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SPECTRUM

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IJARIIT SPECTRUM

Spectrum is an e-magazine with the comprehensive collection of all the papers that have been published in our journal over the last two months — Volume 6, Issue 6 (November-December, 2020). This edition brings together 62 papers by 145 authors from 68 institutions. Each entry links to the abstract and the full paper.

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ABSTRACTS

1 Analysis of inequality – Adjusted human development index in relation to Nepal

Paper ID V6I6-1136 · Pages 1-5 · Development Economics

Anurag Mundara, Student, Pathways World School Aravali, Gangani, Haryana

This paper is exploratory in nature and attempts to present a detailed analysis of the Inequality-adjusted Human Development Index (IHDI) of Nepal since its introduction in 2010 to 2018. By breaking down each dimension of the IHDI and evaluating trends in IHDI in relation to the HDI both qualitatively and quantitatively, the study has utilised secondary data published by the UNDP through multiple tables and graphs.

Keywords: HDI, UNDP, IHDI, Nepal, Development, Life Expectancy Index, Education Index, Income Index, Inequality-Adjusted Life Expectancy Index, Inequality-Adjusted Education Index, Inequality-Adjusted Income Index, Government Policy, Medium Human Development Category, Analysis

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2 Impact of alcohol tax on externalities associated with it

Paper ID V6I6-1139 · Pages 6-11 · Microeconomics

Anurag Mundara, Student, Pathways World School Aravali, Gangani, Haryana

Alcohol industry in India stands third largest in the world with value of $35 billion, making it a significant contributor to the Indian economy.1 Kerala tops the charts in the level of consumption of liquor as it has the highest per capita consumption of alcohol in the country. Alcohol is a demerit good as its consumption results in socially undesirable outcomes in the form of externalities in terms of increased prevalence of road accidents, health care costs and accounting for about 69% of all crimes in Kerala. However, the liquor industry makes significant contributions to the Keralan economy in the form of tax revenue and employment. In order to limit the economic costs of alcohol consumption, the Keralan government proposed an upsurge in the indirect taxation of alcohol. However, this affects the street price by a little margin as other taxes such as the sales tax have been removed. Regardless of the prohibitive cess on liquor and introduction of dry days and the continuous increase in the taxes have interestingly enough, showcased an upward spiral trend in the sale of liquor. Indirect taxation not only serves as a catalyst to generate revenue to aid government's macroeconomic objectives but to also curb the negative consumption externalities. Therefore, the research question that stems from the aforementioned topic is: "To what extent has the increase in liquor tax in Kerala impacted the externalities associated with it since 2018?"

Keywords: Kerala, IMFL, Beer, Tax , Alcohol, Externalities, Negative Consumption Externalities, Positive Externalities, Price Elasticity of Demand, RMTR, Costs, Revenue, Health Care, Floods, Tax Revenue

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3 Optimization of material handling trolley using finite element analysis

Paper ID V6I6-1141 · Pages 12-19 · Mechanical Engineering

Ganesh D. Chavan, Student, G H Raisoni College of Engineering and Management, Pune, Maharashtra

The purpose of this work is to develop the material handling trolleys using finite element analysis and validate the design. The main area of focus in this project is to reduce the weight and cost of the trolleys by designing a new development design. The existing trolley designed by the industry uses heavy trolleys without considering loading conditions which in turn leads to a higher factor of safety increasing the overall cost of the Trolleys. This work presents a finite element analysis of a procedure to model and simulate trolleys used in the automotive parts supplier industry, especially in car component manufacturing companies for shifting or transporting the different parts. In this study, the design is carried out using CATIA software, Pre-processing work such as meshing and setting static loading condition has been set up in Hyper mesh and static analysis of the trolley is performed using finite element software ABAQUS. The Von-Mises yield principle has been used to determine the distribution of stress intensity. The proposed model has better results consider the existing model of the trolley.

Keywords: FEA, Material Handling Trolleys, Static Analysis, Von-Mises Stresses.

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4 Awareness about teeth whitening among young adults in south Indian population

Paper ID V6I6-1140 · Pages 20-24 · Aesthetic Dentistry

Vinita Mary A., Professor, Thai Moogambigai Dental College and Hospital, Chennai, Tamil Nadu
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Bhavani M., Student, Thai Moogambigai Dental College and Hospital, Chennai, Tamil Nadu
Blessy Melba D., Student, Thai Moogambigai Dental College and Hospital, Chennai, Tamil Nadu
Deepiha D., Student, Thai Moogambigai Dental College and Hospital, Chennai, Tamil Nadu
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Dental esthetics affects how people value themselves and perceived by the society, and this may also impact the oral health-related quality of life. Peer groups play a key role in adult emotional stability and they place a high value on appearance under peer influences. The aim of this study is to explore the knowledge and awareness of teeth whitening among young adults. A cross sectional study was conducted among young adults using self administered questionnaire to evaluate awareness, attitude and perception of teeth whitening. Data was collected through google forms and statistical analysis was done. It was observed that 73.4% were aware of teeth whitening, 62.1% stated that teeth color did influence their social life and confidence. About 68.4% advocated that smoking leads to staining of teeth. Around 67.3% denied that brushing teeth for longer duration and harder cannot whiten the teeth. Regarding teeth whitening, 68.6% preferred to consult a dentist, 31.4% of participants preferred home remedy over consulting dentist. It was concluded that dental esthetics has a greater impact on psychological status. Brushing teeth and attitude towards consulting dentist shows that participants have good knowledge and awareness about tooth color. The dental advertisement also plays a significant role in tooth whitening. It helps the dentist to assess the patient’s desires and increase the

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treatment success rate.

Keywords: Esthetics, Teeth Whitening, Brushing Teeth, Self-Confidence

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5 A prototype for transferring data using visible light

Paper ID V6I6-1138 · Pages 25-27 · Electronics And Communication Engineering

S. Laxman, Student, Dr. B. R. Ambedkar Institute of Technology, Port Blair, Andaman and Nicobar

This paper describes the use of light as a medium for bi-directional communication between two systems. It demonstrates transmission and reception of data between two systems bi-directionally that do not have any physical communication between them. This paper envisions a future where data for laptops, smart phones, and tablets is transmitted through the light in a room. It establishes a way for creating a communication medium that can transfer data with much higher speeds as compared to current wireless networks. The methodology used is the conversion of SERIAL-to-TTL (Transistor-Transistor-Logic), and vice versa. It takes input from the system (transmitter) and gives output in the form of TTL logic signals that ultimately drives the LED circuit, enabling it to glow, but actually it is transmitting data.

Keywords: Led, Phototransistor, Visible Light Communication, Line of Sight.

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6 Impact of COVID-19 pandemic on unorganized sector and its effect on the economy

Paper ID V6I6-1145 · Pages 28-32 · Socio-economic

Dr. Sharmila S., Professor, Seshadripuram College, Bengaluru, Karnataka

ABSTRACT Unorganized Sectors are being supported by the Government through several schemes as they play a crucial role in boosting the country’s economy. These Sectors are full of high potential as employment generators especially in the rural India and also perform a number of crucial functions that support development and poverty alleviation. The Government Agencies have been playing a key role in promoting unorganized sectors across the country through implementation of various schemes and policies ranging from providing collateral-free credit and access to incubation centres to providing better equipment and employment opportunities for entrepreneurs. The inherent advantages of these unorganized sectors are optimal utilization of local resources, mobilization of investments on a large scale, creation of job opportunity, prevention of distress rural-urban migration and reduction of disparity across sectors and regions. The Covid-19 pandemic and its unprecedented danger have forced the entire world to announce nationwide lockdown affecting unorganized sector adversely. This pandemic affected workers of unorganized sectors, left them jobless and rapidly increased the unemployment rate across the country. To address financial difficulties faced by unorganized sector, a package of Rs1,610 crores will be released by the Government as Covid-19 financial package

Keywords: Poverty alleviation, Collateral-Free, Optimal, Pandemic, Unemployment, Disparity

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7 Analysis of user preferred youtube videos

Paper ID V6I6-1143 · Pages 33-35 · Big Data Analytics

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In current era of big data, a wide variety of high-volume data having different veracity can be easily collected or generated at a high velocity. Social network data, as well as audio and video in social media and social networking sites, are examples of big data. Embedded in these big data are valuable information and knowledge. Previously unknown and useful information and knowledge from these big data, some big data solutions are in demand. In this project, we explore the big data for detecting various results from YouTube video data so that the user- preferred YouTube viewing can be recognized and the analysis of user- preferred YouTube videos can then be enhanced.

