

# PSN ENGINEERING COLLEGE

Melathediyoor, Palayamkottai Taluk, Tirunelveli District, Pin - 627 152.

(Approved by AICTE and Affiliated to Anna University)

An ISO 9001 : 2015 Certified Institution

Website : [www.psnec.ac.in](http://www.psnec.ac.in) Email : [principal@psnec.ac.in](mailto:principal@psnec.ac.in)

☎ 04634-279078, 279079 Fax : 04634-279078



## DEPARTMENT OF MECHANICAL AND AUTOMATION ENGINEERING

### FDP REPORT

**Topic:** Engineering Mechanics

**Conducted By:** Vellammal Institute of Technology

**Attended Staff:** Mr.N.Venkatachalapathy, S.Parvathi

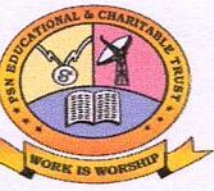
The faculty development program on the topic of Engineering Mechanics conducted from 15- 06-2020 to 21-06-2020. The main objective of the FDP was to introduce advanced academic research as well as industry practices in the field of Engineering Mechanics to the faculty. Engineering mechanics is the branch of science concerned with the motion of any substance that can be experienced or perceived by humans without the help of instruments. In short, when mechanics concepts surpass being theoretical and are applied and executed, general mechanics becomes applied mechanics

*N. Venka*  
26/6/20

**Signature of the Faculty**

*Thyshi*  
HoD 26/6/20

*N. Venka*  
**PRINCIPAL**  
**PRINCIPAL**  
PSN Engineering College  
Melathediyoor, Palayamkottai Tk  
Tirunelveli District - 627 152



# PSN ENGINEERING COLLEGE

Melathediyoor, Palayamkottai Taluk, Tirunelveli District, Pin - 627 152.

(Approved by AICTE and Affiliated to Anna University)

An ISO 9001 : 2015 Certified Institution

Website : [www.psnec.ac.in](http://www.psnec.ac.in) Email : [principal@psnec.ac.in](mailto:principal@psnec.ac.in)

☎ 04634-279078, 279079 Fax : 04634-279078



## DEPARTMENT OF MECHANICAL AND AUTOMATION ENGINEERING

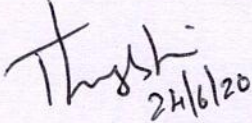
### FDP REPORT

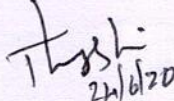
**Topic:** Future Materials Nanocomposites

**Conducted By:** Bharat Institute of Engineering And Technology

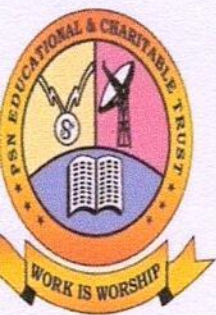
**Attended Staff:** M.T.Livingston,

The faculty development program on the topic of Future Materials Nanocomposites conducted from 15- 06-2020 to 21-06-2020. The main objective of the FDP was to introduce advanced academic research as well as industry practices in the field of the Future Materials Nanocomposites to the faculty. The Nanocomposites is to use building blocks with dimensions in nanometre range to design and create new materials with unprecedented flexibility and improvement in their physical properties.

  
Signature of the Faculty

  
HoD

  
PRINCIPAL  
PRINCIPAL  
PSN Engineering College  
Melathediyoor, Palayamkottai Tk.  
Tirunelveli District - 627 152.



# PSN ENGINEERING COLLEGE

Melathediyoor, Palayamkottai Taluk, Tirunelveli District, Pin - 627 152.

(Approved by AICTE and Affiliated to Anna University)

An ISO 9001 : 2015 Certified Institution

Website : [www.psnec.ac.in](http://www.psnec.ac.in) Email : [principal@psnec.ac.in](mailto:principal@psnec.ac.in)

☎ 04634-279078, 279079 Fax : 04634-279078



## DEPARTMENT OF MANAGEMNT STUDIES

### FDP REPORT

**TOPIC:** IMPROVING YOUR RESERCH VISIBILITY-RESEARCH IMPACT AND METRICS

**CONDUCTED BY:** VELALAR College of Engineering and Technology

**ATTENDED STAFF:** Mrs.R.Hepsiba Beula , Dr.M.Maria Jain Bruce , Ms.A.Karpaga sankarai

The faculty development program on the topic of **IMPROVING YOUR RESERCH VISIBILITY-RESEARCH IMPACT AND METRICS** conducted by: VELALAR College of Engineering and Technology from 11/05/2020 to 13/05/2020. It was the interested and more informative programme about the research sector .It gave more details that helps to all research scholar of our college staff and other staff..

Signature of the Faculty

*[Handwritten Signature]*  
24/05/2020

HOD

*[Handwritten Signature]*  
24/05/2020

**PRINCIPAL**  
**Dr. M.S. RAVIKUMAR**  
Principal  
PSN ENGINEERING COLLEGE  
Melathediyoor, Palayamkottai  
Tirunelveli - 627 152



# PSN ENGINEERING COLLEGE

Melathediyoar, Palayamkottai Taluk, Tirunelveli District, Pin - 627 152.

(Approved by AICTE and Affiliated to Anna University)

An ISO 9001 : 2015 Certified Institution

Website : [www.psnec.ac.in](http://www.psnec.ac.in) Email : [principal@psnec.ac.in](mailto:principal@psnec.ac.in)

☎ 04634-279078, 279079 Fax : 04634-279078



## DEPARTMENT OF MANAGEMNT STUDIES

### FDP REPORT

**TOPIC:** TOOLS FOR SCIENTIFIC COMMUNICATION AND EFFECTIVE TEACHING

**CONDUCTED BY:** VAAGDEVI College of Engineering

**ATTENDED STAFF:** Mrs.R.Sree devi, Ms.Muthu mari

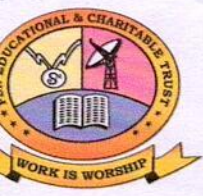
The faculty development program on the topic of **TOOLS FOR SCIENTIFIC COMMUNICATION AND EFFECTIVE TEACHING** conducted by VAAGDEVI College of Engineering from 02/06/2020 to 06/06/2020 . It was very interested and more informative programme about the communication and effective teaching programme .It gave more techniques to teaching process.

