



Jyothi
Engineering College



JECC NEWS

January - June 2020

Book 12 Issue 1



Tharang 2020

Techno Cultural Fest Tharang-20 was inaugurated by Robin Tommy (Incubation Lab Head, TSS, Thiruvananthapuram) on March 6 and 7 at the College Campus.



CATCH THEM YOUNG

Years Back Jyothi started A new concept under the leadership of Fr. Roy and organised by Placement and Training Department of JEC -#Catch #Them #Young: Giving opportunity to school students - to feel and to see Jyothi Engineering College campus. Jyothi always believes in CSR .let our neighbourhood school students get an opportunity to see the Labs and to interact with our faculty members ...It adds value to the development of an individual student as well as the school..The program was coordinated by the Placement & Training department.

NBA DECLARATION CEREMONY



Techno Cultural Fest Tharang-20 was inaugurated by Robin Tommy (Incubation Lab Head, TSS, Thiruvananthapuram) on March 6 and 7 at the College Campus.

TECHATHLON



ICT Academy of Kerala organized regional round of ICTAK Techathlon-2020, National Level Technical Fest in association with Jyothi Engineering college on 29 January ,2020. ICTAK Techathlon is a National Level Technical Fest organized by ICT Academy of Kerala every year. Techathlon is a unique technical contest designed in line with employability skills assessments conducted by Global Organizations. This is an event open to all the undergraduate, graduate and post graduate students across the country where the participants can exhibit and depict their creativity,problem solving, collaboration, and communication and prototyping skills.



NEW PRINCIPAL JOINED OUR COLLEGE

Prof. Dr. sunny Joseph (Dean Research)

COLLEGE EVENTS

Tech Talk Series

HYBRID ELECTRIC VEHICLES: CHALLENGES AND OPPORTUNITIES



The 3rd Tech Talk Series was organized by the department of EEE on 19/01/2020 at Press Club Hall Thrissur on the topic “Electric Vehicles – Technology, Opportunities and Scope”. The panel members were Er. Vijayan Nandalan, former scientist ISRO, Dr. Ajay Babu, Asst. Professor, NSSCE and Dr. Jarin T., Asso. Professor and HOD, Department of EEE, JECC.

Republic Day Celebrations

NSS 140 celebrated Republic day on 26 January 2020 at college. The unit honours the date on which the Constitution of India came into effect in 1950. At 9 am the program started with parade, Flag hosting by Fr. Dr. Jose Kanampuzha. After that we were having cultural program which started with prayer, welcome address by volunteer secretary Arjun K M, Presidential address by PO Mr. Nidhin Jhonson, Inaugural address by Fr. Dr. Jose Kanampuzha and Republic Day message by sub inspector of Cheruthuruthy police station. On this occasion all NSS volunteers took a pledge against drugs.



MOU REGISTRATION



- Jyothi Engineering College signs MoU with Christ University on August 26
- Jyothi Engineering College signs MoU with Christ University on September 15
- Jyothi Engineering College signs MoU with Tata Group to launch first IIEC in South India on September 1.



COVID-19: What you need to know?

Jyothi Engineering College, Cheruthuruthy celebrated National Science Day on 3rd March 2020. The inaugural function was started at 2.30 PM in Decennial Hall, Jyothi Engineering College, Cheruthuruthy with a prayer. The gathering was welcomed by Sr. Dr. Rose Anitha, Head of the Department, Basic Science and Humanities. Rev. Fr. Roy Joseph Vadakkan, Campus Head (JECC) & Secretary (TET), delivered the presidential address. The inauguration and inaugural address were given by the Chief Guest Dr. Chithra Valsan, Professor, Department of Microbiology, Jubilee Mission Medical College & Research Centre, Thrissur, after lighting the lamp. The Principal's address was given by Fr. Dr. Jaison Paul Mulerikkal, CMI, Principal, JECC. As a token of love and gratitude, a memento was distributed to Chief Guest by Rev. Fr. Roy Joseph Vadakkan. Special address was given by Fr. Dr. Jose Kannampuzha, Academic Director, JECC. Er. Thomas Mathew, Administrator, JECC, provided the felicitation. Ms. Viji E. P., Coordinator, National Science Day expressed vote of thanks. The inaugural function was concluded by National Anthem at 3.00 PM. After the inaugural function there was a lecture on **“COVID-19: What you need to know?”** by Chief Guest Dr. Chithra Valsan, Professor, Department of Microbiology, Jubilee Mission Medical College & Research Centre, Thrissur.



WEBINAR Social Effects of COVID-19

The Department of Basic Science and Humanities Department of Jyothi Engineering College conducted the webinar on **“Social Effects of COVID -19”** for the students, scholars and teaching faculties on 24.06.2020. There were totally 137 participants from various other institutions which included faculties and research scholars.

The Speaker of the Session Dr. Peter M Raj, Associate Professor presented the keynote address on **“Social Effects of COVID 19”**. He discussed the basic concepts relating with best suitable real life examples which are essential for the understanding during this pandemic situation. He inspired the audience by lively interacting. He discussed about effects of COVID on financial and non financial sector and the important things keep to mind during this situation.

The feedback about the session was collected from all the participants to improve the sessions that will be conducted in the mere future.

JEC Talk



JEC TALKS of three faculty members Jasmine Jose, Priya Jose and Suganthi T has been released in You Tube.



FIND US ON
YouTube



ALSO AVAILABLE ON



Faculty Achievements



Mr. Sivakumar K S took free entrance coaching at the month of January 2020 for Plus Two students of various schools at St. Thomas College, Thrissur.

Dr. Usha Menon has been selected as a part of the research group of Department of Global Health and Social Medicine, Harvard Medical School, USA to translate interviews of flood affected victims in Kerala into English.