Keywords: Big Data , You tube, Analysis, Pyspark

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8 Impact of student politics on democracy

Paper ID V6I6-1159 · Pages 36-39 · Global Politics

Anurag Mundara, Student, Pathways World School Aravali Gangani, Haryana

Student politics provides a platform for students that allow them to raise their voices and concern over issues that affect their body as a whole, thereby encouraging the engagement in nation building process. Through student political organisations, students not just represent their rights and identities at a local level but also at a national level. Majorly, these political organisations consists of student members who are associated with student politics, often have background political connection and inclination towards politics mostly due to their parents, peer groups etc. Student activism has played an integral role in one of the most significant events in the history such as the movement of freedom, civil right etc. Even though there exists perceptions of student politics having a negative influence on the system, there are several shreds of evidence in the world that suggest that it drives agents of positive social and political change in many nations.

Keywords: Student Politics, Democracy, NGO, Government Institutions, Political Leaders, Primary Research, Secondary Research, Ministers, Autonomy, Rights, Opportunities, 21st-Century Skills, Student Unity, Education, Nation-Building, Opinions

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9 Impact of Covid-19 on the Indian tourism industry

Paper ID V6I6-1156 · Pages 40-43 · Research Methodology

Aman Vashisht, Student, Symbiosis Center for Management Studies, Pune, Maharashtra
Tanay D. Munshi, Student, Symbiosis Center for Management Studies, Pune, Maharashtra
Rachel Grace Mathai, Student, SCMS, Pune

This Research paper shows the impact of COVID-19 pandemic on the tourism industry of India. To what extent the tourism industry got affected, the losses it faced due to the pandemic and a comparison with the statistics of the tourism industry with the last two years. Along with that this research paper also forms a relation between the COVID-19 pandemic and the Indian tourism industry. This research paper mainly focuses on two important aspects of the Indian tourism industry, foreign tourist arrivals & Foreign exchange earnings, which are both equally important to the economy of the country as a whole

Keywords: Indian Tourism Industry, Foreign Tourist Arrivals, Foreign Exchange Earnings, Covid-19 Impact

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10 Analysis of the Venezuelan crisis

Paper ID V6I6-1160 · Pages 44-47 · Global Politics

Anurag Mundara, Student, Pathways World School Aravali, Gangani, Haryana

Hundreds Detained, Torture, Sexual Violence, Military Jurisdiction are the words that come to mind when one thinks of the Venezuelan Crisis. However, these are more than just words; these are strategies employed to legitimize actions undertaken by the Venezuelan Government and prosecute citizens and suppress protests. The foundation of the rising public protests was laid by rising inflation and shortages of medical and food supplies due to lack of government provision.

Keywords: Venezuelan Crisis, Violation of Human Rights, Hyperinflation, Suppression, Government, Shortage, Refugees, Health, Economy, Protests, Violence, Military Jurisdiction

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11 “Artificial Intelligence”- A futuristic vision

Paper ID V6I6-1163 · Pages 48-50 · Technology

Abirami Shanmugam, Student, Kalaignar Karunanidhi Institute of Technology, Coimbatore, Tamil Nadu

Technology is shaping itself in and out to satisfy the needs and wants of people and eventually win the global markets.Most of the countries and its companies are competently emerging withnewer scientific concepts to bring in the high degrees of constructive and smart technology one of which is the "Artificial Intelligence "This leads to newer evolution of interfaces ,thereby also contribute to the better handling of information and conversion of information into knowledge.

Keywords: Technology,Robots,Metrics,Human focus,AI powered machine,human centered experience,smart products,black-box,expectations,cogito,collabrative AI

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12 And the airline is… (Airline Satisfaction Review)

Paper ID V6I6-1142 · Pages 51-54 · Big Data

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Like how ratings are crucial in a hotel booking process, they are equally important in the airline industry. The primary reason for such ratings is the expectation of service for the amount paid (since being the most expensive way of transport). A rating can boost a newbie up or pull a giant down. Again, it is all due to the service. Identifying the reasons and where to correct them is an example of a business model. The key objectives of this problem would be (a)To identify if changes are necessary to implement based on customer feedback. (b)To measure the modifications and minimize overall dissatisfaction. (c)Develop corresponding visualizations. And (d)To identify the satisfaction of a customer based on their feedback by fitting the appropriate model. In real-time, this study can be used for reviewing the performance of the airline's front-end operations. With machine learning techniques, the user can find the best fit model. Furthermore, the financial data, it can also be used to alter the existing model to bring better expenditure versus profit per seat. The final model should also be able to predict satisfaction based on ratings and analyse the ways to minimize dissatisfaction.

Keywords: Visualization, Airline Industry, Rating, Business Model

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13 Speech Recognition for Crime Analysis

Paper ID V6I6-1153 · Pages 55-57 · Human Computer Interaction

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Human-Computer Interaction (HCI) is a multidisciplinary field of study focusing on the design of computer technology and, in particular, the interaction between humans (the users) and computers. While initially concerned with computers, HCI has since expanded to cover almost all forms of information technology design. We aim to take this further in the field of crime analysis by developing a system for speech recognition. This will be a huge contribution to the crime department where speech recognition will not only help them to handle large amount of data but also in checking the criminal records faster. This is a modern and advanced technique where with the help of voice recognition test file will be compared with database files.

Keywords: Speech Recognition, Correlation, noise

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14 Smart image enhancement technique by removal of undesirable objects/background from the image

Paper ID V6I6-1161 · Pages 58-65 · Image Processing

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The devil is always in your picture. You always miss the best shot and that particular tiny object in your photo can worsen the entire composition and result in something opposite from what you hoped for. The proposed AI based image enhancement model will first detect unwanted objects/background based on the training of large set of already edited images by users then intelligently reconstructs the image without those objects. We have prepared a dataset with distracting elements in the images and used it to train our predictor model which predicts the distracting regions and thereafter used image-inpainting to remove those areas which results in a standalone system for distractor removal with no user input. In the proposed method of this paper, the image is first segmented using Convolutional networks for semantic segmentations and then each segment is classified in terms of the score of distractors on the basis of various features which almost covers all types of distractors in an image. Our main focus was to collect the data which contains all kinds of distractors and then deciding the features which classify an object as a distractor in an image. Detection and removal of distracting regions helps to enhance the beauty and visual quality of the image which can be fulfilled by using our model.

Keywords: Image Segmentation, Visual Distractor, Salient Regions, Visual Attention, Image Enhancement, Random Forest

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15 Artificial intelligence and robotics: The enhanced paediatric dentist

Paper ID V6I6-1150 · Pages 66-69 · Robotics

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Automation would be an inevitable course of manual work facing every field in the future in view of technological advancements. The mental and physical strain incumbent on the paediatric dentist due to long hours of managing the child and the unwavering focus that the trade demands may compromise the quality of service. A system capable of physical manipulation that is powered by an intelligent program would be the ideal assistant to the dentist for carrying out technique sensitive procedures. Data management, diagnosis, treatment planning and student education can transcend to a new plane of execution with Artificial Intelligence and Robot enhanced Paediatric Dentist at the epicentre. Among the many hurdles faced by the idea of turning robotics in dentistry into a tangible reality is the extreme cost and bureaucratic resistance.