Signature of the Faculty

HOD

PRINCIPAL

PRINCIPAL  
PSN Engineering College  
Melathediyoar, Palayamkottai Tk  
Tirunelveli District - 627 152.



# PSN ENGINEERING COLLEGE

Melathediyoor, Palayamkottai Taluk, Tirunelveli District, Pin - 627 152.

(Approved by AICTE and Affiliated to Anna University)

An ISO 9001 : 2015 Certified Institution

Website : [www.psnec.ac.in](http://www.psnec.ac.in) Email : [principal@psnec.ac.in](mailto:principal@psnec.ac.in)

☎ 04634-279078, 279079 Fax : 04634-279078



## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### REPORT OF FDP ATTENDED ON 05.06.2020 to 08-06-2020

**TOPIC:** MACHIN LEARNING FOR SIGNAL PROCESSING & VLSI

**CONDUCTED BY:** ANURAG UNIVERSITY

**STAFF PARTICIPATED :** Mr.S.PITCHAI AH, Dr. J. KALIAPPAN.

Ms. N. PARVATHI, Mr. G. GOVINDARAJ.

The facility development program on the topic of Machine learning for signal processing & VLSI conducted by Anurag university from 05-06-2020 to 08-06-2020. It was very useful to understand the concept. Machine learning for signal processing (MLSP) is the science that deals with the development of efficient algorithms and models that are able to detect and unveil a possible hidden structure in signals, thus recovering a desired information. This FDP was very useful in all aspect.

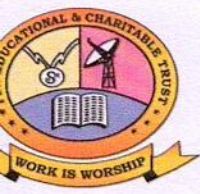
**Signature of the Faculty**

**HOD**

**PRINCIPAL**

PRINCIPAL

PSN Engineering College  
Melathediyoor, Palayamkottai Tk  
Tirunelveli District - 627 152



# PSN ENGINEERING COLLEGE

Melathediyoor, Palayamkottai Taluk, Tirunelveli District, Pin - 627 152.

(Approved by AICTE and Affiliated to Anna University)

An ISO 9001 : 2015 Certified Institution

Website : [www.psnec.ac.in](http://www.psnec.ac.in) Email : [principal@psnec.ac.in](mailto:principal@psnec.ac.in)

☎ 04634-279078, 279079 Fax : 04634-279078



## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### REPORT OF FDP ATTENDED ON 07.12.2020 to 11-12-2020

**TOPIC:** ARTIFICIAL INTELLIGENCE FOR ROBOTICS

**CONDUCTED BY:** SAI RAM ENGINEERING COLLEGE

**STAFF PARTICIPATED :** Mrs.T. RAMYA, Mrs.V. NIRANJANADEVI,

Mrs. R.V. SHYNI, MS.UMADVI, Mr. BABU, Mrs.W.R. ADLIN WILCY

The faculty development program on the topic of Artificial intelligence for robotics conducted by Sai ram Engineering College from 07-12-2020 to 11-12-2020. It was very useful to understand the concept. Artificial intelligence (AI) is the intelligence of machines or software, as opposed to the intelligence of humans or animals. It is the subject of an eponymous field of study in computer science, which develops and studies intelligent machines. The term AI may also refer to the intelligent machines themselves. This FDP was very useful in all aspect.

*V. Shyni*  
Signature of the Faculty

*Babu*  
HOD

*No. h*  
PRINCIPAL  
PRINCIPAL  
PSN Engineering College  
Melathediyoor, Palayamkottai Tk.  
Tirunelveli District - 627 152.



# PSN ENGINEERING COLLEGE

Melathediyoor, Palayamkottai Taluk, Tirunelveli District, Pin - 627 152.

(Approved by AICTE and Affiliated to Anna University)

An ISO 9001 : 2015 Certified Institution

Website : [www.psnec.ac.in](http://www.psnec.ac.in) Email : [principal@psnec.ac.in](mailto:principal@psnec.ac.in)

☎ 04634-279078, 279079 Fax : 04634-279078



## DEPARTMENT OF INFORMATION TECHNOLOGY

### FDP REPORT

Topic: Digital Skills for Smart Teaching

Conducted By: ANNAMALAI UNIVERSITY

Attended Staff: Mr.M.Ligin Arul Justus, Mrs.A.Salini , Mr.Sam Eliezer, Mrs.S.Nandhini & Ms.M.Mariammal

The faculty development program on the topic of Digital Skills for Smart Teaching from 12-06-2020 to 18-06-2020. These are mainly peer education, teamwork, problem-solving, reverse teaching, concept maps, staging, role-playing, and storytelling. All are Through this interactive and memorable model, faculty are having a better connection with the learning material, thus improving their motivation and accountability. This makes digitally literate teachers great advocates for the appropriate technologies.

Signature of the Faculty

HOD

PRINCIPAL

PRINCIPAL  
PSN Engineering College  
Melathediyoor, Palayamkottai Tk.  
Tirunelveli District - 627 152.



# PSN ENGINEERING COLLEGE

Melathediyoor, Palayamkottai Taluk, Tirunelveli District, Pin - 627 152.

(Approved by AICTE and Affiliated to Anna University)

An ISO 9001 : 2015 Certified Institution

Website : [www.psnec.ac.in](http://www.psnec.ac.in) Email : [principal@psnec.ac.in](mailto:principal@psnec.ac.in)

☎ 04634-279078, 279079 Fax : 04634-279078



## DEPARTMENT OF INFORMATION TECHNOLOGY

### FDP REPORT

Topic: IOT Communication Technologies

Conducted By: VELLORE INSTITUTE OF TECHNOLOGY

Attended Staff: Dr.A.Joe Arun Raja ,Mr.W.Apollo Jebaraj, Mrs.Fathima Parveen Banu, Mrs.J. Merlin Sam Judith

The faculty development program on the topic of IOT Communication Technologies from 24-12-2020 to 28-12-2020. The concept of IoT encompasses two key features that define its essence: Automation: IOT revolves around the idea of direct communication between various devices and hardware components without the need for human intervention. It enables seamless connectivity and interaction between these entities. The Internet of Things (IoT) is a system of interconnected physical devices that communicate via network connectivity using various communications protocols.

