Ph. D  
Dean

**Program Coordinator**  
**Dr. E. Avudainammal** M.E, Ph.D  
Professor, Dept. of SCE  
Mob: 9884384568  
Email: qcsjce@gmail.com

**Online Faculty Development Program on “JAVA and PYTHON”** conducted during **22/05/2020** and **23/05/2020** by **Quality Improvement Cell, St. Joseph’s College of Engineering**, in association with **Spoken Tutorial Project Team, IIT-Bombay**. We collected feedback from our participants and it is observed that they have found the program to be useful and informative. We distributed E-certificate issued by IIT Bombay to the participants through their registered mail id on **27.5.2020**.

**JAVA –22.5.2020**

- Total Number of Faculty Attended : 122
- No. of St. Joseph’s Faculty : 12
- Number of External faculties : 110
- No. Of Colleges participated : 49

**PYTHON- 23.5.2020**

- Total Number of Faculty Attended : 158
- No. of St. Joseph’s Faculty : 34
- Number of External faculties : 124
- No. Of Colleges participated : 72

**SAMPLE CERTIFICATES**



**Certificate of Participation**

This is to certify that **B ANKAYARKANNI** participated in the **Java** training organized at **St. Joseph’s College of Engineering (Kanchipuram)** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Java** were covered in the training. This training is offered by the Spoken Tutorial Project, IIT Bombay, funded by the National Mission on Education through ICT, MHRD, Govt. of India.

May 22nd 2020

*Prof. Kannan M. Sundaresan*  
**Prof. Kannan M Sundaresan**  
 IIT Bombay



**Certificate of Participation**

This is to certify that **HANI MARY SHENIHA D.J.** participated in the **Python 3.4.3** training organized at **St. Joseph’s College of Engineering (Kanchipuram)** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Python 3.4.3** were covered in the training. This training is offered by the Spoken Tutorial Project, IIT Bombay, funded by the National Mission on Education through ICT, MHRD, Govt. of India.

May 23rd 2020

*Prof. Kannan M. Sundaresan*  
**Prof. Kannan M Sundaresan**  
 IIT Bombay



**St. JOSEPH'S COLLEGE OF ENGINEERING**  
OMR, Chennai – 600119  
**Department of Electronics and Communication  
Engineering**



**A Report on Three Day Faculty Development Program**  
**‘MEDICAL SIGNAL AND IMAGE ANALYSIS’**  
**15<sup>th</sup> June – 17<sup>th</sup> June 2020**

An online three day Faculty development program on ‘Medical Signal and Image Analysis’ was successfully conducted by the department of Electronics and Communication Engineering for faculty, research scholars and students from 15<sup>th</sup> June 2020 to 17<sup>th</sup> June 2020. The program was conducted using Google meet app. On the first day, the participants were briefed about topics of the FDP and the importance of each topic. Each day, there were two sessions, one in the morning from 10.00 am to 11.00 am and the other in the evening from 4.00 pm to 5.00 pm. Resource persons from Industries and Reputed Universities presented their knowledge in recent research topics.

We had both national and international Participants. National participants include people from Punjab, Ghaziabad, Telangana, Andhra Pradesh, Karnataka and Tamilnadu and International participants from Muscat and Australia. Our FDP had even attracted people from other domains such as medical, psychology and medical physics. The application in each field was well presented and was very interesting and beneficial. The resource persons dealt with processing of Bio signals and Medical images.

On the first day, **Dr. K. Narasimhan, Senior Assistant Professor, Sastra University**, presented the topic 'Role of AI in Medical Imaging', where he explained the process of Deep Learning in the diagnosis of Skin Cancer. In the second session of the first day, **Dr. B. Thilakavathy, Professor, Rajalakshmi Engineering College** enlightened us with ‘Analysis of EEG signals for detection of Psychiatric Disorders’.

On the second day, **Dr. Asutoshkar, Assistant Professor-Grade I, IITDM-Kancheepuram** described about ‘Cancellation of echo signals in digital hearing aids’ and discussed about research scopes in this field. In the second session of day 2, **Dr. G Malathi,**

**Associate Professor (Sr), VIT, Chennai**, gave a very factual discussion on ‘Wavelet based features for detection of early onset of Diabetes Mellitus using Ultrasound images’.

