

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 Email : principal@psnec.ac.in

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

REPORT OF FDP ATTENDED ON 07.02.2022 to 11-02-2022

TOPIC: INNOVATION AND EXPERIMENTAL LEARNING EFFECTIVENESS

CONDUCTED BY: ARAVALI INSTITUTE OF TECHNICAL STUDIES

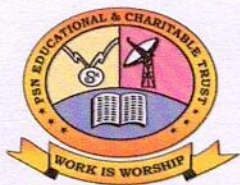
STAFF PARTICIPATED: Mrs.V.AMARASELVI & Ms.P.UMADEVI

The facility development program on the topic of Innovation and Experimental Learning Effectiveness Conducted by Aravali Institute of Technical Studies from 07.02.2022 to 11.02.2022 It was very useful to know about the Innovation is making something better by doing it in a new or different way. Often people confuse this with creativity, which is creating something entirely from scratch. An artist is creative when molding a clay vase; a professor is innovative when he or she identifies a new way to bring math concepts to life for students. This FDP was very useful in all aspect.

P. Uma
18/2/22
Signature of the Faculty

P. Uma
18/2/22
HOD

PRINCIPAL
Dr. M.S. RAVIKUMAR
Principal
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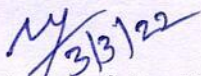
REPORT OF FDP ATTENDED ON 28.02.2022

TOPIC: ANALYSIS OF UNION BUDGET

CONDUCTED BY: UNIVERSAL GROUP OF INSTITUTIONS

STAFF PARTICIPATED : MR.M. BALSUBRAMANIAN

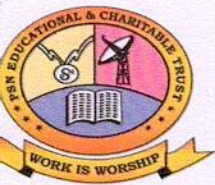
The facility development program on the topic of Analysis of Union Budget conducted by Universal Group of Institutions from 28-02-2022. It was very useful to understand the concept of analysis of union budget. The Analysis of Union Budget' is a publication which Centre for Budget and Governance Accountability (CBGA) brings out every year following the presentation of the Union Budget in Parliament. This FDP was very useful in all aspect.


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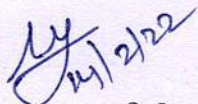
REPORT OF FDP ATTENDED ON 08.02.2022 to 12-02-2022

TOPIC: TRENDS IN TECHNOLOGICAL INTELLECT

CONDUCTED BY: BON SECOURS COLLEGE FOR WOMEN

STAFF PARTICIPATED: Mr.M.BALASUBRAMANIAN, Dr. K. PERIYASAMY,
Mr. J. VINCENT RATNA SAHAYA JOE.

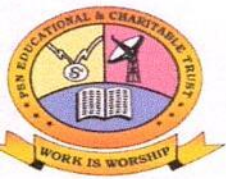
The facility development program on the topic of Trends in technological intellect conducted by bon secours College for Women from 08-02-2022 to 12-02-2022. It was very useful to understand the concept of trends in technological intellect . The new technology trends that are currently gaining attention and expected to have a significant impact on various industries are: Artificial intelligence and Machine Learning. Internet of Things. Virtual and augmented reality. This FDP was very useful in all aspect.


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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

FDP REPORT

Topic: A Journey from Sensor to server

Conducted By: AICTE Training and Learning Academy, New Delhi

Attended Staff: M.Anitha, A.TharikNazeem

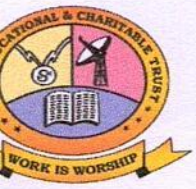
The faculty development program on the topic of A Journey from Sensor to server conducted by AICTE Training and Learning Academy, New Delhi from 04.01.2022 to 08.01.2022. It was very useful to know about the sensor includes a processor that is sophisticated enough to configure the data to be sent to the cloud. Such as Queried sampling to immediately read all enabled digital and analog input pins and automatic sampling to transmit the sensor data periodically or whenever a digital pin changes Programming Languages. The resource persons clearly explained the advantages of smartphones, robotics, Blu-ray players, home security systems, medical devices and a wide range of other systems.

