



# ARUNACHALA

## COLLEGE OF ENGINEERING FOR WOMEN

Manavilai, Vellichanthai, Kanyakumari District - 629 203.

Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai.  
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### **3.2.1 Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge (Patents filed, Published, Incubation center facilities in HEI to be considered)**

Arunachala College of Engineering for Women has established a research environment for Innovation, Knowledge creation, knowledge transfer, and the skill development among the students and faculty members. It focuses on production and transmission of knowledge through well-established infrastructure, the developed research ecosystem that aims as fostering research and innovation.

The programs related to Research and Development (R&D), Intellectual Property Rights (IPR) and Entrepreneurship were conducted to create the awareness among the students and faculty members. Arunachala College of Engineering for Women has signed MOUs with numerous businesses and organizations to conduct a variety of skill-development initiative targeted at encouraging student's entrepreneurship.

### **RESEARCH AND DEVELOPMENT CELL**

Since the Inspection, Arunachala College of Engineering for Women took continuous efforts to encourage the Faculty and Students to enhance their skills through Research and Development Cell by the way of participating in Conferences, Seminars, Workshops, Project expos etc.


### **VISION**

Foster research and a culture of innovation in contemporary technology to address social and engineering challenges.

### **MISSION**

To promote an innovative culture and practice among students, to turn ideas into technology and startups, to develop innovators and entrepreneurs within the student body, and to foster partnerships with other top universities, R&D centers, and business sectors.



  
**Dr. S. JOSEPH JAWHAR**  
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### OBJECTIVES OF R&D CELL

The main objective is to inspire and encourage the students and faculty members to bring out their talents in various disciplines of Engineering. It also includes

- To create awareness among the Faculty and Students
- To create adequate research funds
- To promote more MoUs with leading Industries for enhancing the consultancy and research activities
- To provide a platform for sharing available research facilities
- To motivate faculty and students to present/publish Research paper in reputed national & international journals
- Conducting various Faculty Development programs, Workshops, Conferences and Seminars with association of various organizations like CSIR, ISTE, IEEE, Anna University and AICTE.

### R&D COMMITTEE MEMBERS

Sl.NO	NAME	DESIGNATION	POSITION
1	Dr.S.Joseph Jawhar	Principal	Chairman
2	Dr.T.Sasikala	Professor	Member
3	Dr.R.Ablin	Professor	Member
4	Dr.Naveena A Priyadharsini	Associate Professor	Member
5	Dr.R.Baby Shalini	Associate Professor	Member
6	Dr.R.Anuja	Associate Professor	Member
7	Dr.A.S.Monikandan	Associate Professor	Member
8	Ms.C.Pushpalatha	Assistant Professor	Member



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9	Ms.R.Jothi	Assistant Professor	Member
10	Dr.C.Agees Kumar	Professor	Member Secretary

The program organized related to Research Methodology, Intellectual Property Rights (IPR) and Entrepreneurship during the last five year are listed below.

Number of Workshop/Seminar/Conference	Academic Year					Total number of programs
	2022- 2023	2021- 2022	2020- 2021	2019- 2020	2018- 2019	
Intellectual Property Rights (IPR)	7	2	2	2	2	15
Research Methodology	7	7	4	4	4	26
Entrepreneurship	4	4	4	4	4	20
<b>Cumulative Number of Workshop/Seminar/Conference</b>	18	13	10	10	10	61

### PROGRAMS RELATED TO INTELLECTUAL PROPERTY RIGHTS (IPR)

The following Intellectual Property Rights (IPR) Programs are conducted during academic year 2022-2023. The following Programs are on IPR Awareness Program, Patents Appeals & The legal Process, Industrial Property, Problem Solving and Ideation, Design thinking, critical thinking and Innovation Design and Prototype design and Development.

In our college during 2022-2023 academic year 7 Programs are conducted in different topics. **Department of Electrical and Electronics Engineering** Organized a Seminar on Patents Appeals & The Legal Process (Intellectual Property Rights) on 12-01-2023. The session was especially designed for the faculty members and students. Resource Person



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explains about Patents Appeals & The Legal Process which is a special day designated to commemorate the Indian thinker, philosopher, and social leader, Swami Vivekananda's birth anniversary. The Government of India marked 12th January as National Youth Day to celebrate this great man and his achievements. In India, Patent Appeals promote awareness of people's rights and to provide information about them.



**Seminar on Patents Appeals & The Legal Process (Intellectual Property Rights) on 12-01-2023 at 10 am by Mr. M. Rose Cyril Xavier, Assistant General Manager Retd. (BSNL).**

**Department of Electrical and Electronics Engineering** Organized a Seminar on Industrial property (Intellectual Property Rights) on 20-01-2023. The session was especially designed for the faculty members and students. The event includes Intellectual property (IP) for startups include using copyrights, trademarks, and patents. Safeguarding IP is much easier in the beginning phases of your business than after those ideas have become successful. The role of intellectual property rights for startups is IP rights such as patents, trademarks.



**Seminar on Industrial property (Intellectual Property Rights) on 20-01-2023 at 11.30 am by Ms.M.Mohana Lakshmi.**



*Dr. S. Joseph Xavier*  
**Dr. S. JOSEPH XAVIER**  
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**Department of Civil Engineering** Organized a Seminar on IPR Awareness Program (Intellectual Property Rights) on 10-02-2023. The session was especially designed for the faculty members and students. Intellectual Property Rights awareness is vital to Generation of IPRs and then Commercialization of IPRs which is why IPR Awareness: Outreach and Promotion is the first and foremost objective of the National IPR Policy. Secondly, active participation of relevant government bodies and universities will also promote IPR awareness among university students. Lastly, talks, seminar, contests and training on IPR are some of the activities suggested in order to encourage IPR awareness among university students. All types of IP may be protected by the Indian Central Board of Excise and Customs which acts to prevent the import of allegedly infringing goods into India, as long as the IP has been year. The session was very interactive and students learnt many things.



**Seminar on IPR Awareness Program (Intellectual Property Rights) on 10-02-2023 at 10.30 am by Mr.A.Seetha Raman, Examiner of Patents & Design, Intellectual Property Office, Government of India.**

**Department of Civil Engineering** Organized a Seminar on Innovation Development Technology Readiness level and Tech transfer (Intellectual Property Rights) on 17-02-2023. The session was especially designed for the faculty members and students. A technology that has achieved Technology Readiness Level is the one that has been incorporated fully into a larger system. It has been proven to work smoothly and is considered operational. An example of an operational Technology Readiness Level technology are the fuel cells which combine hydrogen and oxygen to generate electricity for NASA's space shuttle. Our students are encouraged to develop technology readiness level in IPR.



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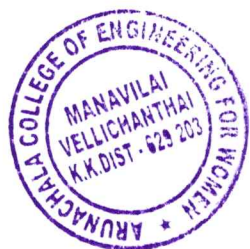


**Seminar on Innovation Development Technology Readiness level and Tech transfer (Intellectual Property Rights) on 17-02-2023 at 10 am by Mr.J.Kumaran , Communication and soft skill trainer.**

**Department of Electrical and Electronics Engineering** Organized a Workshop on Problem Solving and Ideation (Intellectual Property Rights) on 22-02-2023. The session was especially designed for the faculty members and students. Resource Person explains about Problem-solving which requires both an ability to correctly define a problem and finding a solution to it. Ideation in turn is often regarded as creativity, the ability to come up with new ideas and ways of doing, of testing the ideas and thus solving problems. A problem-solving workshop is a rapid session that helps you: Understand the root cause of a problem. Quickly generate ideas to solve it. Evaluate the ideas to ensure they're robust.



**Workshop on Problem Solving & Ideation Workshop (Intellectual Property Rights) on 22-02-2023 at 10 am by Dr.J.Merrylin,, Assistant Professor, Department of Nutrition and Dietetics, SadakathullahAppaCollege,Trinelveli**



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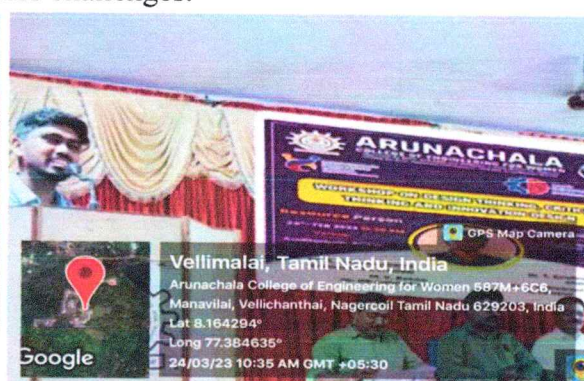


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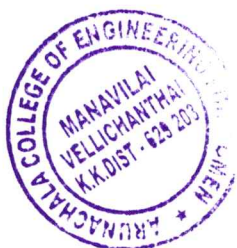
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**Department of Electronics and Communication Engineering** Organized a Seminar on Workshop on design thinking, critical thinking and Innovation Design (Intellectual Property Rights) on 24-02-2023. The session was especially designed for the faculty members and students. Resource Person explains about design thinking, critical thinking and innovation design. Innovation is one of the key parts of design thinking that participates strongly in its success. Design thinking is an iterative process that leads to perfection by focusing on the customer's problems and finding a solution to help them. A Design Thinking workshop is a collaborative session that is focused on the five phases of Design Thinking. It's a process that is designed to encourage creative problem solving and innovation from each member of the group in order to address business challenges.



**Workshop on Design thinking, Critical thinking and Innovation Design (Intellectual Property Rights) on 24-02-2023 at 11 am by Mr.A.K. Shanmuganathan, Soft skill trainer Naandi Foundation at Chennai.**

**Department of Electronics and Communication Engineering** Organized a Workshop on Prototype/process design and Development (Intellectual Property Rights) on 23-03-2023 & 24-03-2023. The session was especially designed for the faculty members and students. Resource Person explains about the prototype development is about defining the product type and deciding various attributes such as customers' requirements, problem statement, and the conceptual design of the product. Before you get ahead with prototype development, you should know that prototype development is expensive and can consume time. The session was very interactive for the students and they were able to become program developers.



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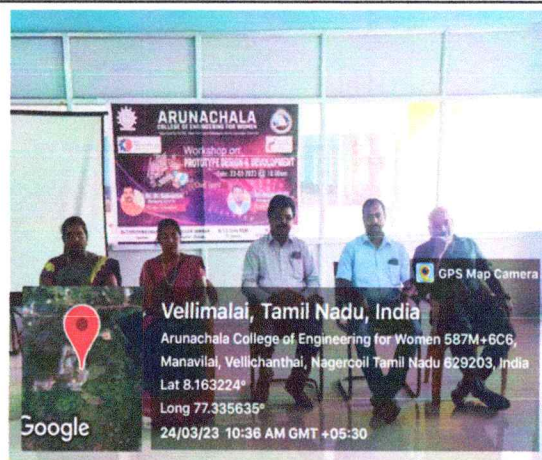


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**Workshop on Prototype Design and Development (Intellectual Property Rights) on 23-03-2023 and 24-03-2023 at 10 am by Er.B.Sebastin & Er.Jackson Managing Director, TV care, Trivandrum.**

### ACADEMIC YEAR 2021-2022

The following Intellectual Property Rights (IPR) Programs are conducted during academic year 2021-2022. The following Programs are on IPR Awareness Program, IP and Patents. In our college during 2021-2022 academic year 2 Programs are conducted in different topics.

The Program was organized by **Department of Computer science and Engineering**. The seminar was inaugurated at 10.00am on 03-03-2022. Resource Person delivered a lecture on An awareness on IPR (Intellectual Property Rights). This will help the students for realizing the goals of the National IPR Policy. Enhanced IPR awareness amongst the citizens of the country would result in an increased IP Portfolio of the country. This would mean an increase in the IP's generated domestically, increased competitiveness of the Indian industry both domestically and globally as well as economic growth. The session was especially designed for the faculty members and students. Our students are encouraged to become successful engineers. The session was very interactive and students learnt many things and they were able to become innovative engineers.



