



THAMIRABHARANI ENGINEERING COLLEGE

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)
Chathirampudukulam, Chidambaranagar - Vepemkulam Road
Thatchanallur, Tirunelveli 627 358, Tamil Nadu.

6.3.3.1. Total number of professional development/administrative training Programmes organized by the institution for teaching and non teaching staff year wise during the last five years

HUMAN RESOURCE DEVELOPMENT CENTRE

2016-17 TO 2020-21

Human Resource Development Centre is to enrich the teacher with skills. The world is changing faster than ever and our skill sets have a shorter life: the world is getting more connected than ever before: in this connected world, mentorship takes on new importance and meaning: challenges we face are multi-faceted requiring 5 systems thinking & socio-technical sensibilities; and while skills are important, so are mind sets and dispositions. The professional development programme is organized every year. The score of HRDC is to cater the needs of teachers as decided by the UGC from time to time. The function of a HRDC is to plan, organize, implement, monitor and evaluate various programmes. Thamirabharani Engineering College organizes Faculty Development Programmes at regular intervals on the topics such as teaching methodology, research methodology.

- During the academic year 2016-2017, TEC organized 5 professional development programme for the faculty members of TEC and 2 administrative training program for non teaching staff.
- During the academic year 2017-2018, TEC organized 9 professional development programme for the faculty members of TEC and 2 administrative training program for non teaching staff.
- During the academic year 2018-2019, TEC organized 14 professional development programme for the faculty members of TEC and 1 administrative training program for non teaching staff.
- During the academic year 2019-2020, TEC organized 13 professional development programme for the faculty members of TEC and 2 administrative training program for non teaching staff.

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- During the academic year 2020-2021, TEC organized 10 professional development programme for the faculty members of TEC and 1 administrative training program for non teaching staff.

6.3.3.1. Total number of professional development/administrative training Programmes organized by the institution for teaching and non teaching staff year wise during the academic year 2016 - 2017

Dates (from-to) (DD-MM-YYYY)	Title of the professional development program organised for teaching staff	Title of the administrative training program organised for non-teaching staff	No. of participants
2016-2017			
13.07.2016	Advances In Finite Element Analysis		15
05.12.2016	Fundamentals Of Dynamics		13
19.12.2016 - 23.12.2016	English For Engineers		83
13.02.2017	Energy Production And Distribution		10
08.03.2017		Training Program on "Effective Office Administration & Financial Management"	30
24.05.2017	Electric Power System		10
26.08.2017		Training program on "Electrical Safety and Maintenance"	30


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6.3.3.1. Total number of professional development/administrative training Programmes organized by the institution for teaching and non teaching staff year wise during the academic year 2017 - 2018

Dates (from-to) (DD-MM-YYYY)	Title of the professional development program organised for teaching staff	Title of the administrative training program organised for non-teaching staff	No. of participants
2017 - 2018			
05.09.2017	Design of Experiment		32
18.09.2017		Workshop on "Maintenance of Laboratory Equipment"	22
05.10.2017	Seminar on Advanced Fluid Mechanics		17
10.11.2017	Introduction to MS Office		20
13.11.2017	Seminar on Smart Phone Technology		36
11.12.2017 - 15.12.2017	Mathematical modeling in real life problems		40
02.02.2018	Seminar on Design of experiments using Taugchi Technique		45
08.02.2018 - 09.02.2018		Hands on training in "Microsoft Word"	23
02.03.2018	Seminar on Dimensional Analysis of Flow		16

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23.04.2018	Ethical hacking and cyber security		19
25.04.2018	Seminar on Semiconductor device theory & Practice		30

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Dates (from-to) (DD-MM-YYYY)	Title of the professional development program organised for teaching staff	Title of the administrative training program organised for non-teaching staff	No. of participants
2018 – 2019			
11.07.2018	Seminar on Research Methodology		36
13.07.2018	Seminar on Application of fluid kinematics		14
19.07.2018	Seminar on Electric motor control		10
13.09.2018	Seminar on Concepts of scheduling in real-time systems		36
08.10.2018-09.10.2018		Training program on "SS"	45
8.10.2018 - 12.10.2018	Seminar on Articulated idea for outcome based education		45
13.11.2018	Working of Signal Generator		19
14.11.2018	Modern aspects of soft computing using MATLAB		19
12.12.2018	Professional Development Program on Recent Advances In Engineering & Technology "		19
13.12.2018	Seminar on Digital Watermarking Techniques and its Application		20

