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Criterion No: 3.5.1

Criterion Details: Number of collaborative activities research, faculty exchange, student exchange/internship per year.

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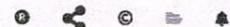
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A graded-channel double gate junction less FET (GC-DG-JL-FET) is investigated in this paper, to improve switching and RF performance of the device. The channel-region of the proposed structure comprises of two non-overlapping materials. The first region is constructed using Silicon-Germanium ($SiGe$) , and the second is composed of Silicon (Si), having channel lengths L_{C1} and L_{C2} , respectively. The region wise uniform doping concentration profiles are used for this study, which are N_{d1} for region one and N_{d2} for region two. The Hafnium Oxide (HfO_2) is used as gate oxide. The operation of the proposed device assessed using drain current (I_{ds}) , trans-conductance (g_m) , trans-conductance generation efficiency (g_m/I_{ds}) , unity gain cutoff frequency (f_t) . Further, for a fixed channel length (20 nm), the lengths of the two non-overlapping regions (i.e. L_{C1} and L_{C2}) of GC-DG-JLFET is optimized using 2D-simulations to analyze the effect of the variation in the RF -performance of the structure. It is noted, an increment in L_{C1} improves electrostatic control of the gate under the OFF state which enhances the RF characteristics of the proposed device. When optimized, the GC-DG-JL-FET for $L_{C1} = 15$ nm offers a peak g_m and f_t of $1580 \mu S/\mu m$ and 470 GHz, respectively for a total channel length of 20 nm. On account of such results, the GC-DG-JL-FET device structure can be an apropos choice for analog/RF applications.

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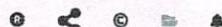
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One of the most essential, critical, and sensitive areas in the biomedical world is premature baby care. To cope with the exterior environment, a preterm newborn requires a similar milieu to that of the womb. The device delivers precise information about the newborn baby and continuously sends information to guardians or doctors who are far away from the youngster. Infants must be housed in an incubator to give a similar environment to that of the womb. A newborn incubator maintains a constant temperature and relative humidity. The temperature of the air must be kept constant. The purpose of this discussion is to plan and implement a control system that will operate and keep track of the dominant parameters. One of the most crucial, delicate, and significant areas in the biomedical profession is preterm baby care. For a preterm baby to adapt to the outside world, their surroundings must be exactly like that of the womb. The system keeps on checking various parameters in real time of an incubator or baby cradle and will inform the admin about all values of the baby cradle globally. Even we can check the position of the baby by using the camera with the device and can get notifications from the incubator using IOT. The system is really helpful now a days because it requires less human use as we can put the baby anywhere so that the parents can do their work easily and monitor all the activities of the baby and took a good care of the infants by getting the notifications on phone. This system is really helpful for the infants who need extra care after their birth.

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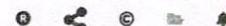
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In present work, a system is proposed which is unique in a way that there is a requirement of visually impaired friendly buildings. In current scenario when a visually impaired person enters a building which is Visually Impaired (VI) friendly, an attendant hands him over braille based navigation chart or electronic guide system. The proposed system automatically detects a visually impaired person makes an announcement, generates an alert message from the basket where VI person enabled braille based guide maps are kept. The system was tested and it is able to detect blind persons with good accuracy.

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Publisher: IEEE

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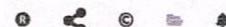
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According to Electric Vehicles volumes, there is a rapid increase in the number of Electric Vehicles globally and it has reached to 6.75 million vehicles on road. By 2030, the Indian markets are expected to see rise of 49 percent. That means there will be sudden increase in the Electric load. The conventional grids are not ready for such dynamically changing load environment. Therefore, an intelligent control and stability assessment of futuristic smart grid required for electric vehicles is presented in the paper along with its mode of operations and stability analysis prediction.

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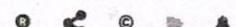
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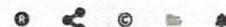
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This paper propounds the RF characteristics of an improved Double Gate Junctionless FET (JL-DG-FET). Here, we have studied a Dual Insulator Double Gate Heterostructure Junctionless FET (DI-DG-HJL-FET) structure which exhibits an enhancement in the subthreshold slope (SS) and I_{on}/I_{off} ratio. The DI-DG-HJL-FET device is studied using two-dimensional simulations to analyze the effect of implementing doping engineering and incorporating a Dual Insulator (DI) structure in the RF parameters. The $Si_{1-x}Ge_x$ layer of DI-DG-HJL-FET has a lower doping density as compared to the strained silicon layer. The doping engineering not only reduces the SS but also increases the I_{on}/I_{off} for 20 nm channel length. The DI - DG - HJL -FET device offers a peak transconductance (g_m) and cut-off frequency (f_t) of $3600 \mu S/\mu m$ and 750 GHz respectively, at a gate length of 20 nm. The results of the DI-DG-HJL-FET structure insinuate it as a promising device for future RF applications.

Published in: 2022 International Conference on Advances in Computing, Communication and Materials (ICACCM)

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In today's fast changing world a sustainable model of development is prescribed. Environment and climate change has taken center stage and instigated governments to think on measures to propel growth without harming the environment. Combustion Engine Vehicles have always been vast emitter of gases like CO, CO₂, NO₂ Etc. Which harm the environment and thus the climate as a whole. Electric Vehicles being non emitters of these poisonous gasses helps save the environment. Electric Vehicle (EV) being a complete system comprises of different subsystems. Be it the motors, batteries, controls and charging each of it is a system in itself. In this paper a brief outlay as to what is an EV, different types, key components, charging schemes and future technologies that can be introduced in the system is discussed.

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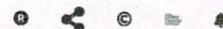
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These days, most models of consumer behaviour are built using machine learning and data mining techniques applied to actual customer information, and every model is tailored... [View more](#)

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Abstract:

These days, most models of consumer behaviour are built using machine learning and data mining techniques applied to actual customer information, and every model is tailored to relate to a specific question at certain duration. Customer behaviour forecasting is a challenging and uncertain endeavour. So, the correct method and strategy are necessary for creating models of client behaviour. It is challenging for a marketer to manipulate a prediction model for their own objectives, so that they can decide the best course of marketing activity for each individual customer or subset of customers. While this formulation may seem complicated, most customer models are far more straightforward. As a result of this requirement, most consumer behaviour models tend to disregard a large number of relevant elements, leading to less-than-reliable forecasts. This study reviews the available literature on the topic of analysing consumer behaviour by means of various machine learning and data mining approaches. Implementation in Python is feasible due to the software's ease of use and the importance of accuracy, error rate, and precision.

Published in: 2022 International Conference on Advances in Computing, Communication and Materials (ICACCM)

Date of Conference: 10-11 November 2022

DOI: 10.1109/ICACCM56405.2022.10009209

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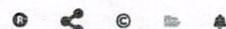
Design a Heat-Transfer Device That is More Effective for Better Solar Energy Resource and Utilization

Publisher: IEEE

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Nikhil saxena ; Videsh kumar ; Aakash Michael ; Bijoy Sutradhar ; Ashish Michael ; Devesh Sharma All Authors

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The heat transfer characteristics of solid versus perforated rectangular shapes connected on a flat surface in a rectangular duct have been investigated in this study. Da... [View more](#)

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Abstract:

The heat transfer characteristics of solid versus perforated rectangular shapes connected on a flat surface in a rectangular duct have been investigated in this study. Data for various flow and geometrical conditions were gathered and used in the performance studies. A system model that accounts for exergetic components in solar power air heating systems is being developed. In the scenario mentioned above, a man-made roughness in the form of various projections on the heat transmission surface causes turbulence and breaks up the laminar replacement layer. It increases the coefficient of heat transmission rate while requiring the least amount of pumping power possible to operate the system efficiently.

Published in: 2022 International Conference on Advances in Computing, Communication and Materials (ICACCM)

Date of Conference: 10-11 November 2022

DOI: 10.1109/ICACCM56405.2022.10009265

Date Added to IEEE Xplore: 12 January 2023

Publisher: IEEE

ISBN Information:

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Synthesis and mechanical characterization of natural fibre polymer matrix laminated hybrid composites reinforced with glass-fibre and flax-fibre synthesized by hand-lay-up techniques

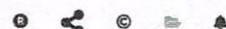
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Abstract:

In the current study, natural fibre polymer laminated hybrid composites were synthesized using flax and glass fibres. The hand-lay-up fabrication route was used to develop the natural fibre polymer matrix composites (NFPMCs). The final structures of hybrid laminated composite have excellent chemical resistance, better mechanical properties, low density, and low cost. Such composites structures are suitable for the construction of automobile and aircraft bodies due to their remarkable weight to strength properties and ratio. Natural fibre composites (NFCs) with polymer matrix are an advanced and fascinating green option for materials used in the construction of automobiles and aircraft. The glass fibre and flax fibre reinforced laminate offer exceptional strength with reduced weight because structural components require light materials. The tensile and compression tests were carried out on a Hounsfield tensometer, and strain gauges were used to measure the extension and contractions. Additionally, impact strength was tested with an impact testing machine using a method created by Izod and Charpy, and flexural strength was calculated using an Instron universal testing machine. Finally, in the case of the Charpy test, the impact strength showed 54kJ/m² along the fibre direction, which is 3.4 times higher than the transverse fibre direction. Similarly, in the case of the Izod test, the impact strength along fibre direction is 17kJ/m², which is three times higher than the transverse fibre direction. Similarly, the tensile and flexural properties of fabricated hybrid composites are remarkably improved.

Metadata

Abstract:

In the current study, natural fibre polymer laminated hybrid composites were synthesized using flax and glass fibres. The hand-lay-up fabrication route was used to develop the natural fibre polymer matrix composites (NFPMCs). The final structures of hybrid laminated composite have excellent chemical resistance, better mechanical properties, low density, and low cost. Such composites structures are suitable for the construction of automobile and aircraft bodies due to their remarkable weight to strength properties and ratio. Natural fibre composites (NFCs) with polymer matrix are an advanced and fascinating green option for materials used in the construction of automobiles and aircraft. The glass fibre and flax fibre reinforced laminate offer exceptional strength with reduced weight because structural components require light materials. The tensile and compression tests were carried out on a Hounsfield tensometer, and strain gauges were used to measure the extension and contractions. Additionally, impact strength was tested with an impact testing machine using a method created by Izod and Charpy, and flexural strength was calculated using an Instron universal testing machine. Finally, in the case of the Charpy test, the impact strength showed 54kJ/m² along the fibre direction, which is 3.4 times higher than the transverse fibre direction. Similarly, in the case of the Izod test, the impact strength along fibre direction is 17kJ/m², which is three times higher than the transverse fibre direction. Similarly, the tensile and flexural properties of fabricated hybrid composites are remarkably improved.