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**Seminar on An Awareness on IPR (Intellectual Property Rights) on 03-03-2022 at 11 am by Mr.M. Rose Cyril Xavier, Assistant General Manager (Retd), BSNL.**

**Department of Civil Engineering** Organized a Seminar on IP and Patents (Intellectual Property Rights) on 22-03-2022. The session was especially designed for the faculty members and students. Resource Person delivered about the awareness on IP and how to prepare Patents. This session has induced the students to be learned about the patent's creation and its rights. He shared some of real time examples regarding patents. Our students are encouraged to put patents. Our students are also encouraged to become successful engineers. The session was very interactive and students learnt many things and they were able to become innovative engineers



**Seminar on IP& Patents (Intellectual Property Rights) on 22-03-2022 at 11 am by Mr.C.Dinesh**



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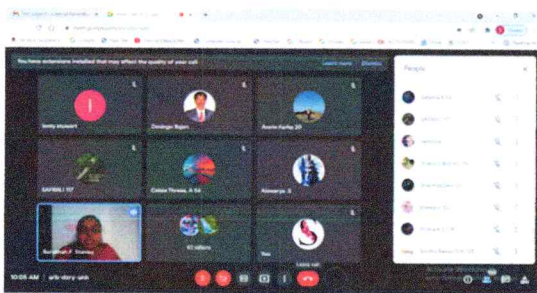
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### ACADEMIC YEAR 2020-2021

The following Intellectual Property Rights (IPR) Programs are conducted during academic year 2020-2021. The following Programs are on Intellectual Property Resources and Enforcement in Trade Secret Rights.

In our college during 2020-2021 academic year 2 Programs are conducted in different topics. **Department of Electronics and Communication Engineering** Organized a Webinar on Enforcement in Trade Secret Rights (Intellectual Property Rights) on 28-08-2020. The session was especially designed for the faculty members and students. Trade secrets are protected without registration, that is, trade secrets require no procedural formalities for their protection. A trade secret can be protected for an unlimited period of time, unless it is discovered or legally acquired by others and disclosed to the public. Trade secrets are a key component of IP portfolios helping businesses protect their secret formulas, know-how and other key information that gives them a competitive edge. The resource person delivered a lecture on Enforcement in Trade Secret Rights. He explained how a person can enforce in Trade Secret Rights. The session was very interactive and students learnt many things and they became aware of Trade Secret Rights.



**Webinar on Enforcement in Trade Secret Rights (Intellectual Property Rights) on 28-08-2020 at 10 am by Ms. Berakhah F. Stanley .**

**Department of Computer Science and Engineering** Organized a Webinar on Intellectual Property Resources (Intellectual Property Rights) on 28-12-2020. The session was especially designed for the faculty members and students. Intellectual property includes copyright law, patent law, trademark law, and the law of trade secrets (although other related fields are often included as well). Copyright law grants a set of exclusive rights



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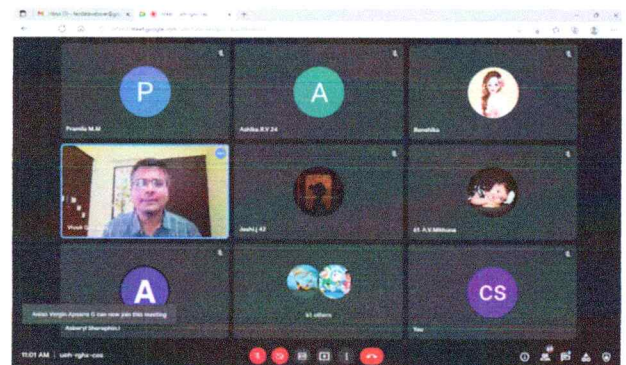
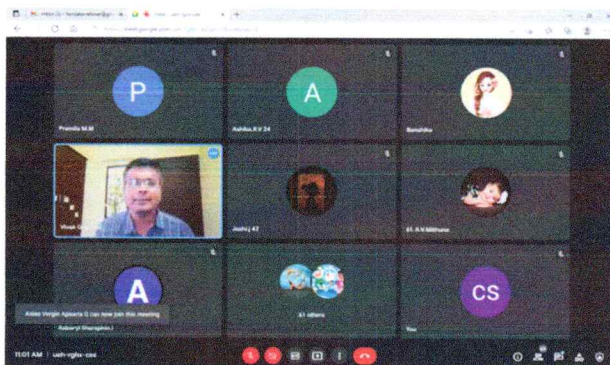
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to the author or creator of an original work. In India, there are 7 types of intellectual property rights, namely – copyright, trademarks, patents, geographical indications, plant varieties, industrial designs and semiconductor integrated circuit layout designs. The resource person delivered a lecture on Intellectual Property Resources. He explained how a person can use the resource of Intellectual Property. The session was very interactive and students learnt many things and they became aware of Intellectual Property Resources.

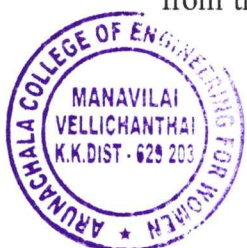


**Webinar on Intellectual Property Resources (Intellectual Property Rights) on 28-12-2020 at 11 am by Dr.V. VivekGopalan, Senior Manager.**

### ACADEMIC YEAR 2019-2020

The following Intellectual Property Rights (IPR) Programs are conducted during academic year 2019-2020. The following Programs are on critical thinking and Provisional Patent Applications. In our college during 2019-2020 academic year 2 Programs are conducted in different topics.

**Department of Civil Engineering** Organized a Seminar on Provisional Patent Applications (Intellectual Property Rights) on 13-03-2020. The session was especially designed for the faculty members and students. Resource Person explains these provisional patents are not published or available online like regular non-provisional patents. Provisional patent applications can provide an additional year of patent protection, for a total of 21 years from the initial filing date. With such an extension, a provisional application provides parity



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with foreign applicants who, pursuant to the Paris Convention, may file for a U.S. patent within 12 months of the foreign filing. Provisional applications have both advantages and disadvantages, so proper management is essential. The advantages include the preservation of a priority date immediately after an invention is conceived.



**Seminar on Provisional Patent Applications (Intellectual Property Rights) on 13-03-2020**

**Department of Electrical and Electronics Engineering** Organized a Seminar on Critical Thinking (Intellectual Property Rights) on 18-09-2019. The session was especially designed for the faculty members and students. Resource person has discussed about critical Thinking in Intellectual Property Rights and discussed in many cases like discovering the potential problems with user faces and the audience of users with critical thinking. Define the issue and proposed solution while evaluating other alternatives. Deliver the solution to the user. Our students are encouraged to think critically. The session was very interactive and students learnt many things.



  
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**Department of Electrical and Electronics Engineering Organizes a Seminar on Critical Thinking (Intellectual Property Rights) on 18-09-2019 at 11 am by Er.M.Rose Cyril Xavier.**

### ACADEMIC YEAR 2018-2019

The following Intellectual Property Rights (IPR) Programs are conducted during academic year 2018-2019. The following Programs are on Intellectual Property rights and its significance for business and Current Issues in Intellectual Property Rights in Tamilnadu. In our college during 2018-2019 academic year 2 Programs are conducted in different topics.

**Department of Electrical and Electronics Engineering** Organized a Seminar on Intellectual Property rights and its significance for business (Intellectual Property Rights) on 25-01-2019. The session was especially designed for the faculty members and students. Our student given an introduction about resource person and the session was handover to resource Person. In this Programme 50 students are participated effectively along with the faculty members. Resource Person delivers about trademark infringement, Copyright infringement and patent infringement. This will be efficient and effectively enforced intellectual property infrastructure is necessary to ensure the simulation of investment in innovation. Resource



  
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Person interacted the students and shares the learned things in this seminar. From this seminar, students learned more and more about intellectual Property Rights.



**A Seminar on Intellectual Property rights and its significance for business (Intellectual Property Rights) on 25-01-2019 at 11 am by Ms.L.AncePraveena**

**Department of Electronics and Communication Engineering** Organized a Seminar on Current Issues in Intellectual Property Rights in Tamilnadu (Intellectual Property Rights) on 01-02-2019. The session was especially designed for the faculty members and students. Our Coordinator given an introduction about resource person and the session was handover to resource Person. In this Programme 40 students are participated effectively along with the faculty members. Resource Person delivers about Copyright infringement and patent infringement. This will be efficient and effectively enforced intellectual property infrastructure is necessary to ensure the simulation of investment in innovation in Intellectual Property Rights. Resource Person interacted the students and shares the learned things in this seminar. From this seminar, students learned more and more about intellectual Property Rights.



  
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**Seminar on Current Issues in Intellectual Property Rights in Tamilnadu (Intellectual Property Rights) on 01-02-2019 by Ms.R.BabyShalini.**

### PROGRAMS RELATED TO RESEARCH METHODOLOGY

The following Research Methodology Programs are conducted during academic year 2022-2023. The following Programs are on Web Page Development using XAMPP Server, Circuit Design & Implementation using CAD Tools, Seminar on IOT & its application for Industry 4.0 Ecosystem, Basics of data Professionals using RDBMS, Real Time Embedded System, Photoshop and animation and Teaching Methodology & Research Guidance.

In our college during 2022-2023 academic year 7 Programs are conducted in different topics. **Department of Computer Science and Engineering** Organized a Seminar on One day Seminar on Web Page Development using XAMPP Server (Research Methodology) on 16-09-2022. The session was especially designed for the faculty members and students. The event will include a series of web page development programs. Our students are encouraged to become web development engineers. The session was very interactive and students learnt many things and they were able to become innovative engineers. Resource person delivered about how design web page Development using XAMPP server.



  
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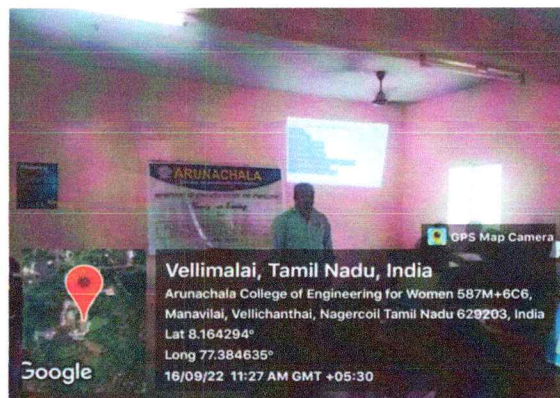




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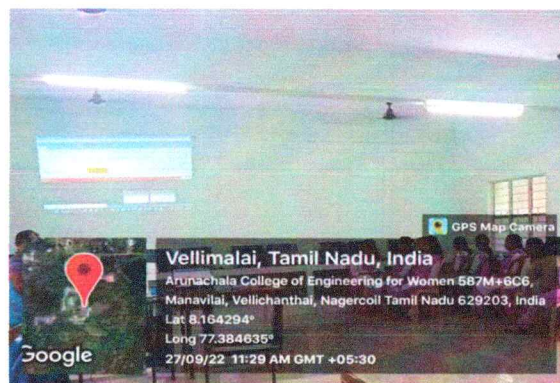
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## One day Seminar on Web Page Development using XAMPP Server (Research Methodology) by Er.A. Bharath on 16-09-2022

Department of Electrical and Electronics Engineering Organized a One day Workshop on Circuit Design & Implementation using CAD Tools (Research Methodology) on 27-09-2022. The session was especially designed for the faculty members and students. CAD/CAM (computer-aided design/computer-aided manufacturing) is software used to design products such as electronic circuit boards in computers and other devices. Resource Person explains how CAD software is an essential tool for creating electrical drawings, electrical schematics, wiring diagrams and many other forms of electrical design. Our students are encouraged to design electronic circuits using CAD tools..



## One day Workshop on Circuit Design & Implementation using CAD Tools (Research Methodology) on 27-09-2022 by Dr.R.Anuja, Asst.Professor.