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05.02.2019	Recent trends on mobile Application development		25
04.03.2019	Seminar on Product Development using Computational Fluid Dynamics		23
21.03.2019	Seminar on Unsymmetric Bending Analysis		25
23.04.2019	Seminar on Design concept in FPGA and ASIC		19
06.03.2019	Seminar on An Analysis of Python Programming Language		25


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Dates (from-to) (DD-MM-YYYY)	Title of the professional development program organised for teaching staff	Title of the administrative training program organised for non-teaching staff	No. of participants
2019 – 2020			
12.06.2019	Seminar on Application of Traction Control		18
12.08.2019	Seminar on Advances in Refrigeration and Air Conditioning		30
23.09.2019	Seminar on Designing a Smart Home using Arduino and Wi-Fi module		15
17.09.2019	ICT tools for effective learning and teaching		25
04.10.2019		Training program on “Cleanliness and safety in college campus”	23
15.10.2019	Seminar on " Database Backup, Recovery and Tuning"		20
09.12.2019	Seminar on Research Initiatives and Research Article Preparation		30
10.12.2019	Seminar on Energy Saving Tips		21
03.02.2020	Seminar on Data Science and Big data Analytics		19
06.02.2020	Seminar on "Introduction to neural network and fuzzy logic"		22

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08.02.2020	Technical Seminar on Solar Energy		30
11.03.2020	Seminar on Combined Bending and Testing		16
19.03.2020	Social media impact on education system		19
23.03.2020	Seminar on Advancements in Biomedical Signal Processing		20
06.04.2020		Seminar on Tally ERP Trainig program	24


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Dates (from-to) (DD-MM-YYYY)	Title of the professional development program organised for teaching staff	Title of the administrative training program organised for non-teaching staff	No. of participants
2020 – 2021			
13.10.2020	Seminar on Advances in Internal Combustion Engines		22
16.10.2020	Webinar on Embedded systems for EV Applications		10
25.11.2020	Workshop on ANSYS		14
25.11.2020	Webinar on Hybrid Electric vehicle using Matlab and Simulink		10
09.12.2020	Professional Development Program On Research Methodology		19
24.01.2021	Seminar on "Industry 4.0"		36
08.02.2021	Seminar on "Wireless Broadband Communication"		28
17.02.2021	Relation between cost and efficiency of turbines		14
15.03.2021	Seminar on Advances in Homogeneous Charge Compression Ignition Engines		36
06.04.2021		Training on "Fire and safety awareness Program"	45
01.05.2021	Webinar on Art of Teaching Pedagogy		50


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Report of "ADVANCES IN FINITE ELEMENT ANALYSIS "

Date: 13.07.2016; Time: 04.00 p.m. – 05.00 p.m.

Venue: Mechanical Seminar Hall

Resource Person

Mr. M. A. Raja,
AP/CIVIL,
F.XEC



The objective of the programme is The staff get knowledge on advances in finite element analysis and its applications.

The program started with a welcome address and introduction to the resource person by Mr.T.Subash, Assistant Professor and MECHANICAL Department. 15 faculty members attended the seminar. The resource person explained in detail about Advances in finite element analysis, The finite element method forms an important branch of computational mechanics and applied mathematics, and it has been


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broadly adopted in scientific research and engineering applications. The session concluded with an interactive session between the instructor and the Staff in which the queries of the staff were addressed satisfactorily. The session ended with a vote of thanks by Mr. P. Prabakaran AP/MECHANICAL.



P. Prabakaran
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Report of Seminar on "FUNDAMENTALS OF DYNAMICS"

Date: 05.12.2016; Time: 03.00 p.m. – 04.00 p.m.

Venue: Mechanical Seminar Hall

Resource Person

Mr. S. Raja MuniyaSamy,
AP/CIVIL



The objective of the programme the staff gets knowledge on Fundamentals of Dynamics and its applications. The program started with a welcome address and introduction to the resource person by Mr.AL. Karthikeyan, Assistant Professor and HOD of MECHANICAL Department. 13 faculty members attended the seminar. The resource person explained in detail about fundamentals of dynamics. This course

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covers the material typically included in a first university course in engineering mechanics: Dynamics. The focus of the course is on the fundamentals of dynamics and also is concerned with the study of forces and their effects on motion. The session concluded with an interactive session between the instructor and the Staff in which the queries of the staff were addressed satisfactorily. The session ended with vote of thanks by, Mr. P. Prabakaran AP/MECHANICAL.




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Report of Training program on “Electrical Safety and Maintenance”

Date: 26-08-2016; Time: 11.00 am

Venue: TEC Seminar Hall

Resource Person

Mr.E. Subramanian M.E.,
AP/EEE

The program started with a welcome address and introduction to the resource person and our Chairman Mr.Paulraj along with our Principal, Dr. K. Asan Mohideen were led that event.