Ms. Minu Jos K & Mr Sivakumar K has registered for Ph. D. Programme under APJ Abdul Kalam Technological University aton May 2020

S1 RESULTS (2019-2023) BATCH LIST OF STUDENTS WITH SGPA

Civil Engineering



Liya Saji
SGPA: 9.76



Vaishnav C.
SGPA: 8.71



Anirudh K. P.
SGPA: 8.15

Computer Science & Engineering
A - Batch



Aiswarya K.
SGPA: 9.65



Anurag N Nair
SGPA: 9.24



Finey Shafi
SGPA: 9.24

Computer Science & Engineering
B - Batch



Shelna George
SGPA: 9.5



Midhula K.P.
SGPA: 8.76



Rohith T
SGPA: 8.76

Electronics & Communication Engineering



Divya Sasikumar Nair
SGPA: 9.47



Sana Said
SGPA: 9.06



David Joseph
Kunnan
SGPA: 9

Electrical & Electronics Engineering



Fawas Firoz
SGPA: 9.47



Rhea Samuel
SGPA: 9.47



Liviya Viju
SGPA: 9

Mechatronics Engineering



Sajna Sunny T
SGPA: 9



Alby Thomas
Zacharia
SGPA: 8.85



Saviyo Therattil
SGPA: 8.82

Mechanical Engineering



Arun Giri
SGPA: 8.82



Abin C. T.
SGPA: 8.62



Adharsh Prakash
SGPA: 8.24

Congratulations

FIRST
SEMESTER
CLASS
TOPPERS
2019-2023

Student achievements



Tech Talk Series

Domestic Pollution & Remedial Measures

The 4th Tech Talk Series was organized by the Department of Civil Engineering on 16/02/2020 at the Press Club Hall, Thrissur on the topic 'Domestic Pollution & Remedial Measures'.

The panel members included Dr. Ajayakumar Varma, Former Executive Director, Suchitwa Mission- Local Self Government Department Kerala, Dr. Girija D., Registrar- Kerala Agricultural University and Prof. S. Rathish, Professor and HOD, Department of CE.

Technical Session

Building with Concrete

Mr. Babu Raghavan took a technical session on 12/02/2020 about 'Building with Concrete' organized by ICI for the Civil Engineering Students of JEC.



Technical Session

Significances of Building Services

Er. Siva Iyer handled a technical session on 'Significances of Building Services' organized by Civil Engineering Association & Institution of Engineers (India) on 19/02/2020

Technical Session

Construction Management Opportunities in 'Engineering, Procurement & Construction' (EPC) Industry

Er. Tony Jacob, Director, Contask Management solutions, presented a talk on 'Construction Management Opportunities in 'Engineering, Procurement & Construction' (EPC) Industry' in the webinar organized by Department of Civil Engineering in association with Xavier Institute of Management and Technology, Bangalore on April 28, 2020.



Training Programme

A three-day online Short Term Training Programme on 'State of the Art Practices in Transportation Engineering' in association with Indian Society for Technical Education was organized by the Department from 10-06-2020 to 12-06-2020.

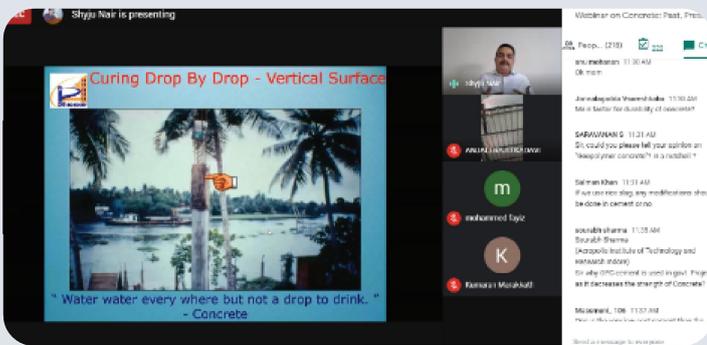
Dr.A.S. Narasimha Murthy, Senior Transportation Engineer, California, Dr. Sunil Vasudevan, Techno Legal Expert, Trivandrum, Er. Rijesh N.M, Deputy Town Planner, Regional Town Planning Office, Ernakulam, Er. Amegh Gopinath, Technical Expert, GIZ, Delhi, Er. Santhosh Kadavy, Manager, IBI group, Andhra Pradesh and Er. Vivek M., Traffic and Transportation Planner, RINA Consultancy S.P.A, Mumbai were the speakers who led various sessions



WEBINAR

Concrete: Past, Present & Future

Er. Shyju Nair, CEO, DH Academy handled a webinar on "Concrete: Past, Present & Future" which was organised by ICI Student Chapter JEC on 24-06-2020



Post Covid Scenario: Civil Engineering Perspectives

A webinar on the topic 'Post Covid Scenario: Civil Engineering Perspectives' was organized by the IE(I)-CED, JEC on 18-06-2020. The expert for the talk was Dr. Jeevan Joseph, Asst. Professor, Dept. of Civil Engineering, National Institute of Technology, Trichy. He explained the opportunities and challenges faced in the field of Civil Engineering post COVID'19 era.



Faculty Achievements



1, Prof. S. Rathish was the panel member for the state level consultative workshop on 'Appropriate Toilet Technologies'. He was also a reviewer for the compendium of toilet technologies published as a part of this workshop jointly organized by UNICEF-Suchitwa Mission-Socio Economic Unit Foundation (SEUF) on January 6th 2020.

2, Ms. Jisha Akkara presented a paper on 'Effect of Road Geometry on Driver Eye Blink Rate' in a two day National Conference & Seminar (NCIET 2020) on 'Innovations in Engineering & Technology' organized by Government Polytechnic College, Palakkad Sponsored by the Department of Technical Education, Kerala held on 11th and 12th February 2020.

3, Ms. Jisha Akkara published a technical paper titled 'Accident Prediction Model for Evaluating Safety of Horizontal Curves on Two Lane Rural Highways' in the International Journal of Advances in Engineering and Management, Vol. 2, issue1.

4, Prof. S. Rathish was the moderator for the discussion on the topic **'Experience from community managed water supply schemes state level strategy formulation work'** jointly organized by UNICEF-KRWSA-SEUF on 20th February, 2020

5, Ms. Carol Varghese, Ms Rakendu P. S., Ms. Megha, Mr. Vismay Nair attended a workshop on AICTE quality initiatives, NITTT & NEAT organised by FISAT, Angamaly on 6th March 2020.

6, Ms. Archana S. published a technical paper on **"Pedestrian Facilities and Safety Analysis at Railway Station in the Pilgrim Season"** in NCCE- New and Effective Innovations, Technical and Key Challenges organized by NIT, Surathkal on Jan 30, 2020

7, Dr. Nidhi M. was both reviewer and chairperson in the 1st International Conference on Structural Engineering and Construction Management organised by FISAT, Angamaly from 15/05/2020 to 16/05/2020.

8, Ms. Archana S. published the following papers in International Journal for Scientific Research and Development, Vol. 7, Issue 12, 2020
 Analysis of Pedestrian Parameters at KSRTC Thrissur, Kerala
 Pedestrian Crossing Behaviour between Transport Terminals
 Infrastructure Characterized Operations in Kerala State RTC

9, Ms. Vincy Verghese published a paper titled **'Determination of Stream Equivalency Factor for Toll Plaza'** in the International Journal for Scientific Research and Development, Volume 8, issue 1, March 2020.