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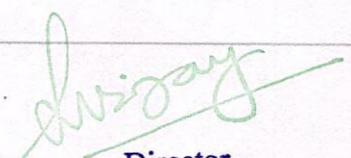
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Annepxure -13

Memory Designing Using Low-Power FETs for Future Technology Nodes

By Young Suh Song (/search?contributorName=Young Suh Song&contributorRole=author&redirectFromPDP=true&context=ubx), Shiromani Balmukund Rahi (/search?contributorName=Shiromani Balmukund Rahi&contributorRole=author&redirectFromPDP=true&context=ubx), Chandan Kumar Pandey (/search?contributorName=Chandan Kumar Pandey&contributorRole=author&redirectFromPDP=true&context=ubx), Shubham Tayal (/search?contributorName=Shubham Tayal&contributorRole=author&redirectFromPDP=true&context=ubx), Yunho Choi (/search?contributorName=Yunho Choi&contributorRole=author&redirectFromPDP=true&context=ubx), Bijo Joseph (/search?contributorName=Bijo Joseph&contributorRole=author&redirectFromPDP=true&context=ubx), Tripuresh Joshi (/search?contributorName=Tripuresh Joshi&contributorRole=author&redirectFromPDP=true&context=ubx), Daryoosh Dideban (/search?contributorName=Daryoosh Dideban&contributorRole=author&redirectFromPDP=true&context=ubx), Suman Lata Tripathi (/search?contributorName=Suman Lata Tripathi&contributorRole=author&redirectFromPDP=true&context=ubx)

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Edition	1st Edition
First Published	2022
Imprint	CRC Press
Pages	26
eBook ISBN	9781003240778

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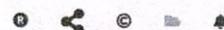
Role of Cloud Computing in Goods and Services Tax(GST) and Future Application

Publisher: IEEE

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Abstract:

Due to the availability of IT infrastructure and a shift in government advisors' perspectives, cloud-based e-governance is currently becoming a reality. To effectively monitor and manage governmental policies, this article offers a practical strategy that combines the capabilities of cloud computing and social media analytics. The foundation of every economic system is taxation. Tax evasion, tax calculation, compliance process, and return filling are some major regulatory challenges. This is a problem that technology can handle perfectly. India's implementation of the goods and services tax is a significant shift in indirect taxation that would not have been achieved without technology. The manual processes used in the pre-GST era resulted in cost compliance issues and input tax credit ambiguities. Important technologies utilized in GST include big data, AI, cloud computing, etc. This study emphasize about role of cloud computing in GST.

Metadata

Abstract:

Due to the availability of IT infrastructure and a shift in government advisors' perspectives, cloud-based e-governance is currently becoming a reality. To effectively monitor and manage governmental policies, this article offers a practical strategy that combines the capabilities of cloud computing and social media analytics. The foundation of every economic system is taxation. Tax evasion, tax calculation, compliance process, and return filling are some major regulatory challenges. This is a problem that technology can handle perfectly. India's implementation of the goods and services tax is a significant shift in indirect taxation that would not have been achieved without technology. The manual processes used in the pre-GST era resulted in cost compliance issues and input tax credit ambiguities. Important technologies utilized in GST include big data, AI, cloud computing, etc. This study emphasize about role of cloud computing in GST.

Published in: 2023 International Conference on Sustainable Computing and Data Communication Systems (ICSCDS)

Date of Conference: 23-25 March 2023

DOI: 10.1109/ICSCDS56580.2023.10104597

Date Added to IEEE Xplore: 25 April 2023

Publisher: IEEE

ISBN Information:

Conference Location: Erode, India

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E-Recruitment using Artificial Intelligence as Preventive Measures

Publisher: IEEE

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Organization is starting to incorporate AI capabilities into their hiring procedures and further enhances the likelihood of applications. These favorable associations bet... [View more](#)

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Abstract:

Organization is starting to incorporate AI capabilities into their hiring procedures and further enhances the likelihood of applications. These favorable associations between views regarding the employment of AI in the process of hiring and the propensity to apply for jobs have numerous significant practical ramifications. Based on my examination of a variety of research papers, this paper presents my perspective on the integration of AI into E- Recruitment. The result of the study confirms that AI adoption encourages employers to reduce the complexity of candidate sourcing, screening and evaluation in the recruitment process. AI offers recruiters promising solutions to optimize talent acquisition, improve the quality of the hiring process, and eliminate human biases. As a result, we can conclude that the incorporation of AI technology into the recruitment process results in innovative way of work that makes all the difference. A sustainable competitive advantage can be achieved through dependability, time savings, cost effectiveness, and a better candidate experience. As intelligent AI technologies gradually replace routine administrative tasks, AI will be used more and more to produce better and more effective results.

Published in: 2023 International Conference on Sustainable Computing and Data Communication Systems (ICSCDS)

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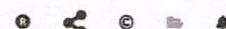
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Imperative Role of Artificial Intelligence and Big Data in Finance and Banking Sector

Publisher: IEEE

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In contrast to human intelligence, which comes from innate knowledge, artificial intelligence (AI) and big data refers to the mental capacity demonstrated by robots. AI has... [View more](#)

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Abstract:

In contrast to human intelligence, which comes from innate knowledge, artificial intelligence (AI) and big data refers to the mental capacity demonstrated by robots. AI has been revolutionized banking and the financial sector and affected on human labor as well as other stakeholders. The concept of "Industry 4.0" dramatically altered how organizations operate today. The five maturity levels of the model are initial, managed, defined, established, and digitally oriented. Requirement to secure, improve the quality, and meet the interests of both clients and financial institutions is increasing day by day. Technology become base of the financial institute. This paper examines various technology models used in the financial and banking industries. The study focusses on digital technology in the banking and finance industries for gaining understanding of the topic and identifying new areas. Study examines futuristic challenges of technology in banking sectors.

Published in: 2023 International Conference on Sustainable Computing and Data Communication Systems (ICSCDS)

Date of Conference: 23-25 March 2023

DOI: 10.1109/ICSCDS56580.2023.10105062

Date Added to IEEE Xplore: 25 April 2023

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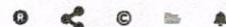
Prediction and detection of nutrition deficiency using machine learning

Publisher: IEEE

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The plant producers have a hard time identifying nutritional inadequacies in their crops. The capacity to recognize these comprehensive nutritional deficiencies could hel... [View more](#)

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Abstract:

The plant producers have a hard time identifying nutritional inadequacies in their crops. The capacity to recognize these comprehensive nutritional deficiencies could help regulate crops properly. Using image processing, Convolutional Neural Network (CNN), the researchers were able to categorize and identify complete nutritional deficiencies in various cultivars. The prototypes would provide prescribed plant fertilizers once nutrient insufficiency was recognized. Iron (Fe), magnesium (Mg), potassium (K), nitrogen (N), calcium (Ca) and complete nutrition were examined. For classifying the image processing techniques were used to turn the images into grayscale & binary data. Using identification and prediction, CNN predicts complete nutritional deficiencies in the plant. CNN high accuracy of detection and diagnosis of nutrient deficits in different cultivars, according to the results compared with Artificial Neural Network (ANN) and DenseNet-121. The design has been tested and the results demonstrate a better way to classify and diagnose complete nutritional deficits in different cultivars.

Published in: 2023 International Conference on Device Intelligence, Computing and Communication Technologies, (DICCT)

Date of Conference: 17-18 March 2023

DOI: 10.1109/DICCT56244.2023.10110072

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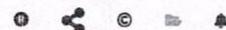
Significance of Emerging Technological Advancements in Transition of Green Economy

Publisher: IEEE

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Abstract:

UNEP's SDGs agenda 2030 focuses on the reduction of negative environmental impacts to achieve green economy. Industry 4.0 calls for energy efficient and clean energy technologies as a solution to reduce the impacts of global warming and climate change to achieve Sustainable Development Goals set by United Nations Environment Programme. United Nations Environment Programme is promoting green economy as an alternative solution to achieve sustainable development. Exponential technologies have a significant Role in achieving all the Sustainable Development Goals. United Nations Environment Programme in its report on 'Technology and innovation' has expected that by the year 2025, the market growth of technologies would be \$3.2 trillion. In this regard study covers the frontier technologies- Artificial Intelligence (AI) and Machine Learning, the Internet of things (IoT), Big Data Analytics and Block chain. The present study is related to SDG 8 and 9. This paper analyzes the significance of technological advancements for green economy. The study analyzes that technological advancements have a significant Role in sustainable developmental aspects. Therefore, to attain green economy, there is a need to encourage research and innovation on energy and environment.

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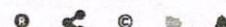
Design of a Reliable Copyright Management System Based on Blockchain

Publisher: IEEE

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Abstract:

Although data exchange and transparency are encouraged by the Internet, digital information is not protected by it. It has become challenging to publish the Digital Rights Management system in today's digital environment that can be regarded as well-protected. The value of digital work that is quickly accessible in open-source settings will eventually be zero to the creator. Nonetheless, anyone can download and make copies of content because it is available online. Since the value of data is typically based on how difficult it is to access, the worth of online content gradually declines. It may serve as a good alternative to the aforementioned issues. In this paper, we suggest a blockchain-based approach for a DCM system. In order to keep information transparent and secure, we store the details of copyright transactions on the blockchain. Smart Contact replaces the requirement for centralised servers to validate identities and issue licences by ensuring the validity of copyright transactions and issuing licences automatically. The possibility for using blockchain based to address the issue of managing digital copyright. This paper outlines a complete digital copyright management system (DCMS) centred on a public blockchain.