Department of Electrical and Electronics Engineering Organized a Seminar on IOT & its application for Industry 4.0 Ecosystem (Research Methodology) on 29-09-2022.

The session was especially designed for the faculty members and students. The event



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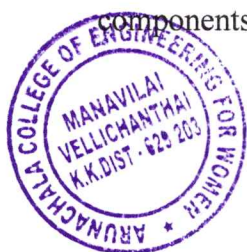
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includes Industry 4.0 is powered by the Industrial Internet of Things (IIoT) and cyber-physical systems – smart, autonomous systems that use computer-based algorithms to monitor and control physical things like machinery, robots, and vehicles.. IIoT distinguishes manufacturing devices from consumer devices that wirelessly connect to the internal networks and the internet – while Industry 4.0 refers to the importance of lean, efficient operations and the role of sustaining and advancing manufacturing. Resource Person also Introduces IoT devices such as sensors, software and other IoT technologies provides the manufacturers efficient quality control of the products being manufactured; for example, a network of IoT sensors can detect faulty products and can tirelessly remove them from the final assembly lines . The session was very interactive and students learnt many things and they were able to become innovative engineers.



### Seminar on IOT & its application for Industry 4.0 Ecosystem (Research Methodology) on 29-09-2022 at 11 am by Er.S.V.Sreeraj, Director, EMCOG Solutions

Department of Computer Science and Engineering Organized a One day seminar on Basics of data Professionals using RDBMS(Research Methodology) on 30-09-2022. The resource person for the hands-on training programme on "Basics for Data Professionals using RDBMS" is Er. S. Biron Gifty, Senior Software Developer, STEPLADDER Solutions, Chennai. The session was especially designed for the faculty members and students. The resource person provided instruction on the fundamental RDBMS concepts such as Components, and Relational algebra, Normalization, RDBMS features such as Atomicity,



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Consistency, Isolation, Durability, Data consistency and table manipulations, database connectivity. After the seminar was over, the Resource Person also addressed the questions.



## Seminar on One day Seminar on Basics of data Professionals using RDBMS on 30-09-2022 at 11 am by Er.S.BironGifty, Senior Software Developer, StepLadder Solutions

Department of Electronics and Communication Engineering Organized a Seminar on Seminar on Real Time Embedded System(Research Methodology) on 27-10-2022. The session was especially designed for the faculty members and students. The event includes A real-time embedded system is a particular version of an embedded system that works on the basis of real-time computing represented by a dedicated type of operating system — RTOS. Its working principles are as follows: Quick response to external factors: an embedded system must work within fixed time constraints.



## Seminar on Real Time Embedded System (Research Methodology) on 27-10-2022 by

Er. A.MohamedAzharuddin, Project Manager



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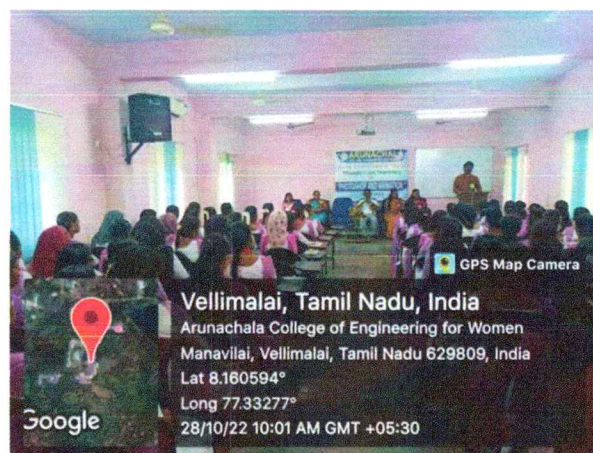
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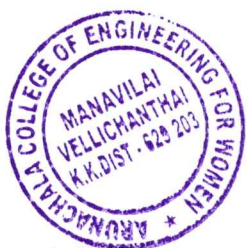
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**Department of Computer Science and Engineering** Organized a One day seminar on Photoshop and animation (Research Methodology) on 29-10-2022. The session was especially designed for the faculty members and students. This event includes how to create photoshop animation Go to Window - Timeline. This will open a panel in the lower third of the canvas. In the center of the panel, click on the arrow to open the dropdown menu, and select Create Frame Animation. Photoshop is an image creation, graphic design and photo editing software developed by Adobe. The software provides many image editing features for pixel-based images, raster graphics and vector graphics. Our students are encouraged to create photoshop animation. The session was very interactive and students learnt many things and they were able to create photoshop animation.



**One day Seminar on Photoshop and animation (Research Methodology) by  
J.A.AntonJoshila& V. MulliMary on 28-10-2022**

**Department of Electrical and Electronics Engineering** Organized a Seminar on Teaching Methodology & Research Guidance (Research Methodology) on 29-11-2022. The session was especially designed for the faculty members and students. Resource Person teaches the term teaching method refers to the general principles, pedagogy and management strategies used for classroom instruction. Your choice of teaching method depends on what fits you - your educational philosophy, classroom demographic, subject areas and school



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mission statement. Teaching means the way a teacher explains material to a class is referred to as a teaching methodology.

While a number of different methodologies can be used by a teacher, one common and traditional teaching method is often referred to as lecturing or explaining. This session encouraged the students to learn many things and they were able to become best in teaching and research.



**Seminar on Teaching Methodology & Research Guidance (Research Methodology) on 29-11-2022 at 10.30 am by Dr.S.JosephJawhar, Principal.**

## ACADEMIC YEAR 2021-2022

The following Research Methodology Programs are conducted during academic year 2021-2022. The following Programs are on Smart Grid Cyber Security, Transformation of ME project into Research and art of scientific Paper writing, Wireless Journey Towards 6G, Industrial Automation, Global Warming and Energy Conservation, recent trends and challenges in Electric Vehicles and Fair Data: Concepts Principles and applications.

In our college during 2021-2022 academic year 7 Programs are conducted in different topics. **Department of Electrical and Electronics Engineering** Organized a Webinar on Smart Grid Cyber Security (Research Methodology) on 28-08-2021. The session was



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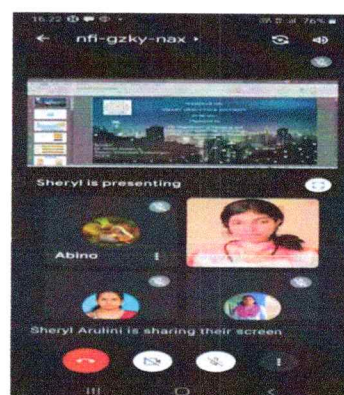
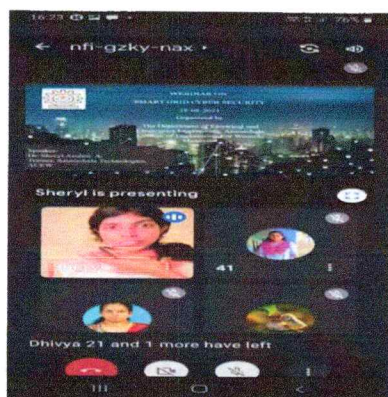
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especially designed for the faculty members and students. The event will include a series of programs ranging from awareness and ideation programs to finally pitching the Students. Our students are encouraged to become engineers. The session was very interactive and students learnt many things about cyber security and they were able to become innovative engineers. Resource person delivered about how to be aware of Smart grid cyber security.



**Webinar on Smart Grid Cyber Security (Research Methodology) on 28-08-2021 at 11 am by  
Dr.A.SherylArulini**

**Department of Electrical and Electronics Engineering** Organized a Seminar on Transformation of ME project into Research and art of scientific Paper writing (Research Methodology) on 27-09-2021. The session was especially designed for the faculty members and students. Writing and publishing a research paper is an art and for that, we need to learn or acquire some skills. In this Seminar, you will be empowered with all the vital skills required for writing a research paper. Resource Person starts with the meaning of the Scientific Research Paper. Further, it will cover all the components of a typical research paper, right from the title of the paper to the references. Just to summarize, it includes guidelines for writing. Our students are encouraged to become skills with Scientific Paper Writing.



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**Seminar on Transformation of ME project into Research and art of scientific Paper writing (Research Methodology) on 27-09-2021 at 11 am by Dr.C.AgeesKumar .**

**Department of Electronics and Communication Engineering** Organized a Seminar on Wireless Journey Towards 6G (Research Methodology) on 30-10-2021. The session was especially designed for the faculty members and students. Building and factory automation, production, e-health, transportation, agriculture, surveillance, and smart networks all require 6G for enhanced reliability, latency, and broad bandwidth. With the launch of 6G, it is expected that many devices using the internet infrastructure will be included in daily life. Resource Person explains about the future scope of 6G technology. 6G is expected to have much higher speeds than 5G, with theoretical speeds of up to 1 Tbps, which is roughly 100 times faster than 5G. It will also have much lower latency, making it ideal for applications that require very low latency such as autonomous driving, virtual reality and augmented reality. Our students are encouraged to become 6G Research engineers. The session was very interactive and students learnt many things and they were able to become innovative engineers.



  
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**Seminar on Wireless Journey Towards 6G (Research Methodology) on 30-10-2021 at 11 am by Dr.M.Sundaram, Professor.**

**Department of Electronics and Communication Engineering** Organized a Seminar on Industrial Automation (Research Methodology) on 20-11-2021. The session was especially designed for the faculty members and students. Resource Person explains about the industrial automation approach. Industrial automation is the control of machinery and processes used in various industries by autonomous systems through the use of technologies like robotics and computer software. Automation has been achieved by various means including mechanical, hydraulic, pneumatic, electrical, electronic devices, and computers, usually in combination. Complicated systems, such as modern factories, airplanes, and ships typically use combinations of all of these techniques. Automation Framework is not a single tool or process, but it is a collection of tools and processes working together to support automated testing of any application. It integrates various functions like libraries, test data, and various reusable modules. Our students are encouraged to become engineers. The session was very interactive and students learnt many things and they were able to become innovative engineers.



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**Seminar on Industrial Automation (Research Methodology) on 20-11-2021 at 11 am by  
Dr.T.Sivarani, Professor.**

**Department of Electrical and Electronics Engineering** Organized a Seminar on Global Warming and Energy Conservation (Research Methodology) on 09-12-2021. The session was especially designed for the faculty members and students. Resource Person explains how does the balance of incoming and outgoing energy affect Earth's climate. The balance between incoming energy from the sun and outgoing energy from Earth ultimately drives our climate. This energy balance is governed by the first law of thermodynamics, also known as the law of conservation of energy. Reducing energy use is essential in the fight against climate change, because traditional power plants burn fossil fuels that release greenhouse gases and contribute to air pollution. Energy-efficient homes and buildings are also better equipped to switch to renewable energy, which does not produce harmful emissions.



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**Seminar on Global warming & energy conservation (Research Methodology) on 09-12-2021 at 11 am by Dr.V.Gurusami, Faculty Petroleum Conservation.**

**Department of Electrical and Electronics Engineering** Organized a Seminar on recent trends and challenges in Electric Vehicles (Research Methodology) on 27-11-2021. The session was especially designed for the faculty members and students. Resource Person explains about the benefits Of buying Electric Vehicles In India Environmentally friendly. This is one of the main benefits of electric cars are Avoid the fuel price hikes, Low Maintenance Costs, Charge conveniently from the comfort of your home, Easy to drive, They make no noise, Government incentives and about Electric vehicles use electricity to charge their batteries instead of using fossil fuels like petrol or diesel. Electric vehicles are more efficient, and that combined with the electricity cost means that charging an electric vehicle is cheaper than filling petrol or diesel for your travel requirements. Our students are encouraged to well known challenges in Electrical vehicles.