Keywords: Artificial Intelligence, Robotics, Nanorobotics, Paediatric Dentistry

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16 Optimal load forecasting by hybrid the artificial neural network and firefly algorithm

Paper ID V6I6-1170 · Pages 70-73 · Electrical Engineering

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In the smart grid, load forecasting algorithms used for estimating the electricity demand based on historical data. It helps in generating accurate electricity and overcoming the two challenges such as a shortage of electricity and excess generation cost. In the literature, various traditional load forecasting algorithms proposed to predict the electricity demand but never the accurate results. Therefore, advanced algorithms come into the picture such as artificial intelligence algorithms. In this paper, we have hybrid the Artificial Neural Network (ANN) and firefly algorithm for load prediction. Initially, the ANN algorithm is trained based on the historical data then applied to it. After that, the firefly algorithm is used for searching for the optimal learning rate for ANN. The experimental results are performed in the MATLAB 2015a. We have measured various performance analysis parameters and compared with the existing results. From the study, we found that the proposed algorithm gives better accuracy as compared to the existing algorithms

Keywords: Load Forecasting, Artificial Neural Network, Firefly Algorithm

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17 Identification of strategic networks in entrepreneurial networking process: A case study of influencer entrepreneur in fashion startups, Thailand

Paper ID V6I6-1177 · Pages 74-78 · Creative Industries Design

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From social media influencers (SMIs) who gain social capital in the form of follower fan base on social media platforms, developing further career opportunities into a successful entrepreneur. This significant phenomenon has seen the emergence of influencer entrepreneurs utilizing social media platforms to disclose their own personal products or services. Underlying this growing trend is the dynamic interplay of networks and the firm activities. In order to better understand in specify research area, the importance of network dimensions have been conceptualized in start up process. To explore entrepreneurial networking process in which driving influencer entrepreneur into entrepreneurial success. The key implication of the research is the strategic network for achieving entrepreneurial success in firm performance and superior network outcomes. A qualitative research approach enabled triangulated data investigation with both primary and secondary sources to facilitated the emergence of relevant theme; Procurement and supplier relations, research design and development of product, human resource planning and training, management technology and management system , warehouse and logistics distribution, marketing intelligence and marketing (Fashion retailing, marketing and merchandising) and after-sale service and cash collections. The key strategies in fashion start up networking process influencer entrepreneur that uncovered in the study can thereby leveraging chances to turn start ups into success and sustainability and enhanced some network dimensions on how to become more

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competitive and successful in the future.

Keywords: Strategic Network, Entrepreneurial Networking Process, Influencer Entrepreneur

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18 Natural scene image classification using CNN

Paper ID V6I6-1184 · Pages 79-86 · Engineering

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Research mainly focused on CNN model for feature extraction and classification of Images. Convolutional Neural Network (CNN) has demonstrated promising performance in image classification tasks. In this project, the algorithm is used to classify the images or natural scenes into 6 classes. This model at last predicts the accuracy or probabilities of different class labels and this probability is used for the predicting class at the end. This dataset is used for both training and testing purpose. It provides the accuracy rate 84.93%. Images with combination of two scenes creates and ambiguity hence it is difficult for model to classify. Therefore, it leads to failure in algorithm sometimes. Images used in the training purpose are RGB images. The computational time for processing these images is relatively high as compare to other normal images. Stacking the model with more layers and training the network with more image data using clusters of GPUs provide more accurate results of classification of images.

Keywords: Image Classification, CNN, RGB Image

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19 The impact of state migrant policies on the standards of living of migrant-labourers in India during COVID-19

Paper ID V6I6-1186 · Pages 87-93 · Public Policy

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This research paper elucidates the nature of the migrant policies of the states of Maharashtra and Uttar Pradesh in India, and the role they have played in moulding migration patterns in the past. Furthermore, the paper aims to investigate the effectiveness of these policies in protecting the standards of living of migrant labourers, measured primarily based on their access to basic goods and services which is indicative of their socio-economic security. Lastly, the paper provides future recommendations for policy adaptations based on real life examples to enhance the condition of the migrant labourers of each state.

Keywords: Inter-State, Migration, Maharashtra, Uttar Pradesh, Standards of Living, Migrant, Labourers, India, Covid-19

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20 Diabetes detection using various model comparisons

Paper ID V6I6-1189 · Pages 94-101 · Engineering

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Diabetes is a serious disease in which your body cannot properly control the amount of sugar in your blood because it does not have enough insulin. Diabetes is the most common medical complication during pregnancy, representing 3.3% of all live births. In this, we have a dataset of approximately 1000 people. The decision tree is obtained from Python using which we can predict whether the people present in the dataset suffer from diabetes or not. Diabetes is a disease in which your blood glucose, or blood sugar, levels are too high. When you are pregnant, high blood sugar levels are not good for the baby. Classification of the probability of diabetes is done based on various factors. The main aim of this work is the detection of Diabetes Mellitus using different models and classifies the data as diabetic and non-diabetic. Our health care systems are rich in information but they are poor in knowledge so there is a large need of having techniques and tools for extracting the information from the huge data set so that medical diagnosis can be done. Data Mining is a process of semi-automatically analyzing large databases to find useful patterns. Data mining attempts to discover rules and patterns from data as it deals with large volumes of data, stored primarily on disk. Data mining mainly deals with knowledge discovery in databases.

Keywords: Diabetes, KNN, SVM, Logistic Regression, Decision Tree

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21 Impact of government finance scheme on increase in NPAs of banks – A review

Paper ID V6I6-1191 · Pages 102-106 · Finance

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The financial structure of the country plays an important role in the development of the country. It saving and investment of all classes in the economy to create wealth. As banks earn money on the basis of interest provide on the loan amount and other schemes. As money lent by the bank have to be recover after particular time period of time. Sadly, sometimes it not goes by the path defined. Many borrowers fail to return money back to the bank in the form of interest on loan taken. So eventually it became non- performing asset on bank and it creates negative impact on the bank. The purpose of this study is to determine the pattern in growth of gross NPAs in banking industry as well as to determine which measures should be taken to save an asset from becoming NPAs. This is an exploratory study which is conducted by involving the data provided by government website data.gov.in. This study identifies the fact that impact of government finance schemes MUDRA on rising of NPAs of banking industry. It also gives solution on how banks should approach towards lending loans under such schemes such that it prevents the asset from becoming NPA in future.

Keywords: Non- Performing Assets (NPAs), Lending Loan, Negative Impact on Economy, Mudra (Micro Units Development

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and Refinance Agency)

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22 Execution of gesture control in automobiles

Paper ID V6I6-1195 · Pages 107-112 · Engineering

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Margin of the industrial robots are autonomous and are necessary to manage with high accuracy and speed. Several appliances are needed to be semi-autonomous or human operated robots. Human movements comprise a range of motion conveyed by the body which includes facial expressions and hand movements. The objective of the plan is to create a human machine line used for controlling car and to make the device simple as well as cheap so that it can be produced and used for number of functions. In this case study of Gesture control, components required for prototype has been bought and prototype for rough dimensions has been made and finally testing for errors and reworks has been made for several times. This device can perform various tasks because of Arduino Nano which is implanted on the Transmitter section. A main lead of the system is that it offers real time palm gesture recognition, leading to an efficient and natural way of controlling vehicle. The present appliance however seems to be achievable and more user friendly in contrast to the traditional input modes but is somewhat less robust in recognition phase. So in future the work can be done on upgrading each of the technology and new concepts.