Published in: 2023 IEEE Devices for Integrated Circuit (DevIC)

Date of Conference: 07-08 April 2023

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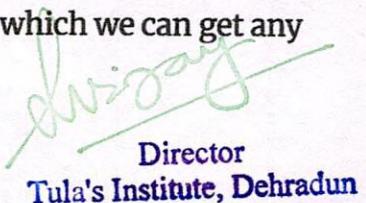
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In a computer image analysis, the main aim is to produce the image with specified appearance that provides more convenience for society and machines to detect, identify, and understand the situation. Image processing is the technique from which we can get any



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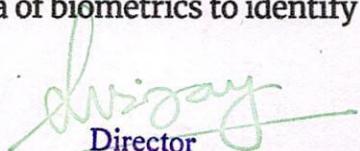
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Abstract

The traditional method of raising your hand in a classroom to say “present ma’am” or “yes ma’am” or whatever other things you would say is kind of fading away, Image processing is becoming increasingly important in the digital world. Magicians play an important function in today's information era. Visual processing is necessary in the area of biometrics to identify



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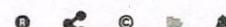
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IV. Dataset Description and Processing

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Abstract:

Diabetes mellitus is characterized by a sedentary lifestyle, poor nutrition, and workplace stress, that could result in neurological damage, cardiovascular disease, seizures, renal failure, as well as other serious medical conditions. Hyperglycemia could be efficiently managed unless diagnosed early and accurately. Techniques based on machine learning (ML) are especially effective at predicting, but also detecting hyperglycemia later. This assignment would aim to investigate hypoglycemic episodes using supervised and unsupervised machine learning methods. From 2018 to 2022, studies on hyperglycemia treatment were included in the evaluation. Hyperglycemia has been forecasted overall incredible precision using judgment tree-based techniques such as Logistic Regression, SVM, XGBoost, AdaBoost, etc. Unmonitored learning methods like LDA and KMean could help with feature extraction as well as unique identification in huge datasets. As a hybrid model of supervised and unsupervised machine learning approaches, K-Mean and SVM have also been used to interpret and analyze hyperglycemia with great confidence.

Published in: 2023 International Conference on Computational Intelligence, Communication Technology and Networking (CICTN)

Date of Conference: 20-21 April 2023

DOI: 10.1109/CICTN57981.2023.10140921

Date Added to IEEE Xplore: 07 June 2023

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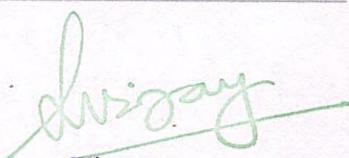
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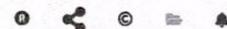
Influences of forced frequency and its Static Analysis of Kaplan Turbine Shaft with Different Engineering Materials

Publisher: IEEE

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In the present investigation, the SolidWorks software tool was employed for failure analysis of the Kaplan turbine shaft using modal test analysis. The failure analysis has been performed the concerning applied load at different frequencies (285.92, 288.69, 348.65, 353.12, 369.23, and 382.65Hz). The turbine shaft generally fails due to excess load and high speed, such type of failure can be minimized using optimal load and appropriate materials. Shafts are the generally used in the turbine and it is subjected to failure due to a large number of stresses induced at the coupling of shaft and flange. This analysis was carried out for different materials used and analyzed which material was more suitable for this application on behalf of the yielding strength of the materials. The main objective of this work is appropriate material for the shaft and reduced the value of stresses. In this work, two types of material (AISI-1040 carbon steel and Forged steel) have been taken and performed the test to get the desired property.

Published in: 2022 2nd International Conference on Innovative Sustainable Computational Technologies (CISCT)

Date of Conference: 23-24 December 2022

DOI: 10.1109/CISCT55310.2022.10046570

Date Added to IEEE Xplore: 22 February 2023

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Comparative Study of Performance Measure of Modified Stepped Solar Still with Conventional Solar Still for Water Desalination Processes

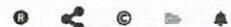
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Abstract:

In the present investigation, we aimed to improve the solar still's efficiency by modifying the absorber plate's shape and thus intensifying the insulating plate's area. Solar stills are gaining one of the most cost-effective methods of producing distilled water, and many current investigators are working on it. Solar still can be used to purify saline water by employing the heat of solar irradiance to convert water into steam, which is then condensed on the reflective surface and accumulated in a container via a channel. In this work, a solar still have designed with an absorber plate folded in the shape of stairs and geometric dimples on the plate surface. Also, on the 10 steps of the absorber plate, several dimples with a radius of 3 mm were formed to increase their surface area. An inclined traditional type solar still (ICSS) was also built to compare the efficiency of the modified stepped solar still (MSSS) against that of the traditional solar still designs. During the analysis, it was found that the Productivity and efficiency of modified solar stills were significantly higher than those of conventional solar stills. When tested at a water depth of 1cm, the maximum Productivity per hour of the modified solar still was 0.30 kg per hour, while the conventional type solar still was 0.23 kg per hour. The performance level of the modified solar still was 18.80%, while the overall efficiency of the traditional ones still was 15.44%. The present results showed that the overall performance of the MSSS still was highly (3.34%) efficient than that of ICSS.

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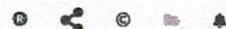
Imperative role of customer segmentation technique for customer retention using machine learning techniques

Publisher: IEEE

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Customer segmentation is crucial for businesses to employ as a tool to guide them toward more successful marketing and product development. Customers can be divided into essentially infinite segments. Businesses need to have a deeper grasp of their customers' behaviour from all angles if they want to retain their business. Earlier segmentation techniques may have helped identify the client segments that need more attention. However, they were unable to spot a pattern in client attrition to take alternative measures. Finding patterns in customer behaviour, predicting consumer behaviour, and providing customers with better options and opportunities have become increasingly important for fostering customer-company engagement. It became crucial to divide up clients into groups based on their behaviours and personal information. The most effective and adaptable analytical frameworks and machine learning models for client segmentation are examined in this review paper.

Published in: 2023 International Conference on Artificial Intelligence and Smart Communication (AISC)

Date of Conference: 27-29 January 2023

DOI: 10.1109/AISC56616.2023.10085487

Date Added to IEEE Xplore: 03 April 2023

Publisher: IEEE

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Comparing Performance And Computational Efficiency Of Face Recognition Approaches

Publisher: IEEE

[Cite This](#)[PDF](#)Eshani Akanksha Bisht ; Purnendu Prabhat ; Sachin Kumar [All Authors](#) 63
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Abstract:

Some of the simplest tasks for a human to accomplish are the most difficult for a machine to solve. Face recognition is an example of this type of problem. Researchers have been attempting to solve face recognition since the 1960s. It's come a long way, and there have been many potential solutions offered. Most of these solutions are provided based on machine learning techniques. The utilisation of edge devices such as smartphones, smartwatches, automotive devices, and other smart home products has skyrocketed the use and development of face recognition in recent years. The main goal of this research paper is to do a thorough investigation and then choose the finest potential solutions for a face recognition application. This study's main objective was to evaluate various solutions theoretically and experimentally. It is not possible to experimentally evaluate every face recognition method available in literature. So, we conducted a literature survey and chose 3 of the most accurate models, namely FaceNet, MobileNet and InceptionResNet. The famous five celebrity faces dataset is used to train and test the models on Google Colab platform. Among all the three models, it was found that FaceNet provided the most reliable results in terms of accuracy while being computationally efficient. In the future, other methods and models for face recognition can be investigated and applied. Finding a model that is even more accurate than FaceNet will be an interesting task.

Published In: 2022 International Conference on Advances in Computing, Communication and Materials (ICACCM)

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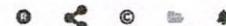
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Delay Tolerant and Energy Reduced Task Allocation in Internet of Things with Cloud Systems

Publisher: IEEE

[Cite This](#) [PDF](#)Dipak Raghunath Patil ; Bharat Borkar ; Ashok Markad ; Sunil Kadlag ; Makhan Kumbhkar ; Ahmad Jamal [All Authors](#) ...45
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Through the utilization of the Internet, cloud computing supplies storage and computation resources to deliver services for many sectors. The speed of such systems suffers, though, since delay-sensitive systems, such as smart city and health applications, increasingly need for processing over massive volumes of data transmitted to centralised datacenters. When compared to cloud services, the paradigms of fog as well as edge computing provide innovative solutions by affecting the financial closer to the customer and by having low energy consumption and latency effectiveness. To optimise expense and resource efficiency, enhance QoS, and increase security and privacy, it is crucial to discover the best locations for services and assets inside the 3 IoT. The bipartite graph task scheduling method we provide in this research enhances cost effectiveness in real world applications with strict deadlines. The proposed method's performance in terms of delay, network congestion, as well as cost is deployed and tested to use the iFogSim simulator, an expanded version of CloudSim. The evaluation results demonstrate that the suggested algorithm outperforms Round-Robin and Minimum Response Time methods in terms of both cost as well as throughput.

Published in: 2022 International Interdisciplinary Humanitarian Conference for Sustainability (IIHC)

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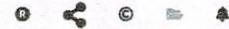
Design and Fabrication of Eco-Kart Vehicle Using AISI 4130(CHROMOLY) Alloys as Chassis Material

Publisher: IEEE

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Aditya Utkarsh ; Mujammil Khan ; Shoaib Alam ; Anubhav Srivastav ; Khushi Thapa ; Ankit Jain ; S. C. Ram All Authors ...



