



# MANAKULA VINAYAGAR INSTITUTE OF TECHNOLOGY

KALITHEERALKUPPAM, PUDUCHERRY-605107

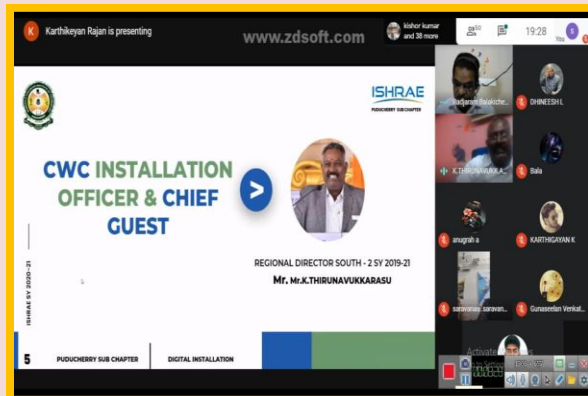
## DEPARTMENT OF MECHANICAL ENGINEERING

### NEWSLETTER 2020 – 2021 (EVEN SEM)

#### DEPARTMENT ACTIVITY

#### ISHRAE

✚ ISHRAE (The Indian Society of Heating, Refrigerating and Air Conditioning Engineers) Puducherry Subchapter in association with Department of Mechanical Engineering organized an ISHRAE Students Chapter 2020-21 “DIGITAL CWC RE-INSTALLATION CEREMONY” for Mechanical Engineering Students on 27<sup>th</sup> October 2020. The Chief Guest & CWC Installation Officer was Rtn. PHf. K. THIRUNAVUKKARASU, Regional Director, ISHRAE – South 2, India.

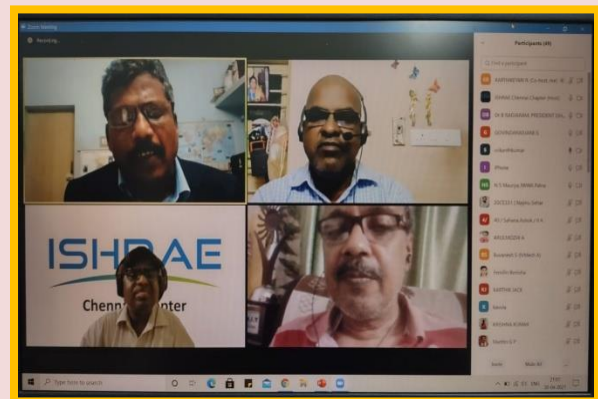


✚ ISHRAE Puducherry Subchapter in association with Department of Mechanical Engineering organized a GUEST LECTURE on the topic of “ECO-FRIENDLY REFRIGERANTS” by Dr. E. VIJAYAKRISHNA RAPAKA, Students Activities Chair, ISHRAE Puducherry Subchapter for

Mechanical Engineering Students on 27<sup>th</sup> October 2020.

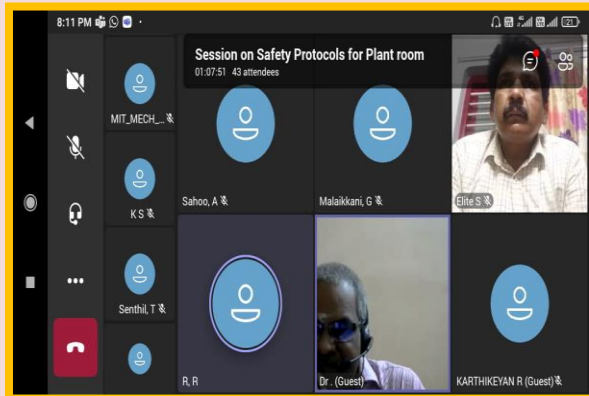


✚ A World Earth Day celebration Webinar for Mechanical Engineering Students on "RESTORE OUR EARTH" by Dr. R. SARAVANANE, Professor & Head, Civil Engineering Department, Pondicherry Engineering College, Puducherry is organized by ISHRAE Puducherry Subchapter in association with Department of Mechanical Engineering on 30<sup>th</sup> April 2021.