Keywords: Gesture, Automobile, Implementation

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23 Influence of practice in teaching on emotional adjustment of teacher trainees

Paper ID V6I6-1187 · Pages 113-116 · Teacher Education

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Teaching being both a skill and an art, was found to be meanable to transmission in the early years of the 19th century, if for ages, teacher education perception, was a caste or family affairs it could not afford to remain so after education became a mass movement. Mass literacy goals as well as the emergence of technology transformed the very character of teacher training and its philosophy. Practice in teaching occupies a key position in the programme of teacher education. It is a culminating experience in teacher preparation. It provides opportunity to beginning teachers to become socialized into the profession.

Keywords: Independent , Dependent Variable and Background Variable

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24 Antiviral activity of plant and herbal extracts against air borne viruses

Paper ID V6I6-1196 · Pages 117-130 · Biotechnology Engineering

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Airborne diseases are becoming a great threat to human kind due to its highly infectious mode of transmission. Medicinal plants have been traditionally used to cure many pathogenic diseases including diseases caused by viruses. Plants contain bioactive compounds which are capable of inhibiting the growth of most pathogens and also show antiviral activity. Since these plants are of natural origin, these biochemicals possess minimum toxicity and their possibility of causing allergies to an individual is also low. Biochemicals showing antiviral properties have been found in various parts of the plants like roots, stem, leaves, flowers, etc. This review focuses on the antiviral properties of plants against air borne viruses - Influenza, Rhino virus, SARS, HSV and RSV, which mainly affect the respiratory tract.

Keywords: Airborne Diseases, Active Components, Herbs, Antiviral Agents

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25 Laparoscopic splenectomy and contribution of steps towards optimising standard practice

Paper ID V6I6-1205 · Pages 131-148 · Medical

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Laparoscopic Splenectomy has established itself as the gold standard for benign haematological conditions requiring surgery. Its role in the management of difficult spleens is expanding. The objectives of this study were to critically evaluate the various parameters in laparoscopic splenectomy in the Institution as compared with international standards and identify areas of improvement and implement changes that are cost effective, evidence based, technically sound and can be accepted into standard practice.

Keywords: Splenectomy, ITP, Laparoscopic

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26 Text classification of BBC news articles and text summarization using text rank

Paper ID V6I6-1206 · Pages 149-153 · Computer Science

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Automatic text classification is a crucial method to manage and process vast amounts of textual data in the

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digital form. This paper illustrates the text classification and text summarization using machine learning techniques and algorithms. An important part of this task is that the input data is in the form of natural language so we must do some preliminary analysis to transform the documents into a uniform structure so that we can train our data using numerical representations. Text Summarization is the process of obtaining the significant information from a text document. Information is extracted from the text document and the summarized report is created and displayed to the user.

Keywords: Text rank, Text Summarization, BBC, BBC News, Text Classification, Machine Learning, Naive Bayes, Logistic Regression, SVM, Random Forest Classifier, Page rank,

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27 Fake face creation using generative adversarial network

Paper ID V6I6-1207 · Pages 154-156 · Artificial Intelligence

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Presently Nowadays numerous organizations are putting their cash for ads primarily in type of boards. For announcements numerous organizations are putting cash in models. To limit we can make the phony face utilizing Artificial Intelligence. The Generative Adversarial Network (GAN) yields bleeding edge achieves data driven certifiable generative picture illustrating. GANs can be utilized to create a photograph practical picture from a low measurement arbitrary noise. We reveal and examine its brand name antiquated rarities, propose some switches in both model planning and preparing procedures to address them. Specifically, we update the generator standardization, and regularize generator to connect with unfathomable adornment in the orchestrating from slow codes to pictures. This makes it conceivable to dependably ascribe a made picture to a specific affiliation. We other than envision how well the generator uses its yield objective, and recognize a breaking point issue, prodding us to plan greater models for additional quality improvements. When all is said in done, our improved model renames the top tier in unequivocal picture showing, both with respect to existing course quality estimations similarly as observed picture quality.

Keywords: Fake Face, Generative Adversarial Network, GAN

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28 Nutritional evaluation of some selected fish specimens in (three division) Lagos state

Paper ID V6I6-1179 · Pages 157-161 · Environmental

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There is an information gap in the knowledge about fishes consumed in Lagos state especially as it relates to the nutritional values of these fish species. In this study, the nutritional evaluation of selected fish specimens Croaker (Pseudotolithus elongates), Tilapia (Oreochromis aureus), and Crab (Callinectes sapidus) were carried out. Samples were purchased from selected markets in Ikorodu, Badagry, and Lagos Island, all in Lagos State. Proximate analysis (Protein, Fat, and Ash) was determined. Protein determination was done using the micro Kjeldahl method with the mean values ranging between 19.90±0.34% and 20.60±0.78% for Pseudotolithus elongatus, 29.40±0.4% and 30.52±0.5% for Callinectes sapidus, 18.50±0.6% and 20.80±0.00% Oreochromis aureus. Ash content was carried out and the mean values ranged from 1.20±0.10% and 1.13±0.10% for Pseudotolithus elongates, 1.20±0.00% and 1.30±0.00% for Oreochromis aureus, from 8.90±0.10% and 10.10± 0.20% for Callinectes sapidus. Crude fat was carried out using the soxhlet extraction method and the values determined gravimetrically and were found to range between 1.39±0.00% and 1.50±0.02%. for Pseudotolithus elongates, 1.10±0.00% and1.3±0.10% for Oreochromis aureus, 0.5±0.04% and 0.9±0.03% for Callinectes sapidus. Vitamins A, D, B3, B6, and B 12 were determined using the HPLC.

Keywords: Crab, Croaker, Tilapia, Proximate, Vitamins

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29 Intend to manufacture of Agro planting machine suitable for multipurpose operations

Paper ID V6I6-1215 · Pages 162-170 · Mechanical Engineering

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India is being an agricultural country and used to import them in large quantities for fulfilling the needs of our people from many countries. The reasons for low production and productivity were unavailability of machines in the cultivation field. In India, most of the farming work is done manually when compared with foreign countries. There were no machines for sowing the seeds and it is done by manpower only. The cost spent on manpower was more and the speed of the operation was very less. When small farmers with minimal physical resources or financial assets attempt to improve their productivity, they have a limited choice. The available planting machines are imported from foreign countries. The imported machines are not only bulk in size but also costing around lakhs. Also planting manually consumes a lot of time which can be saved by automating the process. In this project, an attempt has been made to the design and fabrication of multi agro machine exclusively for

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small farmers at low cost. The machine is made versatile such that very simple components are employed in the fabrication and this is the reason for the low cost of the machine. The main objective of our project is to carry out the seed threshing operation, seed sowing, and fertile spraying simultaneously. The modelled components are fabricated and assembled together to form a complete machine.

Keywords: Universal lathe, Milling machine, Grinding machine, Power saw, Drill machine vi) Electric arc welding machine

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30 Hiding a text message in an image using Vigenere cipher and LSB steganography

Paper ID V6I6-1212 · Pages 171-174 · Computer Science Engineering

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Steganography has arisen throughout the years as a basic and conductive option for advanced information transmission. The craft of mystery contact is steganography. The fundamental point is to send the data from sender to objective and nobody should see it. There are numerous applications used to perform steganography. In the current work, the message which is to be covered up is encoded utilizing vigenere figure calculation and afterward utilizing LSB steganography the message is put away in a picture. Furthermore, to get back the message put away we should utilize LSB steganography and afterward we should utilize vigenere figure unscrambling calculation to get genuine message.