10, Prof. S. Rathish handled a technical session on the topic **'Water resources management in Kerala'** in an online faculty development program on "Enhancing Civil Engineering Proficiency" organized by Government Polytechnic College, Chelakkara from 18th-20th May 2020.



Prof. S. Rathish



Ms. Vincy Verghese



Ms. Jisha Akkara



Ms. Archana S.



Ms. Carol Varghese

Students Achievements



1, Mr. P. Parthiban S4 MTech Student presented and published the following papers.

- i. **'Pedestrian Facilities and Safety Analysis at Railway Station in the Pilgrim Season'** in Conference Proceedings, NCCE-NITK 2020, National Institute of Technology, Surthkal, Karnataka on Jan 30, 2020.
- ii. **'Pedestrian Flow And Capacity at Railway Station'** in Conference Proceedings, Emerging Trends in Civil Engineering, 2020, K. L. University, Andra Pradesh, June 26, 27, 2020.

2, Ms. Swathy P. Mohan published a paper titled **'Accident Prediction Model for Evaluating Safety of Horizontal Curves on Two Lane Rural Highways'** in International Journal of Advances in Engineering and Management, Vol. 2, issue 1.

3, The following S4 M.Tech students presented papers at a Two-day National Conference & Seminar (NCIET 2020) on **'Innovations in Engineering & Technology'** organized by Government Polytechnic College, Palakkad Sponsored by the Department of Technical Education, Kerala held on 11th and 12th February 2020.

- (i) Ms. Dona Joy presented the paper titled **'Modelling of Operating Speed in Horizontal Alignment of Two Lane Rural Highways'**
- (ii) Ms. Swathy .P. Mohan presented the paper titled **'Accident Prediction Model for Evaluating Safety of Horizontal Curves on Two-Lane Rural Highways'**
- (iii) Ms. I. P. Malavika presented the paper titled **'Economic Analysis of Congestion -A Case Study'**
- (iv) Ms. Silpa Sekhar G. presented the paper titled **'Influence of Pavement Condition on Headway and Average Travel speed'**.



4, Ms. Giji Sonia presented and published the paper titled **'Determination of Stream Equivalency Factor for Toll Plaza'** in the International Journal for Scientific Research and Development, Volume 8, issue 1, March 2020.

5, The following S4 M. Tech students published papers in the International Journal for Scientific Research and Development, Vol. 7, Issue 12, 2020

i. Ms. Aparna M. S. published the paper titled 'Analysis of Pedestrian Parameters at KSRTC Thrissur, Kerala'

ii. Ms. Lekshmi Krishna published the paper titled 'Pedestrian Crossing Behaviour between Transport Terminals'

iii. Mr. Nidhin Sebastian published the paper titled 'Infrastructure Characterized Operations in Kerala State RTC.'



6, Ms. Ammu B. Crusho published the paper titled 'A State-of-Art Review on the Interfacial Bond Strength of Bituminous Overlay in Asphalt Pavements' in the International Advance Journal of Engineering Research (IAJER), Volume 3, Issue 3, March, 2020



7, Mr. Rahul M of B. Tech S4 CE attended the event **Professional Student Summit**, a state level event organized for professional students across the state at CUSAT on February 15th, 2020.

8, Ms. Nivya Varghese and Ms. Rosmin Thomas attended a seminar on **World Engineering Day** organized by The Institution of Engineers (India), Thrissur on 4th March 2020.



Ms. Nithya K. Mathew of S8 CE was selected in the Infosys campus recruitment drive



9, Ms. Femin K.A. of S6 CE bagged the first prize in both Kadha Prasangam and Kavita Parayanam in 'Ezhutham Parayam – Sahithya Malsarangal' in a State Level Literary Competition organised by the Research and Publication Wing of Kerala Police Academy, Thrissur on June 2020.



University Result Toppers

Mr. Arjun P. M., Ms. Shabla K. and Ms. Sneha Thomas of S4 Civil Engineering (2018-22) won the first, second and third positions in the third semester results published by APJ Abdul Kalam Technological University scoring SGPA of 9.71, 9.67 and 9.54 respectively.

Ms. Shefeekha A., Ms. Raveena V. and Ms. Blessy P. Samuel and Ms. Femin K.A. of S6 Civil (2017-21) secured the first, second and third positions in the fifth-semester results published by APJ Abdul Kalam Technological University scoring SGPA of 9.74, 9.48 and 9.09 respectively.

Ms. Dona Thomas, Ms. Henna Maria and Ms. Salini M. S. and Sreya Murali and Asna P. of S8 Civil Engineering (2016-20) won the first, second and third position in the seventh semester results published by APJ Abdul Kalam Technological University scoring SGPA of 9.32, 9.25 and 9.11 respectively.

Ms. Athira C., Ms. Mahima Mary Thomas and Ms. Neelu Mammen of M. Tech S2 Civil won the first, second and third position in the first semester results published by APJ Abdul Kalam Technological University scoring SGPA of 9.27, 9.05 and 8.36 respectively.

Ms. Swathy P. Mohan, Ms. Dona Joy and Ms. Anupama Krishnan of M. Tech S4 Civil won the first, second and third positions in the third semester results published by APJ Abdul Kalam Technological University scoring SGPA of 9.00, 8.25 and 8.13 respectively.

S4 Civil Engineering (2018-22)



S6 Civil Engineering (2017-21)



S8 Civil Engineering (2016-20)



M. Tech S2 Civil Engineering



M. Tech S4 Civil Engineering



The What, Why and How of Cyber Security

Computer Science & Engineering and CESA (Computer Engineering Students Association) in association with IE(I) Student chapter conducted a technical talk on “**The What, Why and How of Cyber Security**” on 19th February 2020 by Mr.SiddharthMuralee (Team Lead, teambios).



WEBINAR

Industrial Artificial Intelligence

CESA organized a webinar on “Industrial Artificial Intelligence” by Mr.Mathew Joseph, Vice President of Apar Technologies Pvt. Ltd, Head of Artificial Intelligence Labs, CIMB Bank on June 23, 2020.



BOT IN A DAY

In connection with the Annual Tech fest of our college THARANG 2020, the Computer Science Department in association with CSI and CESA organized a one day workshop on the topic Robotic Process Automation “**BOT IN A DAY**” on the 29th of February 2020.