On the third day of the program, **Dr. K. Gireesan, Scientific officer-G, IGCAR, Kalpakkam** gave a lucid presentation on ‘Measurement of Biomagnetic Signals of Human heart and brain using SQUID sensors’.

The program concluded with the presentation by **Dr. U. Snehalatha, Associate Professor, SRMIST** on the topic ‘Thermal imaging techniques for medical applications’. She gave a clear view of the various research problems pertaining to this field.

The FDP received a response of 153 participants who were benefited through the program and certificates were issued to them. The participants include 9 Research Scholars, 10 Students and 134 Faculty. Participants doing research in these areas were benefited to a great extent.

Based on the feedback from our participants, it is noted that they have found all the sessions to be exceedingly useful and informative. 90% of the participants were of the opinion that the FDP met their expectations and the content delivered by resource persons was excellent.



**Certificate of Participation for Dr. K. Suresh Manic, National University, College of Engineering, Muscat**



Event Brochure:

*You choose, We do it*



## St. JOSEPH'S COLLEGE OF ENGINEERING

St. JOSEPH'S GROUP OF INSTITUTIONS  
OMR, CHENNAI- 600119

### Department of Electronics and Communication Engineering

(NBA ACCREDITED SINCE 2005)

COUNSELLING CODE : 1317



**THREE DAY FACULTY DEVELOPMENT PROGRAM ON  
MEDICAL SIGNAL AND IMAGE ANALYSIS**

**Dr. Ciresian K**  
Scientific Officer-G,  
Materials Science Centre,  
Indira Gandhi Centre for  
Atomic Research,Kalpakkam.



Measurement of Biometric Signal of  
Human Heart and Brain using 300D sensor

Free  
Registration  
<https://forms.gle/7BsmD6eZy18e01DnH6>

Join us at  
**GOOGLE MEET**





15<sup>th</sup> to 17<sup>th</sup>  
June 2020  
10 am to 11 am  
and  
4 pm to 5 pm

**Dr. Anubhakar**  
Marie-Curie Post Doc,  
AAU, Denmark  
Assistant Professor (Grade-0),  
Department of ECE,  
BITDM Kanchepuram



Optimization in remote feedback control for  
industrial heating using adaptive digital filter

**Dr. B. Thilabavathi**  
Professor,  
Department of ECE,  
Rajalakshmi Engineering  
College



Analysis of EEG signal for detection  
of Psychiatric Disorders





**Dr. Malathi G**  
Associate Professor (Sr),  
School of Computer Science  
and Engineering,  
Vellore Institute of Technology,  
Chennai



Machine based feature for detection of early onset  
diabetes mellitus using ultrasound image

**Dr. N. Narasimhan**  
Senior Assistant Professor,  
School of Electrical and  
Electronics Engineering,  
Sastha University



Role of AI in Medical Imaging





**Dr. U. Snehalatha**  
Associate Professor,  
Department of Biomedical  
Engineering, IFIM Institute of  
Science and Technology



Thermal imaging for diagnosis for  
medical applications - A case study approach

**Convenors**

Dr. Shirley Selvan M.E., Ph.D  
(9381080374)

Dr. D. Lakshmi M.E., Ph.D  
(98416 69119)

**Program Advisors**

Dr. B. Victoria Jancee M.E., Ph.D  
HOD- Staff Affairs

Dr. S. Aghalya M.E., Ph.D  
HOD- Student Affairs

Dr. P. Ezhilarasi M.E., Ph.D  
HOD-Lab Affairs

**Patrons**

Dr. B. Babu Manoharan M.A., MBA., Ph.D  
Chairman, St.Joseph's Group of Institutions

Mrs. S. Jessie Priya M.Com  
Managing Director

Mr. B. Shashi Selvar M.Sc., Intl Business  
Director

Dr. Vaddi Seehagiri Rao M.E., MBA., Ph.D  
Principal

Dr. B. Parvathavarthini M.E., MBA., Ph.D  
Dean (Research)

E-Certificates will be issued to all active participants

## A Sample of Feedback Analysis Report:

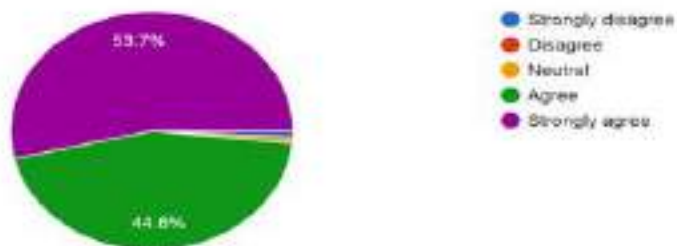
Please make indicative your satisfaction aspects of the FDP