The following points were discussed:

- The issues (statistics) associated with poor electrical safety in the workplace.
- Describe the intent of an Electrical Safety Program and list the essential elements of an effective program.
- List types of electrical hazards to personnel and describe the nature of the hazards related to:
 1. Electric shocks, arcs and blasts
 2. Fault current and potential difference
 3. Electrical safety in industrial plants


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- Define and differentiate between qualified and unqualified persons.
- Describe other safety related work practices to protect from electrical hazards including:
 1. Selection and use of work practices
 2. De-energized work practices
 3. Energized work practices
 4. Approach boundaries and approach distances
 5. Requirements for use of test instruments and equipment
 6. Requirements for insulated tools
 7. Other equipment such as ladders, barricades, signs

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Report of Seminar on "ENERGY PRODUCTION DISTRIBUTION AND SAFETY"

Date: 13.02.2017; Time: 01.30 p.m. – 03.30 p.m.

Venue: Electrical Machines Laboratory

Resource Person

Mr. S. Sundararaj,
AP/EEE

The objective of the programme the staff gained knowledge on energy production distribution and safety. The program started with a welcome address and introduction to the resource person by Mr. E. Subramanian, AP/EEE. The resource person explained in detail about energy production distribution and safety.

Resource person started with the absolute basics of energy production and he discussed its distribution and safety. Towards the end he briefed the topic safety measures during energy production. The session concluded with an interactive session between the instructor and the staff in which the queries of the teachers were addressed satisfactorily.

The session was very clear, understandable and informative. The session ended with a vote of thanks by the program coordinator, Mr. E. Subramanian, AP/EEE.


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Report of Training Program on "Effective Office Administration & Financial Management"

Date: 08-03-2017; Time: 11.00 am

Venue: TEC Seminar Hall

Resource Person

Mrs.P.Saravanaselvi M.E.,

AP/ECE

The program started with a welcome address and introduction to the resource person and our Chairman Mr. Paulraj along with our Principal, Dr. K. AsanMohideen were led that event. The following points were discussed:

- Needs of the organisations with the focus on providing inputs for improved resource management and enhancing managerial adaptability to meet the requirements of fast changing work environment.
- Some of the important skills required for Effective Office Administration (EOA) can be identified as leadership qualities, communication skills, human resource management, financial management etc.


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- Good Financial Management is essential for an organization to succeed
- To provide an understanding on the concept of Effective Office Administration and Financial Management.
- To help the participant to develop skills for team work and conflicts management.
- To understand various aspects of Financial Management.
- To provide the participants with an opportunity to share their experiences and also to understand different managerial styles

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Report of Seminar on "ELECTRIC POWER SYSTEMS"

Date: 24.05.2017; Time: 02.30 p.m. – 04.00 p.m.

Venue: Electrical Machines Laboratory

Resource Person

Mr. T. Ravi

AP/EEE

The objective of the programme the staff gained knowledge on electric power systems. The program started with a welcome address and introduction to the resource person by Mr. S. Sundararaj, AP/EEE. The resource person explained in detail about Electric power system. Resource person introduced the electric power system, from the generation of electricity. Towards the end he briefed about common components like power cable and transformers.

The session concluded with an interactive session between the instructor and the staff in which the queries of the teachers were addressed satisfactorily. The session was very clear, understandable and informative. The session ended with a vote of thanks by Mr. M. Selva Prasath, AP/EEE.

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Report Of Faculty Development Programme On Advanced Fluid Mechanics

Date: 05.10.2017; Time: 11.00 a.m. – 01.00 p.m.

Venue: Mechanical Seminar Hall

Resource Person

Mr. M. Muthu Ganesh,
HOD/CIVIL,
PSNCFE



The objective of the programme Enhanced understanding of fluid mechanics, including the equations of motion in differential form, and turbulence. Understand the basic concepts in computational fluid

M. M. Ganesh
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dynamics (CFD). Understand the basic elements in the use of commercial CFD software.

The program started with a welcome address and introduction to the resource person by Mr. AL Karthikeyan, Assistant Professor and HOD of MECHANICAL Department. The resource person explained in detail about this course is a survey of principal concepts and methods of fluid dynamics. Topics include

- Mass conservation, momentum
- Navier-stokes equation for viscous flows
- Similarity and dimensional analysis
- Lubrication theory
- Boundary layers and separation
- Circulation and vortices theorems
- Potential flow
- Introduction to turbulence
- Lift and drag
- Surface tension and surface tension driven flows.