  
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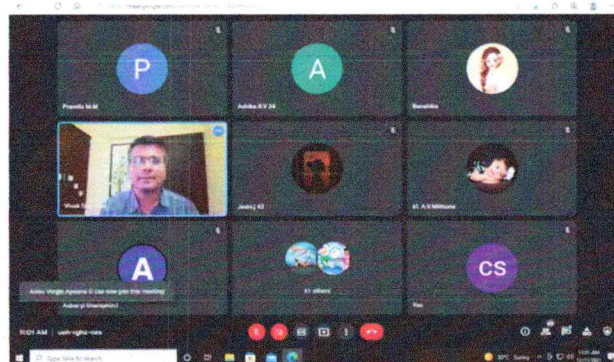
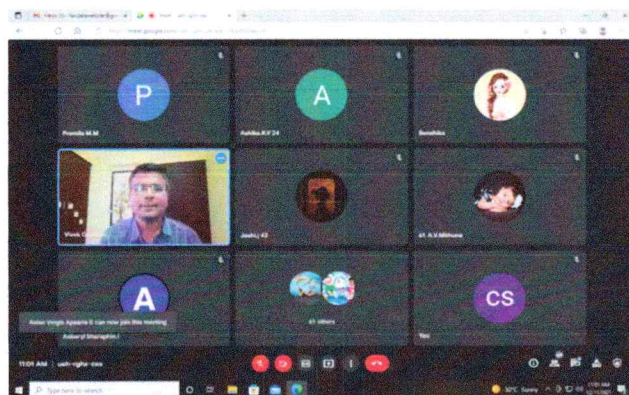
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**Seminar on recent trends & Challenges in electric vehicles (Research Methodology) on 27-11-2021 at 11 am by Dr.M.Suthanthira, Asst. Professor.**

**Department of Computer Science and Engineering** Organized a Webinar on Fair Data : Concepts Principles and applications (Research Methodology) on 11-12-2021. The session was especially designed for the faculty members and students. Resource Person explains the ultimate goal of FAIR Concept is to use these principles as a set of guidelines for anyone wishing to enhance the reusability of their data. This is done by ensuring the data are Findable, accessible, interoperable and reusable. Then he explained about fair data mapping principles. Finally he explained about implementation of fair data pipeline and concluded the session. The program was organized in an interactive way with small and simple questions and answers. The session was so informative to students and staff members.



**Webinar on Fair Data: Concepts, Principles & Applications on 11-12-2021 at 11 am by Dr.VivekGopalan.**



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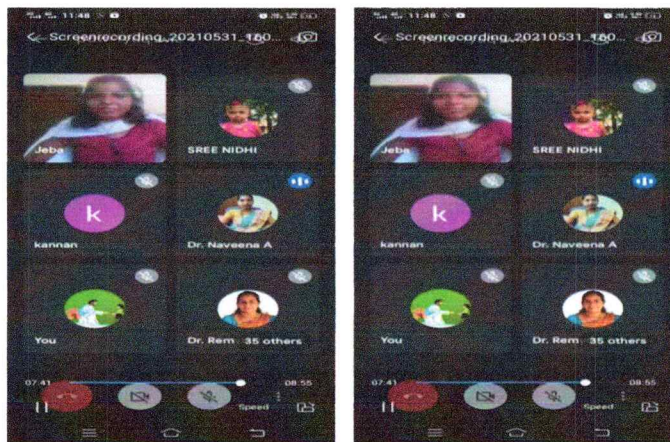
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### ACADEMIC YEAR 2020-2021

The following Research Methodology Programs are conducted during academic year 2020-2021. The following Programs are on Deep Learning and its Application, Sustainable Goals and Power system, Artificial Intelligence in health care and Nanotechnology and its Applications. In our college during 2020-2021 academic year 4 Programs are conducted in different topics.

**Department of Electrical and Electronics Engineering** Organized a Webinar on Deep learning and its Application (Research Methodology) on 06-08-2020 at 11 am by Mrs. R. Jeba Shiny, Caterpillar India Engineering Solution Private Limited, Chennai. The session was especially designed for the faculty members and students. The event include a series of programs ranging from awareness and ideation programs to finally pitching the Students. The session was very interactive and students learnt many things about deep learning and they were able to become innovative engineers. Resource person delivered about how to be aware of Deep Learning.



Webinar on Deep learning and its Application (Research Methodology) on 06-08-2020 at 11 am by Mrs. R. Jeba Shiny, Caterpillar India Engineering Solution Private Limited, Chennai.

**Department of Electrical and Electronics Engineering** Organized a Webinar on Sustainable Goals and Power system (Research Methodology) on 17-05-2021. The session was especially designed for the faculty members and students. The Sustainable Development Goals, also known as the Global Goals, were adopted by the United Nations in 2015 as a



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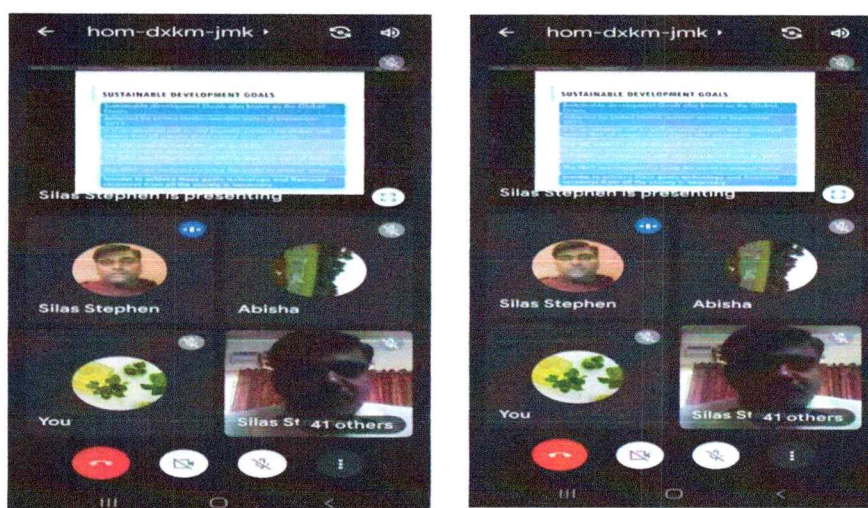
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universal call to action to end poverty, protect the planet, and ensure that by 2030 all people enjoy peace and prosperity. They recognised the power of science to understand and navigate relationships among social, environmental and economic development objectives, and so they called for a report to strengthen the science-policy interface. The resource person delivered a lecture on Sustainable Goals and Power system. He explained how a person can use the resource of Sustainable Goals and Power system. The session was very interactive and students learnt many things and they became aware of Sustainable Goals and Power system.



### **Webinar on Sustainable Goals and Power system (Research Methodology)**

**on 17-05-2021 at 11 am by Dr.D.Silas Stephan**

**Department of Computer Science and Engineering** Organized a Webinar on Artificial Intelligence in health care (Research Methodology) on 18-05-2021 from 10.30am to 11.30 am. The session was especially designed for the faculty members and students. AI in health care is an umbrella term to describe the application of machine learning algorithms and other cognitive technologies in medical settings. A significant AI use case in health care is the use of ML and other cognitive disciplines for medical diagnosis purposes. Using patient data and other information, AI can help doctors and medical providers deliver more accurate diagnoses and treatment plans. The resource person delivered a lecture on Artificial Intelligence in health care. He explained how a person can use the Artificial Intelligence. The session was very interactive and students learnt many things and they became aware of health care using Artificial intelligence.



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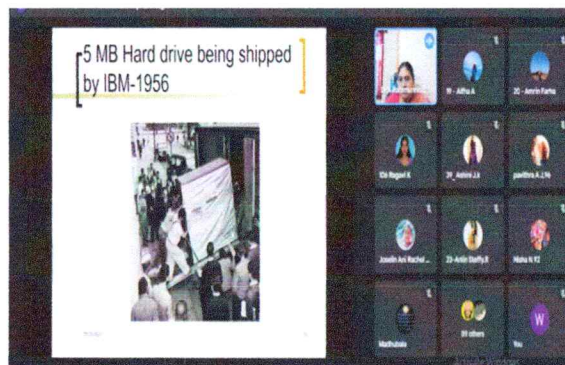
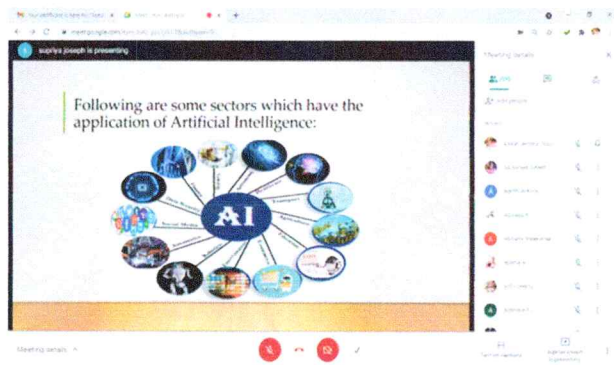


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**Webinar on Artificial Intelligence in health care (Research Methodology) on 18-05-2021 at 11 am by Ms.J. Supriya, UCEN, Nagercoil.**

**Department of Electrical and Electronics Engineering** Organized a Webinar on Nanotechnology and its Applications (Research Methodology) on 20-05-2021. The session was especially designed for the faculty members and students. Electric motors are found in applications as diverse as industrial fans, blowers and pumps, machine tools, household appliances, power tools, and disk drives. They may be powered by direct current or by alternating current which leads to the two main classifications: AC motors and DC motors. Electrical machines are the key technology in the forthcoming revolution of the transportation system, and the electric powertrain remains the final energy user and is responsible for vehicle performance and efficiency. Vehicle level requirements and characteristics need to be accurately investigated and broken down to powertrain and e-drive specifications in motoring and braking mode operations. The resource person delivered a lecture on Industrial Applications of Electrical Machines. He explained how a person can use the Industrial Applications with Electrical Machines. The session was very interactive and students learnt many things and they became aware of Industries using Electrical Machines.



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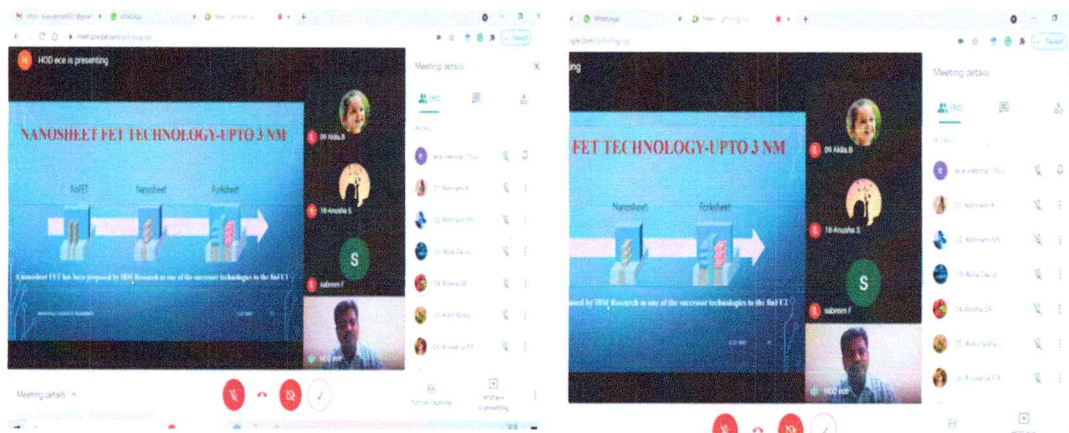


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### Webinar on Nanotechnology and its Applications (Research Methodology) on 20-05-2021 at 11 am by Dr.D.Nirmal,Professor

#### ACADEMIC YEAR 2019-2020

The following Research Methodology Programs are conducted during academic year 2019-2020. The following Programs are on Introduction to Robotics, Implementation of Smart Robots using Arduino, E-Vehicles & Applications and Mobile Application Development. In our college during 2019-2020 academic year 4 Programs are conducted in different topics. **Department of Electrical and Electronics Engineering** Organized a Seminar on Introduction to Robotics (Research Methodology) on 19-08-2019. The session was especially designed for the faculty members and students. This talk describes efforts in tighter integration of perception and planning for vision-driven robot manipulation. High-fidelity, high-frequency tracking of rigid bodies' 6D poses - without using CAD models or cumbersome human annotations - by utilizing progress both in deep learning and pose graph optimization was developed. These solutions together with appropriate shared representations, tighter closed-loop operation and – critically - compliant end-effectors are unblocking the deployment of full-stack robot manipulation systems. This talk provides examples from collaborative efforts on robotic packing, assembly under tight tolerances as



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well as constrained placement given a single demonstration that generalizes across an object category. Our students are encouraged to become engineers. The session was very interactive and students learnt many things and they were able to become innovative engineers.