Introduction to Microservices

WEBINAR

IE(I) & CESA jointly organized a webinar on “**Introduction to Microservices**” by Ms.Malini K Bhaskaran, Senior Software Development Engineer, Intel corporation, Santa Clara, California on June, 30, 2020

Faculty Achievements

Mr. Bineesh M attended in 5 day workshop on “**Java Programming**” by Oracle Academy during 04/05/2020-08/05/2020



Ms. Aswathy Wilson attended in 5 day workshop on “**Machine Learning and Applications**” by SAGE Group during 18/5/2020- 23/5/2020



Ms. Shoba Xavier attended in 5 day workshop on “**Java Programming**” by Oracle Academy during 04/05/2020-08/05/2020 and 1 day workshop on “**Programming the Finch Robot in Java Workshop**” by Oracle Academy on 9/6/2020

Ms. Ninu Francis, Ms. Reshma K V and Ms. Sajitha I attended in 7 day workshop on “**Computer And Communication Networks**” by Sri Sai Ram Institute of Technology during 21/05/2020-27/05/2020



Ms. Lufiya George C attended in 5 day AICTE sponsored workshop on “**Artificial Intelligence**” during 4/5/2020 - 8/5/2020 & 11/5/2020- 15/5/2020 and 7 day workshop on “**Python**” by Adhiparashakthi Engineering College

Mr. Anil Antony participated in a Webinar “**Emerge2020, IEEE Virtual Summit**” on 5/2/2020



Students Achievements



Harikrishnan K R, Anand Murali, Kokul Jose, Aloysius Leslie Jacob, Aparna Arvind, AmithaIssac of S8 CSE won 3rd position in State level Hackathon conducted at Naipunya School Of Management Cherthala under the guidance of Ms. Aswathy Wilson.



Teena Joy, Nair Anjali Valsalan (S6 CSE) got selected for Microsoft Azure ML Scholarship 2020 provided by Udacity.



Amal Tom, Maneesh Manoj, Sreerag R Nandan, Nair Anjali Valsalan, Abhijith V, Sangeetha P under the guidance of Mr. Anil Antony won first position in Reboot Kerala Hackathon 2020 held at Govt. Polytechnic College, Periyakasargod.



Joseph Joel C P, Rashi M, Sreerag R Nandan, Maneesh Manoj participated in Google AI Explore ML Mentorship Bootcamp held at Hyderabad.

Shijith, Sherin, Sheena K Sasi, Anjana Paul of S8 CSE won the best paper award in ABACon'20 Virtual Conference on Innovations in computing at Sahridaya College of Engg. & Tech on June 22, 2020



Irfana M I, Elsa Rose, Blesmi Rose Joseph with their project "PESTICLEAR" got selected for YIP 2020 under the guidance of Mr. Fepslin Athish Mon



Amala K S, Anjali Anne Prathap, Sangeetha P, Saranya K, Teena Joy P J of S6 CSE are awarded the student scholarship to attend the Grace Hopper Celebration of Women in Computing India (GH-CI) 20 Conference.

Tenwin James K, Varun Vincent, Lino Louis, Vishnuraj T, Aneesh Chandran, "Review of Software to Analyse the Physical Conditions of the Athletes using sEMG", International Journal of Trend in Scientific Research and Development (IJTSRD) Volume 4 Issue 4, June 2020

N Rahul, Roy Eluvathingal, Sanith Jayan K, Mr. Anil Antony, "Diabetic Retinopathy Detection using Neural Networking", International Journal of Trend in Scientific Research and Development (IJTSRD) Volume 4 Issue 4, June 2020

Joshua Shaji, Antony David, Divya Stephen, Amitha Isac, Fepslin Athish Mon S, "Library Management System", in International Journal of trend in Scientific research and Development, Volume 4 Issue 4, June 2020

Parvathy Mohanakrishnan, Reshma P.G, Shabana Asmi K S, Assistant Professor Aswathy Wilson, "Blind-Assist", International Journal of Scientific Research & Engineering Trends Volume 6, Issue 2, Mar-Apr-2020.

Arya P Menon, Abin Varghese, Joel P Joseph, Jofiya Sajan, Ninu Francis, "Performance Analysis of different Classifiers for Earthquake prediction: PACE", INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH IN TECHNOLOGY, IJIRT | Volume 7 Issue 2.

Sreelakshmi V G, Meera P M, Senna Mariya Pius, Mathews Jose, Swapna B Sasi, "KYC using Blockchain", International Journal of Trend in Scientific Research and Development (IJTSRD) Volume 4 Issue 4, June 2020

Reshma Ramesan k, Flower Mariya Varghese, Sneja N Joshy, Ano Joseph, Bineesh M,"LBA Using Blockchain",International Journal of Trend in Scientific Research and Development (IJTSRD) Volume 4 Issue 4, June 2020

Augustin Vembil,,Ayisha Abdul Ravoof, Anagha Merin Sen, "Virtual Therapy using Amazon's Alexa", International Journal of Advances in Computer Science and Technology, Volume 7 Issue 2, Mar-Apr-2020.

University Result Toppers

S7 CSE A



Jerin Reji
SGPA : 8.64



Arya P Menon
SGPA : 8.48



Archana
Venugopal
SGPA : 8.34



Jisna Joby
SGPA : 8.34

S7 CSE B



Nitha Hyrin
SGPA : 8.39



Rinsy R
SGPA : 8.32



Rohini K R
SGPA : 8.23

S5 CSE A



AMALA K S
SGPA : 8.78



DHANYA R
SGPA : 8.74



DIVYA PETER
SGPA : 8.39

S5 CSE B



Niva Dileep
SGPA : 9.11



Muhammed
Raneesh C M
SGPA : 8.74



Maneesh Manoj
SGPA : 8.7

S3 CSE A



G RAMGOPAL
SGPA : 8.98



AMAL SEBASTIAN
SGPA : 8.79



HELNA THOMAS
SGPA : 8.17

S3 CSE B



Shafna
SGPA : 9.4



Vani Prakashan
SGPA : 9.21



Jissy Joy
SGPA : 9.08



WEBINAR Design & Simulation of RF MEMS Resonator

The Department of Electronics & Communication engineering in association with IETE & ECSA organized a webinar on “Design & Simulation of RF MEMS Resonator” on 27-06-2020.



WEBINAR Antennas in Biomedical Applications & MIMO Technology

The Department of Electronics & Communication engineering in association with IEI (ECE) & ECSA is organized a webinar on “Antennas in Biomedical Applications & MIMO Technology” on 24-06-2020.