Keywords: LSB, Vigenere Cipher, LSB Steganography

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31 Examining the effect of the reservation quota on the socio-economic integration for OBC into modern Indian society

Paper ID V6I6-1176 · Pages 175-182 · Sociology

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The reservation quota allocated for the OBC has always been a polarising topic, one that has incited discussions on social equality, economic independence, and marginalization. While some groups argue that the Other Backward Classes have been sidelined throughout history and need to be compensated, the counter-argument made is that the pendulum has swung too far and the compensations outweigh the marginalization. This research paper aims to seek justification for the quota and assess if this reservation quota is proportional to the

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social inequalities that weigh against the OBC community. It will study the educational, economic, the social standpoint of the OBC as well as the technical nitty-gritties of the quota allocated. This paper has been inspired by the growing volatile discussions on said topic that have acted as a gateway to a range of other essential topics. As young citizens of an India at the precipice of social unrest, we feel that the need to analyze and assess our country's attempts at inclusivity is imperative. Moreover, we want this research to act as a base for our understanding of the OBC, allowing us to form independent beliefs and judgements and giving us the academic standpoint to make concrete arguments.

Keywords: Socio-Economic, OBC, Caste, Reservation

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32 Changing role of financial managers in corporate acquisition – A study

Paper ID V6I6-1219 · Pages 183-186 · Management

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The secret of successful acquisition lie in substantial amount of cooperation of the financial manager which include both financial and non-financial terms and will involve great deal of effort in various aspects of the acquiring company. Financial manager plays a vital role in acquisition of any company. The aim of the study is to know the role of the financial manager in acquisition and the extent to which he is involved in materializing the deal. The study is based on review of literature done from various sources to obtain the knowledge of acquisition of a firm to achieve growth and increase its market share. Most of the data was collected using secondary means through library research. After thorough analysis of the process, analysis was done. Finally, conclusions were emerged based on the analysis.

Keywords: Finance Manager, Acquisition, Corporate, Management

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33 Applications of quantum computing in IT security

Paper ID V6I6-1224 · Pages 187-195 · Computer Science & Physics

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Observing the developments in the quantum computing, our current encryption-decryption systems such as the RSA are insubstantial. Therefore, to maintain the security and protection of data, quantum cryptography through the understanding of quantum key distribution is the future of secured user-data.

Keywords: Quantum Computing, Cryptography, Quantum Key Distribution, Shor's Algorithm, Encryption, Decryption, Logic Gates, Boolean Tables, Qubit, Quantum Gates.

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34 A study on current diagnostic approaches to Covid-19

Paper ID V6I6-1247 · Pages 196-201 · Biotechnology

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The unanticipated outbreak of the novel coronavirus later identified as Severe Acute Respiratory Syndrome Coronavirus 2(SARS-CoV-2) has rendered the world speechless. After only two and a half months since the first case was reported in the Wuhan city of China, the WHO declared the coronavirus disease a pandemic. So far the virus has covered all 196 countries infecting millions. Scientists all over the world are putting in all their resources to formulate a vaccine to put an end to this pandemic. Meanwhile, prevention remains the only option. It is necessary to contain the disease to slow down its spread rate and for that fast and accurate diagnosis is vital. This review summarizes the current approaches for the diagnosis of the coronavirus disease. They are categorized based on their target molecule (RNA, antigens, or antibodies). We have also shed light on some newly emerging rapid testing techniques using chest scans and biosensors for high specificity to get more accurate results. The use of any one of them depends upon the severity of the case. At times more than one technique is used to get a sure outcome. Culture-based virus detection in the lab act as the gold standard of accuracy for all of these techniques. The study of the underlying mechanism of these techniques also helps to understand the virulent behavior of the virus and its mode of action. Taking into consideration all of these approaches, each one has its limitation that is also discussed in this article.

Keywords: SARS-CoV-2, Covid-19, Molecular Testing, RT-PCR, Lamp, Serological Methods, ELISA, CRISPR

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35 Not information centers, but information generation centers

Paper ID V6I6-1226 · Pages 202-204 · Library And Information Science

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Academic libraries are in a changing stage. The academic community is more aware of the advanced digital technologies and they like to have the information retrieval using these advanced technologies. The library users are in need of the information new in style, new in fervor, and new in the method. The librarians in the digital environment have to be aware of online platforms, audio, and video uploading, databases, networking, and computer terminals. The influence that occurred due to this digital wave in the production, dissemination and retrieval of information may grasp the academic libraries to satisfy their information seekers in pursuing new modes of academic research and productivity. Digital libraries need very little physical space and they can occupy more information. Moreover that in the digital system the information seekers can rapidly and easily access books or any other information sources. The library has a specific role to create information using different types of media. Informative videos, slides, different types of arts and entertainment programs can be generated and uploaded using advanced digital technologies.

Keywords: Digital Platform, Information Generation, Digital Services, Library 3.0

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36 Newspaper reading habits among the primary school teachers in Mysore city, Karnataka

Paper ID V6I6-1234 · Pages 205-208 · Library And Information Science

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As a human being to know a new idea, innovative knowledge and learning process in day to day life and to learn continuously one of the paths are print and electronic versions of the newspaper. The study was conducted to investigates the newspaper reading habits among the primary school teachers in Mysore City, Karnataka. The study highlights the time spent in reading newspapers, the preference of language, the purpose of reading newspaper, the reason for reading newspaper, the preferred format of newspapers, newspapers source, and names of the newspaper preferred by the teachers. The interview and questionnaire method was used for the present study to collect the necessary data and the collected data has been analyzed and presented in the form of tables. The appropriate suggestions are provided for further improvements in newspaper reading habits of primary school teachers.

Keywords: Reading Habits, School Teachers, Newspaper, ISB, Mysore City

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37 Herbs and copper effect on physical properties of water

Paper ID V6I6-1237 · Pages 209-214 · Chemistry

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The present experiment is to study the effect of Tulasi, kusha, and copper on the Physical properties of water. In the study, commonly growing Tulasi (basil), and dry kusha, and the commercially available copper wire were used. Tulasi, kusha, and copper with a weight of 100 mg, 250 mg, and 500 mg were used. Materials were immersed in the glasses with 100 ml water and conductivity, turbidity, and pH of the water was measured at the time duration of immediate, two hours, four hours, six hours, and 24 hr. The Experiment conducted for five trials with three replications each and a total of 15 numbers. Kruskal-Wallis test was applied to assess changes between groups in all variables. Tulasi and copper decrease conductivity and turbidity of water irrespective of their weight while there was an exponential significant increase of these properties of water by kusha with the direct relation of its weight during all the duration of time. Tulasi, kusha, and copper decrease the pH of water for all the duration of time, and this decreasing trend is more by increasing their weight. Tulasi and copper decrease conductivity and turbidity of water while kusha increases these properties. All these materials decrease the pH of water during all the duration of time and this decreasing trend is more by increasing their weight.

Keywords: Tulasi, Kusha, Copper, Conductivity, Turbidity, pH

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38 Optimum design of a 100-meter high meteorological mast

Paper ID V6I6-1232 · Pages 215-222 · Civil Engineering

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Meteorological mast (met mast) is a tower-like structure in which wind resource measuring equipment is installed with an objective to estimate the wind power potential of the region of interest. Met mast can be either be a self-supporting tower or guy supported tower. In this study, the analysis and design of guyed steel lattice met mast of 100m height is carried out using STAAD. Pro software. The towers are modeled using base configuration triangular. As stated in IS 800-2007, in addition to the self-weight, the wind forces are predominant on the tower and guy wires. This study focuses on optimizing the met mast using the 'X' bracings, and Static analysis is performed by varying the sections. The usage of 'X' bracing for the structure has resulted in the significant structure's weight reduction. The appropriate levels of guy wire anchoring positions and the optimum guy wire diameter are chosen using preliminary analysis. Towers are modeled using different section shapes viz. tubular section and pipe section, and finally, an optimum section shape has arrived. The towers are analyzed under various load combinations as given in IS 875 (part 3:2015), IEC 61400-12-1 standards, Meanest standards, etc., and designed considering the provisions provided in IS 800-2007. The results are correlated and finally, an optimum design has arrived.