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The session concluded with an interactive session between the instructor and the Staff in which the queries of the staff were addressed satisfactorily. The session ended with vote of thanks by Mr. P. Arumugam AP/MECHANICAL.


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Report of Workshop on Maintenance of Laboratory Equipment

Date: 18-09-2017; Time: 11.00 a.m.

Venue: TEC Seminar Hall

Resource Person

Mr. A. L. Karthikeyan

AP/MECH

Thamirabharani Engineering College

The program started with a welcome address introduction to the resource person by Mr. AL Karthikeyan, Assistant Professor and HOD of MECHANICAL Department and our Chairman Mr. Paulraj along with our Principal, Dr. K. Asan Mohideen were led that event.

The following points were discussed:

- Developing standard operating procedures for all lab equipment.
- Preparing documentation on each specific equipment, outlining the repairs and maintenance undertaken.
- Outlining a preventive maintenance program for each equipments.

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- Training both technical and managerial staff on proper use and care of lab equipment.
- Standard Operating Procedure for Maintenance of Lab Equipment
- Equipment Maintenance Documentation
- Preventive Maintenance Program
- Training Laboratory Staff on Equipment Maintenance
- General Care Tips for Lab Equipment
 1. Cleaning
 2. Calibration
 3. Repairs and Refurbishments
 4. Quality Replacement


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Report Of Training Program in “Microsoft Word”

Date: 08-02-2018 and 09-02-2018; Time: 11.00 a.m.

Venue: TEC Seminar Hall

Resource Person

Mr. D. G. David M.E

AP/CSE

Thamirabharani Engineering College

The program started with a welcome address introduction to the resource person by Mr. D. G. David, Assistant Professor and CSE Department and our Chairman Mr. Paulraj along with our Principal, Dr. K. Asan Mohideen were led that event. The following points were discussed:

- The features which are well suit for a large scale document project.
- How to pick up the most efficiency ways to start the project.
- How to keep the document's format consistent
- The format and design various layouts suitable for reports
- How to manage and use templates to standardize their projects


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- Describe the formats and styles related to work practices including:

1. Using list style
2. Header and Footer
3. Border and shading
4. Lines spacing
5. Table of Contents (TOC) and index
6. Managing text and graphics
7. Advanced Formatting
8. Math Calculation
9. Adding figures in columns or rows

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Report Of Faculty Development Program In Dimensional Analysis Of Flow

Date: 02-03-2018 ; Time: 03.00 p.m. – 04.00 p.m.

Venue: Mechanical Seminar Hall

Resource Person

Mr. S. Raja Muniya Samy

AP/CIVIL

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The objective of dimensional analysis, technique used in the physical sciences and engineering to reduce physical properties, such as acceleration, viscosity, energy, and others, to their fundamental dimensions of length (L), mass (M), and time (T).



The program started with a welcome address and introduction to the resource person by Mr. AL. Karthikeyan, Assistant Professor and HOD of MECHANICAL Department. The resource person explained in detail about Dimensional analysis offers a method for reducing complex


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physical Problems to the simplest (that is, most economical) form prior to obtaining a quantitative answer.

Bridgman (1969) explains it thus: "The principal use of dimensional analysis is to deduce from a study of the dimensions of the variables in any physical system certain limitations on the form of any possible relationship between those variables. The method is of great generality and mathematical simplicity".

The session concluded with an interactive session between the instructor and the Staff in which the queries of the staff were addressed satisfactorily. The session ended with vote of thanks by, Mr. P. Prabakaran AP/MECHANICAL.


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Report Of Faculty Development Program Semiconductor Devices: Theory & Practice

Date: 25-04-2018 ; Time: 10.00 a.m. – 12.00 p.m.