Overall Rating for the Session



The Session delivered the information I expected to receive



# **St. Joseph's college of Engineering**

**OMR, Chennai - 119**

## **Department of Electronics and Communication Engineering**

**A Report on**

**Five days Online Faculty Development Programme**

**On**

**Evolving Trends in Communication and Networking**

**6 - 10, July 2020**

# BROCHURE



*The Choice, We Do It*  
**St. JOSEPH'S COLLEGE OF ENGINEERING**  
St. Joseph's Group of Institutions  
OMR, Chennai - 600 119



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
(Accredited by NBA Since 2003)  
**Five days Online Faculty Development Programme**  
ON  
**EVOLVING TRENDS IN COMMUNICATION AND NETWORKING**  
**6 - 10 July, 2020**

6.7.2020  
10.30 am to 12 Noon



**Dr. G. Lakshmi Narayanan**  
Professor  
Department of ECE  
National Institute of Technology Tiruchirappalli  
Topic : M.SI design for the realization of Physical Layer

6.7.2020  
4.00 pm to 7.30 pm



**Dr. Latha Christie**  
Senior Scientist  
Defence Research & Development Organization (DRDO),  
Ministry of Defense, Bangalore  
Topic : Electromagnetic Spectrum for Space and Warfare Applications

7.7.2020  
4.00 pm to 7.30 pm



**Dr. V. Shanmuganeethi**  
Associate Professor  
Department of CSE, National Institute of Technical Teachers  
Training and Research, Chennai  
Topic : Functionalities of Software Defined Networking

8.7.2020  
4.00 pm to 7.30 pm



**Mr. Aravindhan Chozhan**  
Senior Network Engineer  
Cableworks Holdings and Services, Inc.,  
Broomfield, Colorado, USA  
Topic : SD-WAN and Cloud Networking

9.7.2020  
4.00 pm to 7.30 pm



**Dr. M. A. Bhagyavani**  
Professor  
Department of ECE, College of Engineering,  
Savitri Amma University, Chennai  
Topic : Trends in 5G Wireless communication

10.7.2020  
4.00 pm to 7.30 pm



**Dr. R. Gunaxundari**  
Professor  
Department of ECE, Pondicherry Engineering college  
Postgraduate  
Topic : NF and Wearables

**Chief Patron**  
**Dr. B. BABU MANOHARAN, M.A, MBA, Ph.D.**  
Chairman, St. Joseph's Group of Institutions

**Patrons**  
**Mrs. S. JESSIE PRIYA, M.Com.** Managing Director  
**Mr. B. SHASHI SEKAN, M.Sc.** Director  
**Dr. VADDI SESHAGIRI RAO, M.E, MBA, Ph.D.** Principal  
**Dr. B. PARVATHAVARTHINI, M.E, MBA, Ph.D.** Dean (Research)

**Convener**  
**Dr. J. MARTIN LEO MANICKAM, M.E, Ph.D.** Professor

**Co-ordinators**  
**Mrs. S. DEVI PRIYA, M.E.** Assistant Professor  
**Mrs. K. JASMINE MYSTICA, M.E.** Assistant Professor  
**Mr. G. ASHOK, M.E. (Ph.D.)** Assistant Professor

**Program Advisors**  
**Dr. B. VICTORIA JANCEE, M.E, Ph.D.** HOD - Staff Affairs  
**Dr. S. AGHALYA, M.E, Ph.D.** HOD - Students Affairs  
**Dr. P. EZHILARASI, M.E, Ph.D.** HOD - Lab Affairs

**No Registration Fee** Interested Faculty members, Research scholars, Industry participants, students can REGISTER at:  
**<https://forms.gle/QNxDvWpa1QtWY5tS7>**  
Maximum number of participants is limited to 100  
Participants will be selected on first come first served basis  
Last date for registration : 4.7.2020  
E-certificates will be given to active participants