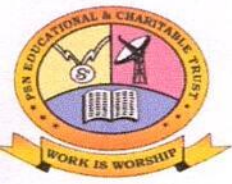
Signature of the Faculty

HOD

PRINCIPAL  
PRINCIPAL

PSN Engineering College  
Melathediyoor, Palayamkottai Tk  
Tirunelveli District - 627 152.





# PSN ENGINEERING COLLEGE

Melathediyoor, Palayamkottai Taluk, Tirunelveli District, Pin - 627 152.

(Approved by AICTE and Affiliated to Anna University)

An ISO 9001 : 2015 Certified Institution

Website : [www.psnec.ac.in](http://www.psnec.ac.in) Email : [principal@psnec.ac.in](mailto:principal@psnec.ac.in)

☎ 04634-279078, 279079 Fax : 04634-279078



## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### FDP REPORT

Topic: Digital Skills for smart Teaching

Conducted By: Annamalai University

Attended Staff: M.Anitha, D.Jelin, K.Sudersingh, M.Ligin Arul Justus,A.Tharik Nazeem

The faculty development program on the topic of Digital Skills for smart Teaching conducted by Annamalai University from 12.06.2020 to 18.06.2020. It was very useful to know about the digital skills is 'a range of abilities to use digital devices, communication applications, and networks to access and manage information.Such as Using a computer. Being able to use a computer is the bare minimum when it comes to digital literacy skills, Navigating the internet, Staying safe online, Communicating online.The resource persons clearly explained digital skills range from data visualization and basic programming skills to data engineering

*Manna*  
Signature of the Faculty

*Yue*  
HOD

*M.S. Ravikumar*  
Principal

Head of the Department  
Department of Computer science and  
Engineering  
PSN Engineering College-  
Tirunelveli-627152

**Dr. M.S. RAVIKUMAR**  
**Principal**  
**PSN ENGINEERING COLLEGE**  
**Melathediyoor, Palayamkottai**  
**Tirunelveli - 627 152**



## DEPARTMENT OF SCIENCE & HUMANITIES

### FDP REPORT

Topic: APPLICATIONS OF MATHEMATICS IN ENGINEERING

Conducted By: KPR Institute of Engineering & Technology, Coimbatore

Attended Staff: Mrs. A. Jeevidha, Mrs. S. Girija

The faculty development program on the topic of Applications Of Mathematics In Engineering conducted by KPR Institute of Engineering & Technology, Coimbatore on 20.07.2020 to 25.07.2020. It was very useful to know about the Mechanical engineers often use math and physics formulas to determine the amount of energy and force produced by a machine. In addition, they also sometimes use algebra for designing suspension systems and algorithms, among others. Math is used extensively in computing. Engineers are problem solvers, and math is an essential tool for problem-solving. Math helps students develop critical thinking skills and teaches them how to analyze and solve problems systematically. Engineers use mathematical concepts to create models, analyze data, and make predictions.

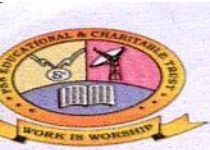
*S. Girija*

HOD

**The HOD**  
Dept. of Science and Humanities  
PSN Engineering College  
Tirunelveli - 627 152

*M.S. Ravikumar*  
PRINCIPAL

**Dr. M.S. RAVIKUMAR**  
Principal  
PSN ENGINEERING COLLEGE  
Melathediyoar, Palayamkottai  
Tirunelveli - 627 152



## DEPARTMENT OF SCIENCE AND HUMANITIES

### FDP REPORT

Topic: APPLICATION OF GIS IN CHEMISTRY

Conducted By: PSGR Krishnammal College for women

Attended Staff: Mr. B. Giftson Boaz, Mr. T. Jebastephen

The faculty development program on the topic of APPLICATION OF GIS IN CHEMISTRY conducted by from 14 -02 -2020 to 15-02-2020. The program broadly focus on GIS technology can be used for scientific investigations, resource management, and development planning. Many retail businesses use GIS to help them determine where to locate a new store. Marketing companies use GIS to decide to whom to market stores and restaurants, and where that marketing should be. GIS makes it easy to monitor the environment using satellite images. Satellite images help monitor the natural resources, soil, and habitat of different species. Map making ability of GIS by integrating database operations such as query and statistical analysis with the visualization and geographic analysis makes it a powerful tool to explain events, predicting possible outcomes and planning abatement strategies.

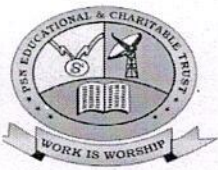
HOD

The HOD

Dept. of Science and Humanities  
PSN Engineering College  
Tirunelveli - 627 152

PRINCIPAL

DR. M.S. RAVIKUMAR  
Principal  
PSN ENGINEERING COLLEGE  
Melathediyoor, Palayamkottai  
Tirunelveli - 627 152



# PSN ENGINEERING COLLEGE

Melathediyoar, Palayamkottai Taluk, Tirunelveli District, Pin - 627 152.

(Approved by AICTE and Affiliated to Anna University)

An ISO 9001 : 2015 Certified Institution

Website : [www.psnec.ac.in](http://www.psnec.ac.in) Email : [principal@psnec.ac.in](mailto:principal@psnec.ac.in)

☎ 04634-279078, 279079 Fax : 04634-279078



## FACULTY DEVELOPMENT PROGRAMME

### LEARNING DIARY

Mr.K.Chella Durai,

I participated faculty development programme held at LBS College of Engineering from 26<sup>th</sup> July 2021 to 30<sup>th</sup> July 2021.

