



# 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

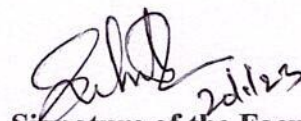
### FDP REPORT


**Topic:** Electric Vehicle Technology

**Conducted By:** Srinivas Institute of Technology

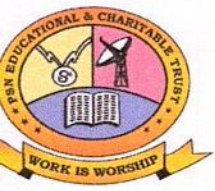
**Attended Staff:** Dr.G.Satish Pandian,S.Parvathi,A.Balamurugan

The faculty development program on the topic of Electric Vehicle Technology conducted from 09-01-2023 to 13-01-2023. The main objective of the FDP was to introduce advanced academic research as well as industry practices in the field of electric vehicle development to the faculty. Around 60 participants were attended the FDP. The sessions were handled by industrial experts as well as academic experts from various IITs. The resource persons explained above the Electric Vehicle Technology is enhancing the world to focus on many areas like energy options, engine design, intelligent transportation, autonomous vehicles, vehicle electrification, hybridization, improved battery management system, and new battery chemistries. This FDP mainly targets to address the uncertainties and challenges in EV's and associated technologies through knowledge and information exchange sessions.

  
Signature of the Faculty

  
HoD

  
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Dr. M.S. RAVIKUMAR  
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## DEPARTMENT OF MECHANICAL AND AUTOMATION ENGINEERING

### FDP REPORT

**Topic:** Innovation on 3D Printing Technologies and its Applications

**Conducted By:** PSN College of Engineering and Technology

**Attended Staff:** Mr.A.Ajai Sterlin,N.Venkatachalapathy,K.Vimal,Mr.Nielston,Mr.G.Vergin  
Vino

The faculty development program on the topic of Innovation on 3D Printing Technologies and its Applications conducted from 10-07-2023 to 14-07-2023. The main objective of the FDP was to introduce advanced academic research as well as industry practices in the field of 3D Printing and development to the faculty and PG students. 3D printing, also known as additive manufacturing, has come a long way since it was first developed in the 1980s. While 3D printing originated as a tool for rapid prototyping, it has now evolved to cover a number of different technologies. The evolution of 3D Printing has seen a rapid growth in the number of companies adopting the technology. The applications and use cases vary across industries, but broadly include tooling aids, visual and functional prototypes and even end-use parts. As the potential applications for 3D printing increase, companies are beginning to find ways to create new business models and opportunities with the technology. In this FDP, the resource persons explored the current state of 3D printing across a range of industries, including how the technology is being used across sectors. Using real-life examples, they gave an in-depth understanding of how 3D printing is being used to drive innovation and business growth.

G. Vimal 19/7/23

Signature of the Faculty

S. P. A. 19/7/23

HoD

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## DEPARTMENT OF MANAGEMNT STUDIES

### FDP REPORT

**TOPIC:** DIGITAL MARKETING

**CONDUCTED BY:** St.Xaviers Catholic College of Engineering,

**ATTENDED STAFF:** Ms.V.Gnana Princy

The faculty development program on the topic of **DIGITAL MARKETING** conducted by St.Xaviers Catholic College of Engineering from 13 -02 -2023 to 17-02-2023. It was very useful to know about the marketing at digitalized manner. This FDP helps the staff to encourage the students to create the innovative ideas about the digitalized marketing.

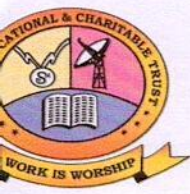
Signature of the faculty

*[Handwritten Signature]*  
18/02/2023

*[Handwritten Signature]*  
HOD  
18/02/2023

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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### REPORT OF FDP ATTENDED ON 17.03.2023

**TOPIC:** INTRODUCTION TO RPA AND AUTOMATION

**CONDUCTED BY:** DIPLOMA OF COMPLETION

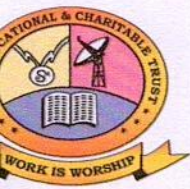
**STAFF PARTICIPATED :** MS.P.UMADEVI

The facility development program on the topic of Introduction to RPA and Automation conducted by Diploma of Completion 17-03-2023. It was very useful to understand the concept of introduction to rpa automation. The Robotic process automation (RPA). It is a software technology that makes easy to build, deploy, and manage software robots that emulate humans actions interacting with digital systems and software. Just like people, software robots can do things like understand what's on a screen, complete the right keystrokes, navigate systems, identify and extract data, and perform a wide range of defined actions. But software robots can do it faster and more consistently than people, without the need to get up and stretch or take a coffee break. This FDP was very useful in all aspect.