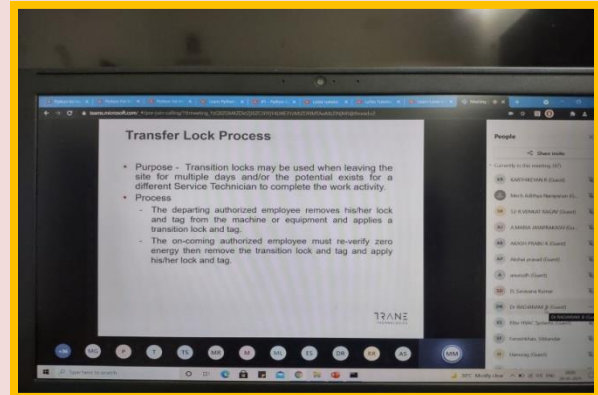


✚ ISHRAE Puducherry Subchapter in association with Department of

Mechanical Engineering organized a Webinar on “SAFETY PROTOCOLS FOR PLANT ROOM” presented by TEAM OF EXPERTS from TRANE TECHNOLOGIES, CHENNAI for Mechanical Engineering Students on 28<sup>th</sup> May 2021.

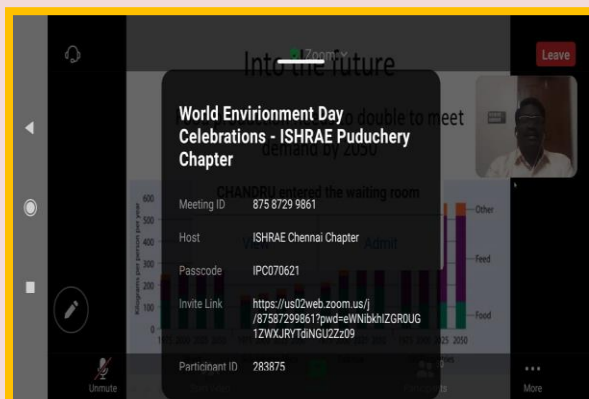


AUTOMATION” by TEAM OF EXPERTS from TRANE TECHNOLOGIES, CHENNAI is organized by ISHRAE Puducherry Subchapter in association with Department of Mechanical Engineering on 30<sup>th</sup> June 2021.



A World Environment Day - 2021 Webinar for Mechanical Engineering Students on “ECOSYSTEM RESTORATION” by Dr. S. SUNDARA RAMAN, Professor & Head, Department of Civil Engineering, SMVEC, Puducherry is organized by ISHRAE Puducherry Subchapter in association with Department of Mechanical Engineering on 7<sup>th</sup> June 2021.

ISHRAE Puducherry Subchapter in association with Department of Mechanical Engineering organized a DRAWING COMPETITION for 1<sup>st</sup> std to 12<sup>th</sup> std school Students to celebrate “WORLD ENVIRONMENTAL DAY 2021” on the Theme “ECO SYSTEM RESTORATION” on 30<sup>th</sup> June 2021. This competition were conducted on three level 1<sup>st</sup> std to 5<sup>th</sup> std, 6<sup>th</sup> std to 10<sup>th</sup> std and 11<sup>th</sup> std to 12<sup>th</sup> std and totally 200 drawings were received from all over south India and the Participation Certificate issued to the entire participants.