Faculty Achievements

Bindhu K Rajan, published a paper titled “Automated Feature Extraction of Hepatic US Image of Dog Using Image Processing”, 2019 2nd IEEE International Conference on Intelligent Computing, Instrumentation and Control Technologies (ICICICT)



Dr. Sindhu S attended FDP on “Application of Software tools in research methodology” Amity University, Kolkatta, 27 June to 1 July 2020

Fr. David Nettikkadan Attended FDP on “Data Sciences” Central University of Kerala. 09-06-2020 to 13-06-2020



Fr. David Nettikkadan Attended FDP on “Data Sciences” Central University of Kerala. 09-06-2020 to 13-06-2020

Student Achievements

Mr. Albin Fredy of S6 ECE participated in Innovator's Summit on 25/01/2020 at CUSAT

Mubshira K M published a paper titled “A Comprehensive Study on Human Interaction with IoT Systems” International Research Journal of Engineering and Technology, Volume: 07 Issue: 05, May 2020.

Thasneem V A published a paper titled “Different Sensors used for biochemical Detection”, International Research Journal of Engineering & Technology June 2020

Placements

Ms. Chinmayi of S8 ECE got placed in Mindtree as software Engineer

Nimisha Tony, Kavya Sunil of 8ECE Diya Software post of Associate Engineer, in the final round of the pooled(off)campus recruitment conducted by the company on 24th January 2020 at Nehru Engineering College (NCERC)

Adrian, Catherine, Mareena Mariya Abraham, Nandhana K, Olivia Nelson have been selected by CSS Corp, to the post of Engineer - Trainee, in the pooled (off) campus recruitment held at Nehru Engineering College (NCERC) on 13th Nov. 2019.

Mr Amal Unnikrishnan of S8ECE got placed in VVDN Technologies as Engineer(trainee)

Following students were got placement in Hexaware Technologies pvt .Ltd.

1. Archana Chandraprakash 2. Athira S 3. Catherine C Jejo

Following students received placement offer from Infosys

1. Ashila Mathews 2. Athira S 3. Avin K V 4. Greeshma K
5. Lakshmi P 6. Muhammed Arshad 7. Nimisha Tony 8. Priya K
9. Roshni J Nair

Following students received placement offer from Jobin & Jismi IT Services

1. Mary Jeethu A J 2. Vishnu K 3. Akhila krishnakumar 4. KAVYA SUNIL
5. SREELAKSHMI R

Mr. Amal Unnikrishnan of S8 ECE got placed in Quest Global Pvt. Ltd.

Following students received placement offer from UST Global

- | | | |
|---------------------|---------------------------|--------------------|
| 1. Catherine C Jejo | 2. Mareena Mariya Abraham | 3. Ashila Mathews |
| 4. Roshni J Nair | 5. Pooja P | 6. Mary Jeethu A J |
| 8. Vishnu K | | 7. Radhika |

Mr. Amal Unnikrishnan of S8 ECE got placed in Wipro Ltd.

Co-curricular & Extracurricular activities

- Ms. Arya of S6 ECE participated cleaning program as part of NSS at Vallathole grama panchayath and Cheruthuruthy health center on 25/01/20
- Ms. Arya, Ms. Steny, Ms. Rose Mary participated in an event of " RUN FOR UNITY" as a part of Republic Day Celebration on 26/01/20
- Mr. Gautham.P, Mr. Sarath Sankar, Mr. Sharik Basheer, Mr. Anlish, Mr. Sidharth P took part in Palliative day on 15-01-2020 at Chelakkara Hospital as part of NSS (Unit 140)
- Mr. Sarath Sankar, Mr. Anlish Shaju, Mr. Alex Davy, Mr..Sharik Basheer, Ms.Salma Mariya Michael, Mr. Nibin Thomas, Ms.Safa, Mr. Mithra B took part in Republic Day parade on 26-01-2020.

University Result Toppers

S7ECE -A



JULIT
THOMAS
SGPA : 8.84



AMAL
UNNIKRIISHNAN
SGPA : 8.66



AKHILA
KRISHNAKUMAR
SGPA : 8.55

S7ECE -B



MUBSHIRA K M
SGPA : 9.73



MAREENA
MARY ABRAHAM
SGPA : 9.3



MARY
JEETHU A J
SGPA : 9.16

S5ECE



VRINDA
SGPA : 8.7



MARIYA SHAJI
SGPA : 8.46



JEENA JOSE
SGPA : 8.43

S3ECE



BIJOY JOSHY
SGPA : 8.96



ANUSHA C E
SGPA : 8.56



JIBIN N V
SGPA : 8.17

WEBINAR

Smart Grid Technology and its opportunities

A webinar on "Smart Grid Technology and its opportunities" was conducted on 26/06/20 by Dr.Kumaravel S, Assistant Professor, Department of Electrical Engineering, NIT Calicut.

Faculty Achievements

Dr. V Shijoh, published a paper on "Distributed State Estimation of a Non-linear process system with interconnected subsystems, Second International Conference on Materials Science and Manufacturing Technology, Coimbatore, Tamil Nadu, India, 9-10 April 2020. (Available at IOP Conference Series: Materials Science and Engineering, Volume 872 (SCOPUS))



Dr.Shijoh.V acted as session chair and author for ICCCES-2020 International Conference, Perinthalmanna, India, 26-27 February 2020.



Dr. Jarin T published an article on "Neural Proliferation using Brain stimulation Methods Intended for Pediatric Neuropsychiatric Population: A Hypothesis and Theoretical Investigation" Article Info Volume 82 Page Number: 9138 – 9151 Publication Issue: January-February 2020 .

Dr. Jarin T published a paper on "Intelligent Parking Management System using Dijkstra's Algorithm with Driver Preferences" Test Engineering and Management February 2020.

Mr.Jenson Jose published a paper 'Hybrid Control of a Multi Area Multi Machine Power System with FACTS Devices using Non-linear Modelling' ,in IET Generation, Transmission & Distribution, February 2020.



Students Achievements

Amritha K., presented a paper on "Efficient Pollution Controller for Vehicles", In proc. of ICCCES-2020 Perinthalmanna, India, 26-27 February 2020.

Anitta Savy, presented a paper on "Automatic Solar Tracker", In proc. of ICCCES-2020 Perinthalmanna, India, 26-27 February 2020

Sneha, presented a paper on., " Ultrasonic smart glasses for blind", In proc. of ICCCES-2020 Perinthalmanna, India, 26-27 February 2020.