For program updates, join us at Whatsapp and Telegram using the following links  
 <https://chat.whatsapp.com/Jf7ArJTtZy0xfjuXvIhUT>  
 <https://t.me/joinchat/AAAAAEeCf0W2BTboQm6tA>

**For enquiries, mail us at : [sjeeceonline@gmail.com](mailto:sjeeceonline@gmail.com)**

Brouchure is available at <https://youtu.be/y3Baf0dPGwI>



## PROGRAM SUMMARY

Number of participants registered	: 788
Number of participants attended	: 415
Tamil nadu	: 291
Otherstates	: 124
Number of participants given e-certificates	: 266
Number of Institutions participated	: 166
Tamilnadu	: 84
Other states	: 81
Malawi	: 1
Number of Government Institutions participated	: 12
Number of Private Institutions participated	: 154
Number of participants from St. Joseph's Group of Institutions	: 9

### State-wise list of colleges participated

State / country	Name of the Institution / Organization
<b>Mangochi, Malawi</b>	DMI-St. JOHN The Baptist University, Mangochi
<b>ANDHRA PRADESH</b>	AANM & VVRSR Polytechnic, Gudla Valleru Aditya Engineering College, Peddapuram Bapatla Women's Engineering College, Bapatla Bhimavaram Institute of Engineering and Technology, Bhimavaram BVC Institute of Technology and Science, Amalapuram DNR college of Engineering and Technology, Bhimavaram Dr. Samuel George Institute of Engineering and Technology, Markapur Gates Institute of Technology, Gooty Geetanjali Institute of Science and Technology, Nellore GMR Institute of Technology, Rajam Koneru Lakshmaiah Education Foundation, Guntur NBKR Institute of Science and Technology, Vidyanagar, Nellore Newton's Institute of Engineering, Macherla Prakasam Engineering College, Kandukur Raghu Engineering College, Visakhapatnam Raghu Institute of Technology, Visakhapatnam Rajeev Gandhi Memorial College of Engineering and Technology, Nandyal S V College of Engineering, Tirupati Sasi Institute of Technology and Engineering, Chirala

	<p>Shree Institute of Technical Education, Tirupati          SKU College of Enggineering and Technology, Anantapur          Sree Vidyaniketan Engineering college (Autonomous), Tirupati          Sri Vasavi Engineering College, Tadepalligudem          SSN Engineering College, Kandukuru          St. Mary's Group of Institutions, Guntur          Tellakula Jalayya Polisetty Somasundaram College, Guntur          Vellore Institute of Technology-AP Vijayawada          Vignan's Lara Institute of Technology and Science, Guntur</p>
<b>ASSAM</b>	Assam Don Bosco University, Guwahati
<b>CHHATTISGARH</b>	Amity University, Chhattisgarh, Raipur
<b>GUJARAT</b>	Pandit Deendayal Petroleum University, Gandhinagar
<b>HARYANA</b>	Government Polytechnic Sonipat, Haryana
<b>JAMMU</b>	Government College of Engineering & Technology, Jammu
<b>KARNATAKA</b>	<p>Dr. Ambedkar Institute of Technology, Bengaluru          Government First Grade College, Tumakuru          Jain college of Engineering and Research, Belagavi          NMAM Institute of Technology, Udupi          Sanpar Microfilters Private Limited, Banglore          SDM college of Engineering &amp; Technology. Dharwad          Sree Siddaganga college of Arts, Science and Commerce for Women, Tumkur</p>
<b>KERALA</b>	IES college of Engineering, Thirissur
<b>MAHARASTRA</b>	<p>Ajeenkya D Y Patil University- School of Hotel Management, Pune.          AKI'S Poona College of Arts, Science &amp; Commerce, Pune          Chandmal Tarachand Bora College, Pune          Commerce, Management and Computer Science college, Nashik          Ghanshyamdas Saraf College of Arts &amp; Commerce, Mumbai          HPT Arts and RYK science college, Nashik          Huzurpaga Mahila Vanijya Mahavidyalaya, Pune          K.K.W. A.C.S. &amp; C.S. College, Nashik          Loknete Ramdas Patil Dhumal Arts science and commerce college, Rahuri          M E S Garware College, Pune          Padamshri Vikhe Patil College of Arts, Science and Commerce, Pravaranagar          Pratibha college of commerce and computer studies, Pune          Rajiv Gandhi college of Engineering Research and Technology, Chandrapur          Vidya Pratishthans Arts Science and Commerce College, Baramati</p>
<b>NEW DELHI</b>	<p>Guru Nanak Dev Institute of Technology, New Delhi          Meera Bai Institute of Technology, New Delhi</p>
<b>PUDUCHERRY</b>	<p>Manakula Vinayagar Institute of Technology, Pudhucherry          Pondicherry Engineering College, Karaikal</p>
<b>PUNJAB</b>	<p>DAV college, Amritsar          Guru Nanak Dev University, Amritsar</p>
<b>TAMIL NADU</b>	<p>A C Govt college of Engineering &amp; Technology, Karaikudi          A.V.C college of Engineering, Mayiladuthurai          Aalim Muhammed Salegh college of Engineering, Chennai          Adhiparasakthi Engineering College, Melmaruvathur</p>