Keywords: Meteorological Mast, Guy Supported Towers, Lattice Towers, Bracing System, Optimization, Staad. Pro

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39 DNN Design for Object Detection in Airport Runway Operations

Paper ID V6I6-1241 · Pages 223-225 · Computer Science Engineering

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In this project, we attempted to solve the problem of object detection in airport runway environments by leveraging DNNs. The DNN model developed will be able to classify objects and also accurately localize objects of different classes. The major aspect here is the task of object detection is going to be considered as a regression problem to object bounding box masks. It would be a multi-scale inference procedure that can generate high-resolution object detection at a minimal cost. Here we were able to test our custom dataset on three object detection models. The models considered were (1) Faster-RCNN with VGG-16, (2) YOLOv3 with darknet53, and (3) SSD Inception V2(coco) from the TensorFlow object detection API. All the above algorithms were trained using the Tensorflow framework. The paper gives a brief comparison in the performance of the above-mentioned algorithms when trained and tested while keeping the main goal to be object detection in airport runways. We trained the YOLOv3 with darknet53 on our custom dataset and were able to obtain the classifier accuracy for the bounding boxes to be 74.00% which was the best of the three algorithms and has

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outperformed many previous works. The YOLOv3 could be considered a fast training algorithm when the model is trained on a powerful GPU and could play a major role in the field in terms of real-time object detection scenarios.

Keywords: Deep Neural Networks (DNN), Region-Based Convolutional Neural Network (RCNN), You Only Look Once(YOLOv3), Single Shot Detection (SSD), Faster-RCNN with VGG-16

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40 Design and fabrication of mono bike

Paper ID V6I6-1244 · Pages 226-232 · Mechanical Engineering

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When it comes to self-balancing personal transportation devices, it looks like the Solo wheel, Honda U3X, Uno, and Segway could all be in for a little competition. A monowheel/bike is a one-wheeled single-track vehicle similar to a unicycle. Instead of sitting above the wheel as in a unicycle, the rider sits either within the wheel or next to it. Usually driven by smaller wheels pressing against its inner rim. Most are single-passenger vehicles, though multi-passenger models have been built. The goal of this project is to design, analyze, and build a self-balancing single wheel bike for use as a transportation tool for someone traveling short distances. The project consists of a research phase in which similar systems have been investigated to help determine a sensible design approach and to establish appropriate design specifications; a design phase in which a model was designed with certain assumptions to meet the aforementioned specifications and a construction phase, in which the vehicle was built and tested. Monowheel looks like something out of a science fiction movie, but monowheel is, in fact, real, today, mono wheels are generally built but from the 1860s through to the 1930s, they were proposed for use as serious transportation. The idea may sound extreme, but the science behind monowheels is solid, at present, because of the surging consciousness of pollution and energy shortage crises, automobiles and motorcycles are no longer the best for transportation. As the price of petroleum products growing nowadays, there is a need for a cheaper and more efficient form of transport

Keywords: Construction of Monowheel, Specification, Luggage Carrying Capacity

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41 Integration of particle swarm optimization with an adaptive K-Nearest Neighbor for energy-efficient clustering in MANET

Paper ID V6I6-1248 · Pages 233-240 · Computer Networks

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The objective of the proposed work is to increase the lifetime of mobile ad hoc networks. The energy efficiency issue associated with the mobile Adhoc network is the critical factor for the success of any MANET system and hence we aim to develop an energy-efficient MANET system suitable for any kind of real environment. This paper addresses the nodes mobility issue based on a well-known particle swarm optimization (PSO) technique and as well designs a clustering algorithm based on an adaptive k-nearest neighbor algorithm. The cluster formation is achieved by considering a multi-objective fitness function of PSO and extensive experimentation in the simulated networked environment reveals the performance of the proposed method. In mobile Adhoc networks (MANET), optimal energy is one of the critical components and the random movement of mobile nodes within a region of interest made it more complex. The provision to have frequent changes in the topology of mobile nodes in addition to keeping the battery life for a longer duration is much more complex. The standard metrics such as network lifetime, the average number of clusters formed, energy usage, and packet transfer ratio are estimated to exhibit the performance of the proposed method. A comparative analysis is carried out with the recently proposed variant of particle swarm optimization based methods to reveal the accuracy and energy efficiency nature of the proposed method. The novelty of the proposed approach includes the exploration of an optimization algorithm integrating with a clustering strategy to increase the energy efficiency of the MANET thereby increasing the lifetime of the network. The proposed approach exhibit better accuracy and possess energy efficient even under scaled environment.

Keywords: Particle Swarm Optimization, K-Means Clustering, Mobile Adhoc Networks

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42 Computational modeling of transitional flow over NACA-0018 airfoil at low Reynolds Number

Paper ID V6I6-1255 · Pages 241-265 · Computational Fluid Dynamics

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The present study presents the computational modeling of transitional flow over NACA-0018 airfoil at low chord Reynolds number of 105 at various angles of attack ranging from 0o to 15o using two-dimensional Reynolds-averaged Navier-Stokes equations (RANS) combined with the Menter's (γ- R˜e _θ) transition model. Two different computational domain configurations were optimized in order to investigate the effect of the wind tunnel walls on the developed flow. The structured mesh technique was used for both domains in order to generate high-quality grids that obtain the turbulence model requirements. The numerically predicted results of the airfoil aerodynamic forces presented in terms of lift and drag coefficients as well as boundary layer predictions

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including surface pressure distribution, skin friction coefficient, mean velocity profiles, RMS velocity profiles, and the boundary layer displacement thickness were compared to the experimental data. Very good agreement was attained prior to the airfoil stall angle, whereas the agreement became poorer as the airfoil was completely stalled.

Keywords: Aerodynamics, NACA-0018 Airfoil, Transition Modeling, Low Reynolds Number Airfoils, CFD

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43 Magnetic effect on heat and mass transfer analysis of nanofluid past a vertical plate through a porous medium in the presence of chemical reactive spices

Paper ID V6I6-1221 · Pages 266-272 · Applied Mathematics

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Magnetic effect of Heat and Mass Transfer analysis of Nanofluid past a vertical plate through a porous medium in the presence of chemical reaction has been studied. The dimensionless governing equations are solved using the Series solution technique. The influences of the various parameters on the flow field, Temperature field, Mass Concentration, Shearing Stress, rate of heat transfer, and rate of mass transfer are extensively discussed from graphs and tables.