*P. Uma*  
24/3/23  
**Signature of the Faculty**

*P. Uma*  
24/3/23  
**HOD**

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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

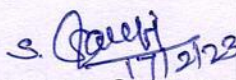
### REPORT OF FDP ATTENDED ON 11.02.2023 to 12-02-2023

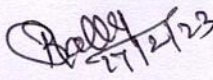
**TOPIC:** BLOCK CHAIN

**CONDUCTED BY:** ST.XAVIERS CATHOLIC COLLEGE OF ENGINEERING

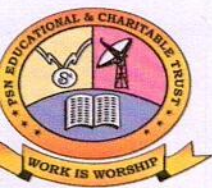
**STAFF PARTICIPATED :** Mr.S.SARATHI

The facility development program on the topic of Block Chain conducted by St.Xaviers Catholic College of Engineering from 11.02.2023 to 12.02.2023. It was very useful to understand the concept of block chain. The block chain is a decentralized, distributed and public digital ledger that is used to record transactions across many computers so that the record cannot be altered retroactively without the alteration of all subsequent blocks and the consensus of the network. This FDP was very useful in all aspect.

  
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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### REPORT OF FDP ATTENDED ON 23.01.2023 to 24-01-2023

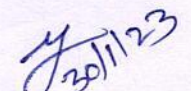
**TOPIC:** SOFT SKILLS

**CONDUCTED BY:** SCMS SCHOOL OF ENGINEERING AND TECHNOLOGY

**STAFF PARTICIPATED :** Mr.M. BALASUBAMANIAN & Mr. BABU ,

Mr. GOVINDARAJ

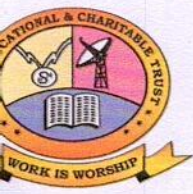
The facility development program on the topic of Soft Skills conducted by SCMS School of Engineering and Technology from 23-01-2023 to 24-01-2023. It was very useful to understand the concept of soft skills. The Soft skills include interpersonal (people) skills, communication skills, listening skills, time management, problem-solving, leadership, and empathy, among others. They are among the top skills employers seek in the candidates they hire because soft skills are important for just about every job. This FDP was very useful in all aspect.

  
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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### REPORT OF FDP ATTENDED ON 23.01.2023 to 24-01-2023

**TOPIC:** INNOVATIVE TEACHING AND ONLINE RESOURCES

**CONDUCTED BY:** IOT ACADEMY

**STAFF PARTICIPATED :** Mr.S.PITCHAI AH

The faculty development program on the topic of Innovative Teaching and Online Resources conducted by IOT Academy from 23-01-2023 to 24-01-2023. It was very useful to know about the drive to innovate in the classroom should always consider how such innovations can improve student outcomes. The goal of teaching is to promote learning. The strategies we deploy are to promote learning. Trying out different strategies in the classroom is an iterative process to help us promote learning more effectively and successfully. This FDP was very useful in all aspect.

**Signature of the Faculty**

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## DEPARTMENT OF AUTOMOBILE ENGINEERING

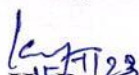
### FDP REPORT

**Topic:** Innovation on 3D Printing Technologies and its Applications

**Conducted By:** PSN College of Engineering And Technology

**Attended Staff:** Mr. Dabio Nirmal Doss Rajamani, Mr. Aniver Chanth, Mr. Gladwin Immanuel Raghavan, Mr. Siddharth R and Mr. Kingsly S.