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In the present paper, the design concept, analysis parts, and fabrication method of an Eco-Kart Vehicle using AISI 4130(CHROMOLY) alloys have been presented. The modest f... [View more](#)

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Abstract:

In the present paper, the design concept, analysis parts, and fabrication method of an Eco-Kart Vehicle using AISI 4130(CHROMOLY) alloys have been presented. The modest four-wheeled go-kart vehicle design and used for the racer with no suspensions or differential and saves fuel consumption, due lightweight. The design elements of an eco kart for safety and comfort, as well as excellent energy savings. The Green kart model is considered after the materials used, testing, validation, and economic considerations. The primary objective of the training is to establish a comfortable and operational ground vehicle with a stiffer and torsion-free chassis. This article outlines the goals, generalizations, and different desirable calculations part used in the design of an Eco Kart. The several design configurations were selected in such a way that the Kart is simple to manufacture in every way. Finite Element Analysis (FEA) was performed using ANSYS software. However, the structural stability of the chassis frame was authenticated by trying to compare the results of an analysis to the standard values. The study looked at dynamic and static deflection, as well as various impacts loading on the chassis structure. Because the go-kart chassis is comprised of less material than a conventional automobile chassis, it should be able to withstand applied loads as well. As a result, the key considerations for an excellent go-kart chassis material are a strong foundation and lightweight.

Published in: 2022 2nd International Conference on Innovative Sustainable Computational Technologies (CISCT)

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Role of industrial automation in terms of providing predictive maintenance in the transportation and logistics sector

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The best practitioners of Spatial cluster analysis the whole of ideas, innovation, convey the practices and challenges, so be spread is very important, the logistics indu... [View more](#)

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Abstract:

The best practitioners of Spatial cluster analysis the whole of ideas, innovation, convey the practices and challenges, so be spread is very important, the logistics industry of Spatial cluster analysis, a unique interdisciplinary effort, epidemiologists apply the statistics. In this study, reviewed the scope of the retrieval spatial cluster analysis method employed by systematically individual level, a peer-reviewed journal database to study the data obtained from the address position or coordinates. Advanced Resource management (ARM) for logistics are widely used in such consumer transport monitoring. Because of its reduced instruction set, require effective few transistors smaller for the Integrated Circuit (IC) which is used to logistics monitoring in transportation. The existing system does not have proper result for less accuracy of logistics industry spatial cluster analysis and then less poor performance of spatial cluster analysis for prediction and classification. The proposed method gives correct result of more accuracy of logistics industry spatial cluster analysis and then high performance of spatial cluster analysis in this section using Random Support Vector System (RSVS) algorithm. The proposed system processes the data collection and analysis, then use the classification process, Advanced RISC Machines (ARM) Heterogeneous and Spatial cluster analysis and predict the result.

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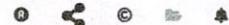
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Revolutionizing IoT Network Security with Deep Learning-Anomaly Detection Model

Publisher: IEEE

[Cite This](#) [PDF](#)Manish Vyas ; R Vijayaganth ; Jigyasha Chandok ; Aviral Srivastava ; S. Arumugam ; Mohit Tiwari [All Authors](#) ...89
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Abstract:

The term "Internet of Things" (IoT) is used to describe the collection of data and the connectivity of items to the web that requires little to no human interaction. The IoT is a network of interconnected devices that can collect and disseminate information. Increased security and privacy worries accompany the launch of new devices due to the proliferation of Internet connections and the development of cutting-edge technology like the IoT. These days, the IoT is used everywhere, but especially in logistics, manufacturing, and healthcare. While these emerging IoT applications greatly enhance the usefulness of smart objects, they also present new security risks. Because of this, adapting existing intrusion detection systems (IDS) for use with IoT networks is a topic of intense study. Many IDS experts have found success with machine learning (ML) and deep learning (DL) techniques. By combining deep extraction through the Convolutional autoencoder with deep learning to identify the best features, this work delivers an improved IDS that can be used for anomaly detection. Improves to the deep learning approach include an evaluation of hyperparameter effectiveness, a stage of feature pruning using an autoencoder neural network, and an examination of the sturdiness of the most effective deep neural networks for circumstances exaggerated by Gaussian noise over some of the features in question. Despite the noise, the results show that the formed IoT dataset is useful for anomaly detection with deep learning methods.

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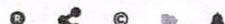
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LSTM Approach for Efficient Stock Market Prediction

Publisher: IEEE

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Stock market investing has always been difficult for shareholders and prevents the use of standard models to make more accurate predictions of future values. Although man... [View more](#)

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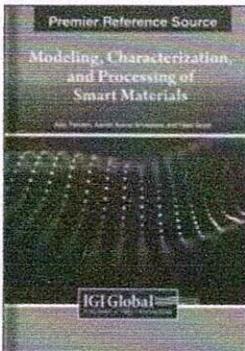
Abstract:

Stock market investing has always been difficult for shareholders and prevents the use of standard models to make more accurate predictions of future values. Although many researchers and academicians have proposed methods to make stock price prediction more efficient. But after going through those proposals, we found a number of loopholes that can be tackled using a different approach. In this research work, machine learning and a study of finance have been combined to construct a model employing long-short term memory (LSTM) that forecasts the value of the SENSEX in the future. Finally, we have evaluated the performance of our proposed method. So this research work can be used by other researchers in the same domain. Our research will encourage practitioners to better identify the exciting sector for future views while also assisting beginners in comprehending the ML paradigm.

Published in: 2023 3rd International Conference on Intelligent Technologies (CONIT)**Date of Conference:** 23-25 June 2023**DOI:** 10.1109/CONIT59222.2023.10205790**Date Added to IEEE Xplore:** 07 August 2023**Publisher:** IEEE

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Annexure-3A

Industry Requirement and Future Prospects of Lightweight AlMg2Si Functionally Graded Materials for Automotive Engine Components: Review

Subhash Chandra Ram (/affiliate/subhash-chandra-ram/449706/), Awani Bhushan (/affiliate/awani-bhushan/449707/), Sunkulp Goel (/affiliate/sunkulp-goel/449708/)

Source Title: Modeling, Characterization, and Processing of Smart Materials (/book/modeling-characterization-processing-smart-materials/318402)

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Pages: 17

DOI: 10.4018/978-1-6684-9224-6.ch011

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Abstract

The present study provides a comprehensive state-of-the-art on currently available information about the advancement of Al-Mg2Si in-situ FG-composites for various automotive application domains, as well as their inherent benefits and drawbacks. Additionally, the chapter explored how a functionally graded material (FGMs) might serve as a suitable replacement material for automotive components. FGMs can be practically modified through the modification of their constituents to meet particular functional needs. The production of FGMs employs an extensive range of approaches. Taking into consideration Al-Si-Mg alloy as the starting materials, the fabrication methods are categorized as follows: liquid processes, gaseous processing, and solid particle methods. This chapter describes the typical centrifugal casting technique for Al-Mg2Si in-situ functionally graded lightweight composites. Optical and SEM analysis of reinforced phase Mg2Si particles, Al-Si eutectic phases, and α -Al grains size were presented in detail.

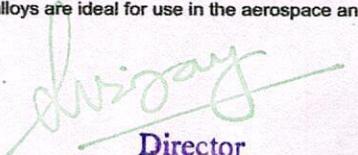
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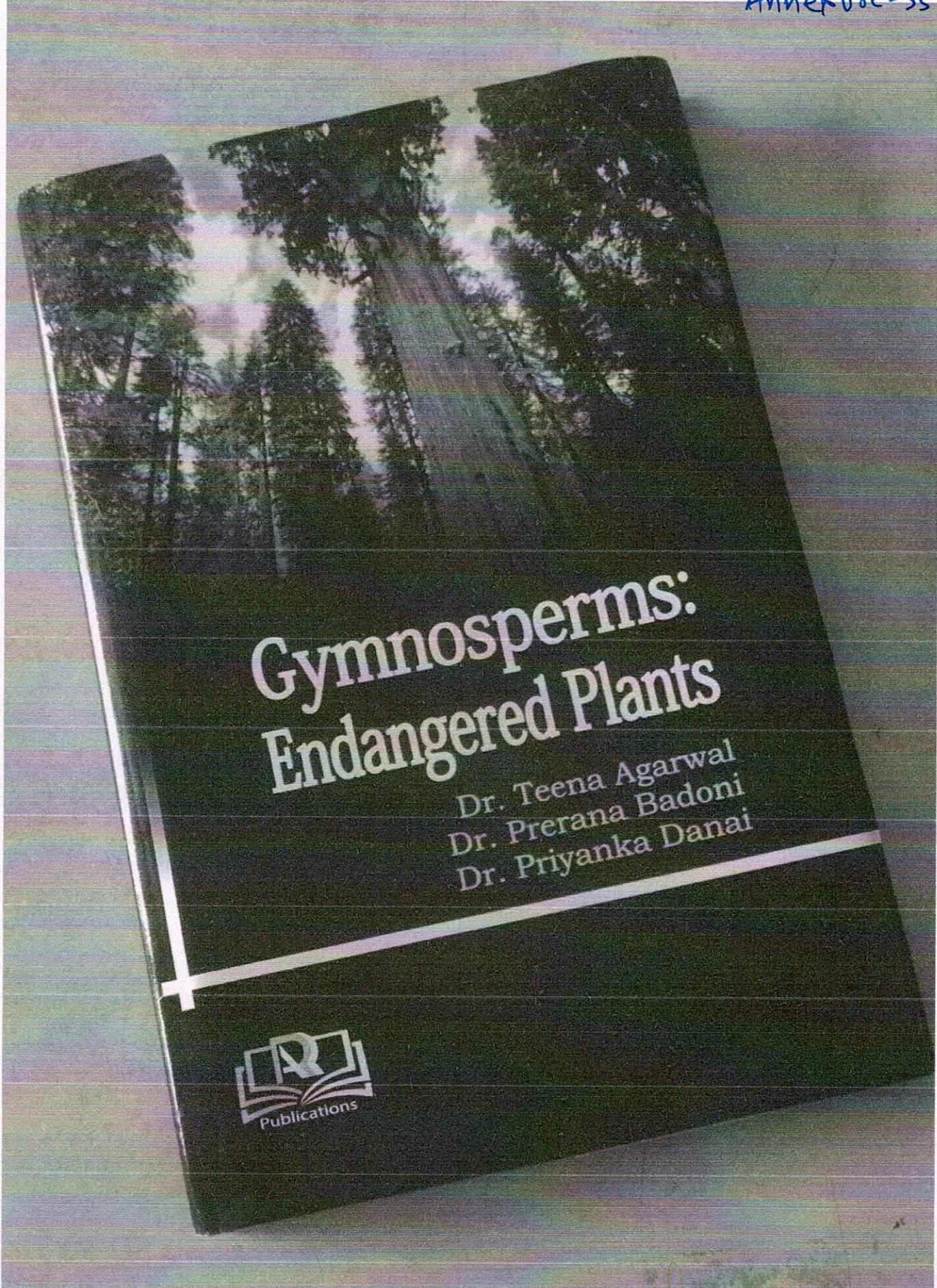
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1. Introduction