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Department of Computer science
Engineering
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DEPARTMENT OF MECHANICAL AND AUTOMATION ENGINEERING

FDP REPORT

Topic: Thermal Engineering-I

Conducted By: Francis Xavier Engineering College

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

The faculty development program on the topic of thermal engineering-I conducted from 3- 01-2022 to 08-01-2022. 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.

G. V. V. V. 13/1/21

Signature of the Faculty

Thyshi 13/1/21

HoD

PRINCIPAL

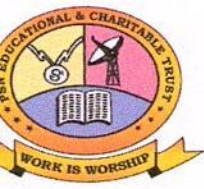
Dr. M.S. RAVIKUMA

Principal

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DEPARTMENT OF MECHANICAL AND AUTOMATION ENGINEERING


FDP REPORT

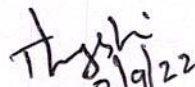
Topic: Advance Research in Friction welding and Engineering Application

Conducted By: Rajalakshmi Engineering College, Chennai.

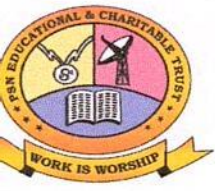
Attended Staff: Mr. G.Vergin Vino, Ms.S.Parvathi

The faculty development program on the topic of Advance Research in Friction welding and Engineering Application conducted from 25-08-2022 to 27-08-2022. The main objectives of the FDP were to introduce advanced academic research as well as industry practices in the field of Advance Research in Friction welding and Engineering Application to the faculty. The trainer taught about the friction welding processes and their machine tool requirements. The process can join metals unweldable by other means and is controllable and repeatable. Friction welding a solid – state process, includes several variations, some well-established and others developed more recently. All require machine tools usually automated, instead of manual processes, and capital investment is higher than conventional welding. With multiple new applications, interest in friction welding is growing. And as application change, its advantages become clearer. The trainer said, the easy oil is gone. Drillers are having to go deeper and hotter, and with the materials they are using conventional welding can't get the job one. Friction welding can".


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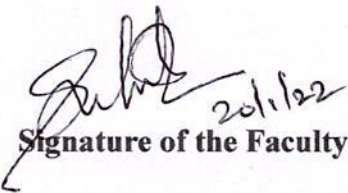
FDP REPORT

Topic: Sustainable Product Design and Manufacturing

Conducted By: Shri Mata Vaishno Devi University

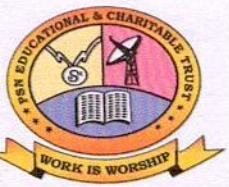
Attended Staff: M.T.Livingston, G.Vergin Vino, N.Venkatachalapathy, S.Parvathi, G.Satish Pandian, F.Innasi Raja, M.Ramkumar

The faculty development program on the topic of Sustainable Product Design and Manufacturing conducted from 10-01-2022 to 14-01-2022. The main objective of the FDP was to introduce advanced academic research as well as industry practices in the field maximizing environmental, social, and economic benefits over a system's lifecycle, while minimizing associated social and environmental costs." This topics reflects the "triple-bottom-line" accounting framework,


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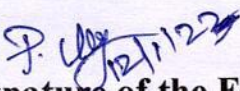
REPORT OF FDP ATTENDED ON 07.01.2022

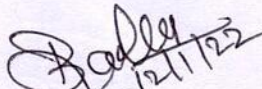
TOPIC: APPLICATION OF ARTIFICIAL INTELLIGENCE IN TIME DOMAINS


CONDUCTED BY: KARPAGAM COLLEGE OF ENGINEERING

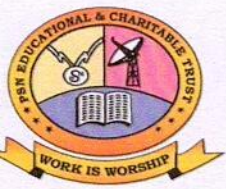
STAFF PARTICIPATED : MS. P. UMADEVI

The faculty development program on the topic of Application of artificial intelligence in time domains conducted by Karpagam College of Engineering from 23-01-2023 to 24-01-2023. It was very useful to understand the concept. Artificial intelligence (AI) has been used in applications to alleviate certain problems throughout industry and academia. AI, like electricity or computers, is a general-purpose technology that has a multitude of applications. It has been used in fields of language translation, image recognition, credit scoring, e-commerce and other domains. This FDP was very useful in all aspect.