The faculty development program on the topic of Innovation on 3D Printing Technologies and its Applications conducted from 10-07-2023 to 14-07-2023. The main objective of the FDP was to introduce advanced academic research as well as industry practices in the field of 3D Printing and development to the faculty and PG students. 3D printing, also known as additive manufacturing, has come a long way since it was first developed in the 1980s. While 3D printing originated as a tool for rapid prototyping, it has now evolved to cover a number of different technologies. The evolution of 3D printing has seen a rapid growth in the number of companies adopting the technology. The applications and use cases vary across industries, but broadly include tooling aids, visual and functional prototypes and even end-use parts. As the potential applications for 3D printing increase, companies are beginning to find ways to create new business models and opportunities with the technology. In this FDP, the resource persons explored the current state of 3D printing across a range of industries, including how the technology is being used across sectors. Using real-life examples, they give an in-depth understanding of how 3D printing is being used to drive innovation and business growth.

  
15/7/23  
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## DEPARTMENT OF AUTOMOBILE ENGINEERING

### FDP REPORT

**Topic:** Electric Vehicle Technology

**Conducted By:** Srinivas Institute of Technology

**Attended Staff:** Dr.N.Prabhu Director /AUTO

The faculty development program on the topic of Electric Vehicle Technology conducted from 09-01-2023 to 13-01-2023. The main objective of the FDP was to introduce advanced academic research as well as industry practices in the field of electric vehicle development to the faculty and PhD/PG students. Around 60 participants were attended the FDP. The sessions were handled by industrial experts as well academic experts from various IITs. The resource persons explain about the Electric Vehicle Technology is enhancing the world to focus on many areas like energy options, engine design, intelligent transportation, autonomous vehicles, vehicle electrification, hybridization, improved battery management systems, and new battery chemistries. This FDP mainly targets to address the uncertainties and challenges in EV's and associated technologies through knowledge and information exchange sessions.

  
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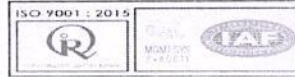
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## DEPARTMENT OF MECHANICAL ENGINEERING

### FDP REPORT

**Topic:**Innovation on 3D Printing Technologies and its Applications

**Conducted By:**PSN College of Engineering And Technology

**Attended Staff:**Mr. A.Murugaperumal, Mr. s.Manivel, Mr.E.Suresh, Mr.M.Ganesh, Mr.C.Arun, Mr.M.Damy

The faculty development program on the topic of Innovation on 3D Printing Technologies and its Applications conducted from 10-07-2023 to 14-07-2023. The main objective of the FDP was to introduce advanced academic research as well as industry practices in the field of 3D Printing and development to the faculty and PG students. 3D printing, also known as additive manufacturing, has come a long way since it was first developed in the 1980s. While 3D printing originated as a tool for rapid prototyping, it has now evolved to cover a number of different technologies. The evolution of 3D printing has seen a rapid growth in the number of companies adopting the technology. The applications and use cases vary across industries, but broadly include tooling aids, visual and functional prototypes and even end-use parts. As the potential applications for 3D printing increase, companies are beginning to find ways to create new business models and opportunities with the technology. In this FDP, the resource persons explored the current state of 3D printing across a range of industries, including how the technology is being used across sectors. Using real-life examples, they give an in-depth understanding of how 3D printing is being used to drive innovation and business growth.

*J. S. Jay*  
15/7/23  
HoD

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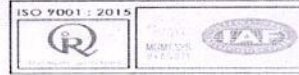
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## DEPARTMENT OF MECHANICAL ENGINEERING

### FDP REPORT

**Topic:**Electric Vehicle Technology

**Conducted By:**Srinivas Institute of Technology

**Attended Staff:**Mr.S.Asaikkani, Dr.T.Livingston, Mr.A.Thivagar,

The faculty development program on the topic of Electric Vehicle Technology conducted from 09-01-2023 to 13-01-2023. The main objective of the FDP was to introduce advanced academic research as well as industry practices in the field of electric vehicle development to the faculty and PhD/PG students. Around 60 participants were attended the FDP. The sessions were handled by industrial experts as well as academic experts from various IITs. The resource persons explain about the Electric Vehicle Technology is enhancing the world to focus on many areas like energy options, engine design, intelligent transportation, autonomous vehicles, vehicle electrification, hybridization, improved battery management systems, and new battery chemistries. This FDP mainly targets to address the uncertainties and challenges in EV's and associated technologies through knowledge and information exchange sessions.