A World Refrigeration Day - 2021 Technical Talk for Mechanical Engineering Students on the topic “BENEFITS OF HVAC PLANT



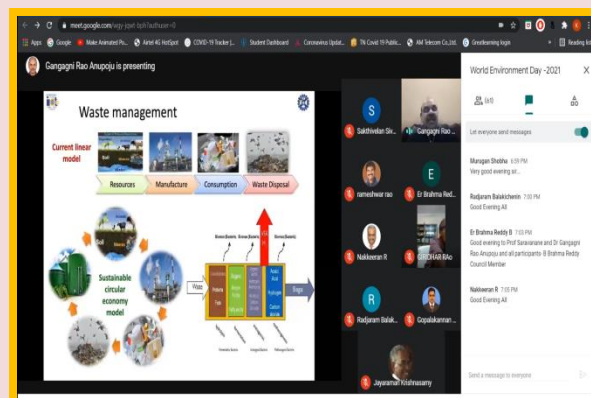
## IEI

✚ THE INSTITUTION OF ENGINEERS (INDIA) PUDUCHERRY STATE CENTRE in association with Department of Mechanical Engineering celebrated WORLD ENGINEERING DAY by organizing a guest lecture for 1<sup>st</sup> year students on the theme “ENGINEERING FOR A HEALTHY PLANET: CELEBRATING UNESCO ENGINEERING REPORT” by Dr. R. ILANSEZHIAN ME, PhD, Professor, Dept. of Mechanical Engineering & Placement Officer, Puducherry Technological University on 6<sup>th</sup> March 2021.

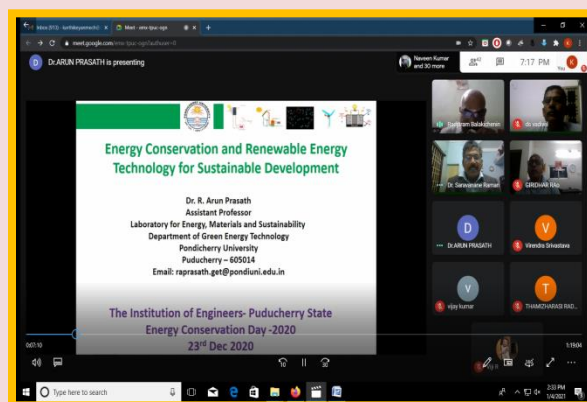


✚ THE INSTITUTION OF ENGINEERS (INDIA) PUDUCHERRY STATE CENTRE in association with Department of Mechanical Engineering celebrated WORLD ENVIRONMENT DAY for Mechanical Engineering Students on the theme “ECOLOGICAL RESTORATION” by DR. A. GANGAGNI RAO, Chief Scientist (CSIR-IICT) & Professor in Engineering Sciences (AcSIR), Centre for Environmental Engineering & Fossil Fuels (CEEFF), Bioengineering & Environmental Sciences (BEES) Group, CSIR- Indian Institute of Chemical

Technology (IICT), Tarnaka, Hyderabad on 5<sup>th</sup> June 2021.

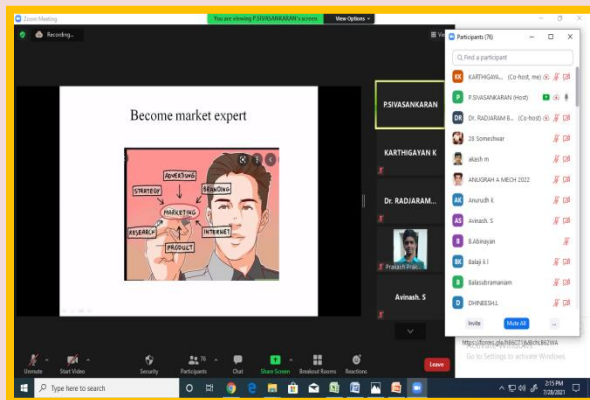


✚ THE INSTITUTION OF ENGINEERS (INDIA) PUDUCHERRY STATE CENTRE in association with Department of Mechanical Engineering celebrated ENERGY CONSERVATION DAY 2020 for Mechanical Engineering Students on the theme of “ENERGY CONSERVATION AND RENEWABLE ENERGY FOR SUSTAINABLE DEVELOPMENT” by Dr. R. ARUN PRASATH, Assistant Professor, Centre for Green Energy Technology, Pondicherry University, Puducherry on 23<sup>rd</sup> December 2020.