University Result Toppers

S3 M-Tech



SHAHINA E.P
SGPA : 7.76



GREESHMA C
SGPA : 7.47



TELMA JOHNSON
SGPA : 7.46

S7 EEE



JOHN JOSE
SGPA : 8.61



ARJUN S
SGPA : 8.41



ALBIN JOY
SGPA : 8.25

S5 EEE



SNEHA. J.P
SGPA : 9.67



K. U. MASOOR
SGPA : 8.78



ANITTA SAVY
SGPA : 8.7

S3 EEE



RAHUL S.S.
SGPA : 8.35



LIA JOHNSON
SGPA : 7.9



AJIL GEORGE
SGPA : 7.81

One Day Workshop

Harley Davison Design

In connection with the annual tech fest of Jyothi Engineering College THARANG-2020, Department of Mechanical Engineering, in association with SAE INDIA Collegiate Club Conducted a One Day Workshop on “Harley Davison Design”, on 06th of March 2020. The sessions handled by the experts from the INDUSTRUS TECH.



WEBINAR Resonance Free Mechanical Structures

The Department of Mechanical Engineering in association with SAEINDIA Collegiate club & Association of Mechanical Engg. Students(AMES) of Jyothi Engineering College was organized a webinar on "Resonance Free Mechanical Structures" on 23/06/2020 (Tuesday)11.00am. The session handled by Dr. Biju CV. Associate Professor, Dept. of Mech. Engg., Jyothi Engineering College, Cheruthuruthy, Thrissur.

WEBINAR Scanning Electron Microscopy and X-ray Microanalysis

The Department of Mechanical Engineering in association with the Institution of Engineers (IE) India, JECC Chapter was organized a Webinar on "Scanning Electron Microscopy and X-ray Microanalysis" on 20-06-2020 at 2.30 pm. The session handled by Dr. George Rapheal, Associate Professor, Dept. of Mech. Engg., Jyothi Engineering College, Cheruthuruthy, Thrissur.

WEBINAR Solar Photovoltaic System

The Department of Mechanical Engineering in association with SAEINDIA Collegiate club & Association of Mechanical Engg. Students(AMES) of Jyothi Engineering College was organized an International webinar on “Solar Photovoltaic System” on 26-06-2020 (Friday) 10.30 am. The session handled by Mr. Rajath Sasidharan, Sr. Project Engineer, Powergreen ME, Doha, Qatar



WEBINAR Intellectual Property Rights in Research: Knowing the basics

The Department of Mechanical Engineering, in association with ISTE–JECC Chapter is organized a webinar on “Intellectual Property Rights in Research: Knowing the basics”conducted on, 17/06/2020(Wednesday) at 2.30pm. Dr. Sreeda P, Women Scientist (Kiran IPR), KSCSTE, Kerala handled the session.



WEBINAR How to search and analyse effectively to get relevant and latest literature: Few time saving Tips

The Department of Mechanical Engineering, in association with Jyothi centre for Research and Development is organized a Webinar on "How to search and analyse effectively to get relevant and latest literature: Few time saving Tips" on 25-06-2020,2.00 pm. The Session handled by Dr. Ramesh L. Gardas, Professor, Department of Chemistry, Indian Institute of Technology Madras, Chennai.



Faculty Achievements

The project guided by Prof. Biju P L and Prof. Manoj Kumar titled „Ecofriendly management of used diapers and napkins got funding of amount Rs.49,000/- from CERD (Under KTU).



Mr. B. Deepanraj presented a paper titled “Biodiesel Production from Mixed Elengi and Pongamia Oil using Calcined Waste Animal Bone as a Novel Heterogeneous Catalyst in International Conference on Technological Advancements in Materials, Design, Manufacturing and Energy Sectors (ICT-AMDMES 20).

Mr. B. Deepanraj presented a paper titled „Solar Tracking – A Novel Approach in International Conference on Technological Advancements in Materials, Design, Manufacturing and Energy Sectors (ICTAMDMES 20)

Mr. B. Deepanraj presented a paper titled „Solar Tracking – A Novel Approach in International Conference on Technological Advancements in Materials, Design, Manufacturing and Energy Sectors (ICTAMDMES 20)



Mr. Nice Menachery presented a paper titled „Biodiesel Eco-friendly composite material from saw dust in International Conference on Technological Advancements in Materials, Design, Manufacturing and Energy Sectors (ICTAMDMES 20).

Cijil B. John published a research paper titled "Characterization, Combustion, Emission and Performance analysis of palm Stearin biodiesel on a Direct Injection diesel engine" in International Journal of Scientific and Technology Research (SCOPUS), Vol. 9, No. 4, April 2020, pp. 61-67.



Mr. Cijil B. John, published a research paper titled "Analysis of combustion, emission and performance attributes of hemp biodiesel on a compression ignition engine" in World Review of Science, Technology and Sustainable Development (SCOPUS), Vol.16, No. 2, pp. 169-183.



Dr. George Rapahel [Asso.Prof, ME] Handled a session on the topic "Scanning Electron Microscopy and X-ray Microanalysis" on 20-06-2020. A webinar organized by the Department of Mechanical Engineering in association with the Institution of Engineers (IE) India, JECC Chapter.

Mr. Anto Zacharias [AP-ME] and Mr. Sukesh O P [AP-ME] Coordinated a webinar on "Resonance Free Mechanical Structures" on 23/06/2020. The Department of Mechanical Engineering in association with SAEINDIA Collegiate club & Association of Mechanical Engg. Students (AMES) of Jyothi Engineering College.

Dr. George Rapahel [Asso.Prof, ME] Coordinated a webinar on "Scanning Electron Microscopy and X-ray Microanalysis" on 20-06-2020. Organized by the Department of Mechanical Engineering in association with the Institution of Engineers (IE) India, JECC Chapter

Mr. Jithin K Kuriakose [AP-ME] and Mr. Anto Zacharias [AP-ME] Coordinated an International webinar on “Solar Photovoltaic System” on 26-06-2020. The Department of Mechanical Engineering in association with SAEINDIA Collegiate club & Association of Mechanical Engg. Students (AMES) of Jyothi Engineering College.

Dr. Deepanraj B [Asso.Prof, ME] and Mr. Cijil B John [AP-ME] Coordinated a webinar on “Intellectual Property Rights in Research: Knowing the basics” conducted on, 17/06/2020. The Department of Mechanical Engineering, in association with ISTE–JECC Chapter.