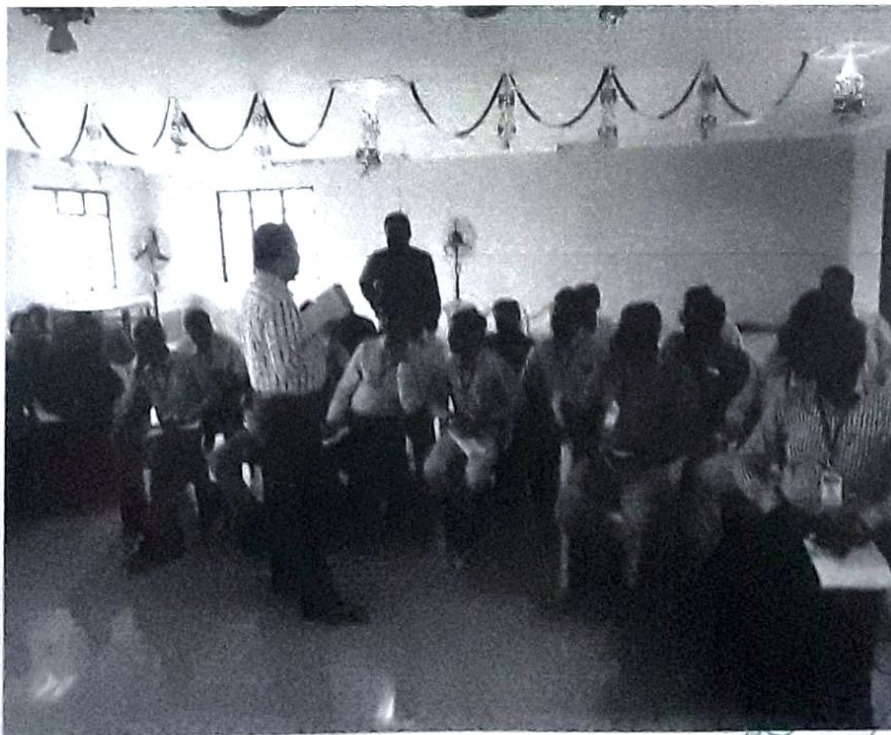
Venue: Mechanical Seminar Hall

Resource Person

Mr. Syed Ahamed

HOD / EEE,

Thamirabharani Engineering College



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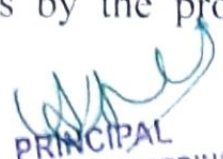
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The program started with a welcome address and introduction to the resource person by Mrs. A. Kanagalakshmi, HoD of ECE Department. The resource person explained in detail about basic semiconductor material characteristics.



Resource person conveyed the importance of basic semiconductor electronic devices and its practical applications. The session concluded with an interactive session between the instructor and the staff members in which the queries of the staff were addressed satisfactorily. The session was very clear, understandable and informative. The session ended with vote of thanks by the program coordinator, Mr. S. R. Sam kingsley, AP/ECE.


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Report Of Faculty Development Programme On Electric Motor Control

Date: 19.07.2018; Time: 10.00 a.m. – 11.00 a.m.

Venue: EEE Electrical Machines Laboratory

Resource Person

Mr. S. Arumuga Kani,
AP/EEE,
TEC



The main objective of the Seminar is to give a clear insight to the Faculty on electric motor control.

The program started with a welcome address and introduction to the resource person by Prof. A. Arun Mutharasu, Assistant Professor and


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HoD of EEE Department, 10 faculty members of the EEE department attended the seminar. The resource person explained in detail about Electric motor control.

The HoD motivated the Faculty to derive the importance of the seminar. The session concluded with an interactive session between the instructor and the Faculty. The session was very clear, understandable and informative. The session ended with a vote of thanks by the program coordinator, Mr. S. Sundararaj, AP EEE.



The staff got knowledge on Design, analyze, install alternating current motor, motor starters and control circuits.

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Report Of Faculty Development Programme On Electric Motor Control

Date: 19.07.2018; Time: 10.00 a.m. – 11.00 a.m.

Venue: EEE Electrical Machines Laboratory

Resource Person

Mr. S. Arumuga Kani,
AP/EEE,
TEC


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Report Of Faculty Development Programme On CONCEPTS OF SCHEDULING IN REAL-TIME SYSTEMS

Date: 13.09.2018; Time: 01.00 p.m.


Venue: CSE Main Lab

Resource Person

Mr. D. G. David M. E.,
AP/CSE,
TEC



The main objective of the seminar is to understand the Concepts of Scheduling In Real-Time Systems.


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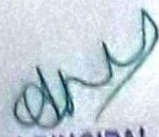
The program started with a welcome address and introduction to the resource person was given by Dr. A. Anna Lakshmi HoD/CSE. 36 faculty members of all departments attended the seminar. The resource person explained in detail Real-time systems are systems that carry real-time tasks. These tasks need to be performed immediately with a certain degree of urgency. In particular, these tasks are related to control of certain events (or) reacting to them. Real-time tasks can be classified as hard real-time tasks and soft real-time tasks.

A hard real-time task must be performed at a specified time which could otherwise lead to huge losses. In soft real-time tasks, a specified deadline can be missed. This is because the task can be rescheduled (or) can be completed after the specified time.

In real-time systems, the scheduler is considered as the most important component which is typically a short-term task scheduler. The main focus of this scheduler is to reduce the response time associated with each of the associated processes instead of handling the deadline.