## ISTE

- INDIAN SOCIETY FOR TECHNICAL EDUCATION (ISTE) STUDENTS CHAPTERS in association with Department of Mechanical Engineering organized a Online Guest Lecture on “PROCEDURAL GUIDELINES TO BEGIN A STARTUP - OVERVIEW” on 28<sup>th</sup> July 2021 by Dr. P. SIVASANKARAN, Associate Professor, Department of Mechanical Engineering MVIT, Puducherry.



## NIQR

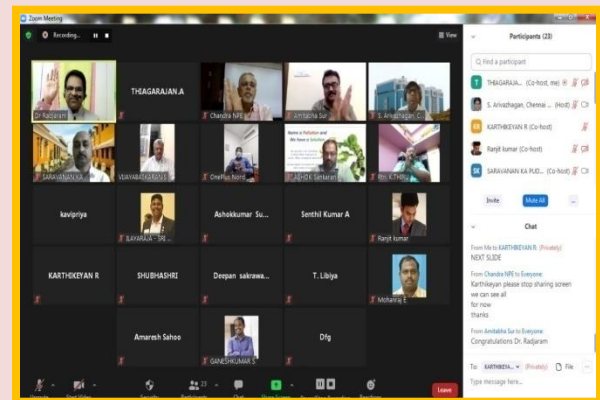
- NATIONAL INSTITUTION FOR QUALITY & RELIABILITY (NIQR), Chennai organized a Webinar on “PRINCIPLES OF QUALITY AND BRAIN STORMING” on 19<sup>th</sup> June 2021 by Mr. D. S. NAVALGUNDKAR, Director, C414 Lab & EC Member, NIQR, Pune Branch on the focus areas “How Stake holders understand Principles of Quality and apply in their area of working for improvements and How Brain Storming will make the organization effective by implementation and exploiting the potentials of the employees”. The sessions were attended by our staff members & students.

- NATIONAL INSTITUTION FOR QUALITY & RELIABILITY (NIQR), Chennai organized a Webinar on “MEASURE RIGHT EVERYTIME TO BUILD QUALITY AND WIN TRUST OF CUSTOMERS” on 12<sup>th</sup> December 2020 by Shri. P. K. AGGARWAL, Former National President, NIQR and Mr. D. C. DATTA, Vice President Corporate Affairs, OLA Electric. The sessions were attended by our staff members & students.

## STAFF ACTIVITIES

### AWARDS

- Dr. B. RADJARAM, Professor & Head of Department of Mechanical Engineering has been selected as a ‘PRESIDENT-ELECT” for the Professional Body ISHRAE on the duration of 1<sup>st</sup> April 2020 - 31<sup>th</sup> March 2021.



- Dr. P. SIVANKARAN has won a ‘BEST YOUNG RESEARCHER NATIONAL AWARD” in the field of “TEACHING, RESEARCH & PUBLICATIONS” given by IRB Group of Journals at 2<sup>nd</sup> International Conference on ERIR 2020 on 12<sup>th</sup> December 2020 at Chennai.



## **JOURNAL PUBLICATIONS**

- ✚ Mrs. S. Suganya has published a Paper on “DESIGN AND ANALYSIS OF CONDENSER OF BRAZE FRAME” in the Elsevier journals Scopus Indexed on 27<sup>th</sup> & 28<sup>th</sup> November 2020.
- ✚ Dr. P. Sivasankaran & Mr. R. Karthikeyan have presented a paper on “INDUSTRY 4.0 CHALLENGES AND OPPORTUNITIES IN EDUCATION SECTOR IN INDIA” in International Journal of Research - Granthaalayah on 2021.
- ✚ Dr. P. Sivasankaran & Dr. P. Baskaran have presented a paper on “OPTIMIZATION OF MACHINE SHOP LAYOUT FOR AUTOMOTIVE SPARES MANUFACTURING UNIT USING QFD” in International Journal of Application or Innovation in Engineering & Management (IJAIEM) – Scopus on 2021.
- ✚ Dr. P. Sivasankaran has presented a paper on “QUALITY CONCEPTS IN INDUSTRIAL SYSTEMS USING QFD (QUALITY FUNCTION DEPLOYMENT) – SURVEY” in International Journal of Industrial Engineering on 2021.