Agni college of Technology, Chennai  
Amazon Chennai  
AMET University, Chennai  
Apollo Engineering College, Chennai  
Arulmigu Meenakshi Amman college of Engineering, Kanchipuram  
AVC Polytechnic college, Mayiladuthurai  
Bharath Institute of Higher Education and Research, Chennai  
C. Abdul Hakeem College (Autonomous), Ranipet  
Chennai National Arts & Science college, Chennai  
College of Engineering, Anna University, Chennai  
DMI College of Engineering, Chennai  
Dr. G U Pope college of Engineering, Tuticorin  
Easwari Engineering College, Chennai  
Einstein college of arts and science, Tirunelveli  
EXCEL Engineering College, Salem  
Four Clover Technology Solutions, Chennai  
Ganadipathy Tulsi'S Jain Engineering College, Vellore  
GKM college of Engineering and Technology, Chennai  
Gojan School of Business and Technology, Chennai  
Government College of Engineering, Salem  
Grace College of Engineering, Tuticorin  
Hindustan Institute of Technology and Science, Chennai  
Jawahar Engineering College, Chennai  
Jeppiaar Engineering College, Chennai  
Jerusalem college of Engineering, Chennai  
K Ramakrishnan College of Technology, Trichy  
K S Rangasamy college of Technology, Namakkal  
K. Ramakrishnan College of Technology, Trichy  
Kalaingar Karunanidhi Institute of Technology, Coimbatore  
Kalasalingam Institute of technology, Virudhunagar  
Karunya Institute Technology and Sciences, Coimbatore  
Kongu Engineering College, Erode  
Kumaraguru college of Technology, Coimbatore  
Lakshmi Ammal Polytechnic College, Tuticorin  
Lourdes Mount college of Engineering, Kanniyakumari  
M.A.M School of Engineering Trichy  
Mahendra Institute of Technology, Namakkal  
Meenakshi college of Engineering, Chennai  
Misrimal Navajee Munoth Jain Engineering college, Chennai  
Mohamed Sathak A J college of Engineering, Chennai  
MS University, Tirunelveli  
Murugappa Polytechnic college, Chennai  
Muthiah Polytechnic college, Chidambaram  
National Engineering college, Thoothukudi  
Noorul Islam centre for Higher Education, Marthandam  
P S G Polytechnic College, Chennai  
P. T. Lee CNCET, Kanchipuram  
PACE Institute of Technology and Sciences (Autonomous), Rasipuram  
PERI Institute of Technology, Chennai  
Prince Dr. K. Vasudevan college of Engg & Tech, Chennai