Mr. Sheik Aftab S [AP-ME] and Dr. Deepanraj B [Asso.Prof, ME] Coordinated a Webinar on "How to search and analyse effectively to get relevant and latest literature: Few time saving Tips" on 25-06-2020. The Department of Mechanical Engineering, in association with Jyothi centre for Research and Development.

Dr. Deepanraj B [Asso.Prof, ME] Participated in a 5days Online FDP on Renewable Energy: Application & Entrepreneurship organized by S.S.B.T.'s, College of Engineering & Technology, Jalgaon on 26-05-2020 to 30-05-2020.

Mr. Manoj Kumar V K [AP-ME], Mr. Praveen Raj[AP-ME], and Mr. Nikhil NS [AP-ME], Attended two days online Workshop on Additive Manufacturing conducted by SA Engineering College, Chennai on 15-05-2020 to-16-05-2020.

Mr. Suneeth Sukumaran[AP-ME] Participated in a 5days Online FDP on Emerging Areas in Manufacturing Organized by Vimal Jyothi Engineering College on 25-05-2020 to 30-05-2020.

Mr. Nice Menachery[AP-ME] Participated FDP on Recent developments in aerospace engineering and aviation organized by Jawahar Engineering College, Lakkidy 06-01-2020 to 09-01-2020.

Ms. Nisha Sherief [AP-ME] attended a online Workshop on Design of Experiments-An Engineering Perspective conducted by JAER and hexacube India on 25-04-2020 to 27-04-2020.

Mr. Sukesh O P [AP-ME] and Mr. Christy V Vazhappilly [AP-ME] Participated a online 5days FDP on Novel Materials and its Industrial Applications organized by Karpagam College of Engineering, Coimbatore on 13-05-2020 to 18-05-2020.

Mr. Jithin K Kuriakose[AP-ME] and Mr. Anto Zacharias[AP-ME] Participated a online 5 days FDP on Introduction to Finite Element Analysis organized by Panimalar Institute of Technology on 11-05-2020 to 15-05-2020.

Students Achievements

Student's team of S6 ME B (Batch 2017-2021) Mr. Joshwin Emmanuel Johnson, Mr. Nihal Paul, Mr. Jose Joseph, Mr. Jishnu K, Mr. Joyal Varghese Jacob selected as one of the top 5 team in Rural India Business Conclave Agritech Hackathon Conducted by ICAR-CPCRI Agri Business Incubation Centre and Kerala Start up Mission.

Final year project titled "Viruzid UV Sterilizer" done by Mr. Christo Kollanur, Mr. Christo Varghese, Mr. Don Thomas, Mr. Adarsh Govindis guided by Mr. Nice Menachery got wide acceptance during the COVID-19 pandemic because of its suitability in disinfection procedure and they applied for patent (application number 202041022870) for the same.

Mr. Joshwin Emmanuel Johnson secured first prize with a cash worth 1 Lakhs in India Skills Kerala 2020 (Event: Mechanical CAD) conducted by Industrial Training Department (ITD) and Kerala Academy for Skills Excellence (KASE) under State Labour and Skills Department on February 2020.

Students team of S6 ME A (Batch 2017-2021) Mr. Arun Shaju K, Mr. Augasthya Kuruvila, Mr. Don A Kakkassery, Mr. Febin Sebastian, guided by Dr. Deepanraj B presented their project work titled 'Solar Tracking - A Novel Approach' at AICTE Sponsored International Conference ICTAMDMES'20 held at St. Joseph's College of Engineering, Chennai on Feb 20-21, 2020

Students team of S6 ME A (Batch 2017-2021) Mr. Adarsh Sunil, Mr. Arjun K M, Mr. Athul Thomas, Mr. Deepak M N (S6 ME A), guided by Mr. Nice Menachery presented their project work titled 'Eco-Friendly Composite Material From Saw Dust' at AICTE Sponsored International Conference ICTAMDMES'20 held at St. Joseph's College of Engineering, Chennai on Feb 20-21, 2020.

Students team of S8 ME A (Batch 2016-2020) Mr. Akshay .B.S, Mr. Akhilesh.P, Mr. Jithin P Mohan, Mr. John Dennis, guided by Ms. Nisha Sherief presented their project work titled 'ANTI-DROWNING SYSTEM FOR CARS' at AICTE Sponsored International Conference ICTAMDMES'20 held at St. Joseph's College of Engineering, Chennai on Feb 20-21, 2020.

Students of S4 ME A (2018-22) Mr. Abin K. Babu, Mr. Arun V. and Mr. Jipin Prakash attended an E-Learning Program On 'Measuring Instruments' - On 18/04/2020 Conducted By Tata Steel.

Students of S4 ME A (2018-22) Mr. Avin K. Thomas, Mr. Arun V., and Mr. Girisankar R. attended a 3 day online workshop on "Design of Experiments: An Engineering Perspective" organised by hexacube india, in association with the journal of advanced engineering research.

Mr. Jipin Prakash Student of S4 ME A (2018-22) attended an online workshop on "Ethical Hacking" organised by NSS College of Engineering, Palakkad.

Mr. Girisankar R., Mr. Avin K. Thomas, and Mr. Elbin Francis attended an online workshop on "Additive Manufacturing" conducted by S.A Engineering College, Chennai.

Mr. Abin K. Babu Student of S4 ME A (2018-22) attended a Quiz on 'Nutritional Aids on Covid-19' from 11/05/2020 to 14/05/2020 conducted by Sri Ranganathar Institute of Engineering & Technology, in association with Unnat Bharat Abhiyan Cell.

Mr. Vishnu V M Student of S4 ME B (2018-22) completed a 5 weeks MOOC Course on Intelligent Machining in COURSERA on May 2020

Mr. Nirmal Nixon Student of S4 ME B (2018-22) attended a BMW workshop conducted by EVM Autokraft - CCE, Irinjalakuda on February 2020.

Students of S4 ME B (2018-22) Mr. Vivek V K, Mr. Sanjay K S, Mr. Sanav S Pulikkal, Mr. K.Vishnu, Mr. Shibin Balachandran, Mr. Shejo Scaria Mr. Thomas NJ, Mr. Sharun George , Mr. Mohammed Shahin KP and Mr. Sahal Mohamed attended a 3 days online workshop on Design of experiments : An Engineering Perspective organized by Journal of Advanced Engineering Research on April 2020.

Mr. Mathew Francis, Mr. Sharun George and Mr. Justin Jose attended a online Workshop on Harley Davidson Design organized by SAE Collegiate club of JECC & Industrus Tech on March, 2020.