✚ Dr. P. Sivasankaran & Dr. P. Baskaran have presented a paper on “ANALYSIS OF PRODUCT RELIABILITY USING FAILURE MODE EFFECT CRITICAL ANALYSIS (FMECA) - CASE STUDY” in International Journal of Application or Innovation in Engineering & Management (IJAIEM) – Scopus on 2021.

✚ Mrs. S. Suganya has published a Paper on “DESIGN AND ANALYSIS OF DENTAL IMPLANT USING PEEK MATERIAL” in the Scopus Indexed Journal on May 8<sup>th</sup> 2021.

## **CONFERENCE**

✚ Dr. P. Sivasankaran has presented a paper on “SIMULATION & MATHEMATICAL MODEL FOR ROBOT TRAJECTORY PATH PLANNING USING ROBO DK SOLVER” in 4<sup>th</sup> IEEE International Conference on Systems, Computation, Automation & Networking (ICSCAN-2021) on 30<sup>th</sup> & 31<sup>st</sup> July 2021.

## **WEBINARS**

Dr. P. Sivasankaran has delivered a Webinar on...

- ✚ “CPM/PERT TECHNIQUES FOR PRODUCT LAUNCH” organised by Sanathana Research and Training Institute, Mysore on 13<sup>th</sup> March 2021.
- ✚ “PROCESS AUTOMATION” organised by Research Brains, Erode on 14<sup>th</sup> March 2021.
- ✚ “SUPPLY CHAIN MANAGEMENT FUNCTIONS AND ITS IMPORTANCE” organised by

Sanathana Research and Training Institute, Mysore on 24<sup>th</sup> April 2021.

### **TECHNICAL LECTURE SERIES**

Dr. P. Sivasankaran, has delivered a lecture on...

- ✚ “INTRODUCTION TO ROBOTIC SIMULATION” on 22<sup>nd</sup> November 2020 organized by Research Brains Academic Research Lab, Erode.
- ✚ “OPTIMIZATION TECHNIQUES FOR ENGINEERING” organized by Sanathana Research & Training Institute, Mysore, Karnataka on 29<sup>th</sup> November 2020.
- ✚ “PRESCRIPTIVE ANALYTICS-LINEAR OPTIMIZATION” organized by MIT, Puducherry on 18<sup>th</sup> December 2020.
- ✚ “PYTHON PROGRAMMING IN ROBOTICS – FUNDAMENTALS” organized by Research Brains, Erode on 24<sup>th</sup> Jan 2021.
- ✚ “PATENT DRAFTING” organized by Santhana Research and Training Institute, Mysore on 31<sup>st</sup> Jan 2021.
- ✚ “INDUSTRY 4.0 – CHALLENGES AND OPPORTUNITIES” organized by Santhana Research and Training Institute, Mysore on 20<sup>th</sup> June 2021.
- ✚ “QUALITY CONCEPTS IN EDUCATION-TODAY’S VIEW” organized by Santhana Research and Training Institute, Mysore on 27<sup>th</sup> July 2021.

Here the quality of teachers has been highlighted as the most important factor in determining the effectiveness of a system.

### **SPECIAL LECTURES**

Dr. P. Sivasankaran has delivered an Internal Special Lectures on “Lean Manufacturing in CIM”, “Flexible Manufacturing Systems in CIM”, “Comparison and Analysis of Sisal and Jute Fiber with Crushed PCB Using Epoxy Resin and Cashew Nut Shell Resin”, “Stir Casting Processes for Aluminum Alloy Composites” & “Implementing Manufacturing Resource Planning in a Greek Aerospace Company” on the dates of 7<sup>th</sup>, 8<sup>th</sup>, 12<sup>th</sup>, 17<sup>th</sup> & 21<sup>st</sup> June 2021 respectively.