During this period we participated in credit courses like course conducted by **ADVANCED IN EARTHQUAKE ENGINEERING.**

Earthquakes are the indication of transformation in the earth's internal structure. Seismic activity is common in most parts of the world, though the frequency of its occurrence is a function of local tectonic setup. The past earthquake experiences have demonstrated huge loss of life and building stock, affecting the social and economic conditions of a country. Though it is not possible to prevent an earthquake, the least that can be achieved in reducing the damage is to make the buildings earthquake resistant. With the advancement in our understanding of the earthquakes, most of the countries have mandated the incorporation of seismic provisions in building design and architecture. In the event of an earthquake, the seismic waves originating from the focus is transmitted in all the possible directions. These shock waves propagate in the form of body waves and surface waves through the earth's interior and, are highly random in nature. The seismic design philosophy aims to primarily ensure life safety and secures the functionality of the building. In conjunction with the design philosophy, it is essential to adopt earthquake-safe construction practices for the efficient seismic performance of a building. The most common building typologies encountered in the recent years are the moment resisting frame moment resisting frames with brick infill, and masonry buildings.

Every day during classes the instructor teach various learning perspective methods related to advanced in earthquake engineering and also helps to improve our knowledge about structures. Apart from the regular courses this course enhanced my knowledge some courses helped in honring my research skills.

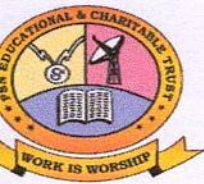
#### Summary

1. This course helps to learning **ADVANCED IN EARTHQUAKE ENGINEERING.**
2. The advanced in earthquake engineering and also helps to improve our knowledge about structures.
3. It helps to learn the benefits of advanced in earthquake engineering and also helps to design the sustainable buildings.

*B. Durai*  
HOD

PRINCIPAL

**Dr. M.S. RAVIKUMAR**  
Principal  
PSN ENGINEERING COLLEGE  
Melathediyoar, Palayamkottai,  
Tirunelveli - 627 152.



# PSN ENGINEERING COLLEGE

Melathediyoor, Palayamkottai Taluk, Tirunelveli District, Pin - 627 152.

(Approved by AICTE and Affiliated to Anna University)

An ISO 9001 : 2015 Certified Institution

Website : [www.psnec.ac.in](http://www.psnec.ac.in) Email : [principal@psnec.ac.in](mailto:principal@psnec.ac.in)

☎ 04634-279078, 279079 Fax : 04634-279078



## DEPARTMENT OF MECHANICAL AND AUTOMATION ENGINEERING

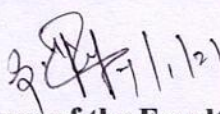
### FDP REPORT

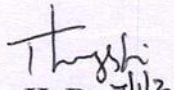
**Topic:** ME8493-Thermal Engineering


**Conducted By:** Sai Ram Engineering College, Chennai.

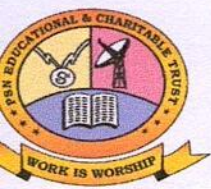
**Attended Staff:** Mr.P.Kumaravelu, S.Parvathi, G.vergin Vino, F.Innasi Raja

The faculty development program on the topic of thermal engineering-I conducted from 28- 12-2020 to 04-01-2021. The main objective of the FDP was to introduce advanced academic research as well as industry practices in the field of the thermal engineering to the faculty. The trainer taught about the gas and steam power cycles, reciprocating air compressor, internal combustion engines and combustion, internal combustion engine performance and and system, and finally gas turbines. They also stated about the thermal engineer's high in demand, because they work in manufacturing companies, hydroelectric power plants, nuclear power stations, energy conservation department, thermal power plants, and space research organization. Jobs are available for both entry-level and senior professionals. They briefly explain about the advanced Thermal engineering topics like Alternative fuels, Microelectronics heat transfer, Fuel cell, Green Energy and Greener Production.

  
Signature of the Faculty

  
HoD 7/1/21

  
PRINCIPAL  
PRINCIPAL  
PSN Engineering College  
Melathediyoor, Palayamkottai Tk.  
Tirunelveli District - 627 152



# PSN ENGINEERING COLLEGE

Melathediyoor, Palayamkottai Taluk, Tirunelveli District, Pin - 627 152.

(Approved by AICTE and Affiliated to Anna University)

An ISO 9001 : 2015 Certified Institution

Website : [www.psneec.ac.in](http://www.psneec.ac.in) Email : [principal@psneec.ac.in](mailto:principal@psneec.ac.in)

☎ 04634-279078, 279079 Fax : 04634-279078



## DEPARTMENT OF MECHANICAL AND AUTOMATION ENGINEERING

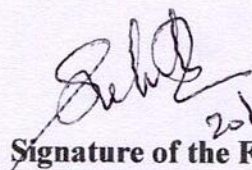
### FDP REPORT

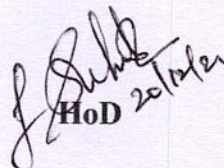
**Topic:** Recent Trends in Sustainable additive Manufacturing & Desalination Techniques

**Conducted By:** Francis Xavier Engineering College

**Attended Staff:** M.T.Livingston, G.VerginVino, S.Parvathi, G.Satish Pandian,

The faculty development program on the topic of Recent Trends in Sustainable additive Manufacturing & Desalination Techniques conducted from 09-12-2021 to 11-12-2021. The main objective of the FDP was to introduce advanced academic research as well as industry practices in the field of the Recent Trends in Sustainable additive Manufacturing & Desalination Techniques to the faculty. Sustainable and cleaner manufacturing systems have found broad applications in industrial processes, especially aerospace, automotive and power generation. Conventional manufacturing methods are highly unsustainable regarding carbon emissions, energy consumption, material wastage, costly shipment and complex supply management

  
20/12/21  
Signature of the Faculty

  
20/12/21  
HoD

PRINCIPAL  
  
Dr. M.S. RAVIKUMAR  
Principal  
PSN ENGINEERING COLLEGE  
Melathediyoor, Palayamkottai  
Tirunelveli - 627 152



# PSN ENGINEERING COLLEGE

Melathediyoor, Palayamkottai Taluk, Tirunelveli District, Pin - 627 152.