If a preemptive scheduler is used, the real-time task needs to wait until its corresponding task's time slice completes. In the case of a non-preemptive scheduler, even if the highest priority is allocated to the task, it needs to wait until the completion of the current task. This task can be slow (or) of the lower priority and can lead to a longer wait. The session was concluded with vote of thanks by the program coordinator, Mrs. M. Suganthi M. E., AP/CSE.

The students can understand and real-time scheduling System is composed of the scheduler, clock and the processing hardware elements.


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Report Of Faculty Development Programme On CONCEPTS OF SCHEDULING IN REAL-TIME SYSTEMS

Date: 13.09.2018; Time: 01.00 p.m.

Venue: CSE Main Lab

Resource Person

Mr. D. G. David M. E.,
AP/CSE,
TEC


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Report Of Faculty Development Programme On Research

Methodology

Date: 11.07.2018; Time: 04.00 p.m. – 05.00 p.m.

Venue: CSE Main Lab

Resource Person

Dr. D. David Neels Ponkumar,
HOD/ECE,
SACOE



The objective of research should address the underlying purpose of investigation and analysis. It should outline the steps you'd take to achieve desirable outcomes. Research objectives help you stay focused and adjust your expectations as you progress.

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The program started with a welcome address and introduction to the resource person by Mr.AL. Karthikeyan, Assistant Professor and HOD of MECHANICAL Department. 36 faculty members attended the seminar. The resource person explained in detail about Research Application means use of a Licensed Product or component thereof for research and clinical research applications. For purposes herein, the performance of a clinical trial using a Licensed Product during the Collaboration shall be deemed a Research Application.

The session concluded with an interactive session between the instructor and the Staff in which the queries of the staff were addressed satisfactorily. The session ended with vote of thanks by, Mr. P. Prabakaran AP/MECHANICAL



The staff got knowledge on Research Methodology and its applications


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Report Of Seminar Application Of Traction Control

Date: 16.06.2019; Time: 04.00 p.m. – 05.00 p.m.

Venue: Mech Seminar Hall

Resource Person

Dr. Vimala Ebanesar,

Prof/Civil,

VVCOE

The objective of Traction control is an electronic means of reducing the wheel spin caused by the application of excessive power for the valuable grip. Wheel spin can result in loss control of the car, reduce acceleration and cause tire wear.

The program started with a welcome address and introduction to the resource person by Mr. AL. Karthikeyan, Assistant Professor and HOD of MECHANICAL Department. The resource person explained in detail about A traction control system (TCS), also known as ASR a secondary function of the electronic stability control (ESC) on production motor vehicles, designed to prevent loss of traction of the driven road wheels. TCS is activated when throttle input and engine power and torque transfer are mismatched to the road surface conditions.


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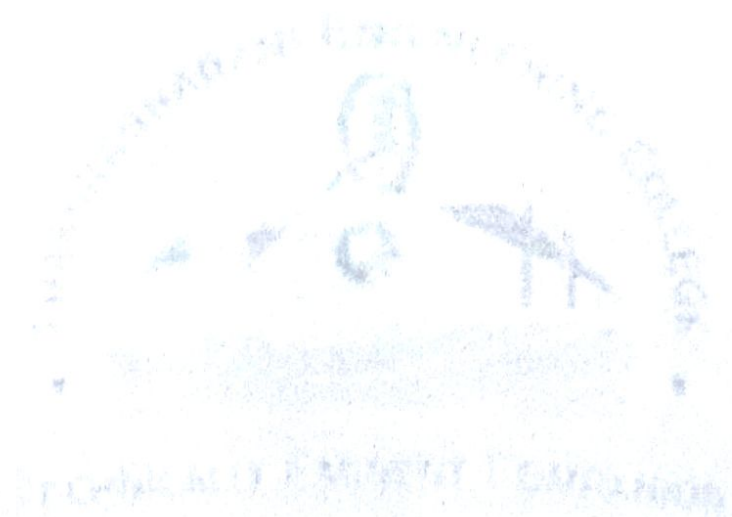
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The session concluded with an interactive session between the instructor and the Staff in which the queries of the staff were addressed satisfactorily. The session ended with vote of thanks by Mr. R.Saravana Kumar AP/MECHANICAL.



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Report Of Seminar Advances In Refrigeration And Air Conditioning

Date: 12.08.2019; Time: 04.00 p.m. – 05.00 p.m.

Venue: CSE Main Lab

Resource Person

Mr. T. Subash,
MECHANICAL

The objective of refrigeration, the process of removing heat from an enclosed space or from a substance for the purpose of lowering the temperature.