Keywords: MHD, Heat Transfer, Chemical reaction, Constant Suction, Mass transfer, Nanofluid, Porous Medium

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44 The methods of non-violent: protest and persuasion

Paper ID V6I6-1256 · Pages 273-276 · Social Science

Dr. Reena Srivastava, Associate Professor, Government College, Sirohi, Rajasthan

“The aftermath of violence is tragic bitterness while the aftermath of nonviolence is the beloved community” Great Martin Luther King Jr. Extreme protests has been the mainstay of activists around the world for long years but protest in India which popularized and perfected the non-violent protest and quietly powerful hunger strike. There have been many rushes to embrace an increasingly unusual form of agitations

Keywords: Nonviolence is a Way of Life for Courageous People, Defeats Injustice, Not People, It Chooses Love Instead of Hate

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45 A study to identify hearing problem among elderly

Paper ID V6I6-1245 · Pages 277-282 · Nursing

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In India the global morbidity rate of hearing problem is 63 million. The current scenario is to increase the life span of the old age population. Our focus is to provide a good quality of life for the people by identifying people with hearing problem. Methods: Descriptive research design was chosen to the study to identify hearing problems among elderly in PSG Hospitals, at Coimbatore. The sample consists of 30 patients. Elderly patients who met the inclusion criteria were selected by using purposive sampling technique. The data collection was done by using the self-administered questionnaire. Collected data was analyzed by using descriptive statistics and inferential statistics. Results: Out of 30 samples, 15 were identified to have hearing problem. Out of 15 patients, (27%) had no hearing problem, (60%) had mild to moderate hearing problem and (13%) had significant hearing problem. There was a significant association between the severity of hearing problem and with Age of the elders

Keywords: Hearing problem, Nursing, Ederly people

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46 Lemon peel extract as a reducing agent of Graphene Oxide

Paper ID V6I6-1253 · Pages 283-285 · Material Science

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In this work, Graphene Oxide (GO) was synthesized by treating graphite powder with KMnO4 and a mixture of concentrated H2SO4 and H3 PO4. The experiment is carried out at room temperature without NaNO3.The effects of reaction parameters such as reaction time, reaction temperature, and amount of KMnO4 on the degree of oxidation of graphite powder to graphene oxide were studied. The results showed that treating graphite powder with KMnO4 at 40oC for 12 h resulted in a better degree of oxidation. The reduction of the synthesized graphene oxide (GO) by phytoextract was investigated using an aqueous peel extract of orange (Citrus sinensis). The prepared GO and phytoextract reduced GO (RGO) were characterized by ultraviolet-visible spectroscopy & Fourier transform infrared analyses to provide a clear indication of the removal of oxygen-containing groups from the graphene and the formation of RGO. The extent of reduction was determined from elemental analysis.

Keywords: Graphene Oxide, Modified Hummers Method, Phytoextract

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47 Data set using Weka tool with data mining techniques

Paper ID V6I6-1270 · Pages 286-290 · Computer Science And Engineering

Ashwin R., Student, Bannari Amman Institute of Technology, Coimbatore, Tamil Nadu

In this paper, all the data mining techniques and some of the dataset applications have been illustrated using a data mining tool. Similarly, Data mining technique is based on the neural network and Genetic algorithm. Here, how the given dataset has been pre-processed using WEKA tool has been illustrated in this paper with some data pre-processing algorithms and rules

Keywords: Data Mining, Data pre-processing, Classification, Clustering, Decision Tree Algorithms, Weka Tool.

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48 Study to assess the effectiveness of Planned Teaching Programme (PTP) on knowledge regarding occurrence and management of Swine Flu among the urban community of age group 15-55 Years of Boileauganj, Shimla in the year 2015.

Paper ID V6I6-1275 · Pages 291-293 · Nursing

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Swine flu is an infectious disease of the respiratory tract caused by the swine influenza virus (H1N1, H3N2, and H3N1) causing millions of deaths across the world. People show symptoms of high-grade fever, aching muscles, decreased thirst, anorexia, rapid breathing, sore throat, dry cough. It may manifest mild illness or in some people it may result in life-threatening conditions like pneumonia, acute bronchitis, worsening of chronic conditions, respiratory failure, and death. The severity of effects depends on individual factors such as the specific strain of the swine flu, age, general health status, and presence of co-existing conditions such as cancer or diabetes. The five most affected nations were the United States, Russia, Turkey, China, and India. The first swine flu virus in India was reported in May 2009. The effect of pandemics can be lessened if the preparation is made ahead of time. Swine flu can be prevented by vaccination, the use of masks and gloves while handling infected pigs, vaccination, and quarantining of infected pigs. The main aim of the study was to assess the effectiveness of the Planned Teaching Programme on the knowledge regarding occurrence and management of Swine Flu among the urban community of age group 15-55 years of Boileauganj, Shimla in the year 2015. Evaluative approach was adopted using the descriptive design. The sample size was 30 people of Urban people of Boileauganj, Shimla. They were selected using a convenience sampling method. Ethical approval was taken from the concerned departments. The structured tool consisting of socio-demographic variables and knowledge questionnaire was prepared with extensive search from various sources and validated by various experts. After conducting the pre-test, Planned Teaching Programme was administered to the participants. Then post-test was conducted using the same questionnaire. Statistical analysis of the acquired data was done by using descriptive statistics and inferential statistics. Result: The results of the present study reveal that in the pre-test people having correct answers were 50.40% and incorrect answers were 49.60%. After administering the planned teaching program, the people with correct answers were 74.60% and the incorrect ones were 24.40%. The study findings showed that the mean post-test knowledge score was higher

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than the mean pre-test knowledge score. Hence, it can be concluded that the planned teaching program was effective in improving the knowledge of the urban community of Boileauganj.

Keywords: Effectiveness, Planned Teaching Programme (PTP), Knowledge, Prevention, Swine Flu

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49 Pre and Post monsoon Piscine Diversity in Kelo River, Raigarh, (C.G.), India

Paper ID V6I6-1278 · Pages 294-297 · Zoology

Vinita Pandey, Assistant Professor, Kirodimal Govt. Arts and Science College, Raigarh, Chhatisgarh
Dr. R K. Tamboli, Assistant Professor, Kirodimal Govt. Arts and Science College, Raigarh, Chhatisgarh

Ichthyofaunal survey was conducted in the Kelo River district Raigarh, Chhattisgarh to evaluate the pre and post-monsoon piscine diversity. The study was carried out from September 2018 to June 2019. The study area included from Kelo dam to Kaya ghat, about 11 km. A total of 36 species belonging to 25 genera, 13 families were recorded from the study area. The pre and post-monsoon fish diversity are compared and found that pre-monsoon diversity is very poor due to sewage discharge and other anthropogenic activities. City sewage is directly poured in Kelo River at many places without any pretreatment adversing the riverine ecosystem and the survival of fauna.

Keywords: Piscine diversity, Kelo River, Kelo Dam, Panchdari, Chandmari, Kayaghat.

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50 Investors attitude towards postal saving schemes: A study with reference to Kasaragod District.

Paper ID V6I6-1272 · Pages 298-300 · Commerce

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Dr.C.K. Hebbar, Research Professor, Srinivas University, Mangalore

Department of Posts is the back bone of country’s communication and it has played a crucial role in the socio-economic development of our nation. Indian post offices with its large network is the most widely distributed Post office system in the world. Post office as one stop shop provides a range of affordable and customized services. There are number of savings schemes offered by the Postal Department. The present study is undertaken to understand the investor’s attitude towards the Postal Savings schemes with special reference to Kasaragod District.