(Approved by AICTE and Affiliated to Anna University)

An ISO 9001 : 2015 Certified Institution

Website : [www.psnec.ac.in](http://www.psnec.ac.in) Email : [principal@psnec.ac.in](mailto:principal@psnec.ac.in)

☎ 04634-279078, 279079 Fax : 04634-279078



## DEPARTMENT OF MECHANICAL AND AUTOMATION ENGINEERING

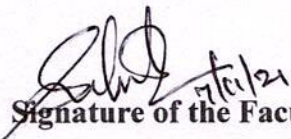
### FDP REPORT

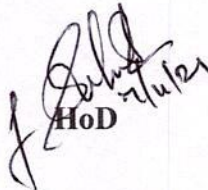
Topic: GREEN AND RENEWABLE ENERGY TECHNOLOGIES FOR SUSTAINABLE DEVELOPMENT

Conducted By: Karunya Institute of Technology and Science, Coimbatore

Attended Staff: T.Livingston, G.Vergin Vino,G.Satish Pandian,S.Parvathi

The faculty development program on the topic of Green and Renewable Energy Technologies for Sustainable Development conducted by from 28 -10 -2021 to 3-11-2021. It was very useful to know about the renewable energy sources such as biomass, geothermal resources, sunlight, water, and wind, are natural resources that can be converted into these types of clean, usable energy: Bio-energy, Geothermal energy and Hydropower. The resource persons clearly explained the advantages of renewable energy and also give constructive explanation about the affect of economy, environment, national security, and human health due to this Renewable Energy Technologies.

  
Signature of the Faculty

  
HoD

  
PRINCIPAL  
Dr. M.S. RAVIKUMAR  
Principal  
PSN ENGINEERING COLLEGE  
Melathediyoor, Palayamkottai  
Tirunelveli - 627 152



# PSN ENGINEERING COLLEGE

Melathediyoor, Palayamkottai Taluk, Tirunelveli District, Pin - 627 152.

(Approved by AICTE and Affiliated to Anna University)

An ISO 9001 : 2015 Certified Institution

Website : [www.psnec.ac.in](http://www.psnec.ac.in) Email : [principal@psnec.ac.in](mailto:principal@psnec.ac.in)

☎ 04634-279078, 279079 Fax : 04634-279078



## DEPARTMENT OF MANAGEMNT STUDIES

### FDP REPORT

**TOPIC:** RECENT TRENDS IN SUSTAINABLE ADDITIVE MANUFACTURING AND DESALINATION

**CONDUCTED BY:** PSN Engineering College

**ATTENDED STAFF:** Mrs.A.Thangapoo, Mrs.R.Hepsiba Beula, Mr.Thangaraja

The faculty development program on the topic of **RECENT TRENDS IN SUSTAINABLE ADDITIVE MANUFACTURING AND DESALINATION** conducted by PSN Engineering College from 09/12/2021 -to 11/12/2021. It was very useful to know about the manufacturing and desalination of recent trend . This FDP helps the staff to encourage the staff to know the more knowledge about the particular field.

Signature of the Faculty

*[Handwritten Signature]*  
22/12/21

HOD

*[Handwritten Signature]*  
22/12/21

PRINCIPAL

**Dr. M.S. RAVIKUMAR**  
Principal  
PSN ENGINEERING COLLEGE  
Melathediyoor, Palayamkottai  
Tirunelveli - 627 152





# PSN ENGINEERING COLLEGE

Melathediyoor, Palayamkottai Taluk, Tirunelveli District, Pin - 627 152.

(Approved by AICTE and Affiliated to Anna University)

An ISO 9001 : 2015 Certified Institution

Website : [www.psnec.ac.in](http://www.psnec.ac.in) Email : [principal@psnec.ac.in](mailto:principal@psnec.ac.in)

☎ 04634-279078, 279079 Fax : 04634-279078



## DEPARTMENT OF MANAGEMENT STUDIES

### FDP REPORT

**TOPIC:** ARTIFICIAL INTELLIGENCE, MACHINE LEARNING AND DEEP LEARNING

**CONDUCTED BY:** AICTE Training and Learning Academy

**ATTENDED STAFF:** Mrs.A.Thangapoo, Mrs.C.Selvi, Ms.A.Karpaga sankarai

The faculty development program on the topic of **ARTIFICIAL INTELLIGENCE, MACHINE LEARNING AND DEEP LEARNING** conducted by AICTE Training and Learning Academy from 02/02/2021 to 06/02/2021. It was very informative programme about the machine learning ,deep learning and the artificial intelligence. This programme was very useful to us to improve our skills.

Signature of the Faculty

HOD

PRINCIPAL

PRINCIPAL  
PSN Engineering College  
Melathediyoor, Palayamkottai Tk  
Tirunelveli District - 627 152.



# PSN ENGINEERING COLLEGE

Melathediyoar, Palayamkottai Taluk, Tirunelveli District, Pin - 627 152.

(Approved by AICTE and Affiliated to Anna University)

An ISO 9001 : 2015 Certified Institution

Website : [www.psnec.ac.in](http://www.psnec.ac.in) Email : [principal@psnec.ac.in](mailto:principal@psnec.ac.in)

☎ 04634-279078, 279079 Fax : 04634-279078



## FACULTY DEVELOPMENT PROGRAMME

### LEARNING DIARY

Dr.M.Vignesh Kumar,

I participated faculty development programme held at Poorima Institute of Engineering and Technology from 15<sup>th</sup> Feb 2021 to 19<sup>th</sup> Feb 2021.