**Seminar on Introduction to Robotics (Research Methodology) on 19-08-2019 at 11 am  
by Dr.C. AgeesKumar,Professor.**

**Department of Computer Science and Engineering** Organized One day workshop on Implementation of Smart Robots using Arduino (Research Methodology) on 14-09-2019. The session was especially designed for the faculty members and students. Arduino is an open-source devices stage subject to easy to-use hardware and programming. Arduino sheets can understand inputs - light on a sensor, a finger on a catch, or a Twitter message - and transform it's anything but a yield - actuating an engine, starting on a LED. An Arduino board is made out of a microcontroller, a few LEDs, a reset button, and numerous pins that you can use for input/yield activities. With so numerous pins accessible, you can without much of stretch read information from sensors, or control various engines and actuators. That is the thing that makes Arduino incredible for learning advanced mechanics. This task proposes a multipurpose Robotic vehicle that detects deterrent, line supporter and distinguishes human utilizing sensors, gas sensor and PIR sensor which can be constrained by Arduino dependent on IoT. Resource Person gave excellent lecture on the role of implementing smart robots. The session was very interactive and students learnt many things and they were able to become innovative engineers.



  
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**One day workshop on Implementation of Smart Robots using Arduino (Research Methodology) on 14-09-2019 at 11 am by Er.M.Sekar.**

**Department of Electrical and Electronics Engineering** Organized a Seminar on E-Vehicles & Applications (Research Methodology) on 05-02-2020. The session was especially designed for the faculty members and students. Resource Person explained necessary steps needed be achieved if all automobiles in California 2040 are replaced by electric vehicles (EVs); pure electric vehicles (PEVs) and plug-in hybrid electric vehicles (PHEVs). The analysis was based on a ceteris paribus model where current data and trends were examined and forecasted for the year of 2040. California may reduce CO<sub>2</sub> emissions by 40 million metric tons should this change in its automobile fleet is achieved. Approximately 1.1 million public charging stations must be installed to accommodate this change and several power stations must be built to provide adequate electricity for the State's needs, but specific numbers depend upon several factors elaborated in this analysis.



**Seminar on E-Vehicles and Applicants (Research Methodology) on 05-02-2020 at 11 am**

**by Ms.T.Kavitha**



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**Department of Electronics and Communication Engineering** Organized a Seminar on Mobile Application Development (Research Methodology) on 29-02-2020. The session was especially designed for the faculty members and students. Mobile application development is the set of processes and procedures involved in writing software for small, wireless computing devices, such as smart phones and other hand-held devices. Mobile app development is rapidly growing. From retail, telecommunications and e-commerce to insurance, healthcare and government, organizations across industries must meet user expectations for real-time, convenient ways to conduct transactions and access information. Today, mobile devices—and the mobile applications that unlock their value—are the most popular way for people and businesses to connect to the internet. To stay relevant, responsive and successful, organizations need to develop the mobile applications that their customers, partners and employees demand. Our students are encouraged to become engineers. The session was very interactive and students learnt many things and they were able to become innovative engineers.




**Seminar on Mobile Application Development (Research Methodology) on 29-02-2020 at 11 am by Ms.P.V.Kavitha**

### ACADEMIC YEAR 2018-2019

The following Research Methodology Programs are conducted during academic year 2018-2019. The following Programs are on Instrumentation & Control system Design Approaches & Challenges in Nuclear Industry, Cloud Computing, Embedded based Project design and IOT using Arduino.



  
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In our college during 2018-2019 academic year 4 Programs are conducted in different topics. **Department of Electrical and Electronics Engineering** Organized a Seminar on Instrumentation & Control system Design Approaches & Challenges in Nuclear Industry (Research Methodology) on 27-07-2018. The session was especially designed for the faculty members and students. It was arranged for sensitizing the students to be versatile in Control System Design as most of the present day students possess the necessary technical skills but they are unable to exhibit the potential in Nuclear Industry.


A Nuclear Power Plant (NPP) contains thousands of components and equipment, such as motors, pumps or valves that have to be operated in a well-coordinated way. This coordination is performed by Instrumentation and Control (I&C) systems. The core of a nuclear reactor presents an exceptionally harsh environment for materials due to the combination of high temperature, high stresses, a chemically aggressive coolant and intense radiation fluxes. A major environmental concern related to nuclear power is the creation of radioactive wastes such as uranium mill tailings, spent (used) reactor fuel, and other radioactive wastes. These materials can remain radioactive and dangerous to human health for thousands of years.



**Seminar on Instrumentation & Control System Design Approaches & Challenges in Nuclear Industry (Research Methodology) on 27-07-2018 at 11 am by Ms.T.Kavitha**

**Department of Computer Science and Engineering** Organized a Seminar on Cloud Computing (Research Methodology) on 07-09-2018. The session was especially designed for the faculty members and students. Cloud computing is a set of IT services that are provided



  
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to a customer over a network on a leased basis and with the ability to scale up or down their service requirements. Usually Cloud Computing services are delivered by a third party provider who owns the infrastructure. Cloud Computing holds the potential to eliminate the requirements for setting up of high-cost computing infrastructure for IT-based solutions and services that the industry uses. It promises to provide a flexible IT architecture, accessible through internet from lightweight portable devices. The resource person delivered a lecture on cloud computing and recent trends.



### **Seminar on Cloud Computing (Research Methodology) on 07-09-2018 at 11 am by Er.M.Sekar**

**Department of Electronics and Communication Engineering** Organized a Seminar on Embedded based Project design(Research Methodology)on 12-12-2018. The session was especially designed for the faculty members and students. An embedded system design process is how a manufacturer determines the requirements for a small computerized system embedded within a product. Then, they decide the best way to build that system and test that it works. Resource Person delivered about real time problems for research. This session has induced the students to be innovative and creative engineers. Resource person shared some of the real time examples how to solve the problems during research. Our students are encouraged to become successful engineers.



  
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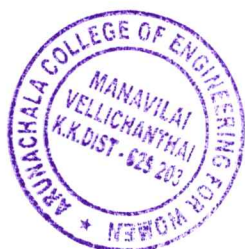


**Seminar on Embedded based Project design (Research Methodology)  
on 12-12-2018 at 11 am by Mr.G.Sunil Livingston**

**Department of Computer Science and Engineering** Organized a Workshop on IOT using Arduino (Research Methodology) on 15-02-2019. The session was especially designed for the faculty members and students. The aim of workshop to discuss real life use cases on IoT application and make the session really interactive by providing an opportunity to suggest a solution to real life scenario also has been include to discuss some bonus: IoT demo applications with raspberry Pi board. The decisive change accompanying the IoT will be its ubiquity: networked devices are everywhere. Like any technological progress, this development offers social and economic opportunities, but at the same time it also harbors risks and detrimental impact. Notably, the IoT is transforming and disrupting our daily lives faster than any other technology before. The sessions were very interactive and student learnt many things and they become aware of writing codes.



**Workshop on IOT using Arduino (Research Methodology) on 15-02-2019 by  
Dr. C.Agees Kumar, Professor.**



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## PROGRAMS RELATED TO ENTREPRENEURSHIP

### ACADEMIC YEAR 2022-2023

The following Entrepreneurship Programs are conducted during academic year 2022-2023. The following Programs are on Creative Thinking for Entrepreneurship and women making an impact, Entrepreneurship skill attitude and Behaviour Development, Ethical Dilemmas Faced by Entrepreneurs and Technology based entrepreneurship development. In our college during 2022-2023 academic year 4 Programs are conducted in different topics.

**Department of Electronics and Communication Engineering** Organized a Seminar on EDII-TN Sponsored Awareness Seminar Program on Creative Thinking for Entrepreneurship and women making an impact (Entrepreneurship) on 18-08-2022. The session was especially designed for the faculty members and students. The event will include a series of programs ranging from awareness about creative thinking for entrepreneurship and women making an impact. The session was very interactive and students learnt many things and they were able to become innovative engineers. Resource person delivered about how to be aware of entrepreneurship EDII-TN registration and guidance.



### Seminar on Awareness Program on Creative Thinking for Entrepreneurship and women making an impact (Entrepreneurship) by Er.N.Rahul on 18-08-2022.

**Department of Computer science and Engineering** Organized a Seminar on entrepreneurship skill attitude and Behaviour Development (Entrepreneurship) on 19-12-2022. The session was especially designed for the faculty members and students. The Speaker has many years of experience in IT field as well as motivational speaker and trained nearly 4000 youngsters for entrepreneurship in India. So he has able to make the whole



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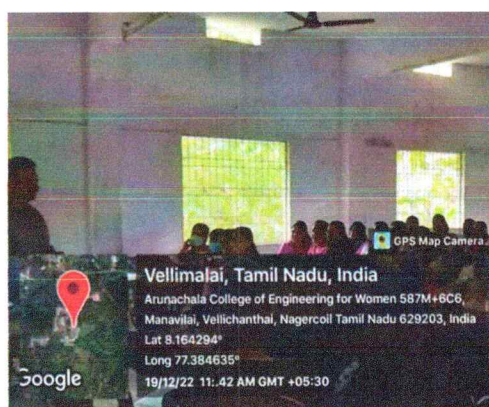
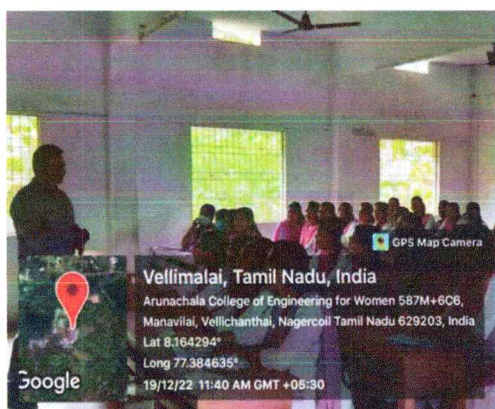


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session highly attractive and informative to the participants who are connected for the seminar. Highlights are: Discussed about mental and physical health, mission and vision of individual career, Finance management, work life balance, Attitude and personal development. Finally the interaction session has done and completed successfully.



## **Seminar on entrepreneurship skill attitude and Behaviour Development (Entrepreneurship) on 19-12-2022 at 11 am by Mr.K.KishoreKumar, Skill Developer**

**Department of Electrical and Electronics Engineering** Organized a Seminar on Ethical Dilemmas Faced by Entrepreneurs (Entrepreneurship) on 03-02-2023. The session was especially designed for the students. This session is to motivate the student Entrepreneurs to start the business. Entrepreneurship is the ability and readiness to develop, organize and run a business enterprise, along with any of its uncertainties in order to make a profit. The most prominent example of entrepreneurship is the starting of new businesses. Traditionally, entrepreneurship is categorized into four main types: small businesses, scalable startups, large companies and social entrepreneurs. These models cover the fundamentals of starting a business and focus more on the company itself, rather than the qualities of the entrepreneur. Our students are encouraged to become entrepreneurs. The Ethical Dilemmas Faced by Entrepreneurs session was very interactive and students gained many knowledge about business.