Ms. Reshma Unnikrishnan and Mr. Justin Jose participated a Webinar on solar photovoltaic system organized by department of Mechanical Engg., Jyothi Engineering College on 26 June 2020.

University Result Toppers

S7 ME A



DINSA DAVIS
SGPA : 8.8



EDWIN SABU
SGPA : 8.16



ANJO JOSEPH P.
SGPA : 8.14

S7 ME B



RAHUL.V.M.
SGPA : 8.91



KIRAN A.S.
SGPA : 8.77



SARETH. K. B.
SGPA : 8.23

S5 ME A



HARINARAYANAN.V
SGPA : 8.87



ARJUN. K. M.
SGPA : 8.52



ADITYA S NARAYAN
SGPA : 8.37



JEFFIN JOHNSON
SGPA : 8.37

S5 ME B



SREERAG VINOTH
SGPA : 8.78



SREEJITH V.
SGPA : 8.7



RINU ROSE VARGHESE
SGPA : 8.61

S3 ME A



JOE JOSEPH
SGPA : 8.63



ALJO JOHNSON
SGPA : 8.6



JIPIN PRAKASH
SGPA : 8.5

S3 ME B



PRANOY. P.
SGPA : 8.27



SWETHA. S.
SGPA : 8.08



K. VISHNU
SGPA : 8.04

WEBINAR

Introduction to Robotics

The Department organized a Webinar on "Introduction to Robotics" on 23rd July 2020. The resource person was Mr. Akhil V. M, research scholar, National Institute of Technology, Calicut.

WEBINAR

Modelling and Simulation.

In association with Indian Society for Technical Education (ISTE) student chapter of Jyothi Engineering College, the department organized a webinar on 31st July 2020 on "Modelling and Simulation."

Technical Talk

The department arranged a technical talk on 20th February 2020 by Mr. Rahul P.B., founder & CEO of Inker Robotics

Faculty Achievements



Mr. Jinesh K. J, participated in a startup-reality show conducted by Flowers TV in January 2020 and displayed their product "Lyza".

A webinar series was presented by Mr. Jinesh K. J, on 5th May 2020 and 19th May 2020 on the topic of "Introduction to Arduino" and "PCB Design and Simulation" in association with IEEE & IEEE Industry Applications Society.

Students Achievements

Mr. Basith Ali and Mr. Abhijith B. of S6 MR successfully completed the online quiz as part of World Environment Day 2020 organized by the NSS unit of AmalJyothi college of Engineering, Kanjirappally, Kerala.

Mr. Jose Ukken and Mr. Melwin V. G. of S4 MR participated in the Online Quiz competition based on life of Gandhi, organized by NSS units of TKM College of Engineering, under the patronages of NSS cell of APJ Abdul Kalam Technological University in commemoration of the 150 birth anniversary celebration of Mahatma Gandhi on March 21, 2020.

Mr. Evin B. Thaikkattil and Mr. Sanjay Sajikumar of S4 MR successfully participated in the Webinar on Power Electronics Converters for Electric Vehicle-New Generation Low Cost Solutions organized by IEEE & IEEE-IAS on 24 June, 2020.

Mr. Abhijith B. of S4 successfully completed the "General Awareness Quiz on Covid -19" conducted by National Service Scheme, NSS College Ottapalam on 17 May, 2020 with a score of 87%.

Following students of S6 MR attended workshop on Swarm Robotics organized by Jyothi Engineering College sponsored by ISTE student chapter

a. Mr. Leen David P. B. b. Mr. Nithinraj C. c. Mr. Godwin Davis Vadakkan

Mr. Dhiraj V. S. of S6 MR attended 6 days' internship at ITI Ltd., Palakkad from 06 January, 2020 to 13 January, 2020, he successfully completed a course on "Build a Simple App in Android Studio" with Java and "Use WordPress to Create a Blog for your Business" offered by Rhyme, through Coursera on 16 May, 2020. He has also successfully completed Career Edge-Knockdown the Lockdown, online course offered by TCS iON from 01 May, 2020 to 28 June, 2020

The following students of S6 MR successfully completed 12 weeks NPTEL online course "Joy of computing using python" offered by IIT Madras

a. Mr. Alphin Francis b. Mr. Abhishek N. c. Mr. Leen David P. B. d. Mr. BlisonBabu

Mr. Evin B. Thaikkattil of S4 MR successfully participated in Harley Davidson Design Workshop conducted during Tharang 2020 and organized by SAE (Society of Automotive Engineers) Collegiate Club of Government Engineering College Thrissur & Industries Tech held on March 6th, 2020 at Jyothi Engineering College, Thrissur.

Mr. BlisonBabu of S6 MR successfully completed a project on computer vision -object tracking with OpenCV& PYTHON and also completed "AI for Everyone" both courses offered by Coursera on 25th June, 2020.

Ms. Susan Jackson of S4 MR successfully completed the HTML Fundamentals course on 28th June 2020

Mr. Leen David P. B. of S6 MR successfully completed NPTEL MOOC Course on Python offered by IIT Madras, Design and Make Infographics provided by Michigan State University (Coursera), Speak English Professionally provided by Georgia Institute of Technology (Coursera), Introduction to Engineering Mechanics provided by Georgia Institute of Technology (Coursera), Artificial Intelligence provided by deeplearning.ai (Coursera). He also attended webinars on "Robotics Fundamentals" and "Design of Home Solar System organized by Sreepathy Institute of Management and Technology," "Resonance free mechanical structures" organized by department of mechanical engineering, Jyothi Engineering College, Thrissur.

The following students of S4 MR successfully completed the "The Joy of Computing using Python" conducted by IIT madras, NPTEL Online Certification on 17 April, 2020.

- a. Mr. Jothis R. Daas with a score of 89% b. Mr. Evin B. Thaikkattil with a score of 90%.

Mr. Sivadutt K. D. of S6 MR has successfully completed online courses Introduction to Project Management provided by Coursera, on 12 June, 2020 and Python Basics provided by University of MICHIGAN (Coursera), on 15 June, 2020.

Mr. Ajin M. G. has participated in an online quiz conducted by Akshaya college of Engineering and Technology, Coimbatore on 27th July 2020.

Mr. Sourav S. has successfully completed an online course on introduction on project management by coursera on 07 May 2020.

Mr. Nirmal James completed an online vocational training from Bharat Ratna Bhim Rao Ambedkar Institute of Telecom Training from 18th May 2020 to 29th May 2020



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