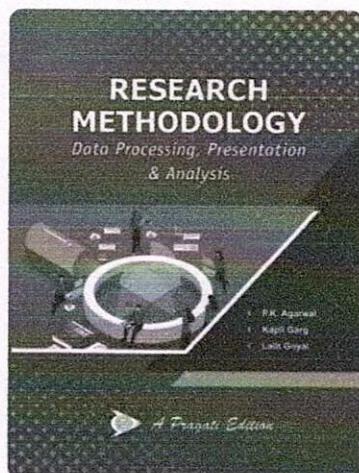
Particularly in the automotive and aerospace industries, the production and demand for lightweight materials have recently expanded. Conventional components such as steel as well as iron casting have higher tensile strength but are heavier in weight than aluminum alloy. The majority of researchers and educators now believe that cast iron and steel can be replaced by alloys based on aluminium and silicon in the production of engine parts. A356 and A319, the two most widely used aluminium alloys, are employed in automobile parts but do not have the necessary tribological qualities (Watanabe et al., 2011; Sobczak et al., 2009; Zhang et al., 1999). The manufacturing of functionally graded materials (FGM) and their design made it possible to produce composite materials with different microstructures and proportions. Moreover, the wear resistance will be offered if the degree of distribution of hard reinforcing particles in the surface layers is altered. The flexibility and hardness of the middle and opposing side layers will eventually grow as a result of their gradual depletion throughout the reinforcing phase. Potential candidate materials include functionally graded aluminum-based composites reinforced with Mg2Si for use in aerospace, automotive, and other applications.

Functionally graded composites (FG-Composites) are made of heterogeneous materials that have been purposefully adjusted to have a variety of conflicting properties. FGMs are employed in a variety of industries, including automobiles, chemicals and petrol, mitigation, and space exploration (Kumar et al., 2021; Ram et al., 2017; Ram et al., 2023). The production of functional qualities of any component is only achievable with a gradient distribution of dispersed phase particles (Xu, F. M., et al. 2004). Aluminium has several applications, including the fabrication of lightweight structural components with varying qualities using various alloys. Aluminium and its alloys are commonly used in manufacturing businesses as well as research endeavours due to their outstanding castability and desirable features. Many desired qualities of aluminium and its alloys include high stiffness, ductility, high strength-to-weight ratio, good thermal stability, good conductivity and durability. They are also less expensive when compared to other readily available and commonly used low-density alloys (Melgarejo et al., 2008). Because of their great flowability and castability, Al-Si-based alloys are ideal for use in the aerospace and


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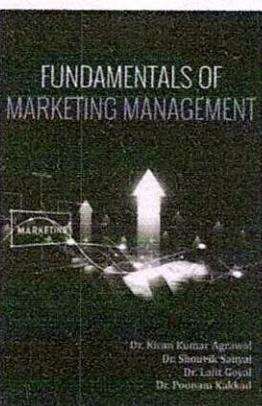
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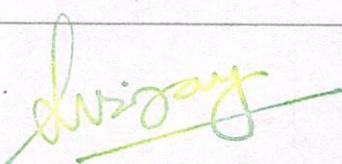
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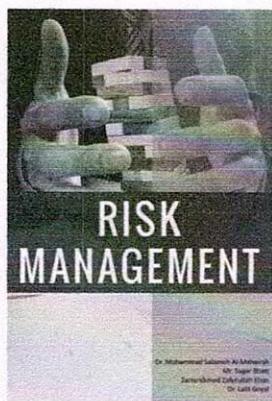
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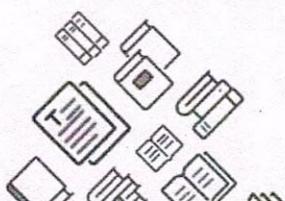
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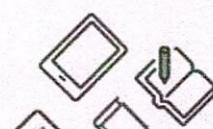
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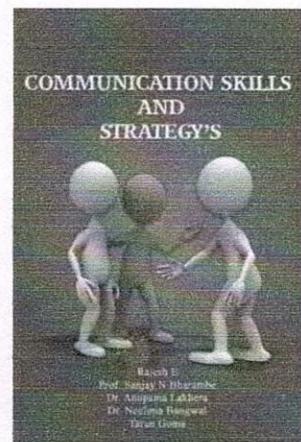
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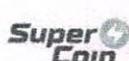
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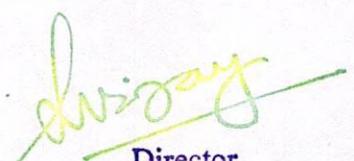
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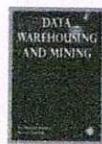
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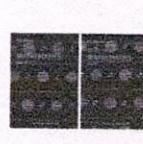


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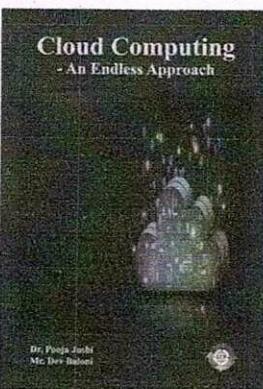
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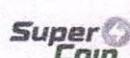
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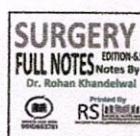
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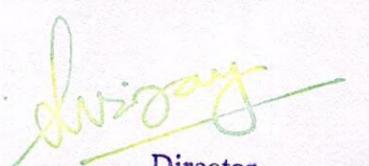
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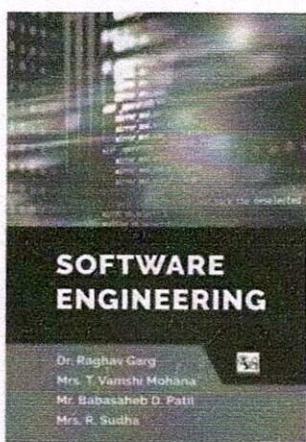
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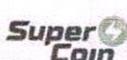
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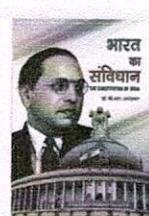
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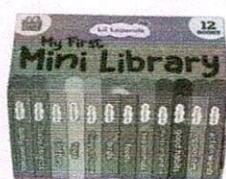
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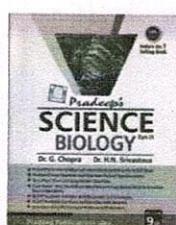
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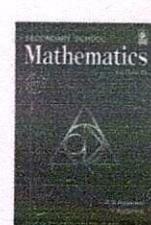
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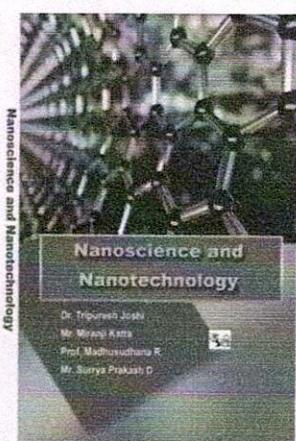


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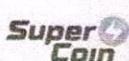
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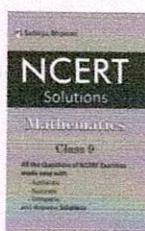