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REPORT OF FDP ATTENDED ON 24.01.2022 to 29-01-2022

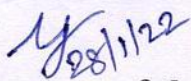
TOPIC: INVESTOR EDUCATION

CONDUCTED BY: HINDUSTAN INSTITUTE OF TECHNOLOGY


STAFF PARTICIPATED : MR.M.BALASUBRAMANIAN, Mrs. T. RAMYA,

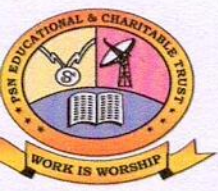
Mrs. R. SHYNI, Ms. A. KIRUBA SANKAEI.

The facility development program on the topic of Investor Education conducted by Hindustan Institute of Technology from 24-01-2022 to 29-01-2022. It was very useful to understand the concept of investor education. The Investor education focuses on issues relevant to the education and information needs of individuals who participate, or are considering participating, in the financial markets. In addition, investor education can also help investors better assess the relevance and suitability of investment advice. This FDP was very useful in all aspect.


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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING


REPORT OF FDP ATTENDED ON 31.01.2022 to 04.02.2022

TOPIC: EMERGING AND TECHNIQUES IN MODERN POWER SYSTEM

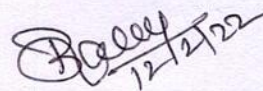
CONDUCTED BY: SS COLLEGE OF ENGINEERING

STAFF PARTICIPATED : Mr.S.PITCHAIAH

The facility development program on the topic of Emerging and Techniques in modern power system conducted by SS College of Engineering from 31.01.2022 to 04-02-2022 It was very useful to know about renewable energy resources have been connected to the power system to reduce carbon emissions worldwide. Renewable energy resources, such as wind power generation, photovoltaics, energy storage system, electric vehicles, and fuel cell, are intermittent due to the fluctuation of resources. When the large penetration of renewable energy resource into power systems, operational constraints and technical problems occur. Obviously, it is necessary to introduce a new technology to solve these technical issues. This FDP was very useful in all aspect.


12/12/22

Signature of the Faculty


12/12/22

HOD

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DEPARTMENT OF AUTOMOBILE ENGINEERING

FDP REPORT

Topic: Advance Research in Friction Welding and Engineering Application

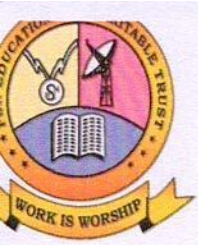
Conducted By: Rajalakshmi Engineering College, Chennai.

Attended Staff: Mr. Gladwin Immanuel Raghavan

The faculty development program on the topic of Advance Research in Friction Welding and Engineering Application conducted from 25-08-2022 to 27-08-2022. The main objective of the FDP was to introduce advanced academic research as well as industry practices in the field of Advance Research in Friction Welding and Engineering Application to the faculty and PG students. The trainer taught about the friction welding processes and their machine tool requirements. The process can join metals unweldable by other means and is controllable and repeatable. Friction welding, a solid-state process, includes several variations, some well-established and others developed more recently. All require machine tools, usually automated, instead of manual processes, and capital investment is higher than conventional welding. With multiple new applications, interest in friction welding is growing. And, as applications change, its advantages become clearer. The trainer said, "The easy oil is gone. Drillers are having to go deeper and hotter, and with the materials they are using, conventional welding can't get the job one. Friction welding can."


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DEPARTMENT OF INFORMATION TECHNOLOGY

FDP REPORT

Topic: Trends In Technological Intellect

Conducted By: Bon Secours College FOR Women

Attended Staff: Mrs. J. Merlin Sam Judith , Ms. S. Divya , Ms. K. Ragaventhari, Mrs. S. Nandhini

The faculty development program on the topic of conducted by Trends In Technological Intellect from 8-02-2022 to 12-02-2022. Modern technology boosts productivity as well as the efficiency of human activities, as it allows us to perform tasks in less time. It helps to the huge amount of information available, better decisions can be made, and human error reduced. AI augments the capabilities of differently abled individuals. AI has mass market potential, it can be deployed across industries.