	<p>R.M.K College of Engineering, Chennai  Rajalakshmi Institute of Technology, Chennai  RRASE college of Engineering, Kancheepuram  S.A Engineering college, Chennai  Saranathan college of Engineering, Trichy  Sathyabama Institute of Science and Technology, Chennai  Saveetha Engineering College, Chennai  SCAD college of Engineering and Technology, Tirunelveli  Shanmuganathan Engineering College Pudukkottai  SMK Fomra Institute of Technology, Chennai  Sri Krishna College of Engineering and Technology, Coimbatore  Sri Ranganathar Institute of Engineering &amp; Technology, Coimbatore  Sri Venkateswara college of Engineering, Sriperumbudur  Sri Venkateswara College of Engineering, Chennai  Sriram Engineering College, Thiruvallur  SRM Institute of Science and Technology, Chennai  St. Joseph's Institute of Technology, Chennai  St. Joseph's College (Autonomous), Trichy  St. Joseph's College of Engineering, Chennai  St. Peter's College of Engineering &amp; Technology, Chennai  Syed Ammal Engineering College, Ramanathapuram  Thanthai Periyar Govt Institute of Technology, Vellore  University college of Engineering, Kancheepuram  Valivalam Desikar Polytechnic College, Nagappattinam  Velammal Engineering College, Chennai  Vellore Institute of Technology, Vellore  Veltech Multitech Dr. RR &amp; Dr. SR Engineering college, Chennai  Verizon, Chennai  Vetri Vinayaha college of Engineering and Technology, Trichy  VIT, Chennai</p>
<b>TELANGANA</b>	<p>Bandari Srinivas Institute of Technology, Hyderabad  Bankatlal Badruka College for Information Technology Hyderabad  CMR College of Engineering &amp; Technology, Hyderabad  CVR College of Engineering, Hyderabad  Government Polytechnic, Siddipet  Kakatiya University college of Engineering and Technology, Hyderabad  Malla Reddy college of Engineering and Technology, Hyderabad  Sreenidhi Institute of Science and Technology, Hyderabad  Sri Indu college of Engineering and Technology, Warangal  Talla Padmavathi college of Engineering, Hyderabad  Vaageswari college of Engineering, Hyderabad</p>
<b>UTTARAKHAND</b>	<p>Roorkee Institute of Technology, Roorkee  Tula's Institute, Dehradun</p>
<b>UTTARPRADSH</b>	<p>DEI Dayalbagh Educational institute Dayalbagh, Agra  HCL Technologies Ltd, Noida  Invertis University, Bareilly  G. L. Bajaj Institute of Technology &amp; Management, Noida  Meerut Institute of Engineering and Technology, Meerut  Naraina Vidya Peeth Engineering &amp; Management Institute, Kanpur  NMAM Institute of Technology, Udupi</p>



## **DAYWISE SESSION SUMMARY**

### **Day 1**

**Date: 06/07/2020**

**Time: 10.30 AM– 12.00 noon**

On our first session, Dr. G. Lakshmi Narayanan, Professor, Department of ECE, National Institute of Technology, Trichy delivered a webinar on VLSI Design for the realization of the physical layer. The Convener Dr. J. Martin Leo Manickam welcomed him and the participants from across the country. Mrs. S. Devipriya read his citation, followed by which the speaker shared voluminous information on VLSI design for the realization of the physical layer. He addressed the participants with all the information starting from the basics of modulation, transmitter and receiver blocks, scrambling and OFDM modules. The session was held in Google Meet and also streamed it on YouTube at <https://youtu.be/pgSGkLKykxo>. 254 faculty members, research scholars, professionals and students were benefitted. Towards the end of the session, the participants were made to submit a daily attendance form (Google Form). At the end of the session, Dr. S. Aghalya proposed the vote of thanks.

**Date: 06/07/2020**

**Time: 5.30 PM– 7.00 PM**

On the same day, Dr. Latha Christie, Senior Scientist and Associate Director, Defense Research and Development Organization (DRDO), Ministry of Defense, Bangalore delivered a webinar on Electromagnetic Spectrum for Space and Warfare Applications. The Convener Dr. J. Martin Leo Manickam welcomed her and Mrs. K. Jasmine Mystica read her citation, followed by which the speaker shared voluminous information on Electromagnetic spectrum for space and warfare applications. She explained about various warfare applications of electromagnetic spectrum. She addressed the gathering with all the information starting from the basics of microwaves, RADAR and millimetre wave applications. The session was held in ZOOM and also streamed it on YouTube at <https://youtu.be/9uxWafcTvWE>. 305 faculty members, research scholars, professionals and students were benefitted. Towards the end of the session, the participants were made to submit a daily attendance form (Google Form). At the end of the session, Mr. C. Ashok proposed the vote of thanks.