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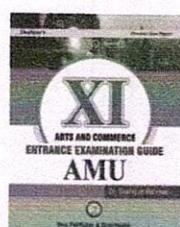
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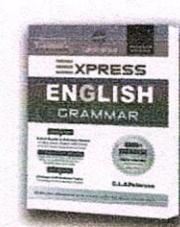
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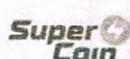
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4	11-02-2024	Arishad Khan	7322958461	arshad703365@gmail.com	NA	Computer Application	2025	Marpu Foundation	Performance Based
5	04-02-2024	Tanisha Patel	7070389144	tanishpat993@gmail.com	NA	Computer Application	2025	MyWays.ai	₹2000 / month
6	20-01-2024	Aman Chaurasiya	8317082158	chaursiyaraman073@gmail.com	Computer Science & Engineering	2024	Marpu Foundation	Performance Based	
7	15-01-2024	Yogesh Kaushik	9350051235	yogeshkaushik8115@gmail.com	Computer Science & Engineering	2026	TopTrove Foundation	Performance Based	
8	30-12-2023	Satyesh Singh	7209558652	satyesh202404077@tulas.edu.in	Computer Science & Engineering	2026	Marpu Foundation	Performance Based	
9	18-11-2023	Ish	7267893121	shashwatwatschan2410@gmail.com	Computer Science	2027	Marpu Foundation	Performance Based	
10	06-11-2023	Shamim Alam	7254831225	shanim.2020.013127@tulas.edu.in	Finance	2025	Subhanh Sewa Trust	₹1000 / month	
11	02-05-2023	Kanak Singh	7488744618	kanaksinghrajput3@gmail.com	BBA	2022	Marpu Foundation	Performance Based	
12	28-04-2023	Shivani Kumari	6299284740	shivani.202208015@tulas.edu.in	Human Resources	2024	Marpu Foundation	Performance Based	
13	31-03-2023	Archana Kumari	7817936831	rajarachana2105@gmail.com	NA	2025	Marpu Foundation	Performance Based	
14	27-02-2023	Dilesh Patel	6395569181	patelidipesh32@gmail.com	NA	2024	Marpu Foundation	Performance Based	
15	15-02-2023	Bipul Singh	9973424099	bipulsingh9973424@gmail.com	Mechanical Engineering	2026	Marpu Foundation	Performance Based	
16	15-11-2022	Priya Arya	8941825869	priya.2020018002@tulas.edu.in	NA	2023	SWPL Group	₹10000-20000 / month	
17	12-05-2022	Harsh Kumar	8789839729	harshkumar8178983@gmail.com	Computer Science & Engineering	2025	Educare Education Services	₹10000 / month	
18	13-04-2022	Ankit Singh Chaddha	9760244277	ankitchaddha285@gmail.com	Computer Science & Engineering	2023	Awiskar Tech	₹10000-20000 / month	
19	30-09-2021	KUMAR SAURABH	6204936192	ks475201@gmail.com	NA	2022	TopTrove Foundation	Performance Based	
20	22-09-2021	Akanksha Dwivedi	7830738430	akanksha.202008010@tulas.edu.in	Human Resources Management	2022	Smile Foundation	Performance Based	
21	03-04-2021	Anuj Srivastava	6387570575	anuj344@gmail.com	Computer Application	2022	Selot Engineers Private Limited	₹12000 / month	
22	11-12-2020	Kashyap Bagri	6382212950	bagrikashyap@gmail.com	NA	2022	Shine Projects	₹5000 / month	
23	11-12-2020	Prityank Yadav	7980797054	prityank7130@gmail.com	NA	2022	Shine Projects	₹5000 / month	
24	05-02-2020	Anirudh Semwal	7951178745	anirudhssemwal12612@gmail.com	NA	2023	INDIA Redefined	Performance Based	
25	25-01-2019	AMIT Shah	9027933122	ip257649@gmail.com	Computer Application	2022	INDIA Redefined	Performance Based	
26	13-05-2024	Ravish Goit	7070732088	goitravish@gmail.com	Marketing	2025	Muskurahat Foundation	₹5000-10000 Lump sum	
27	11-04-2024	ASHUTOSH JHA	8252512535	ashutoshjh12122002@gmail.com	Finance	2025	Muskurahat Foundation	₹5000-10000 Lump sum	
28	12-03-2024	Aman Singh	7918206055	amanthakur1256.com@gmail.com	Business and Management	2025	Muskurahat Foundation	₹5000-10000 Lump sum	
29	06-03-2024	Kumari Priya	7481083212	kg44326524@gmail.com	NA	2025	Muskurahat Foundation	₹5000-10000 Lump sum	
30	01-03-2024	Himanshu Kumar Singh	8294493392	himanshusingh2725@gmail.com	NA	2025	Muskurahat Foundation	₹5000-10000 Lump sum	
31	23-02-2024	Shreel Joshi	7088620516	shefalijsoshi275@gmail.com	Computer Application	2024	Muskurahat Foundation	₹5000-10000 Lump sum	
32	07-02-2024	Ananya Sharma	7246543575	ananyasharma04@gmail.com	Commerce	2025	Muskurahat Foundation	₹5000-10000 Lump sum	
33	22-01-2024	Agrima Sahu	9307258943	agrimasahu9@gmail.com	NA	2026	Muskurahat Foundation	₹5000-10000 Lump sum	
34	28-12-2023	Sonali Salha	6002015369	sahas81411@gmail.com	Agriculture	2024	Muskurahat Foundation	₹5000-10000 Lump sum	
35	14-12-2023	Devansh Indoliyan	8279545095	devanshindoliyan09@gmail.com	Computer Science & Engineering	2026	Muskurahat Foundation	₹5000-10000 Lump sum	
36	08-12-2023	Deepak Joshi	8958260112	deepak.202103072@tulas.edu.in	Commerce	2024	Muskurahat Foundation	₹5000-10000 Lump sum	
37	08-12-2023	Vaanti Garg	8077397549	gargvaanti881@gmail.com	NA	2025	Muskurahat Foundation	₹5000-10000 Lump sum	
38	07-12-2023	Saurabh Yadav	6386135974	saurabhayadav6386@gmail.com	Computer Science & Engineering	2024	Muskurahat Foundation	₹5000-10000 Lump sum	
39	14-09-2023	Pratham Singh Kunwar	80562098607	prathamsingh451@gmail.com	Electrical and Electronics Engineering	2026	Muskurahat Foundation	₹5000-10000 Lump sum	
40	17-07-2023	Dakshi Bansal	9053493380	dakshibansal2018@gmail.com	Computer Science & Engineering	2025	InAmigos Foundation	Performance Based	
41	22-06-2023	Pattan Hafeez	7569385442	pattan.202104033@tulas.edu.in	Computer Application	2023	NayeParkh Foundation	₹5000-10000 Lump sum	
42	16-05-2023	Charu Anand	9219422519	anandcharu723@gmail.com	Commerce	2025	NayeParkh Foundation	₹5000-10000 Lump sum	
43	24-04-2023	Aryan Kumar	7300918714	aryankumar256550083@gmail.com	NA	2026	Muskurahat Foundation	₹5000-10000 Lump sum	
44	11-04-2023	Ankit Rawat	8791247203	ardib8725@gmail.com	Computer Science & Engineering	2024	Muskurahat Foundation	₹5000-10000 Lump sum	
45	25-03-2023	Abhishek Kumar	6203255335	abhishek20210102@gmail.com	Computer Application	2024	Muskurahat Foundation	₹5000-10000 Lump sum	
46	18-03-2023	Arun Gupta	8119040624	aniruedhaun111@gmail.com	Marketing	2023	NayeParkh Foundation	₹5000-10000 Lump sum	
47	04-03-2023	Prashant Singh	8429906065	prashant.2022040111@gmail.com	Computer Science	2026	Muskurahat Foundation	₹5000-10000 Lump sum	
48	27-01-2023	Ishaan Vatsal	7764929371	ishaan.2022040309@gmail.com	Computer Science & Engineering	2026	Muskurahat Foundation	₹5000-10000 Lump sum	
49	20-01-2023	Eleem Debarma	7086687392	elem.202204059@gmail.com	NA	2026	Muskurahat Foundation	₹5000-10000 Lump sum	
50	20-01-2023	Khushi Sahay	7903841371	khushi.2021060122@gmail.com	Agriculture	2026	Muskurahat Foundation	₹5000-10000 Lump sum	
51	20-01-2023	Valbhav Singh	8057902518	valbhav.202204163@gmail.com	Computer Science & Engineering	2025	Muskurahat Foundation	₹5000-10000 Lump sum	
52	17-01-2023	HARSH RAJ	8873977700	harsh621291raju@gmail.com	Computer Science & Engineering	2026	Muskurahat Foundation	₹5000-10000 Lump sum	

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53	14-01-2023	Nikhil Anant	8789229498	nikhil.2022208067@tulas.edu.in	NA	2024	Muskurahat Foundation
54	12-01-2023	Rajeev Ranjan	8757413506	rajeev.2022204068@tulas.edu.in	Computer Science & Engineering	2026	Muskurahat Foundation
55	08-12-2022	Aditya Raj	6205138832	araj.10102@gmail.com	Management	2024	Muskurahat Foundation
56	01-12-2022	Gujjan Bhavnagar	6396005233	gujjanbhavnagar1508@gmail.com	Electronics and Communication	2025	Muskurahat Foundation
57	19-10-2022	Sneha Mishra	7061531988	snehamishra208@gmail.com	Computer Science & Engineering	2022	Muskurahat Foundation
58	01-08-2022	Akash Giri	7895220550	internshipt.delete.user+21660370@gmail.com	Computer Science & Engineering	2024	Muskurahat Foundation
59	29-07-2022	Akshay Kumar	9027076659	bhardwajakshay256@gmail.com	Computer Science & Engineering	2023	Muskurahat Foundation
60	21-07-2022	Shivani Bisht	9258495859	shivanibisht211@gmail.com	BUSINESS MANAGEMENT	2023	Muskurahat Foundation
61	19-11-2020	AMIT Shah	9027931212	ps257649@gmail.com	Computer Science	2022	Unigo Cabs
62	13-03-2024	Suhani Gahtori	9389704108	suhaniaghton4@gmail.com	Journalism and Mass Communication	2025	Earth5R
63	22-02-2024	Ridhima Jain	7983177977	jainridhma62@gmail.com	Computer Science & Engineering	2027	ADORE
64	03-09-2023	Ravvir Kashyap	9570036999	sumittsingh07@gmail.com	Civil Engineering	2026	Earth5R
65	10-08-2023	Kajal Singh	8564081255	creativekajal12@gmail.com	Computer Science & Engineering	2023	InAfligne Foundation
66	12-07-2023	Sachin Koli	6396480328	sachin.202104058@tulas.edu.in	Computer Science & Engineering	2025	Hamari Paanchan NGO


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Outcome: The session provided participants with:

- Comprehensive knowledge of research paper writing and publication standards.
- Insights into structuring and presenting research findings effectively.
- Awareness of the peer-review process and how to address reviewer comments.
- Practical tips on avoiding common mistakes and ensuring journal acceptance.
- Increased confidence in targeting international journals for their research work.

Divyay
Director
Tula's Institute, Dehradun

Annexure No. 49

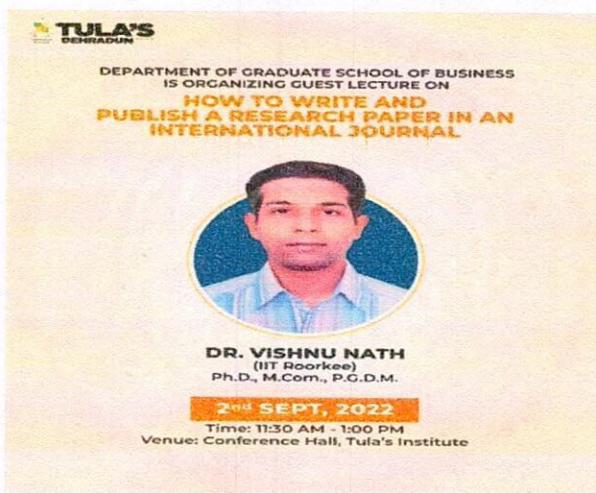
Event: Guest Lecture on How to Write and Publish a Research Paper in an International Journal

Date & Time: 2nd September 2022, 11:30 AM to 1:00 PM

Sponsor: Organized by the Department of Graduate School of Business at Tula's Institute, Dehradun.