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HoD 09/1/23

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## DEPARTMENT OF MECHANICAL ENGINEERING

### FDP REPORT

**Topic:**Product Design Engineering Modeling

**Conducted By:**Autodesk Authorized Training Centre

**Attended Staff:**Mr.A.Thivagar

The faculty development program on the topic of Product Design Engineering Modeling conducted from 13.02.2023 To 17.02.2023. The main objective of the FDP was to introduce advanced academic research as well as industry practices in the field of electric vehicle development to the faculty and PhD/PG students. Around 60 participants were attended the FDP. The sessions were handled by industrial experts' as well academic experts from various IITs. The resource persons explain about the Product Design Engineering Modeling is enhancing the world to focus on many areas like energy options, engine design, intelligent transportation, autonomous vehicles, vehicle electrification, hybridization, improved battery management systems, and new battery chemistries. This FDP mainly targets to address the uncertainties and challenges in EV's and associated technologies through knowledge and information exchange sessions.

*Thy*  
18/2/23,

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## DEPARTMENT OF INFORMATION TECHNOLOGY

### FDP REPORT

Topic: Industrial Metaverse XR

Conducted By: JP College of Engineering

Attended Staff: Ms. M.Muthulakshmi

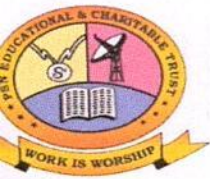
The faculty development program on the topic of conducted by Industrial Metaverse XR from 13-02-2023 to 17-02-2023 It will make innovation easier, progress faster, time to market shorter, reduce waste and help us to use fewer natural resources. Using virtual and augmented realities to blend the physical and the digital, the metaverse empowers industries to cut costs, act more sustainably, improve the work experience and accelerate operations by moving expensive, time-consuming activities into fully virtual environments.

Signature of the Faculty

HOD

PRINCIPAL

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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING


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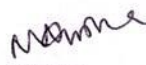
Topic: Data Analytics

Conducted By: Sree Buddha College of Engineering, Kerala

Attended Staff: K. Vasukidevi, P. Vajila, A. Tharik Nazeem, D. Jelin

The faculty development program on the topic of Data Analytics conducted by Sree Buddha College of Engineering, Kerala from 30.01.2023 to 03.02.2023. It was very useful to know about the securing interviews and landing a Data Analyst position. Such as Data cleaning and preparation, Data analysis and exploration, Statistical knowledge, Creating data visualizations, Creating dashboards and reports, Writing and communication, Domain knowledge, Problem solving. The resource persons clearly explained the advantages of simply put, businesses can increase their market share, spur revenue growth, and fortify their brand.

  
Signature of the Faculty

  
HOD

  
Principal

Head of the Department  
Department of Computer science and  
Engineering  
PSN Engineering College-  
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## Report on Faculty Development Programme

Mrs. L. Lizzy Arputha Dorathy

I participated faculty development programme held at Autodesk Authorized Training Center from 13<sup>th</sup> Feb 2023 to 17<sup>th</sup> Feb 2023.

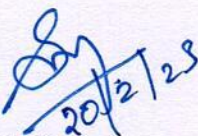
During this period we participated in Naan Mudhalvan Course conducted by Autodesk Authorized Training Center tie up with Government of Tamilnadu

The TN Naan Mudhalvan scheme aims to recognize the potential of the state's youth and provide training to help them advance their career. As part of the scheme , students will also have access to course like civil engineering specialization course like high rise building design, Steel design and Sustainable Building Design the above mentioned course helps to build students knowledge

Every day during classes the instructor teach various learning perspective methods related to sustainable building design and also helps to improve our knowledge about Revit software the revit software is helps to design 3D models , shapes and structures, etc. 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 Autocad-Revit software
2. The Autocad-Revit software helps to improve knowledge about design structure, shapes and 3D models.
3. It helps to learn the benefits of sustainable building and also helps to design the sustainable buildings.