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DEPARTMENT OF INFORMATION TECHNOLOGY

FDP REPORT


Topic: Education : soft skills

Conducted By: SCMS SCHOOL OF ENGINEERING AND TECHNOLOGY

Attended Staff: Dr. Joe Arun Raja, Mrs. T. Salini, Ms. M. Chanduraleka,

Mrs. Fathima Parveen Banu & Ms. G. Marieswari

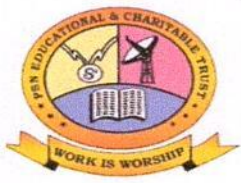
The faculty development program on the topic of Education : soft skills from 21-02-2022 to 25-02-2022. It is an essential part of improving one's ability to work with others and can have a positive influence on furthering your career. If you are a small business owner or self-employed, soft skills can help you find, attract, and retain clients. Soft skills are often referred to as essential skills, interpersonal skills, and noncognitive skills.


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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

FDP REPORT

Topic: Trends in Technological Intellect

Conducted By: Bon Secours College for Women, Thanjavur

Attended Staff: P.Murugan, M.Renukadevi, K.Senthilkumar, T.Saranya

The faculty development program on the topic of Trends in Technological Intellect conducted by Bon Secours College for Women, Thanjavur from 08.02.2022 to 12.02.2022. It was very useful to know about the computing power, big data analytics, extended reality, digital trust, new energy solutions, 5G, and sustainable tech are among the emerging technologies that will give you a competitive advantage. The resource persons clearly explained the new technology trends because of its notable effects on how we live, work and play are only in the early stages.

Signature of the Faculty

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Department of Computer science and
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING


FDP REPORT

Topic: Education :Soft Skills

Conducted By: SCMS School of Engineering and Technology, Kerala

Attended Staff: K.Arulselvi, S.Mohanraj, P.Vajila, K.Arthi, P.Joe Arun Raja

The faculty development program on the topic of Education :Soft Skills conducted by SCMS School of Engineering and Technology, Kerala from 21.02.2022 to 25.02.2022. It was very useful to know about the character skills and personality traits that reflect how you work in general, with others, and by yourself. Soft skills are often referred to as essential skills, interpersonal skills, and non cognitive skills. Such as Soft skills are learned behaviors that enable us to interact with other people positively, respectfully, and productively in our professional and personal lives. The resource persons clearly explained the advantages soft skills improve efficiency, effectiveness, productivity and even contribute toward the promotion of a brand.

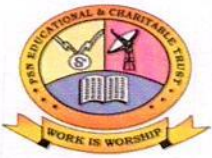

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4th February 2022

REPORT ON FACULTY DEVELOPMENT PROGRAMME

Mrs.S.Mispa Brown

I participated faculty development programme held at B.T.R Construction from 24th Jan 2022 to 29th Jan 2022.

During this period we participated in Emerging Trends in Civil Course conducted by B.T.R Construction.

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

The technological advancements to be depicted in the course called emerging trends was a challenging task and therefore it was decided to prepare a learning material with the involvement of industrial and academic experts for its uniformity in the aspect of delivery, implementation and evaluation.

Engineering sector has completed number of projects with conventional techniques to meet the needs of the society. But, in recent time, it is observed that, the various new innovative techniques are being used worldwide, which our practicing engineers, are also partially using to achieve their goals. The emerging trends in Civil Engineering help to complete the undertaken projects within prescribed schedule, saves the natural resources and make the projects eco-friendly. This course helps to make awareness about soft computing techniques, new materials, advanced machineries, sustainable resource management and advancement in Civil Engineering

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, ETAB, 3D Architect Home, BuildMaster, HEC-RAS, STRAP, Water GEMS, Tekla, ArcGIS, QuikGrid, STAAD.Pro, SAFE, RISA-Connection, Civil 3D, Site 3D, SkyCiv Structural 3D, SAP 2000, MIDAS, LUSAS, BricsCAD, Estimate Master, ProEst, WinEst, Clear Estimate, Procure, Buildertrend, Building Management System (BMS), Plant Design and Management System (PDMS), Building Information Modeling (BIM), Primavera Pro, Microsoft Project (MSP) etc. Apart from the regular courses this course enhanced my knowledge Some courses helped in honing my research skills.