The program started with a welcome address and introduction to the resource person by Mr.AL.Karthikeyan ,Assistant Professor and HoD of MECHANICAL Department. The resource person explained in detail about Refrigeration and air conditioning are generally treated in a single subject due to the fact that one of the most important applications of refrigeration is in cooling and dehumidification as required for summer air conditioning. As mentioned before, air-conditioning is one of the major applications of refrigeration.

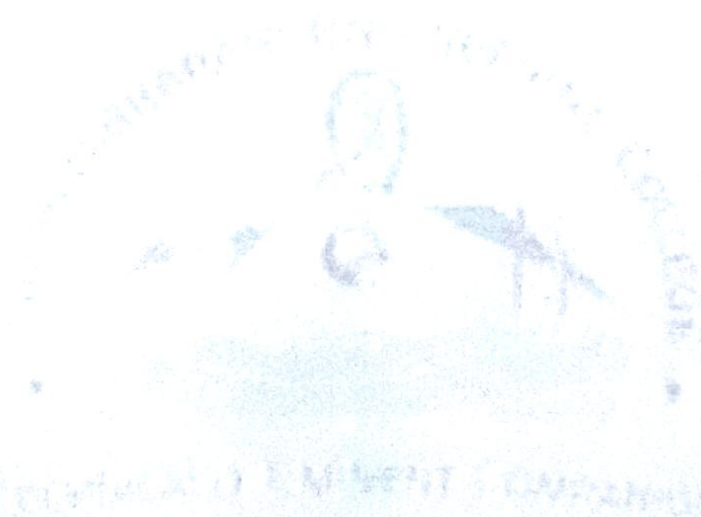
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The session concluded with an interactive session between the instructor and the Staff in which the queries of the staff were addressed satisfactorily. The session ended with vote of thanks by Mr. P. Prabakaran AP/MECHANICAL.



P. Prabakaran
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Report Of Seminar On "Designing A Smart Home Using Arduino And Wi-Fi Module"

Date: 23.09.2019; Time: 10.00 a.m. – 12.00 p.m.

Venue: CSE I Lab

Resource Person

Mr. S. Ramar Kalangiam,

Assistant Professor,

Department of ECE.




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The main objective of the Seminar is to get an exposure on "Designing a Smart Home using Arduino and Wi-Fi module" to strengthen the student community through our faculty.



The program started with a welcome address and introduction to the resource person by Mrs. Saravana Selvi, AP of ECE Department. 15 faculty members from various branches attended this Seminar. The resource person explained in detail about How to use and control home appliances by using Arduino and Wi-Fi modules? And it was very helpful and quite interesting for our staff members to update


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themselves in using recent technologies. It was literally an eye opening session to many of us.

The session ended up with an interactive session between the instructor and the faculty members. The session was very clear, understandable and informative. Towards the end of the program feedback from all the participants were collected. It was a resounding success with the vote of thanks proposed by the program coordinator, Mr. V. Arunachalam, AP/ECE.

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Report Of Webinar On "Embedded Systems For Ev Applications"

Date: 16.10.2020; Time: 01.00 p.m. – 03.00 p.m.

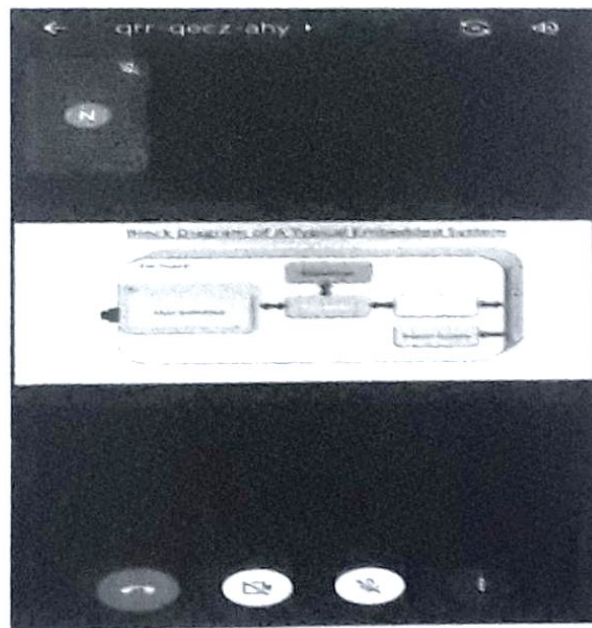
Meeting Platform : Google Meet

Resource Person

Mr. S. ArumugaKani,

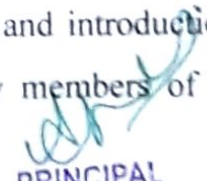
Assistant Professor.