  
20/2/23

HOD

Head of the Department  
Department of Civil Engineering  
PSN Engineering College  
Tirunelveli - 627152

  
PRINCIPAL

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



## DEPARTMENT OF SCIENCE & HUMANITIES

### FDP REPORT

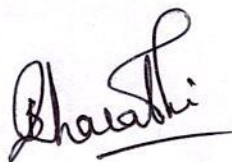
Topic: NEW TRENDS IN TEACHING ENGLISH FOR ENGINEERING STUDENTS

Conducted By: Sankrithi School of Business, New Delhi

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


The faculty development program on the topic of New Trends in Teaching English for Engineering Students conducted by Sankrithi School of Business, New Delhi on 23.01.2023 to 27.01.2023. It was very useful to know about Methods and approaches to teaching English have developed rapidly, especially in the previous four decades. It is important that language learners and training managers, as well as teachers, understand the various teaching methods and techniques so learners are able to navigate the market, make educated choices, and boost their enjoyment of learning a language. Each teaching method is based on a particular vision of understanding the language or of learning processes, often using specific techniques and materials used in a set sequence. Language teachers adopted and followed some or all of the different methodologies listed below to teach the language. The main teaching methodologies are listed below in the chronological order of their development. Now days, using technology for language learning has become a part of our day-to-day life. It plays a vital role in the process of teaching and learning. It can be used to learn a foreign language like English .English and computers have seemed to go together. Computers and the programs, which make them useful, were largely the invention of English-speaking countries.

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## DEPARTMENT OF SCIENCE AND HUMANITIES

### FDP REPORT

Topic: Recent advancements in science and Technology

Conducted By: ALLIANCE UNIVERSITY, Bengaluru.

Attended Staff: Mrs.T.Muthulakshmi, Ms.T.Bharathi , Mrs.S.Malarkodi , Mrs. A.Arul Jeniba

The faculty development program on the topic of Recent advancements in science and Technology conducted by from 06 -03 -2023 to 10-03-2023.The program broadly focus on enhancing functional area expertise, improving ones classroom performance in the trending topics of science and technology, and enriching the ability for conducting meaningful research. The FDP centralized on the latest technology in the interface of Engineering, Chemistry, Physics.

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## DEPARTMENT OF INFORMATION TECHNOLOGY

### FDP REPORT

Topic: Data Analytics.

Conducted By: Sree Buddha College OF Engineering.

Attended Staff:Ms.S.Divya, T.Salini, K.Fathima Parveen Banu, Nandhini S

The faculty development program on the topic of Data Analytics from 30-01-2023 to 03-02-2023. It always helps companies to get an insight into how to develop the business. There are several types of tools you will require to interpret the data. Companies use data analytics tools to understand customer behavior and increase productivity. Using data analysis software can help businesses review large sets of data about their customers in real-time. This can help organizations make faster business decisions while providing them with all the information they need.

Signature of the Faculty

HOD

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## DEPARTMENT OF MECHANICAL ENGINEERING

### FDP REPORT

**Topic:**Electric Vehicle Design for Mechanical Engineers

**Conducted By:**Skill LYNC

**Attended Staff:**Mr.A.Mahesh raja

The faculty development program on the topic of Electric Vehicle Design conducted from 01.03.2023. The main objective of the FDP was to introduce advanced academic research as well as industry practices in the field of electric vehicle development to the faculty and PhD/PG students. Around 60 participants were attended the FDP. The sessions were handled by industrial experts as well as academic experts from various IITs. The resource persons explain about the Electric Vehicle Design is enhancing the world to focus on many areas like energy options, engine design, intelligent transportation, autonomous vehicles, vehicle electrification, hybridization, improved battery management systems, and new battery chemistries. This FDP mainly targets to address the uncertainties and challenges in EV's and associated technologies through knowledge and information exchange sessions.