Participants: The lecture was attended by faculty members, research scholars, and postgraduate students keen on learning the nuances of writing and publishing research papers in reputed international journals.

Objective: The primary objective was to guide participants through the process of writing high-quality research papers and understanding the publication requirements of international journals. The session aimed to improve research output by highlighting strategies for paper structuring, reviewing, and meeting international standards.



Summary: The guest lecture was delivered by Dr. Vishnu Nath (IIT Roorkee), who holds a Ph.D. and expertise in research and academic publications. Dr. Nath discussed the essential components of a research paper, including topic selection, literature review, research methodology, and result presentation.

He provided tips on writing clear and concise abstracts, formulating impactful introductions, and adhering to journal guidelines. Dr. Nath also covered the peer-review process, common pitfalls, and strategies for responding to reviewers' comments. Participants engaged in an interactive Q&A session to seek guidance on specific issues they faced in their research writing.

Divyanshu
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Annexure No. 50

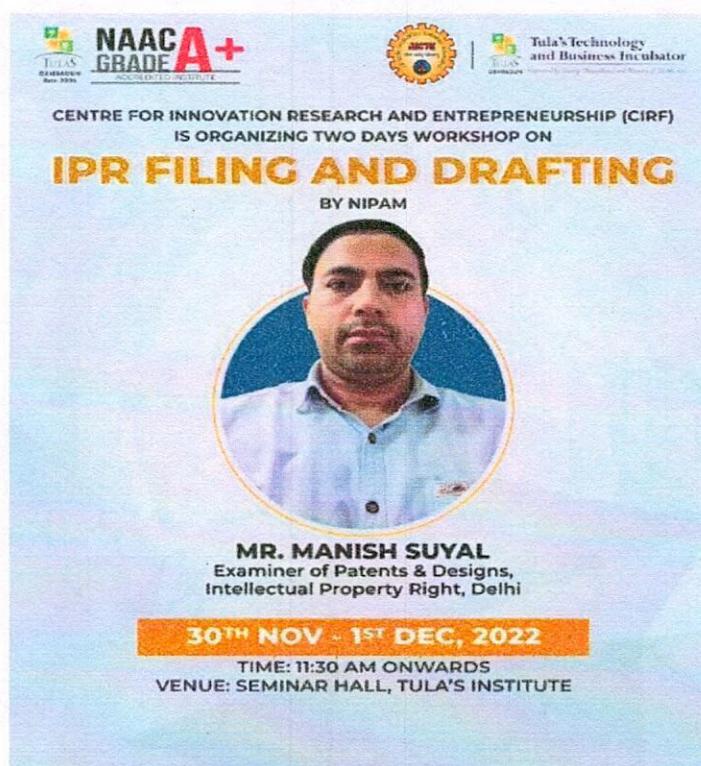
Event: Two-Day Workshop on IPR Filing and Drafting

Date & Time: 30th November – 1st December 2022, 11:30 AM onwards

Sponsor: Organized by the Centre for Innovation Research and Entrepreneurship (CIRF) in collaboration with Tula's Technology and Business Incubator at Tula's Institute, Dehradun.

Participants: The workshop was attended by faculty members, research scholars, and students from various disciplines interested in learning about intellectual property rights (IPR), filing procedures, and drafting techniques.

Objective: The primary objective was to provide participants with in-depth knowledge of IPR filing and drafting to safeguard their innovations. The workshop aimed to enhance participants' understanding of patents, trademarks, and design rights and equip them with practical skills to draft and file IPR documents.



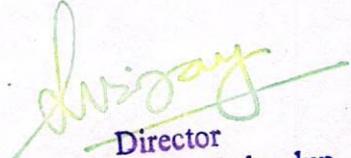
Shri Jay
Director
Tula's Institute, Dehradun

Summary: The workshop was conducted by Mr. Manish Suyal, an Examiner of Patents & Designs, Intellectual Property Rights, Delhi. He provided a comprehensive overview of IPR concepts, focusing on the legal and technical aspects of filing and drafting patents and design applications.

The sessions included detailed discussions on patentability criteria, documentation requirements, and best practices for drafting claims and specifications. Participants engaged in hands-on exercises to develop their IPR drafting skills and received personalized feedback from the expert. The workshop concluded with an interactive Q&A session, where attendees explored real-world scenarios and challenges in IPR filing.

Outcome: The workshop equipped participants with:

- Comprehensive knowledge of IPR filing and drafting procedures.
- Practical skills for preparing and submitting patent and design applications.
- Enhanced understanding of legal frameworks and documentation requirements.
- Ability to draft strong and enforceable IPR claims.
- Increased awareness of IPR rights and their importance in research and innovation.



Manish Suyal
Director
Tula's Institute, Dehradun

Annexure No. 51

Event: Guest Lecture on Research Paper Writing

Date & Time: 14th January 2023, 2:00 PM onwards.

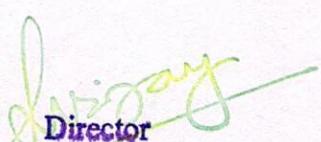
Sponsor: Organized by the Graduate School of Business in association with the Institution's Innovation Council (IIC) at Tula's Institute, Dehradun.

Participants: The session was attended by faculty members, research scholars, and postgraduate students from various departments who were eager to enhance their skills in academic writing and learn effective strategies for structuring and publishing research papers.

Objective: The session aimed to provide participants with a comprehensive understanding of research paper writing techniques, including structuring, formatting, and presentation of research findings. The objective was to equip attendees with the necessary skills to write high-quality research papers for academic and professional publication.



Summary: The guest lecture commenced with an introduction to the fundamentals of research writing by Dr. Tanu Kathuria. She emphasized the importance of choosing a relevant research topic, developing a strong thesis statement, and following a systematic approach to literature review. She shared practical tips on drafting a research paper, focusing on clarity, coherence, and academic integrity.


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Dr. Kathuria highlighted common mistakes made during manuscript preparation and provided solutions to overcome these challenges. The session concluded with an interactive Q&A, where participants discussed their specific queries related to research writing and publication processes.

Outcome:

- Participants gained an in-depth understanding of the research paper writing process.
- Improved knowledge of the structure and components of a well-written research paper.
- Awareness of best practices for drafting and formatting academic manuscripts.
- Insights into the nuances of literature review and reference management.
- Motivation to pursue quality research work for national and international publications.
- Enhanced skills in presenting research ideas and findings with clarity and precision.



Divyanshu

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Annexure No. 52

Event: Exploring the Emerging Startup Ecosystem in Uttarakhand

Date & Time: 25th February 2023, 11:00 AM onwards

Sponsor: Organized by Tula's Institute, Dehradun, in association with IDFC FIRST Bank, Moneycontrol, and supported by Startup Uttarakhand and other ecosystem partners.

Participants: The event was attended by aspiring entrepreneurs, faculty members, and students eager to learn about the emerging startup ecosystem and opportunities in Uttarakhand.

Objective: The primary objective was to provide insights into the startup landscape of Uttarakhand and discuss strategies to support and nurture budding entrepreneurs. The session aimed to connect industry experts, investors, and aspiring startups to foster innovation and entrepreneurship in the region.



Summary: The event featured prominent speakers, including Mr. Prateek Gupta (Cluster Head, IDFC FIRST Bank), Ms. Pooja Kumar (Director, Innovate Intellects), Mr. Binay Bisht (Area Sales Manager, IDFC FIRST Bank), Mr. Maneesh Kumar (Additional Director, STPI, Ministry of Electronics & IT), and Mr. Abhishek Srivastava (Sr. Client Associate Partner, Start Up Banking, North).

Each speaker shared valuable insights on topics such as funding opportunities, the role of innovation, policy support, and the challenges faced by startups. The discussions provided participants with a


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comprehensive understanding of the local startup ecosystem and resources available to support entrepreneurial growth.

The event concluded with an interactive Q&A session, where participants engaged with the experts, exploring potential collaborations and gaining practical advice on navigating the startup journey.

Outcome: The session provided participants with:

- Better understanding of the startup ecosystem in Uttarakhand.
- Insights into funding and support mechanisms for startups.
- Networking opportunities with industry leaders and potential investors.
- Encouragement and guidance for aspiring entrepreneurs to pursue their ventures.



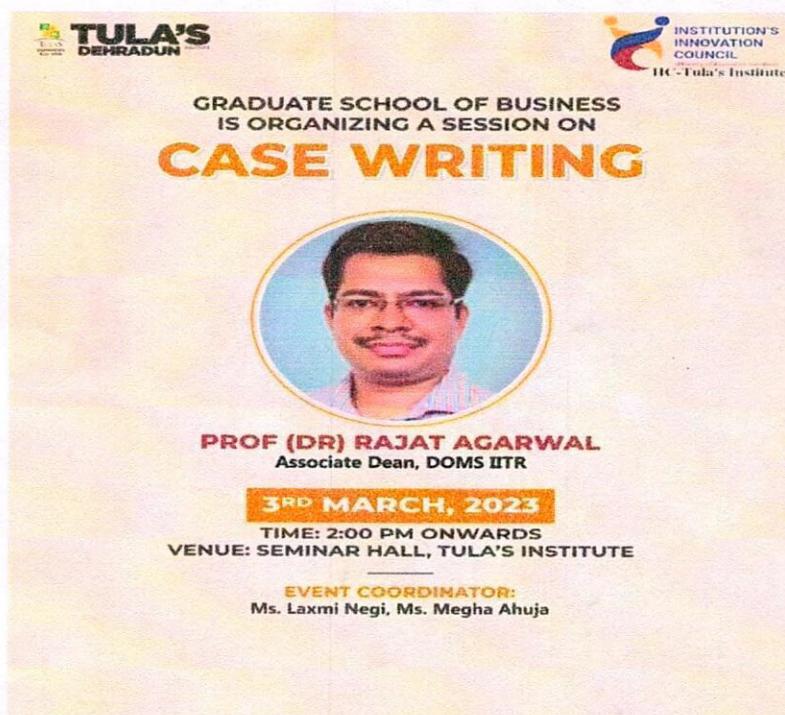
Event: Session on Case Writing

Date & Time: 3rd March 2023, 2:00 PM onwards

Sponsor: Organized by the Graduate School of Business in collaboration with the Institution's Innovation Council (IIC) at Tula's Institute, Dehradun.