Department of EEE.



The main objective of the webinar is to give a clear insight to the staff on embedded systems for EV applications.

The program started with a welcome address and introduction to the resource person by Mr. E. Perumal, AP/EEE. 10 faculty members of the EEE


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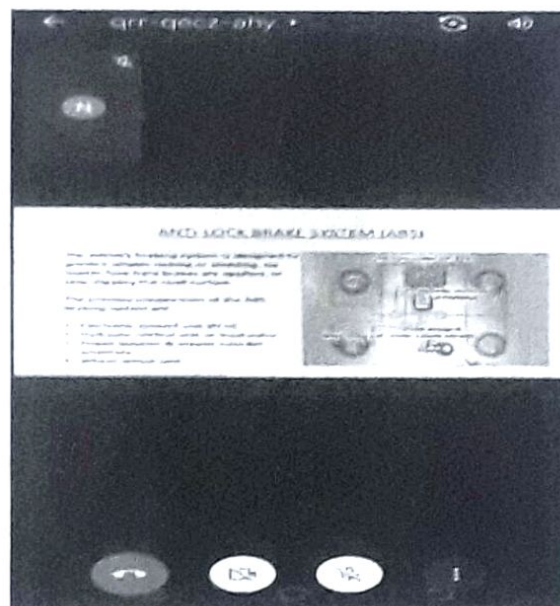
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department attended the webinar. The resource person explained in detail about embedded systems for electric vehicle applications. Resource person started with the absolute basics of embedded systems and he discussed application of embedded systems in electric vehicles.



Towards the end he briefed about the software design techniques that are followed within conventional automation systems domain. The session concluded with an interactive session between the instructor and the staff in which the queries of the teachers were addressed satisfactorily. The session was very clear, understandable and informative. The session ended with a vote of thanks by the program coordinator, Mrs. S. Nazrin Salma, AP/EEE.

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Report Of Seminar On "INDUSTRY 4.0"

Date: 24.01.2021; Time: 03.00 p.m. – 04.00 p.m.

Venue : CSE Main Lab

Resource Person


Mr. S. Harris Simon,

Assistant Professor,

Department of Mechanical,



The objective of The essential goal of Industry 4.0 is to make manufacturing and related industries such as logistics faster, more efficient and more customer - centric, while at the same time going beyond automation and optimization and detect new business opportunities and models.


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The program started with a welcome address and introduction to the resource person by Mr.AL. Karthikeyan, Assistant Professor and HOD of MECHANICAL Department. 36 faculty members attended the seminar. The resource person explained in detail about Industry 4.0 is driving faster and more flexible production, with increasing levels of customization. Taken to an extreme, seamless production systems should be capable of switching out of serial processes to manufacture a single part just as quickly and efficiently as they can make multiple parts.

The session concluded with an interactive session between the instructor and the Staff in which the queries of the staff were addressed satisfactorily. The session ended with a vote of thanks by Mr. P. Prabakaran AP/MECHANICAL.

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Report Of Seminar On "Advances In Homogeneous Charge Compression Ignition Engines"

Date: 15.03.2021; Time: 03.00 p.m. – 04.00 p.m.

Venue : CSE Main Lab

Resource Person

Mr. AL. Karthikeyan,

HOD, Assistant Professor,

Department of Mechanical

The objective of The objective of this study is to illustrate the engine performance and emission characteristics of HCCI engines at different test conditions and various challenges associated with these engines.

The program started with a welcome address and introduction to the resource person by Mr. V. Antony, Assistant Professor of MECHANICAL Department. 36 faculty members attended the seminar. The resource person explained in detail about HCCI combines characteristics of conventional gasoline engine and diesel engines. Gasoline engines combine homogeneous charge (HC) with spark ignition (SI), abbreviated as HCSI. Modern direct injection diesel engines combine stratified charge (SC) with compression ignition (CI), abbreviated as SCCI. As in HCSI, HCCI injects fuel during the intake stroke. However, rather than using an electric discharge (spark) to ignite a portion of the mixture, HCCI raises density and temperature by compression until the entire mixture reacts


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spontaneously. Stratified charge compression ignition also relies on temperature and density increase resulting from compression.

However, it injects fuel later, during the compression stroke. Combustion occurs at the boundary of the fuel and air, producing higher emissions, but allowing a leaner and higher compression burn, producing greater efficiency. The session concluded with an interactive session between the instructor and the Staff in which the queries of the staff were addressed satisfactorily. The session ended with vote of thanks by Mr. P. Prabakaran, AP/MECHANICAL



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