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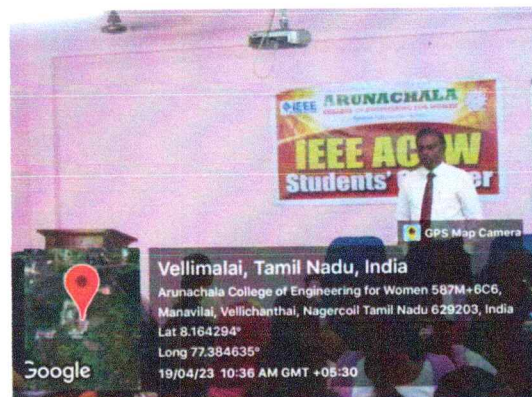
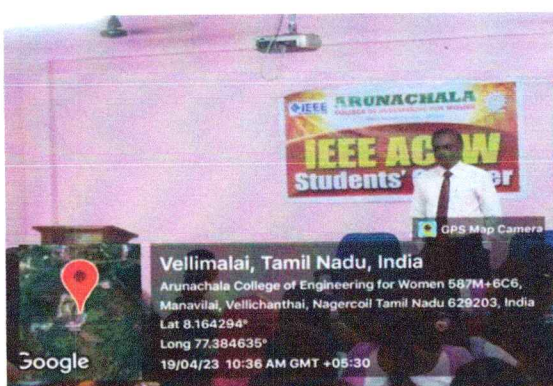
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**Seminar on Ethical Dilemmas Faced by Entrepreneurs (Entrepreneurship) by  
on 03-02-2023 at 10 am by Mr.S.Saran Kumar, Skill Developer.**

**Department of Civil Engineering** Organized a Seminar on Technology based entrepreneurship development (Entrepreneurship) on 19-04-2023. The session was especially designed for the faculty members and students. Resource Person explains about Technology entrepreneurship is an investment in a project that assembles and deploys specialized individuals and heterogeneous assets that are intricately related to advances in scientific and technological knowledge for the purpose of creating and capturing value for a firm. The technology trends attract customers which ultimately impact the future mindset & number of competitors in the market. It helps the entrepreneur to take better decisions in a difficult situation with the help of extensive market research.



**Technology Based Entrepreneurship Development (Entrepreneurship) on 19-04-2023 at  
10.00 am by Mr.M.Rose Cyril Xavier, Assistant General Manager(Retd), BSNL.**



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## ACADEMIC YEAR 2021-2022

The following Entrepreneurship Programs are conducted during academic year 2021-2022. The following Programs are on Opportunities to embark your startup with EDII-TN, Skill for Professional Development, Future skill to boost employability and Funds and Schemes of EDII-TN. In our college during 2021-2022 academic year 4 Programs are conducted in different topics.

**Department of Electrical and Electronics Engineering** Organized a Seminar on Opportunities to embark your startup with EDII-TN (Entrepreneurship) on 05-08-2021. The session was especially designed for the faculty members and students. The event will include a series of programs ranging from awareness and ideation programs to finally pitching the investors. Our students are encouraged to become engineers. The session was very interactive and students learnt many things and they were able to become innovative engineers. Resource person delivered about how to be aware of entrepreneurship EDII-TN registration and guidance.



**Seminar on Opportunities to embark your startup with EDII-TN (Entrepreneurship)**  
**on 15-09-2021 at 11 am by Dr.R.Mohan Kumar, Personal Development Coach &**  
**Corporate Trainer**

**Department of Civil Engineering** Organized a seminar on Skill for Professional Development (Entrepreneurship) on 28-09-2021. The session was especially designed for the faculty members and students. Our students are encouraged to become skill with Professional development. Business management skills are essential for entrepreneurs to effectively plan, organize, direct, and control the resources of an organization. These skills can build



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credibility, improve efficiency, manage risks, implement effective strategies, create a positive company culture, and grow a business. Resource Person explains about What is entrepreneurship and skill development? Entrepreneurship Skill Development Programme (ESDP) Description. Entrepreneurship promotion and development Programmes are being organized regularly to nurture the talent of youth by enlightening them on various aspects of industrial/business activity. The session was very interactive and students learnt many things and they were able to become innovative engineers.



**Seminar on Skill for Professional Development (Entrepreneurship) on 28-09-2021 at 11 am by Ms.C.SreeVidhya, Asst. Professor.**

**Department of Electronics and Communication Engineering** Organized a Seminar Future Skill to boost employability (Entrepreneurship) on 24-02-2022. The session was especially designed for the faculty members and students. The resource Person has delivered about the importance of basic mathematic skills for making the students calculative in their moves therefore they can be successful because basic arithmetic skills are essential for being successful in all aspects of life. Our students are encouraged to make their each and every move calculative to ensure better future. The session was very interactive and students learnt many things and they were able to boost employability.



  
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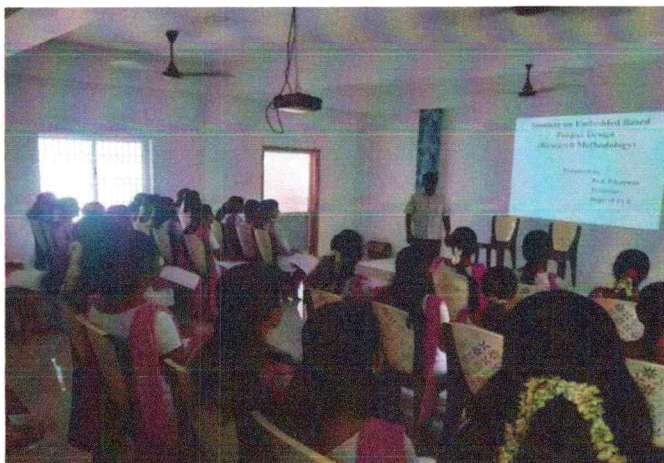


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### **Seminar on Future skill to boost Employability (Entrepreneurship) on 24-02-2022 at 11 am by Dr.E.P.Kannan , Professor**

**Department of Civil Engineering** Organized a Seminar on Funds and Schemes of EDII-TN (Entrepreneurship) on 04-04-2022. The session was especially designed for the faculty members and students. EDII-TN also supports research and innovation promotion in MSME and public sector. Resource Person explains the government schemes for startups in India. The Startup India Seed Fund Scheme and the Startup India initiative are two of the biggest government schemes for startups in India. Other schemes include the PradhanMantriMudhraYojna, Standup India Scheme, and Venture Capital Assistance Scheme. New Entrepreneur cum Enterprise Development Scheme .The Directorate of Industries and Commerce, Government of Tamil Nadu, is the supervisory body of this scheme. The initiative aims to prepare the future generation to take up business opportunities in MSMEs by offering them subsidies Our students are encouraged to learn about funds and schemes of EDII-TN. This session encouraged the students to learn many things like NEEDS schemes etc.,



  
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**Seminar on Funds and Schemes of EDII-TN (Entrepreneurship) on 04-04-2022  
at 11 am by Ms.D.Pavithra, Skill Development Trainer.**

### ACADEMIC YEAR 2020-2021

The following Entrepreneurship Programs are conducted during academic year 2020-2021. The following Programs are on Motivation for startups Business Plan, Financial Education Awareness Program, Entrepreneurship and Innovation and EDII-TNSI 2020 Registration -Practical Guide. In our college during 2020-2021 academic year 4 Programs are conducted in different topics.

**Department of Electronics and Communication Engineering** Organized a Webinar on Motivation for startups Business Plan (Entrepreneurship) on 19-05-2021. The session was especially designed for the faculty members and students. The seminar is on motivation for startups business Plan. If you're starting a new business, then you need an effective plan. Not only does this enable you to plan your company, but it also gives potential clients an insight into how your business works.

A business plan is also vital if you want to attract investors or secure a loan from the bank. Drafting a business plan is a complex process, but it doesn't have to be. This guide will ensure you create a definite plan to impress investors and clients. Resource person of this function delivered a lecture on start ups business plan. Resource person delivered about how to startup a business effectively and gave many ideas related to business. The session was



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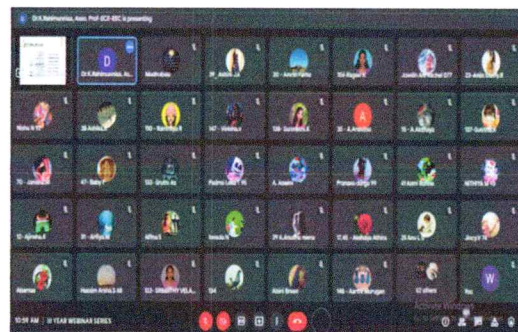
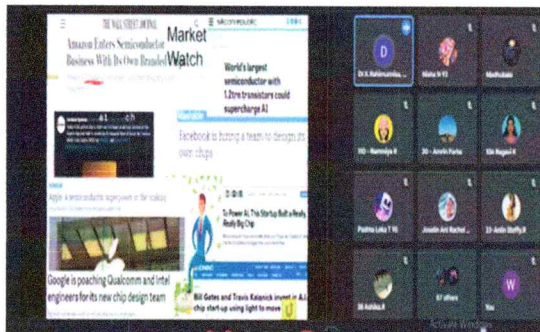
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induced the students to be innovative and creative. He shared some of successful entrepreneurs in India and he pointed out few points how to reduce unemployment. Everyone should be responsible to create employment to our nation through their business.



**Webinar on Motivation for startups Business Plan (Entrepreneurship) on 19-05-2021 at 11 am  
by Dr.T.Jaibalaganesh, Skill Development Trainer.**

**Department of Civil Engineering Organized** a Webinar on Financial Education Awareness Program (Entrepreneurship) on 31-05-2021. The session was especially designed for the faculty members and students. FEPA is a Financial Literacy Programme designed and implemented to spread financial awareness among the adult population such as Farmers, Skill Development Trainees etc., Financial education enables individuals to improve their understanding of financial concepts and products, prevent fraud, make decisions appropriate to their circumstances and needs. Key aspects to financial literacy include knowing how to create a budget, plan for retirement, manage debt, and track personal spending. Financial literacy can be obtained through reading books, listening to podcasts, subscribing to financial content, or talking to a financial professional. The session was induced the students to be innovative and creative.



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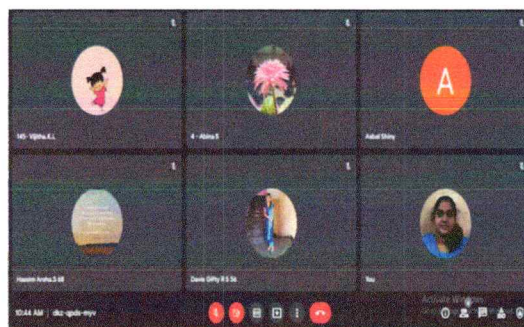


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**Webinar on Financial Education Awareness Program (Entrepreneurship) on 31-05-2021 at 11 am by Mr.M.R.Dinesh, Chief Executive Officer and Director.**

**Department of Electronics and Communication Engineering** Organized a Webinar on Awareness Program on Entrepreneurship and Innovation (Entrepreneurship) on 11-06-2021. The session was especially designed for the faculty members and students. The resource person explains about How do you create entrepreneurship awareness? Raise awareness about entrepreneurship opportunities. Organize information and career fairs, forums and summits on business opportunities, including in specific economic sectors or on specific business models such as micro-franchising. One major benefit of studying entrepreneurship and innovation is the gained ability to recognize opportunity. Entrepreneurial studies focus on the application of one's knowledge and skills to commercial opportunities. Resource person delivered about how to be aware of entrepreneurship and innovation. The session was induced the students to be innovative and creative. He shared some of successful entrepreneurs in India and he pointed out few points how to reduce unemployment. Everyone should be responsible to create employment to our nation through their business. The session was induced the students to be innovative and creative.