### **FDP COURSE**

- ✚ Mr. B. Vasanth & Mr. M. Thirunavukarasu have participated in FDP on “Research aspects of Powder metallurgy based direct digital manufacturing” organized by Mepco Schlenk Engineering College from 2<sup>nd</sup> to 9<sup>th</sup> November 2020.
- ✚ Mrs. S. Suganya & Ms. R. Viji have participated in AICTE Training & Learning Academy (ATAL) FDP on “Electric Vehicles” organized by Hindustan Institute of Technology and science from 2<sup>nd</sup> to 9<sup>th</sup> November 2020.
- ✚ Mr. K. Karthigayan has participated in AICTE Training & Learning Academy (ATAL) FDP on “Additive Manufacturing” organized by Noida Institute of engineering and technology from 9<sup>th</sup> to 13<sup>th</sup> November 2020.
- ✚ Mr. B. Vasanth, Mr. J. Sugumaran, Mr. S. Ganesh Kumar, Mr. K. Selvam & Mr. R. Ranjit Kumar have participated in FDP on “Next Generation technology in manufacturing” organized by

Pondicherry Engineering College from 18<sup>th</sup> to 24<sup>th</sup> November 2020.

- ✚ Mr. A. Thiagarajan has participated in AICTE Training & Learning Academy (ATAL) FDP on “3D Printing & Design” organized by K.L.N. College of Engineering from 30<sup>th</sup> November to 4<sup>th</sup> December 2020.
- ✚ Mr. B. Vasanth & Mr. M. Thirunavukarasu have participated in AICTE Training & Learning Academy (ATAL) FDP on “Advancement in 3D printing and its future scope” organized by Symbiosis Institute of Technology from 8<sup>th</sup> to 12<sup>th</sup> December 2020.
- ✚ Mr. R. Ranjit Kumar has participated in FDP on “Essentials of solid edge” organized by ICT ACADEMY from 14<sup>th</sup> to 18<sup>th</sup> December 2020.
- ✚ Mr. M. Thirunavukarasu has participated in FDP on “Novel materials” organized by Malaviya national institute of technology from 4<sup>th</sup> to 8<sup>th</sup> January 2021.
- ✚ Dr. P. Sivasankaran has participated in FDP on “EMERGING TRENDS IN AUTOMATION” organized by Periyar Maniammai University, Thanjavur sponsored by AICTE from 24<sup>th</sup> to 30<sup>th</sup> March 2021.
- ✚ Dr. P. Sivasankaran has participated in FDP on “IMPORTANCE OF IPR AND RESEARCH FUNDING” organized by KC College of Engineering and Management, Mumbai from 7<sup>th</sup> to 9<sup>th</sup> June 2021.

✚ Mr. M. Thirunavukarasu & Mr. R. Karthikeyan have participated in FDP on “Role of materials in electric vehicles” organized by PDA college of Engineering from 7<sup>th</sup> to 11<sup>th</sup> June 2021.

✚ Mr. M. Thirunavukarasu & Mr. R. Karthikeyan have participated in FDP on “Plastics recycling and waste management” organized by Central institute of petrochemicals engineering & technology from 14<sup>th</sup> to 18<sup>th</sup> June 2021.

✚ Mr. B. Vasanth, Mr. K. Karthigayan, Mr. M. Thirunavukarasu & Mr. R. Karthikeyan have participated in FDP on “Role of Additive Manufacturing” organized by Chennai institute of technology from 21<sup>st</sup> to 25<sup>th</sup> June 2021.

✚ Mr. A. Thiagarajan has participated in AICTE Training & Learning Academy (ATAL) FDP on “Thermodynamic analysis of energy systems” organized by Institute of Engineering & Technology from 12<sup>th</sup> to 16<sup>th</sup> July 2021.

### **CERTIFICATION COURSE**

Dr. P. Sivasankaran has completed a Certification Courses “CYBER SECURITY” & “INTRODUCTION TO PROJECT MANAGEMENT”.