During this period we participated in credit courses like course conducted by **GEOTECHNICAL ASSESSMENT OF INDUSTRIAL EXPOSURE.**

Risk assessment has been seen as an important tool in reducing accidents. Use of risk assessment tools also has its significant presence in the underground mining industry in preventing work related hazards. Geotechnical uncertainty however is among the leading cause behind major accidents such as roof collapse which leads to multiple fatalities and financial loss. Geotechnical risk assessment done at stages as early as mine design can help justify a different mine design aspect such as support methods for a risky area different from the rest of the mine. The aim of this paper is to organize the geotechnical risk assessment process to suit the underground mining needs. Risk identification tools have been shortlisted to suit underground mining needs through literature review. Risk assessment approaches have been defined into deterministic, probabilistic and possibility approaches with relevance to geotechnical assessment. Elements to be considered in an underground mine for a geotechnical risk assessment have been structured into classes. Establishment of scope of a geotechnical risk assessment based on these classes has been explained. Selection guideline for the appropriate risk identification tool has been defined based on the scope of risk assessment.

Every day during classes the instructor teach various learning perspective methods related to geotechnical assessment of industrial exposure and also helps to improve our knowledge about structures. Apart from the regular courses this course enhanced my knowledge some courses helped in honing my research skills.

#### Summary

1. This course helps to learning **GEOTECHNICAL ASSESSMENT OF INDUSTRIAL EXPOSURE.**
2. The geotechnical assessment of industrial exposure and also helps to improve our knowledge about structures.
3. It helps to learn the benefits of geotechnical assessment of industrial exposure and also helps to design the sustainable buildings.

B.P. HOD

PRINCIPAL

**Dr. M.S. RAVIKUMAR**  
Principal  
PSN ENGINEERING COLLEGE  
Melathediyoar, Palayamkottai,  
Tirunelveli - 627 152.



# PSN ENGINEERING COLLEGE

Melathediyoor, Palayamkottai Taluk, Tirunelveli District, Pin - 627 152.

(Approved by AICTE and Affiliated to Anna University)

An ISO 9001 : 2015 Certified Institution

Website : [www.psnec.ac.in](http://www.psnec.ac.in) Email : [principal@psnec.ac.in](mailto:principal@psnec.ac.in)

☎ 04634-279078, 279079 Fax : 04634-279078



## DEPARTMENT OF MECHANICAL AND AUTOMATION ENGINEERING


### FDP REPORT

**Topic:** Research insights in Materials and Manufacturing


**Conducted By:** Vellamal Engineering College

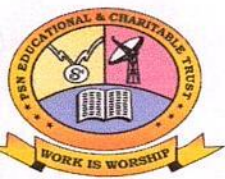
**Attended Staff:** Dr. G. SathishPandian

The faculty development programme on the topic of Research insights in materials and manufacturing Techniques was conducted from 13-12-2021 to 17-12-2021 .the main objective of the FDP was to introduce advanced academic research as well as industry practices in the field of Research insights in Materials and Manufacturing to the faculty. Materials science is also an important part of forensic engineering and failure analysis investigating materials, products, structures or components, which fail or do not function as intended, causing personal injury or damage to property.

  
22/12/21  
Signature of the Faculty

  
22/12/21  
HOD

  
PRINCIPAL  
**Dr. M.S. RAVIKUMAR**  
Principal  
PSN ENGINEERING COLLEGE  
Melathediyoor, Palayamkottai  
Tirunelveli - 627 152



# PSN ENGINEERING COLLEGE

Melathediyoor, Palayamkottai Taluk, Tirunelveli District, Pin - 627 152.

(Approved by AICTE and Affiliated to Anna University)

An ISO 9001 : 2015 Certified Institution

Website : [www.psnec.ac.in](http://www.psnec.ac.in) Email : [principal@psnec.ac.in](mailto:principal@psnec.ac.in)

☎ 04634-279078, 279079 Fax : 04634-279078



## DEPARTMENT OF MECHANICAL AND AUTOMATION ENGINEERING

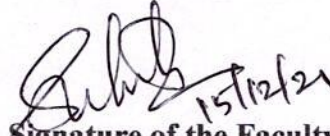
### FDP REPORT

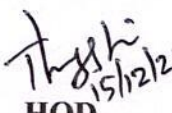
**Topic:** Advance in strength of materials and manufacturing engineering

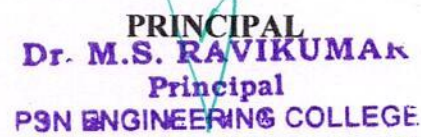
**Conducted By:** Andte deemed to be university

**Attended Staff:** Mr. G. Vergin vino & Dr. G. SathishPandian, Ms.S.Parvathi

The faculty development programme on the topic of Advance in strength of materials and manufacturing engineering was conducted from 06-12-2021 to 11-12-2021 .the main objective of the FDP was to introduce advanced academic research as well as industry practices in the field of Advance in strength of materials and manufacturing engineering to the faculty. In the mechanics of materials, the strength of a material is its ability to withstand an applied load without failure or plastic deformation. The field of strength of materials typically refers to various methods of calculating the stresses and strains in structural members, such as beams, columns, and shafts.

  
Signature of the Faculty

  
HOD

  
PRINCIPAL  
Dr. M.S. RAVIKUMAR  
Principal  
PSN ENGINEERING COLLEGE  
Melathediyoor, Palayamkottai  
Tirunelveli - 627 152



# PSN ENGINEERING COLLEGE

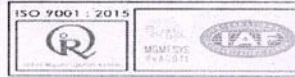
Melathediyoor, Palayamkottai Taluk, Tirunelveli District, Pin - 627 152.