### **Day 2**

**Date: 07/07/2020**

**Time: 6.00 PM– 7.30 PM**

On Second day, Dr. V. Shanmuganeethi, Associate Professor, Department of CSE, National Institute of Technical Teachers Training and Research, Chennai delivered a webinar on Functionalities of Software Defined Networking. The Convener Dr. J. Martin Leo Manickam welcomed him and Mr. C. Ashok read his citation, followed by which the speaker shared voluminous information on Functionalities of Software Defined Networking. He addressed the gathering with all the information starting from the basics of SDN, its architecture, its applications, SDN control plane and SDN flow forwarding mechanisms. A real time voting system, Mentimeter was used in this presentation, so that we had a nice interactive session. The session was held in Google Meet and also streamed it on YouTube at <https://youtu.be/cSrOgJ3g2F4>. 264 faculty members, research scholars, professionals and students were benefitted. Towards the end of the session, the participants were made to submit a daily attendance form (Google Form). At the end of the session, Mrs. S. Devipriya proposed the vote of thanks.

### **Day 3**

**Date: 08/07/2020**

**Time: 6.00 PM- 7.30 PM**

On Third day, Mr. Aravindhnan Chozhan, Senior Network Engineer, Craftworks Holdings and Breweries Inc., Broomfield Colorado, USA delivered a webinar on SD -WAN and Cloud Networking. After the Convener Dr. J. Martin Leo Manickam welcomed him, Mrs. S. Devipriya read his citation, followed by which the speaker shared voluminous information on SD WAN and Cloud networking. He addressed the gathering with all the information starting from the architecture to the security needs of SD-WAN and Cloud. The participants also had a demo session shown by Mr. Aravindhnan on Meraki Dashboard and Microsoft Azure. The session was held in Google Meet and streamed it on YouTube at <https://youtu.be/C68xwNV9xjI>. 288 faculty members, research scholars, professionals and students were benefitted. Towards the end of the session, the participants were made to submit a daily attendance form (Google Form). Towards the end, after Mr. Aravindhnan answered the queries of the participants Mrs. Jasmine Mystica proposed the vote of thanks.

### **Day 4**

**Date: 09/07/2020**

**Time: 6.00 PM- 7.30 PM**

On day 4, Dr. M. A. Bhagyaveni, Professor, Department of ECE, College of Engineering, Guindy, Anna University, Chennai, delivered a webinar on Trends in 5G communication. After the Convener welcomed her, Mrs. Jasmine Mystica read her citation, followed by which the speaker shared her knowledge acquired through her research experience on 5G Communication. She addressed the gathering with all the information starting from the proposed 5G architecture to the potential research areas in the domain. The participants had a very interactive session and our speaker addressed many doubts of our participants on the underlying technical aspects of a 5G network. The session was held in Google Meet and also streamed live on YouTube at <https://youtu.be/EnskYOIO3xs>. 268 faculty members, research scholars, professionals and students were benefitted. Like every day, towards the end of the session, the participants were made to submit a daily attendance form (Google Form). At the end of the session, Mr. Ashok thanked the speaker and the participants for the wonderful session by proposing the vote of thanks.

### **Day 5**

**Date: 10/07/2020**

**Time: 6.00 PM- 7.30 PM**

Final day, Dr. R. Gunasundari, Professor, Department of ECE, Pondicherry Engineering college, Pondicherry, delivered a webinar on IoE and Wearables. Mrs. S Devipriya welcomed her; Mrs. K Jasmine Mystica read her citation, followed by which the speaker shared a whole lot of information about various IoE based wearables available in the present day market. She also showed the projected increase in wearable market over the next few decades in order to motivate more researchers to enter this field of research. She concluded with the applications served by wearable technology and the listed the various problems faced in design which are the potential research areas. The participants had a very interactive session and our speaker addressed many of their doubts. The session was held in Google Meet and also streamed live on YouTube at <https://youtu.be/ilMBoVgVpBo>. 278 faculty members, research scholars, professionals and students were benefitted. Like every day, towards the end of the session, the participants were made to submit a Google Form. The form acquired the participants' holistic feedback on the entire 5 days of the FDP. At the end of the session, the Convener Dr. J. Martin Leo Manickam, thanked the Management, speaker, colleagues and the participants for the successful completion of the 5 days FDP by proposing the vote of thanks.