### **STTP COURSE**

Mr. M. Thirunavukarasu, Mr. B. Vasanth, Mr. R. Karthikeyan, Ms. R. Viji & Mrs. S. Suganya have participated in 6-Day AICTE Sponsored Short Term Training Programme (STTP) Series on RECENT ADVANCES IN TRIBOLOGY AND SURFACE ENGINEERING: Series 4 on

“Surface Characterization and Treatments in Tribology” held on 23-28<sup>th</sup> November 2020.

### **TRAINING PROGRAMME**

Dr. P. Sivasankaran has attended an one month Online Training Programme on “INNOVATION AMBASSADOR” organized by IIC, MHRD from 31<sup>st</sup> June to 30<sup>th</sup> July 2021.

### **WEBINARS**

Dr. P. Sivasankaran has attended a Webinar on

- ✚ “OPERATION RESEARCH IN POST PANDEMIC” organized by ORSI Meerut Chapter from 17/12/20 to 20/12/20.
- ✚ “SAFETY PROTOCOLS FOR PLANT ROOM” organized by ISHRAE Puducherry Subchapter in association with MIT on 29<sup>th</sup> May 2021.
- ✚ “ENTREPRENEURIAL MINDSET” organized by Sanathana Research and Training Institute, Mysore on 30<sup>th</sup> May 2021.
- ✚ “GREEN EDUCATIONAL CAMPUS” organized by ASSOCHAM on 10<sup>th</sup> June 2021.
- ✚ “BIG DATA ANALYTICS AND IOT” organized by ORSI on 12<sup>th</sup> June 2021.

### **LECTURE SERIES**

Dr. P. Sivasankaran has attended An Expert Lecture on “ADVANCES IN INVENTORY CONTROL & SUPPLY CHAIN MANAGEMENT (SERIES 1 & 2)” organized by ORSI Meerut Chapter on 8<sup>th</sup> November & 5<sup>th</sup> December 2020.

### **STUDENTS ACTIVITIES**

- ✚ Mr. R. Parthiban, of 4<sup>th</sup> year has participated in the MICIREDS Network Technologies (Pearson VUE-Authorized Test Centre) COURSES “312-50 CERTIFIED ETHICAL HACKER”, “200-301-CISCO CERTIFIED NETWORK ASSOCIATE” & “SY0-501-COMPTIA SECURITY PLUS” during the period from August to October 2020, September to December 2020 & December 2020 to February 2021.
- ✚ Mr. T. Guru Prashanth of 4<sup>th</sup> year, Mr. M. Akash, Mr. A. Anugrah, Mr. A. Balaji Yadav, Mr. J. Bala Sundaram, Mr. V. Gunaseelan, Mr. M. Sanjaay & Mr. R. Venkat Ragav of 3<sup>rd</sup> year have participated in “AUTODESK FUSION 360 DESIGN NOW EVENT” organized by ICT ACADEMY on 9<sup>th</sup> April 2021. This Autodesk fusion 360 is the first 3D CAD/CAM tool of its kind, connecting your entire product development process in a single cloud based tool. It helps students quickly iterate on design ideas with sculpting tools and provide test environment with photorealistic renderings and create a prototype at the simplest way.
- ✚ Mr. M. Akash, Mr. A. Anugrah, Mr. K. Deepak Raj, Mr. V. Gunaseelan, Mr. S. Habeejdheen, Mr. R. Prathapan, Mr. D. Praveen, Mr. P. Roman Bharathi, Mr. P. Sedhumadhavan, Mr. Shyam Raj, Mr. S. Sriram & Mr. S. Vijayaraj of 3<sup>rd</sup> year have participated in Three Days Online WORKSHOP on “PYTHON PROGRAMMING” from 12<sup>th</sup> to 14<sup>th</sup> May 2021.