*D.S. Jey*  
02/13/23  
HoD

*[Signature]*  
**PRINCIPAL**  
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## FDP REPORT

**Topic:** Role of Non-Teaching Staff In College Administration and Naac Accreditation

**Conducted By:** PSN Engineering College

**Attended Staff:** B.komalavalli, P.Arumugam, Ravisankar, Jeyasudha

The faculty development programme on the topic of Role of Non-Teaching Staff In College Administration and Naac Accreditation was conducted from 14-10-2019 to 19-10-2019. The main objective of the FDP was to introduce advanced academic research as well as industry practices in the field of Role of Non-Teaching Staff In College Administration and Naac Accreditation to the faculty.

*Komalavalli*

Signature of the Faculty

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## FDP REPORT

**Topic:** Enhancing Office Productivity: Microsoft Office and G-Suite Training

**Conducted By:** PSN Engineering College

**Attended Staff:** N.DAVID RAJ, A.JOSEPH RAJ, T.SHALINI, R.LALEETHA,  
T.PARAMUTHURAJ

The faculty development programme on the topic of Enhancing Office Productivity: Microsoft Office and G-Suite Training was conducted from 03-02-2020 to 08-02-2020. The main objective of the FDP was to introduce academic research as well as industry practices in the field of Enhancing Office Productivity: Microsoft Office and G-Suite Training to the faculty. Microsoft Office is a suite of applications designed to help with productivity and completing common tasks on a computer. You can create and edit documents containing text and images, work with data in spreadsheets and databases, and create presentations and posters.

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Tel : 04634-279078, 279079 Fax : 04634-279078



Topic: Management Skill

Conducted By: PSN Engineering College

Attended Staff: Mr. Aldrin Walker Jebakumar, D. Mihavel Gladson, P. Suresh, S. Ginnuraj,

T. Shalini

The faculty development program on the topic of Management Skill conducted by from PSN Engineering College 09.08.2021 to 14.08.2021. It was very useful to know about the abilities and traits needed to perform certain duties, usually as it pertains to overseeing a team, such as solving problems, communicating well, and motivating employees. The resource persons clearly explained the advantages of an integrated and centralized data model for all talent management activities. Recruitment strategies that align with the objectives of the business. Improved employee onboarding, retention, and development.

Signature of the Faculty

Principal

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## FDP REPORT

Topic: Communication Skill

Conducted By: PSN Engineering College

Attended Staff: Mr. Aldrin Walker Jebakumar, T. Paramuthuraj, V. Anand, B. Komalavalli

The faculty development program on the topic of Communication Skill conducted by from PSN Engineering College 11.07.2018 to 16.07.2018. It was very useful to know about the ability for an individual to accurately convey a message to another person or group of people. There are verbal and non-verbal communication skills. The resource persons clearly explained the advantages of effective communication involves not only sending information but also receiving it. By listening to employees' concerns, allowing them to have input on their work and their workplace, and giving consideration to their suggestions, managers can make everyone in the organization feel like they are valued contributors.

Signature of the Faculty

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Topic: Orientation Program on Computer Proficiency in MS Office Excel

Conducted By: PSN Engineering College

Attended Staff: R.Rooban Singh, P.Stalin, B.Komalavalli, R.Laleetha, S.Ananthaselvi,

T.Paramuthuraj, V.anand, S.Nivetha, P.Subha

The faculty development program on the topic of Orientation Program on Computer Proficiency in MS Office Excel conducted by from PSN Engineering College 17.09.2022. It was very useful to know about the Data entry, Data management, Accounting, Financial analysis, Charting and graphing, Programming, Time management, Task management. The resource persons clearly explained the advantages of the tools for data analysis, Easy to data visualizations with charts, you can print reports easily, So many free templates to use, can code to automate.

Signature of the Faculty

*Komal*

Principal

**DR. M.S. RAVIKUMAR**

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