  
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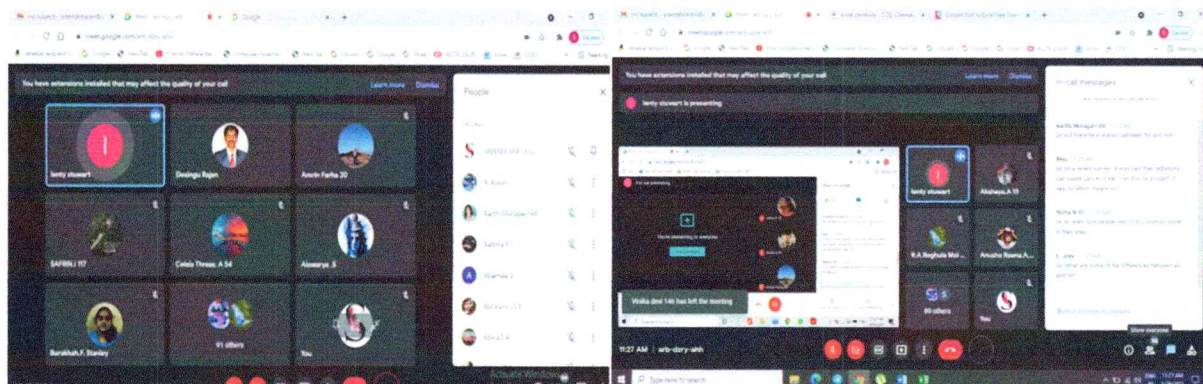


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### Webinar on Awareness Program on Entrepreneurship and Innovation (Entrepreneurship) on 11-06-2021 at 10 am by Dr.LentyStuwart.

Department of Electronics and Communication Engineering Organized a Webinar on EDII-TNSI 2020 Registration -Practical Guide (Entrepreneurship)on 29-06-2021. The session was especially designed for the faculty members and students. The major focus of the TNSI Registration 2020 will be finding Young brilliant minds and innovators who have revolutionary ideas that can solve a burning problem being faced by humans or at least change the way we do the work for the better. According to the Initiative of the government, all those who believe in their incredible idea can register for the event. The event will include a series of programs ranging from awareness and ideation programs to finally pitching the investors. Innovative ideas will be selected by the panel and Jury from the start-up economy for an award of INR 1 Lakh. The initiative of EDII-TN is to encourage student Innovators/Entrepreneurs from all over the state of Tamil Nadu. The session was induced the students to be innovative and creative. Resource person delivered about how to be aware of entrepreneurship EDII-TN registration and guidance. The event was concluded with vote of thanks.



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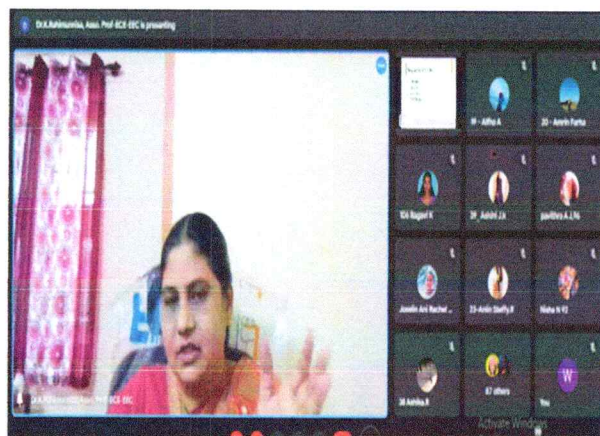
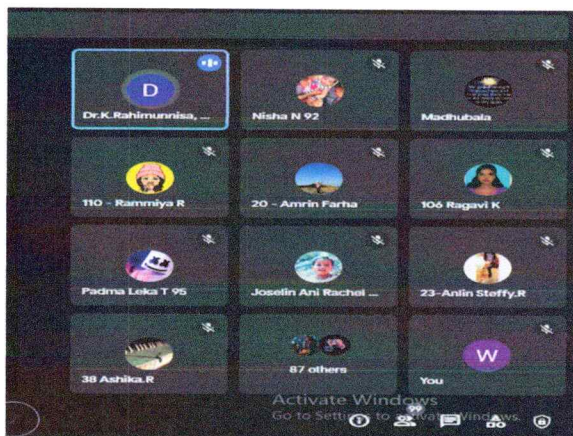


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**Webinar on EDII-TNSI 2020 Registration -Practical Guide (Entrepreneurship) on 29-06-2021 at 10.30 am by Dr.K.Rahimunnisa M.E., Ph.D., Associate Professor, Easwari Engineering College, Chennai**

### ACADEMIC YEAR 2019-2020

The following Entrepreneurship Programs are conducted during academic year 2019-2020. The following Programs are on Women Empowerment & Self Employment, TiE Young Entrepreneurs, How to solve the Entrepreneurs problems in real life and Advanced Methodology in Entrepreneurship Research. In our college during 2019-2020 academic year 4 Programs are conducted in different topics.

**Department of Electrical and Electronics Engineering** Organized a Seminar on Women Empowerment & Self Employment (Entrepreneurship) on 20-12-2019. The session was especially designed for the faculty members and students. According to the study findings, it is suggested that for women entrepreneurship sustainability, effective policies surrounding financing accessibility, technical knowledge expansion, and financial understating have to be promulgated in the economy, which allows bringing women empowerment at large. Women entrepreneurs can provide innovative solutions to existing problems in various industries. They often bring different perspectives, insights, and ideas to their businesses that can help drive growth and innovation. Women entrepreneurs tend to be



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more risk-averse than their male counterparts, which can lead to better decision-making and more sustainable business growth over time. Our students are encouraged to become engineers. The session was very interactive and students learnt many things and they were able to become innovative engineers.



**Seminar on Women Empowerment & Self Employment (Entrepreneurship) on 20-12-2019 at 11 am by Ms. Naveena A Priyadharshini, Asst Professor.**

**Department of Computer Science and Engineering** Organized a Seminar on TiE Young Entrepreneurs (Entrepreneurship) on 10-01-2020. The session was especially designed for the faculty members and students. Resource Person discussed some of the real world problems like profound responsibility, Communication, Coping with rejection, Job transitions. He delivered about real world problem for research. This session has induced the students to be innovative and creative engineers. Our students are encouraged to become successful engineers. The session was very interactive and students learnt many things and they were able to become innovative engineers.



  
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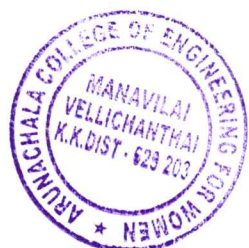


**Seminar on TiE Young Entrepreneurs (Entrepreneurship) on 10-01-2020 at 11 am by Ms.S.S.Uma, Asst.Professor**

**Department of Computer Science and Engineering** Organized a Seminar on Scope in Tourism for Young Entrepreneurs (Entrepreneurship) on 05-03-2020. The session was especially designed for the faculty members and students. Resource Person discussed how to solve the problems in real life in six different ways. They identify problem first, they stay calm, they start general and work toward specific. They adapt, They delegate and Distribute. Resource Person delivered about real world problem occur in entrepreneur. This session had induced the students to be solving problems in that session and to solve it. Our students are encouraged to become entrepreneur. The session was very interactive and students learnt many things and they were able to become innovative entrepreneur.



**Seminar on Scope in Tourism for Young Entrepreneurs (Entrepreneurship) on 05-03-2020 at 11 am by Mr.J.Kumaran, Communication & Soft Skill Trainer**



*Dr. S. Joseph Jawhar*  
**Dr.S.JOSEPH JAWHAR**  
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**Department of Computer Science and Engineering** Organized a Seminar on Advanced Methodology in Entrepreneurship Research(Entrepreneurship)on 11-03-2020. The session was especially designed for the faculty members and students. A majority of entrepreneurial success factors are directly related to the entrepreneur's human experiences. Thus, research in the field of entrepreneurial success factors is relatively new. Resource person analyzes and selects one of the three operative paradigms to study entrepreneurial success factors including analytical, actors, and systems approaches. The qualitative phenomenological methodology is best suited for the researcher who chooses the actors operative paradigm because it affords the researcher potential to generate the richest and most viable data set and offers the greatest potential to produce significant research outcomes. Moreover, the qualitative phenomenological method provides the researcher with greater flexibility in attaining rich data and provides a better opportunity for the researcher to develop substantial research conclusions based on real world entrepreneurial experience. Our students are encouraged to become successful entrepreneur. The session was very interactive and students learnt many things and they were able to become innovative entrepreneur.



**Seminar on Advanced methodology in Entrepreneurship Research (Entrepreneurship)**  
**on 11-03-2020 at 11 am by Mr.S.Mohan .**



  
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### ACADEMIC YEAR 2018-2019

The following Entrepreneurship Programs are conducted during academic year 2018-2019. The following Programs are on Communication skills and personality development, How to solve the Entrepreneurs problems in real life, Gender culture and entrepreneurship Development in India and Effect of taxes on Entrepreneurs and their decision making Process. In our college during 2018-2019 academic year 4 Programs are conducted in different topics.

**Department of Electrical and Electronics Engineering** Organized a Seminar on Communication Skills and Personality Development on 05-07-2018. The session was especially designed for the faculty members and students. It was arranged for sensitizing the students to be versatile in communication skills as most of the present day students possess the necessary technical skills but they are unable to exhibit the potential because of speaking in front of the gathering. The world is becoming day by day technology dependent and the students have been educated to update their skills and it has been highlighted that the English Language is the only bridge which can help the students to overcome the stumbling blocks.



**Seminar on Communication skills and Personality Development by Ms. L. Ance Praveena, IT Analyst on 05-07-2018.**

**Department of Electronics and Communication Engineering** Organized a Seminar on How to solve the Entrepreneurs problems in real life (Entrepreneurship) on 17-08-2018. The session was especially designed for the faculty members and students. The session has inspired the students to be more inventive and innovative. Entrepreneurial problem



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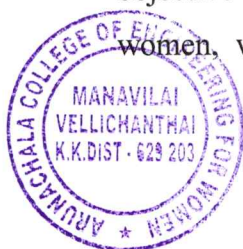
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solving is the process of using innovation and creative solutions to close that gap by resolving societal, business, or technological problems. Sometimes, personal problems can lead to entrepreneurial opportunities if validated in the market. The entrepreneur visualizes the prospect of filling the gap with an innovative solution that might entail the revision of a product or the creation of an entirely new product. In any case, the entrepreneur approaches the problem-solving process in various ways. Resource person explains more about problem solving as it pertains to the entrepreneur's thought process and approach rather than on problem solving in the sense of opportunity recognition and filling those gaps with new products. The session was more interactive and student learnt many things.



**Seminar on How to solve the Entrepreneurs problems in real life (Entrepreneurship) on 17-08-2018 by Ms.J.Hindhuja ,Asst.Professor.**

**Department of Electrical and Electronics Engineering** Organized a Seminar on Gender culture and entrepreneurship Development in India (Entrepreneurship) on 20-08-2018. The session was especially designed for the faculty members and students. Entrepreneurship as a cultural practice rests upon activities that are founded on embodied understanding and constitutional background. Its symbolic representation is rooted directly in the gendered body, too. Consequently, a gender analysis of entrepreneurship differs from an analysis of women entrepreneurs because it examines the way in which gender is culturally constructed by these social practices that constitute the social phenomenon of entrepreneurship. Our objective in this session is to locate the constitutional rights and protection of the working women, while contextualising them in the arena of 'gender and entrepreneurship'. The



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session was more interactive and student learnt many things and they were able to become entrepreneurs.




**Seminar on Gender culture and entrepreneurship Development in India  
(Entrepreneurship) on 20-08-2018 at 11 am by Dr.S. Joseph Jawhar.**

**Department of Electronics and Communication Engineering** Seminar on Effect of taxes on Entrepreneurs and their decision making Process (Entrepreneurship) Organized a on 05-10-2018. The session was especially designed for the faculty members and students. Two main objectives are there, try to explore whether tax increases discourage entrepreneurial activity, distinguishing between the effects on existing self-employment and new self-employment. However, the entrepreneur compares various forms of legal status and might choose to leave a status of self-employed and incorporate her business. The sessions were very interactive and student learnt many things and they were able to become entrepreneurs.