- ✚ Mr. S. Poonkundran of 4<sup>th</sup> year has awarded for undergone BOSCH TRAINING online COURSES “Basics of Diesel & Gasoline Engine”, “Advancements in Diesel & Gasoline Injection System”, ”Bosch Auto Electrical(Alternator, Generator & Battery)” & “Vehicle Air-Conditioning Systems & Functions” from 2<sup>nd</sup> to 8<sup>th</sup> June 2021.
- ✚ Mr. S. Poonkundran of 4<sup>th</sup> year has participated in the Virtual INDUSTRIAL TRAINING organized by ASHOK LEYLAND on “Advanced Automobile Familiarization” held on 1<sup>st</sup> to 16<sup>th</sup> July 2021.
- ✚ Mr. R. Mukesh of 3<sup>rd</sup> year has participated in Online COURSE on “JAVA PROGRAMMING” provided by Great Learning Academy on July 2021.
- ✚ Mr. P. Sedhumadhavan of 3<sup>rd</sup> year has participated in COSHH (Control of Substances Hazardous to Health) Awareness organized by THE INTERNATIONAL ASSOCIATION FOR CHEMICAL SAFETY, THE KNIGHTS SAFETY & THE SAFER CHEMICAL INITIATIVE on 15<sup>th</sup> May 2020.
- ✚ Mr. P. Sedhumadhavan of 3<sup>rd</sup> year has participated and won in the Online E-QUIZ PROGRAM on “Laplace Transform” organized by MARATHWADA MITRA MANDAL INSTITUTE OF TECHNOLOGY, LOHGAON, PUNE on 16<sup>th</sup> May 2020.
- ✚ Mr. P. Sedhumadhavan of 3<sup>rd</sup> year has participated and won the Online “QUIZ ON MECHANICS OF MATERIAL” organized by AISSMS College of Engineering, Pune on 16<sup>th</sup> May 2020.
- ✚ Mr. P. Sedhumadhavan of 3<sup>rd</sup> year has participated in the WEBINAR on “Scope For Electrical Engineers in Electric Vehicles” organized by SAVEETHA ENGINEERING COLLEGE, CHENNAI on 28<sup>th</sup> May 2020.
- ✚ Mr. P. Sedhumadhavan of 3<sup>rd</sup> year has participated and won the “QUIZ ON ELECTRICAL ENGINEERING” organized by K.S.R.M College of Engineering-KADAPA on 9<sup>th</sup> June 2020.

**PLACEMENT DETAILS**

<b>S. No.</b>	<b>REG. NO.</b>	<b>NAME</b>	<b>SECTION</b>	<b>COMPANY NAME</b>
1	17TB1202	ANANDAMOZHI . S	A	TCS
2	17TB1215	DEEPESH.M	A	Q ENERGY
3	17TB1225	GURU PRASHANTH .T	A	LSE
4	17TB1230	HARIHARAN . V	B	Q ENERGY
5	17TB1230	HARIHARAN . V	B	TRIEMP TECHNOLOGIES
6	17TB1230	HARIHARAN . V	B	RELIGARE INSURANCE
7	17TB1232	JEYAPRAKASH.S	A	Q ENERGY
8	17TB1236	LOGESH.M	B	SUTHERLAND
9	17TB1244	NANDUNARAYAN . N	A	SUTHERLAND
10	17TB1247	NITHISHKUMAR.B	A	QENERGY
11	17TB1248	PARTHIBAN.R	A	SUTHERLAND
12	17TB1261	RIFAY RAHMAN MARAICAR .M	B	Q ENERGY
13	17TB1264	SAKTHIVEL.S	A	QENERGY
14	17TB1265	SANTHOSH KUMAR .R	B	Q ENERGY
15	17TB1275	SHIVA SANKAR.J	A	QENERGY
16	17TB1276	SIVA PRAKASH.R	A	Q ENERGY
17	17TB1278	SRIDHAR . M	A	SUTHERLAND
18	17TB1282	TAMIL VENDAN . K	A	Q ENERGY
19	17TB1282	TAMIL VENDAN . K	A	LSE
20	17TB1283	VENKATESH.R	B	ACCENTURE
21	17TB1286	VIGNESH.R	A	Q ENERGY
22	17TC1174	POONKUNDRAN.S	A	RELIGARE INSURANCE

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