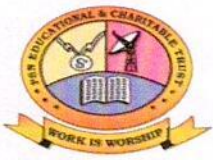
Summary

1. This course helps to learning New advanced software
2. The ETAB software helps to improve knowledge about design of Steel structure, shapes and 3D models.
3. It helps to learn the new technology in civil engineering and also the benefits and also helps to design the sustainable buildings and green building

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Report On Faculty Development Programme

Ms D Vasumathi

A faculty development programme was organized from 19-09-2022 to 22-09-2022 at L&T EDUTECH topic of transportation infrastructure-Airports, Metros and Seaports. It was a four day Faculty Development Programme where various related subtopics were discussed and a very beneficial academic environment was experienced by the participants.

During this period we participated in Naan Mudhalvan Course conducted by L&T EDUTECH 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 transportation infrastructure-Airports, Metros and Seaports the above mentioned course helps to build students knowledge

Every day during classes the instructor teach various learning perspective methods related to transportation infrastructure-Airports, Metros and Seaports and also helps to improve our knowledge about how important transportation and their benefits. Apart from the regular courses this course enhanced my knowledge. Some courses helped in honing my research skills.

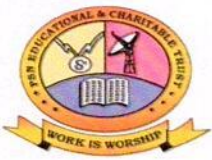
Summary

1. This course helps to learn about Transportation Infrastructure-Airports, Metros and Seaports.
2. It helps to learn the benefits of Transportation Infrastructure-Airports, Metros and Seaports.
3. It also improves knowledge about various types of construction like bridges, tunnels and also various transport buildings.


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4th March 2022

REPORT ON FACULTY DEVELOPMENT PROGRAMME

Mrs.S.Mispa Brown

I participated faculty development programme held at St.Xavier's Catholic engineering college,Nagercoil from 21th Feb 2022 to 25th Feb 2022.

During this period we participated in Research Methodology in IPR Course conducted by St.Xavier's Catholic engineering college,Nagercoil.

The aims of research methodology gives research legitimacy and provides scientifically sound findings. It also provides a detailed plan that helps to keep researchers on track, making the process smooth, effective and manageable. As part of the Programme , students will also have access to civil engineering specialization course like Intellectual Property Rights like patents, trademarks, copyrights, and trade secrets.

Intellectual property rights (IPR) have been defined as ideas, inventions, and creative expressions based on which there is a public willingness to bestow the status of property. IPR provide certain exclusive rights to the inventors or creators of that property, in order to enable them to reap commercial benefits from their creative efforts or reputation. There are several types of intellectual property protection like patent, copyright, trademark, etc. Patent is a recognition for an invention, which satisfies the criteria of global novelty, non-obviousness, and industrial application. IPR is prerequisite for better identification, planning, commercialization, rendering, and thereby protection of invention or creativity. Each industry should evolve its own IPR policies, management style, strategies, and so on depending on its area of specialty.

Summary

1. This course helps to learning the patents, trademarks, copyrights, and trade secrets
2. The SAP 2000 software helps to improve knowledge about design of Steel structure , shapes and 3D models.
3. It helps to learn the new technology in civil engineering and create new patents for all the new project


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DEPARTMENT OF SCIENCE AND HUMANITIES

FDP REPORT

Topic: Education : SOFT SKILLS

Conducted By: SCMS SCHOOL OF ENGINEERING AND TECHNOLOGY

.Attended Staff: Dr.S.Nagarajan , Ms.T.Bharathi , Mr. A. Paul Kumar, Mrs. S. Girija, C. L. Shiny, Ms. R. Rathi, G. Jebastephen, Mrs. T. Muthulakshmi

The faculty development program on the topic of Education : soft skills conducted by SCMS SCHOOL OF ENGINEERING AND TECHNOLOGY from 21-02-2022 to 25-02-2022 .The program broadly focus on enhancing functional area expertise, improving ones classroom performance in the trending topics of soft skills and enriching the ability for conducting meaningful research. The FDP centralized on the latest technology in the interface of Engineering, Chemistry, Physics.