## FEEDBACK

1	Every session was quite informative leaned lot of things which will be helpful in future .
2	ALL THE SESSIONS WERE QUITE INFORMATIVE AND INTERESTING. WELL PRESENTED AND ORGANISED. THE CURRENT TRENDS IN 5G AND RESEARCH TOPICS WERE HIGHLIGHTED AND HELPED ME LEARNED A LOT. LOOKING FORWARD FOR MORE FDPs.
3.	All sessions I enjoyed. Sd wan and cloud networking was more informative session. The organisers arranged very nicely. Congratulations to tne organizess
4.	Learnt new concepts and new innovations. Most likely topic is 5G and VLSI
5.	Very informative session... Useful for the faculty members... Great job
6.	Wearable Devices and Communication related part is interesting. Please arrange more programs like this. 5G with higher data rate and sensors. And it was really good to hear about the interconnected heterogeneous network platform. As an electronics engineering it's a nice program for communication and networking field. Good. The resource persons like Dr. Bhagyaveni, Dr. Gunasundari really they are working in the field what they are expertise in it. Thank you so much for arranging this..... Wireless communication
7.	5 Days session was so informative. First day session by Latha Christie Mam was very good. Topics related to Astronomy and natural sciences has always fascinated me. Second day session by Shanmuganeethi Sir was very interesting and interactive. The sessions on 5G, Software Network and IoT and wearable electronics were also very informative and useful. Thanks and congratulations to the entire team behind this effort.
8.	Well organized sessions, speakers are very well experienced . Good time management. Today's session I liked the most. Thanks for the opportunity given.
9.	Highly informative sessions.SJCE organisers for providing Excellent resource persons for all the sessions. All the resource persons are real masters in their field.
10.	Informative and nice eseion...Very useful for us..Thanks for all the organizations committee members..These kind of fdp are so knowledgeable..Keep going..Thanks for all the speakers and organizer...Got concepts, techniques, theory and skill development.. Genuinely one of the best FDP i had attended..The entire five days was one of the best i have ever spent..I found it realy interesting and insightful..Thanks for conducted these .. Really really worth it..I didn't anticipate speakers delivery and the ambience would be great..Once again thanks for team..
11.	Great session. Looking forward to more sessions in the field of management, so that apart from technical topics, more topics on the management front like marketing, accounts, finance, HR can be benefited by students. Greatly organized by the lecturers. The event was on time each and every day. Every session was conducted by great renowned faculty who were experts in their own field. We had an interesting quiz and even a question & answer session at the end of each webinar.
12.	In simple words, it is a Motivational events for researcher. There is a very super sessions on SD WAN, Cloud computing, 5G technology, IoT communication, etc. It is very excellent session as it is more informative content.
13.	Really good practical learning session and learned real time implementation concepts according to networking
14.	Very informative useful and interactive session; Well organised team; Valuable and masters resource person
15.	Excellent job taken by stjoseph groups of institutions and I am very much happy to be a part in it. I especially thank the organizers team to making the FDP programme a grant success. And thank to resource person's with lot of busy schedules they have lighten the programme.

## PARTICIPATION AND HONOR CERTIFICATES



*You Choose, We Do It*  
**St. JOSEPH'S COLLEGE OF ENGINEERING**  
St. Joseph's Group of Institutions  
OMR, Chennai - 600 119.

**A+**  
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
(ACCREDITED BY NBA SINCE 2003)

*Certificate of Participation*

*This is to certify that*  
**RAHILA BILAL**  
*of*  
**THANTHAI PERIYAR GOVT. INSTITUTE OF TECHNOLOGY**  
*has participated in the Five Days Online Faculty Development Programme on*  
**EVOLVING TRENDS IN COMMUNICATION AND NETWORKING**  
*Organized by the Department of Electronics and communication Engineering*  
*during July 6 - 10, 2020.*

*J. Martin Leo Manickam*  
Dr. J. Martin Leo Manickam  
Convener

*Victoria Jancee*  
Dr. B. Victoria Jancee  
HOD

*Vaddi Seshagiri Rao*  
Dr. Vaddi Seshagiri Rao  
Principal



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**A+**  
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
(ACCREDITED BY NBA SINCE 2003)

**Certificate of Honor**

*This certificate is presented to honor*  
**Dr. M. A. BHAGYAVENI, PROFESSOR**  
*of*  
**ANNA UNIVERSITY, CHENNAI**  
*In recognition and grateful appreciation for delivering a webinar in the*  
*Five Days Online Faculty Development Programme on*  
**EVOLVING TRENDS IN COMMUNICATION AND NETWORKING**  
*Organized by the Department of Electronics and communication Engineering*  
*during July 6 - 10, 2020.*

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Principal