(Approved by AICTE and Affiliated to Anna University)

An ISO 9001 : 2015 Certified Institution

Website : [www.psnec.ac.in](http://www.psnec.ac.in) Email : [principal@psnec.ac.in](mailto:principal@psnec.ac.in)

☎ 04634-279078, 279079 Fax : 04634-279078



## DEPARTMENT OF AUTOMOBILE ENGINEERING

### FDP REPORT


**Topic:** ME8493-Thermal Engineering-I

**Conducted By:** Sai Ram Engineering College, Chennai.

**Attended Staff:** Mr Mr.A.Sivarajan, Mr.A.Sivarajan, Mr.F.Gnanaprakash, Mr. R.Deepan and Mr.K. Leenus Christuraj.

The faculty development program on the topic of ME8493-Thermal Engineering-I conducted from 28-12-2020 to 04-01-2021. The main objective of the FDP was to introduce advanced academic research as well as industry practices in the field of Thermal Engineering to the faculty and PG students. The trainer taught about the Gas and Steam Power Cycles, Reciprocating Air Compressor, Internal Combustion Engines and Combustion, Internal Combustion Engine Performance and Systems, and finally Gas Turbines. They also stated about the Thermal Engineer's high in demand, because they work in manufacturing companies, hydroelectric power plants, nuclear power stations, energy conservation departments, thermal power plants, and space research organizations. Jobs are available for both entry-level and senior professionals. They briefly explain about the Advanced Thermal Engineering topics like Alternative fuels, Microelectronics heat transfer, Fuel cell, Green Energy and Greener Production.

  
HoD

  
**PRINCIPAL**  
**Dr. M.S. RAVIKUMAR**  
Principal  
PSN ENGINEERING COLLEGE  
Melathediyoor, Palayamkottai  
Tirunelveli - 627 152



# PSN ENGINEERING COLLEGE

Melathedyoor, Palayamkottai Taluk, Tirunelveli District, Pin - 627 152.

(Approved by AICTE and Affiliated to Anna University)

An ISO 9001 : 2015 Certified Institution

Website : [www.psnec.ac.in](http://www.psnec.ac.in) Email : [principal@psnec.ac.in](mailto:principal@psnec.ac.in)

☎ 04634-279078, 279079 Fax : 04634-279078



## DEPARTMENT OF MECHANICAL ENGINEERING

### FDP REPORT

Topic: GREEN AND RENEWABLE ENERGY TECHNOLOGIES FOR SUSTAINABLE DEVELOPMENT

Conducted By: Karunya Institute of Technology and Science, Coimbatore

Attended Staff: Dr.D.S.Jenaris, Mr.A.Mahesh Raja, Mr.S.Asaikkani, Mr.K.Manoj Kumar,

The faculty development program on the topic of Green and Renewable Energy Technologies for Sustainable Development conducted by from 28 -10 -2021 to 3-11-2021. It was very useful to know about the renewable energy sources such as biomass, geothermal resources, sunlight, water, and wind, are natural resources that can be converted into these types of clean, usable energy: Bio-energy, Geothermal energy and Hydropower. The resource persons clearly explained the advantages of renewable energy and also give constructive explanation about the affect of economy, environment, national security, and human health due to this Renewable Energy Technologies.

*D. S. Jenaris*  
5/11/21

HoD

**PRINCIPAL**  
**Dr. M.S. RAVIKUMAR**  
Principal  
PSN ENGINEERING COLLEGE  
Melathedyoor, Palayamkottai  
Tirunelveli - 627 152



# PSN ENGINEERING COLLEGE

Melathediyoor, Palayamkottai Taluk, Tirunelveli District, Pin - 627 152.

(Approved by AICTE and Affiliated to Anna University)

An ISO 9001 : 2015 Certified Institution

Website : [www.psnec.ac.in](http://www.psnec.ac.in) Email : [principal@psnec.ac.in](mailto:principal@psnec.ac.in)

☎ 04634-279078, 279079 Fax : 04634-279078



## DEPARTMENT OF INFORMATION TECHNOLOGY

### FDP REPORT

Topic: Advances of Crptography using Quantum Computing

Conducted By: AICTE TRAINING AND LEARNING ACADEMY

Attended Staff:Ms.M.Chandralekha, Ms.S.Divya, Mrs.K.Ragaventhari& Ms.G.Arimarieswari

The faculty development program on the topic of Advances of Cryptography using Quantum Computing from 22-11-2021 to 26-11-2021.It Provides secure communication. Instead of difficult-to-crack numbers, quantum cryptography is based on the laws of physics, which is a more sophisticated and secure method of encryption. Detects eavesdropping.As a revolutionary technology, Quantum Cryptography may ensure exceptional communication security. Its unique principles can facilitate message transmission that is secure against tampering. Yet, in the early stages of development, quantum cryptography has great potential for the future of secure communication.

Signature of the Faculty

HOD

PRINCIPAL

**Dr. M.S. RAVIKUMAR**  
Principal  
PSN ENGINEERING COLLEGE  
Melathediyoor, Palayamkottai  
Tirunelveli District - 627 152



# PSN ENGINEERING COLLEGE

Melathediyoor, Palayamkottai Taluk, Tirunelveli District, Pin - 627 152.

(Approved by AICTE and Affiliated to Anna University)

An ISO 9001 : 2015 Certified Institution

Website : [www.psnec.ac.in](http://www.psnec.ac.in) Email : [principal@psnec.ac.in](mailto:principal@psnec.ac.in)

☎ 04634-279078, 279079 Fax : 04634-279078



## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### FDP REPORT

Topic: Wearable robotics: Design ,sensing and support

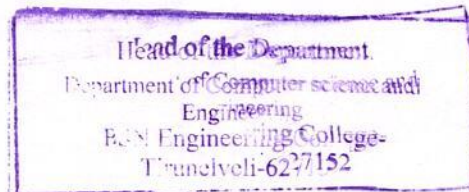
Conducted By: Indian Institute of Information Technology, Chennai

Attended Staff: K.Senthilkumar, M.Anitha, P.Vajila, A.Tharik Nazeem

The faculty development program on the topic of Wearable robotics: Design ,sensing and support conducted by Indian Institute of Information Technology, Chennai from 24.12.2021 to 28.12.2021. It was very useful to know about the provide assistance to impaired limbs, augment human ability, or help with the rehabilitation of neuromuscular impairments. For individuals with disabilities, these technologies are especially important as they enable increased functionality and mobility. Such as Convenience of Real-time Monitoring, Improved Fitness and Health, Enhanced Safety and Security, Improved Communication, Enhanced Fashion and Style, Privacy and Security Concerns ,Dependence on Technology