Participants: The session was attended by faculty members, research scholars, and postgraduate students who have a keen interest in enhancing their case writing skills.

Objective The primary objective was to equip participants with the knowledge and skills required to write effective case studies for academic and industry purposes. The session aimed to enhance participants' understanding of how to develop real-world business cases and analyze complex situations in a structured manner.



Summary: Prof. Rajat Agarwal started the session by explaining the fundamentals of case writing, focusing on the importance of presenting real-life scenarios to facilitate decision-making and critical


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thinking. He elaborated on how to identify and frame a problem statement, structure the narrative, and incorporate data analysis to support the findings.

Throughout the session, Dr. Agarwal provided practical examples and shared his own experiences in developing cases for teaching and research. The participants were actively engaged in discussions and activities designed to improve their case writing abilities. The event concluded with an interactive Q&A, where participants posed questions on various aspects of case development and publication.

Outcome:

The session provided the following key takeaways for the participants:

- Enhanced understanding of the key components of a well-structured business case.
- Knowledge of best practices for identifying case study topics and defining problem statements.
- Skills in developing a compelling narrative that aligns with teaching and learning objectives.
- Improved ability to incorporate data analysis and visual aids to strengthen case study arguments.
- Practical tips for publishing cases in academic journals and industry publications.
- Increased confidence in creating real-world case studies for educational and research purposes.



Dr. Agarwal
Director
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Annexure No. 54

Event: Hackathon 2023 - National Level Marathon Coding Competition

Date & Time: 20th – 21st April 2023

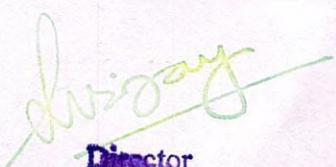
Sponsor: Organized by Tula's Institute, Dehradun, in collaboration with Tula's Technology and Business Incubator, Startup Uttarakhand, IEEE, and Institution's Innovation Council (IIC)

Participants: The event witnessed enthusiastic participation from faculty members, research scholars, and students from various institutions across India, keen on showcasing their coding and problem-solving skills.

Objective: The primary objective of the hackathon was to foster innovation and creativity in coding by providing a competitive platform for participants to develop cutting-edge solutions to real-world challenges. The event aimed to promote collaborative problem-solving, technical proficiency, and entrepreneurial thinking among participants.



Summary: The two-day Hackathon 2023 challenged participants to develop innovative solutions to real-world problems in a high-energy coding marathon. Teams competed in coding sprints, presented


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their projects, and received mentorship from industry experts. Top teams won a cash prize of ₹50,000 and a Startup Booster Program worth ₹1,00,000 to support their entrepreneurial journey. The event concluded with an award ceremony and networking session, providing participants valuable exposure and opportunities for future collaboration.

Outcome: The hackathon successfully achieved its goals, providing participants with:

- Enhanced coding and problem-solving skills through hands-on experience in a competitive setting.
- Practical exposure to real-world problem statements and project development.
- Opportunities for mentorship and guidance from industry experts.
- Recognition and support for innovative ideas with cash prizes and startup assistance.
- Networking opportunities to engage with peers and professionals in the tech and startup ecosystem.



Divyanshu
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Annexure No. 55

Event: Workshop on Women Empowerment

Date & Time: 22ND December 2022 to 5TH January 2025 (15Days)

Sponsor: Organized by Tula's Institute, Dehradun, in association with ICT Academy, under the aegis of the Centre for Women Empowerment.

Participants: The workshop was attended by female students and staff members of Tula's Institute, keen on gaining new technical skills and enhancing their professional competencies.

Objective: The primary objective was to empower women through skill development in Microsoft Power BI, enabling participants to utilize data analytics for better decision-making and career advancement. The workshop aimed to promote digital literacy and build confidence among participants by providing practical exposure to a powerful business intelligence tool.



Summary: The 15-day workshop focused on building foundational and advanced skills in Microsoft Power BI. The sessions, led by Mr. Sarthak Pathak, provided participants with hands-on training in data visualization, report generation, and interactive dashboards. Participants learned to leverage Power BI for

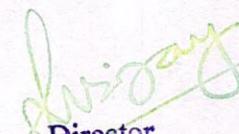
Divyanshu
Director
Tula's Institute, Dehradun

data analysis, which included importing datasets, transforming data, creating visualizations, and sharing insights.

The interactive training format ensured that participants could implement their learning through real-world scenarios and projects. The workshop concluded with feedback and a Q&A session, where participants discussed how to integrate the new skills into their academic and professional pursuits.

Outcome: The workshop achieved the following outcomes:

- Enhanced digital literacy and technical skills in data analytics.
- Proficiency in using Microsoft Power BI for data visualization and reporting.
- Confidence building among female participants by empowering them with in-demand skills.
- Practical knowledge applicable to academic projects and industry requirements.
- Increased awareness of how technology can support women's professional growth and decision-making.



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Annexure No. 56

Event: 3-Day Training Program on Hands-on MATLAB Programming

Date & Time: 20th – 22nd July 2023, 10:00 AM onwards

Sponsor: Organized by the Centre for Innovation Research and Entrepreneurship (CIRE) at Tula's Institute, Dehradun, in collaboration with MathWorks and DesignTech Systems Pvt. Ltd.

Participants: The training program was attended by faculty members, research scholars, and students interested in learning MATLAB programming and exploring its applications in engineering and research.

Objective: The primary objective was to provide participants with hands-on experience in MATLAB programming, covering fundamentals and advanced techniques. The program aimed to enhance participants' proficiency in using MATLAB for data analysis, simulation, and problem-solving.



Summary: The sessions were facilitated by Mr. Manoj Kumar (Sr. Application Engineer, DesignTech Systems Pvt. Ltd.) and Dr. Dhruv Chandel (Education Team, MathWorks). They provided comprehensive training on MATLAB basics, script development, and advanced functions. The program focused on practical exercises, enabling participants to implement MATLAB tools for numerical computations,

Dwijendra
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visualizations, and algorithm development. Real-world examples were used to demonstrate MATLAB's capabilities in engineering design and research applications. The interactive training sessions allowed participants to clarify doubts and gain deeper insights into using MATLAB effectively for their projects.

Outcome: The training program equipped participants with:

- Hands-on experience in MATLAB programming.
- Proficiency in script development and using MATLAB tools for engineering applications.
- Knowledge of advanced MATLAB functions for data analysis and visualization.
- Practical insights into applying MATLAB for research and problem-solving.
- Confidence to use MATLAB for academic and industrial projects.

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Annexure No. 48

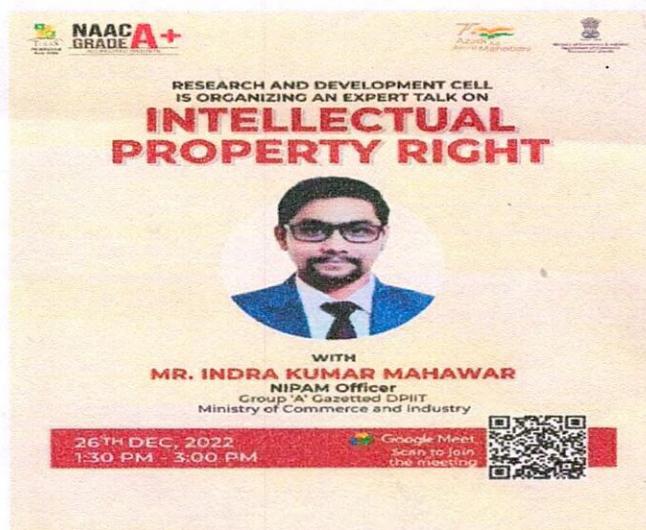
Event: Expert Talk on Intellectual Property Rights

Date & Time: 26th December 2022, 1:30 PM to 3:00 PM

Sponsor: Organized by the Research and Development Cell in collaboration with the Institution's Innovation Council (IIC) at Tula's Institute, Dehradun.

Participants: The session was attended by faculty members, research scholars, and students from various departments who were keen on understanding the significance of intellectual property rights in academia and industry.

Objective: The primary objective of the expert talk was to provide participants with a comprehensive understanding of intellectual property rights (IPR), their importance, and the process of protecting innovations. The session aimed to enhance awareness about IPR and its protection in India.



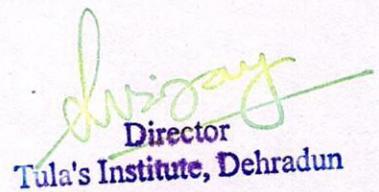
Summary: The expert talk by Mr. Indra Kumar Mahawar, NIPAM Officer at DPIIT, Ministry of Commerce and Industry, covered various aspects of intellectual property rights, including patents, trademarks, copyrights, and industrial designs. He explained the filing procedures and highlighted the importance of protecting intellectual creations to encourage innovation. The session also addressed legal


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frameworks and strategies for commercializing innovations, followed by an interactive Q&A where participants discussed practical challenges in IPR and its future in the digital age.

Outcome:

- The session provided the following key takeaways for the participants:
- A thorough understanding of the various categories of intellectual property and their legal protections.
- Insights into the process of filing and managing intellectual property rights at national and international levels.
- Awareness of the role of intellectual property in research and development activities.
- Practical knowledge on how to safeguard and commercialize academic and industrial innovations.
- Increased confidence in navigating the complexities of IPR and understanding its significance in the modern innovation ecosystem.



Dr. Divyanshu Singh
Director
Tula's Institute, Dehradun