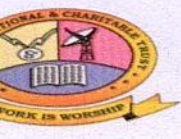
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DEPARTMENT OF SCIENCE AND HUMANITIES

FDP REPORT

Topic: ADVANCED MATERIALS AND PROCESS FOR NEXT GENERATION
NANOELECTRONICS DEVICES

Conducted By: SRM Institute of Science & Technology

Attended Staff: MrsMs. B. Dhivya

The faculty development program on the topic of Recent Advanced Materials And Process for Next Generation Nanoelectronics Devices conducted by from 27 -07 -2022 to 04-08-2022. The program broadly focus on *Nanoelectronics for Next-generation Integrated Circuits* is a useful reference guide for researchers, engineers, and advanced students working on the frontier of the design and modeling of nanoelectronic devices and their integration aspects with future CMOS circuits. This comprehensive volume eloquently presents the design methodologies for spintronics memories, quantum-dot cellular automata, and post-CMOS FETs, including applications in emerging integrated circuit technologies.

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DEPARTMENT OF SCIENCE AND HUMANITIES

FDP REPORT

Topic: Education : RECENT ADVANCES IN CHEMISTRY

Conducted By: SCMS SCHOOL OF ENGINEERING AND TECHNOLOGY

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

The faculty development program on the topic of Recent advances in chemistry conducted by VELLORE INSTITUTE OF TECHNOLOGY from 30-03-2022 to 03-04-2022 .The purpose of this faculty development program is to provide information and knowledge on recent research advances and scopes in diverse fields of chemistry research. Eminent dignitaries from various prestigious organizations such as IITs, TIFR, and renowned industries (national and international) will deliver lectures and demonstrated some practical aspects of multiple commonly used instruments and software. Demonstration of analytical techniques including NMR, Powder XRD, single crystal XRD, molecular modeling, docking studies are some key points participants will be listening on.

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DEPARTMENT OF SCIENCE & HUMANITIES

FDP REPORT

Topic: DATA SCIENCE USING R

Conducted By: Indian Statistical Institute, Bangalore

Attended Staff: Dr. M. Devarajan, Ms. R. Evangeline

The faculty development program on the topic of Data Science using R conducted by Indian Statistical Institute, Bangalore from 27.04.2022 to 28.05.2022. It was very useful to know about open-source programming language that is widely used as a statistical software and data analysis tool. R is an important tool for Data Science. It is highly popular and is the first choice of many statisticians and data scientists. Industries transform raw data into furnished data products. In order to do so, it requires several important tools to churn the raw data. R is one of the programming languages that provide an intensive environment for you to research, process, transform, and visualize information.

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DEPARTMENT OF SCIENCE & HUMANITIES

FDP REPORT

Topic: RESEARCH PUBLICATION AND PATENT IN HUMANITIES AND SCIENCES

Conducted By: SRM Institute of Science & Technology, Chennai.

Attended Staff: Dr. S. Savithri Subramanian, Mr. S. Sunderjohn Thinakaran

The faculty development program on the topic of Research Publication And Patent In Humanities and Sciences conducted by SRM Institute of Science & Technology, Chennai on 22.08.2022 to 30.08.2022. It was very useful to know about the deal of patents is you get exclusivity in exchange of detailed public disclosure of the invention, which become free to be exploited after a certain period of time Research paper on the other hand, aim to disclose a finding regardless of any application. A patent publication is a published utility patent application which is not the same thing as a patent. While a published patent application may eventually issue into a patent, the patent publication consists of only the application itself, namely, the drawings and written specification. Conducting a patent search can save you time and from investing unnecessary money into your invention by learning if it already exists or not. After a thorough patent search, you'll be able to determine if your patent will infringe on the rights of other patents or can invalidate a competing patent.

S. Thinakaran

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