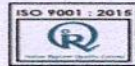
*M. Anitha*  
Signature of the Faculty

*[Signature]*  
HOD



*[Signature]*  
Principal  
Dr. M.S. RAVIKUMAR  
Principal  
PSN ENGINEERING COLLEGE  
Melathediyoor, Palayamkottai  
Tirunelveli - 627 152





## DEPARTMENT OF SCIENCE AND HUMANITIES

### FDP REPORT

Topic: Chemistry-The catalyst for change

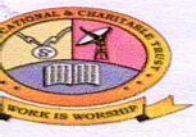
Conducted By: RAMANUJAN COLLEGE, COMBIATORE

.Attended Staff: Dr.S.Nagarajan , Ms.T.Bharathi , Mr.G.Jebastephen

The faculty development program on the topic of Chemistry-The catalyst for change conducted by RAMANUJAN COLLEGE from 14-07-2021 to 28-07-2021 .The purpose of this faculty development program is to provide information and knowledge on recent catalyst and scopes in diverse fields of chemistry research. The FDP was organised to acquaint the participants with the latest trends and breakthroughs in the field and its practical, theoretical and application- based teaching and learning techniques. As a discipline of research, chemical science is the central science and is required for practically all scientific research. It is concerned with the understanding and practice of changing one substance into another. Chemists enjoy discovering both naturally occurring and manmade chemical substances with the goal of improving human life.

**HOD,**  
Dept. of Science and Humanities  
PSN Engineering College  
Tirunelveli - 627 152

**PRINCIPAL**  
**Dr. M.S. RAVIKUMAR**  
Principal  
PSN ENGINEERING COLLEGE  
Melathediyoor, Palayamkottai  
Tirunelveli - 627 152



# PSN ENGINEERING COLLEGE

Melathediyoar, Palayamkottai Taluk, Tirunelveli District, Pin - 627 152.

(Approved by AICTE and Affiliated to Anna University)

An ISO 9001 : 2015 Certified Institution

Website : [www.psnec.ac.in](http://www.psnec.ac.in) Email : [principal@psnec.ac.in](mailto:principal@psnec.ac.in)

☎ 04634-279078, 279079 Fax : 04634-279078



## DEPARTMENT OF SCIENCE & HUMANITIES

### FDP REPORT

Topic: SCIENCE PEDAGOGY

Conducted By: DWARAKA DOSS GOVERDHAN DOS VAISHNAV COLLEGE

Attended Staff: Ms. R. Rathi, Ms. M. Murugashobana Rani

The faculty development program on the topic of Science Pedagogy conducted by Dwaraka Doss Goverdhan Dos Vaishnav College on 09.08.2021 to 16.08.2021. It was very useful to know about Pedagogy is an integrated humanistic and social science which investigates regularities of combined and unique, focused on the content of learning inter- actions, communication and mutual relations that occur in this process and constitute a specific research object. This is an innovative pedagogy approach in education where students are present in the process of gaining and understanding knowledge. When students are involved in the academic curriculum creation process, they can receive information faster.

HOD

The HOD

Dept. of Science and Humanities  
PSN Engineering College  
Tirunelveli - 627 152

PRINCIPAL

Dr. M.S. RAVIKUMAR  
Principal

PSN ENGINEERING COLLEGE  
Melathediyoar, Palayamkottai  
Tirunelveli - 627 152



## DEPARTMENT OF SCIENCE & HUMANITIES

### FDP REPORT

Topic: RESEARCH QUALITY, TEACHING LEARNING & EVALUTION

Conducted By: Government Motilal Vigyan Maha vidyalaya, Bhopal

Attended Staff: Mr. S. Sunderjohn Thinakaran, Mr. R. Paulkumar

The faculty development program on the topic of Research Quality, Teaching Learning & Evaluation conducted by Government Motilal Vigyan Maha vidyalaya, Bhopal on 10.03.2021 to 16.03.2021. It was very useful to know about Some qualities of a good teacher include skills in communication, listening, collaboration, adaptability, empathy and patience. Other characteristics of effective teaching include an engaging classroom presence, value in real-world learning, exchange of best practices and a lifelong love of learning. Quality in teaching and learning can be seen in the way the knowledge, skills and ability of the teacher are employed to develop meaningful pedagogic experiences for students. Such experiences are evident when teaching impacts learning and learning influences teaching.

**HOD**

**The HOD**  
**Dept. of Science and Humanities**  
**PSN Engineering College**  
**Tirunelveli - 627 152**

**PRINCIPAL**

**Dr. M.S. RAVIKUMAR**  
**Principal**  
**PSN ENGINEERING COLLEGE**  
**Melathediyoor, Palayamkottai**  
**Tirunelveli - 627 152**



## DEPARTMENT OF SCIENCE & HUMANITIES

### FDP REPORT

Topic: MATHEMATICS ON VARIOUS PLATFORM

Conducted By: Bharat Institute of Engineering & Technology, New Delhi

Attended Staff: Ms. S. Sahaya Anisha, Ms. S. Jilu

The faculty development program on the topic of Mathematics on Various platform conducted by Bharat Institute of Engineering & Technology, New Delhi from 17.06.2021 to 22.06.2021. It was very useful to know about focuses on extending the mathematical skills and knowledge of students in both familiar and new contexts. Some of these contexts include financial modelling, matrices, network analysis, route and project planning, decision making, and discrete growth and decay. In business, mathematical expertise can be used to calculate financial ratios and statements, to analyse data, and to make predict future financial trends.

*S. Sahaya Anisha*

HOD

The HOD  
Dept. of Science and Humanities  
PSN Engineering College  
Tirunelveli - 627 152

*M.S. Ravikumar*  
PRINCIPAL

Dr. M.S. RAVIKUMAR  
Principal  
PSN ENGINEERING COLLEGE  
Melathediyoor, Palayamkottai  
Tirunelveli - 627 152