**Seminar on Effect of taxes on Entrepreneurs and their decision making Process  
(Entrepreneurship) on 05-10-2018 by Ms.RenukaLiban, Asst Professor, Ponjesly  
College of Engineering.**



  
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### PATENTS PUBLISHED BY THE FACULTY MEMBERS

Sl. No	Title of the patent	Application Number	Name of the applicants	Date of filing	Date of Publication	Date of grant
1	IOT BASED INTIMATION OF JACKFRUIT RIPENING	202341039966	1 . Joseph Jawhar 2 .BeaunaAshmi 3 .Nishitha 4 .Savitha	12/06/2023	08/09/2023	-
2	SMART TROLLEY WITH BILLING AND STOCK MONITORING USING RF TAG	202341041881	1 .Naveena A Priyadharsini 2 . R. Baby Shalini 3 .Aarthi M L 4 .Sreeshma P 5 .Sruthi K S 6 .Rammiya R 7 .Sobha K S 8 .Uthra C R	23/06/2023	15/09/2023	-
3	DEEP LEARNING MODELS TO STUDY AND ANALYSE THE CHATGPT AND ITS IMPACT ON DIFFERENT FIELDS	202311044694	1 .Davinderkumar 2 .Dr.A.Naveen 3 .Dr.A.Sasi Kumar 4 .Dr.P.S.Aithal 5 .Subharun Pal 6 .Aby John 7 . Dr. Jagdish Chand 8.Dr.Ayyagari Srinagesh 9 . Dr. R. Ablin 10 .Jyotikaushal 11 .Paladugu Rama Krishna 12 .Pulicherla Siva Prasad	03/07/2023	21/07/2023	-
4	DEVELOPMENT OF IMAGE PROCESSING BASED FRUIT SPOILED DETECTION SYSTEM	202141008722	1 . Dr. S. SHAJUN NISHA 2 .Dr.R.Ablin 3 . R. Ratchana 4 .Dr.M.Suresh 5 .Dr	02/03/2021	12/03/2021	-



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			6 .Suresha D 7 . Mr. J.S.PRASATH 8 .Akshay S 9 .Dr.N.B.Prakash 10 .Mr.S.Prathap 11 . Dr. M.VIJAYA BHASKAR REDDY MOPUR 12 .Dr.R.Athilingam 13 . Dr. Vishal Jain 14 . Dr. MOHAMED JAFFER SADIQ MOHAMED 15 . Dr. MAHALINGA V MANDI			
5	AUTOMATIC ACCIDENT DETECTION SYSTEM TO PREVENT AND AVOID ACCIDENT AND SURVEILLANCE SYSTEMS USING IOT AND DEEP LEARNING ALGORITHMS	202241046845	1 . Dr. Silas Stephen. D 2 . Dr. MARY A G EZHIL 3 . Dr. Rajeesh Kumar. N.V 4 .Srinivasan P 5 . NANDHAKUMAR A 6 .VedhaVinodha.D 7 . MOHANAPRIYA S 8 .Chandrasekaran M 9 . Dr. Allan J Wilson 10 . Dr. AshokaRajan. R 11 .PonBharathi A	17/08/2022	16/09/2022	
6	SMART CONTROL SYSTEM USING IOT FOR ELECTRIC VEHICLES MANAGEMENT	202341002610	1 . Dr. C. Agees Kumar 2 . Mrs. R.K.Ragavapriya 3 . Dr. T.Santhana Krishnan 4 . Mrs. Ponnarasi N 5 . Mrs. S.RahmathNisha 6 . Dr. T Vijay Muni 7 . Mr. G.Saravanan	12/01/2023	17/02/2023	-
7	POWER	202341001951	1 .Dr.T.S.Sivarani	10/01/2023	20/01/2023	-



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	DISTRIBUTION SYSTEM PLANNING FOR SMART GRID APPLICATIONS USING ANN		2 . Dr. K. Lakshmikhandan 3 .Dr.G.SooryaPriya 4 .Dr.B.SureshBabu 5 .Dr.S.Saravanan 6 . Dr. K. Karthikumar 7 . Dr. R. Azhagumurugan			
8	BATTERY BALANCING USING ARTIFICIAL INTELLIGENCE FOR ELECTRIC VEHICLE BATTERY MANAGEMENT SYSTEM	202341008020	1 . PON BHARATHI A 2 . Dr. Geetha K 3 .D.Nagarajan 4 .Manikandan S 5 . M. DIANA AMUTHA PRIYA 6 .Dr.RAJAN. V R 7 . ANUSHYA N	08/02/2023	17/02/2023	-
9	EDGE-ASSISTED DEEP LEARNING MODELS FOR INTELLIGENT VIDEO ANALYTICS IN SMART CITY SURVEILLANCE	202341049490	1 . PON BHARATHI A 2 .J.Mohamed Imran 3 .C.Pushpalatha 4 .Ancy John J 5 . R. AshokaRajan 6 .Brintha K 7 . BIRON GIFTY. S 8 .Pon L T Thai	22/07/2023	01/09/2023	-
10	PESTICIDE SPRAYING MINI ROBOT FOR AUTOMATIC KILLING OF COCKROACH USING RASPBERRY PI-3	202141057830	Dr. S. Joseph Jawhar		-	-
11	SENSOR ASSISTED WASTE MANAGEMENT SYSTEM	202341041473	1. Dr. R. Baby Shalini 2.Dr. Naveena A PriyaDharsini 3.Dharshine R. S 4.Hassim Arsha S 5.Jinisha K	12/05/2023	-	-
12	AI BASED	-	1. Dr. S. Joseph Jawhar	27/07/2023		-



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	AUTOMATIC DETECTION OF OBSTACLES AND ANIMAL CROSSING IN RAILWAY TRACK AND SELF- STOPPING OF TRAIN		2. Melfa M P 3. MuthuSelvi S 4. Shamini M 5. Keerthika N A			
13	BLUETOOTH BASED FOLLOW ME TROLLEY WITH AUTOMATED BILLING SYSTEM	202341067773	1 . Dr. T Sunitha 2 . P.S AnuRakhi 3 . SHIVANI S.M 4 .Haripriya S.V 5 .Kavya V.P 6 .Vibesha v	10/10/2023	27/10/2023	
14	AI-POWERED DIABETIC RETINOPATHY DETECTION DEVICE HARNESSING RASPBERRY PI WITH THE INTEGRATION OF CNN	202341067775	1 . Dr. T. Sunitha 2 . P. S. AnuRakhi 3 . C. Agees Kumar 4 .AntonietShreya S 5 .Madhubala J	10/10/2023	27/10/2023	
15	QUALITY EDUCATION FOR THE DISABLED - AUDIO VISUAL AIDS	-	1) Dr. T.V.Chithra 2)M.V.Reena 3) J.A. Anton Joshila 4)R.Thanusha 5) B.Wafa 6)S.Safrina 7)S.ShamaFathima			
16	ARDUINO BASED HEART RATE MONITORING SYSTEM IN THE STEERING WHEEL OF A CAR	202341071508	1) Dr. T.S.Sivarani 2) Mrs.M.V.Reena 3) Z.Inzeera	12-10-2023	-	
17	SMART DOORWAY TO MANAGE LARGE GATHERINGS USING	-	1)Dr.C.AGEES KUMAR 2)Dr.T.S.SIVARANI 3)DrM.V.REENA	16.11.2023		



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	ARDUINO UNO AND OCCUPANCY SENSOR		4)Dr.A.S.MONIKANDAN 5)Ms.V.NEERAJA A.BRAISA CAMIO			
18	A TRAIN BRAKE SYSTEM RELYING ON ULTRASOUND SENSORS	202441001486	N. Anushya RejuKannan K. Ragavi N. S. Sowmiya	08/01/2024	-	
19	WIRELESS SENSOR ASSISTED SMART DUSTBIN AND WASTE MANAGEMENT SYSTEM	-	1.K.RISKA	30.10.2023		
20	SMART WEB COLLECTOR	-	1.Mrs.N.V.Abirami 2) Mrs.S.S.Uma 3) Mrs.B.RenukaLiban 4) Ms.S.N.SindhuBairavi 5) Ms.S.LSneha 6) Ms. A.K.SrimathyVelam	20.9.2023	-	
21	SMART DIAGNOSTIC AND PROGNOSTIC SYSTEM FOR ELECTRIC VEHICLE COMPONENTS WITH IoT AND GRADIENT BOOSTING	202341044669	1)Dr. A. Muthukrishnan 2)AKILAN M 3)SUBATHRA K V 4)Dr. RAJAN V R 5)Dr. Mary A G Ezhil 6)R. A. Arthy	04/07/2023	01/09/2023	
22	MACHINE LEARNING-DRIVEN BATTERY HEALTH ASSESSMENT DEVICE INCORPORATING ELECTROCHEMICAL IMPEDANCE SPECTROSCOPY	202341062373	1) Dr. Kumar A 2)SUBATHRA K V 3)Dr. K. RAJESH 4)K MALARVIZHI 5)ABHIRAMI. J. S 6)Dr. R. Anuja 7)M. DhiviyaNycil	16/09/2023	06/10/2023	
23	INTELLISENSE	202341038926	1) SHAJI D S	07/06/2023	18/08/2023	



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	ECOSMART METER: IOT-ENABLED ENERGY MONITORING SYSTEM FOR SUSTAINABLE POWER CONSUMPTION		2)MARIS RAHUL K 3)SUBATHRA K V 4)Dr. Mary A G Ezhil 5)Dr. K. Lakshmi 6)Murugesan M 7)Dr. Lakshmi R			
24	EXOSKELETON LAND FOR STROKE SURVIVORS REHABILITATION & CONTROL VIA IOT BASED OPTIMIZATION	201941007778	1.Dr.JARIN.T 2.Dr.S.R.Boselin Prabha 3.Dr.C.Agees Kuymar 4.Dr.S.S.Sreeja Mole 5.Dr.S.Chidambaranatha n 6.Dr.R.Puviarasi 7.P.Muniraj 8.Nithin Jackson.P 9.Jithin C.G 10.Stephy Akkara 11.Martin Joseph 12.Noble Benny 13.Jerin Babu.P 14.Ratnan.P	28.02.2019	8.03.2019	
25	SENSOR FUSION TECHNIQUES FOR ENHANCED DATA ACCURACY IN IOT NETWORKS	202341059252	1)PON BHARATHI A 2)Anjana S 3)Dr. R. Sudarmani 4)J.Paruvathavardhini 5)Huma Khan 6)DrParthiban K G 7)Dr. Mary A G Ezhil	04.09.2023	06.10.2023	
26	INTER-CHIP OPTICAL-WIRELESS COMMUNICATIONS IN 6G	202241007052	1 .Dr.K. ANISH PON YAMINI 2 . Dr. Vince Paul 3 . Dr. VARGHESE S CHOORALIL 4 . Dr. Naveena A Priyadharsini 5 . Dr. Lince Mathew	10/02/2022	18/02/2022	



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			6 . Mr. R. ASIR CHANDRA SHINOO 7 .Dr.C.SHEEJA HEROBIN RANI 8 .Dr.B.C.PREETHI 9 . Mrs. A. C. JINISHA 10 .Dr.S.MARIA SERAPHIN SUJITHA  11 . Dr. A. J. DEEPA 12 . Dr. S. BRILLY SANGEETHA			
27	TITLE OF INVENTION DESIGN AND DEVELOPMENT OF SOIL INSPECTION ROBOT FOR AGRICULTURAL FIELDS	202041051571	1 .Dr.RavikumarGurusamy 2 .Murali Krishna Kotha 3 . Dr. Priyesh P. Gandhi 4 .Dr.R.Ablin 5 .TarunGehlrot 6 . Mohammad Shabaz 7 .AkhilKotha 8 .Dr.Punith Kumar M B 9 . Dr. Senthilkumar S 10 .Dr.C.Samson Jerold Samuel 11 .RohanKotha 12 . Dr. T.S. Karthik 13 .Dr.John T Abraham 14 . Dr. Pavithra G. 15 . Dr. T.C.Manjunath	26/11/2020	04/12/2020	



  
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