Keywords: Post Office Savings Schemes, Attitude, Investors, Post Office

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51 Role of varmam on kumbavatham (Rotator cuff syndrome)

Paper ID V6I6-1274 · Pages 301-303 · Siddha Medicine

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Siddha system of medicine is one of the traditional systems of medicine. There are 64types of medicine.32 ulmarunthu and 32 puramarunthu.Varma is one of the vast and most reliable methods in pura marunthu 32[1]. Rotator cuff syndrome is termed as kumbavatham in Siddha text. The aim of the study is to evaluate and to manage the rotator cuff lesion in an elderly male with varmam therapy. The patient reported a gradual onset of pain. There was no history of fall or trauma. Pain was present on the right shoulder and was sharp and deep on abduction and flexion of the left shoulder which reported a VAS of 8/10. The patient had tried all conservative treatments and was finally advised for surgery. patient were given varmam therapy for three months as per following the Siddha varma protocols. Within the treatment course the patient started to do normal daily activities slowly without pain. The uniqueness of this case is that it involves an elderly female who sustained multiple causative factors for rotator cufF

Keywords: Varman Therapy, Kumbavatham, External Therapy, Rotator Cuff Syndrome

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52 Use of waste sludge and sugarcane press mud in brick manufacturing

Paper ID V6I6-1288 · Pages 304-307 · Civil Engineering

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Dr. Navnath V. Khadake, Guide, Imperial College of Engineering, Wagholi, Maharashtra

Now a day as we know there is an increase in the demand for construction work so as comp aired to that the demand for making bricks is slow and it is creating a hazardous effect on nature. So in this study STP sludge and sugarcane press mud are used as a replacement for making brick. Here I have made bricks that are made without burning them so that the CO2 emission is controlled. And also it is aimed to reduce the STP sludge and sugarcane waste dumping in the earth to protect the environment from hazardous and also increment of low-cost brick towards the construction industry for sustainable development. Here we have used sludge and sugarcane press mud along with fly ash and lime for better binding strength. So this attempt made will be a better solution for the CO2 emission. The results have shown that the bricks have shown better binding strength

Keywords: Stp Sludge, Sugarcane Preeemud, CO2 Emission, Fly Ash

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53 Newspaper reading matters/ habits between graduate students of the Sambhram Institute of Technology, Bangalore, Karnataka

Paper ID V6I6-1289 · Pages 308-312 · Library Science

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Reading is a step towards acquiring the useful wisdom of one's own experience, and it can be an established road to self-detection. Reading gives the staff practice so that the reader can broaden one's perspective, classify, spread, and deepen one's interest and gain a deeper understanding of the nation. Newspapers are also an important source of knowledge for everyone and the daily news of society. The attack was made to analyze in this paper. Newspaper reading habits among graduate students of the Sambhram Institute of Technology, Bangalore, Karnataka.

Keywords: Sambhram College Library, Graduate Students, Newsletter, Newspaper, Reading Habit

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54 Applications of quantum Zeno effect in cancer therapy

Paper ID V6I6-1292 · Pages 313-316 · Quantum Physics

Aditya Iyer, Student, Independent Researcher

In later stages of cancer therapy, active medical therapy like chemo-therapy poses a great risk of accelerating disease expansion rather than inhibition. This paper explores the idea of using the Quantum Zeno Effect and creating frequent perturbations in a quantum system to get the population of cancer cells to nearly 0.

Keywords: Quantum Zeno Effect, Cancer Therapy, Quantum Physics, Molecular Biology.

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55 Altmetrics: the new role of library and information professionals

Paper ID V6I6-1283 · Pages 317-319 · Library & Information Science

Sangeeta Kamble, Research Scholar, Maharaja Sayajirao University of Baroda, Baroda, Gujarat

This article explains an analysis of altmetrics and its tools; it also explains how altmetrics effect to improve the research output. New intellectual communication methods and propagation of information have a great impact on academics and researchers to build their profile. This article throws light on the role of library and information professionals plays in promoting new ways of working and demonstrating impact and influence. It gives a short theory of growing altmetrics and mentions the other metrics for measuring research. This article explains the connection between research and social media and told us how the researcher can take benefit from a freely available multitude of tools.

Keywords: Altmetrics, Bibliometric, Social Network, Research Impact, Scientific Communication, Social Web

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56 Re-design the Classroom for Online Learning

Paper ID V6I6-1267 · Pages 320-324 · Education

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It is now impossible to assess the effect of deferent teaching methods and performance in a dynamic technical

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environment. With the pace of technical dominance in the education market, the old teaching pattern is obsolescent every day. It is necessary to research how emerging technology support teaching and the education of students. The younger generation is always technical than, the older generation. Therefore, new instructional approaches must be sought, in particular on technology to attract this generation. Integrating technology into a traditional educational institution is not an easy task, as students and academics rely on traditional methods of learning and are unwilling to change with the new technology. They are also more convenient with the current methods. The influence of technology in the education sector is, nevertheless, inevitable. This paper discusses how technology affects online education and its future.

Keywords: Online learning, Hybrid learning, Online education Traditional Classroom, Digital Education

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57 A technical paper on RCC blanket wall

Paper ID V6I6-1240 · Pages 325-328 · Civil Enigineering

H. M. V. Sastry, Director Technical, Bhamys Constructions Pvt Limited, Mysore, Karnataka

In the hilly and mountainous terrain, many types of structural methods are used to withstand high earth pressure and also prevent soil erosion and hold the earth surface intact. The generally used techniques include building retaining walls, soil nailing, reinforced earth retaining wall (RERW), etc. These types of construction methods not only consume a high quantity of steel and concrete but also increase labor and time of construction. This technical paper on “Blanket wall” for the ‘safe Protection’ of the cut & exposed/Natural surfaces of the hilly terrains will provide an alternative innovative method of construction which will reduce the cost of construction, save time and resources without compromising on the quality, safety and intent of construction. This particular article exemplifies one of the NMDC mining projects at Bailadila, Chhattisgarh. In the course of this study, a lot of innovative engineering ideas and thoughts have studied before arriving at the general layout and its technological requirements. The following factors are considered while planning and designing Blanket Wall: Space, constraints, type of terrain, soil conditions, area are subjected to heavy rainfall, thick fog considerations, transportation of heavy machinery & equipment, Time factors with respect to project schedule achieving the cost economy & various related aspects.

Keywords: Terrain, Protection, Innovative, Quality, Safety & Economy

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58 Financial inclusion project for the residents of Sangam Vihar, Delhi | Impact of COVID-19

Paper ID V6I6-1279 · Pages 329-347 · Economics And Computer Science

Shivang Kukreja, Student, Delhi Public School RK Puram, New Delhi

Microfinance plays an important role in providing financial products and services to developing countries across the globe. The term Microfinance includes a large range of financial products and services which includes deposits, loans, money transfers, insurance, savings, micro-credit, etc. In a country like India, where most of the population lives in rural or semi-urban areas (more than 70 percent) and where a large part of the

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population (more than 60%) still depends on agriculture, microfinance is crucial for the poor and low-income groups. Microfinance becomes important in developing countries where a large section of society does not have access to banking and credit facilities. Microfinance does not only help with financial products, but it also plays an important role in the socio-economic improvement of society. In India, microfinance is dominated by Self Help Groups (SHGs)-Bank linkage program which is aimed at providing a cost-effective mechanism for financial products and services to the intended users. The challenges with Microfinance are the extent of coverage of all these programs. Some states in the country have more active SHGs to drive microfinance whereas other states have limited presence. In a state like Delhi, as per Bharat Microfinance Report 2019, there are 12 MFIs that have operations with a total of 48 branches. The outreach by Microfinance Institutes (MFI) in Delhi was 0.95 lakhs in 2019, which is less than 0.5% of the total population of Delhi. So, the state of Delhi is underserved by the MFIs. The recent impact of COVID-19 on the livelihood of poor people across the country was profound. The country imposed a complete lockdown from March 22, 2020, which caused a lot of hardship for all people. During the lockdown period, the people who suffered the worst were daily wage earners as they had no source of income. Most of the government effort during COVID-19 was focused on home isolating the people who tested positive and moving the critical patients to the hospital. The government provided medical kits and drugs for the patients who were under home isolation but there was no monetary compensation for people who lost employment. The double impact of COVID-19 and unemployment was visible on people living in the slums of Delhi. The motivation for this research project was to run an extensive financial inclusion survey in the slums of Delhi to identify the extent of financial inclusion coverage. Post the survey, the objective was to share the data with the MFIs and connect them with the residents who would qualify for a microloan. The second objective was to create an information portal for the residents of Delhi on various central and state government initiatives on financial inclusion. This information portal was designed to include details of various schemes and the requirements of opening bank accounts, applying for a PAN card and an Aadhaar card. This initiative was to improve the financial literacy of the residents of Delhi.

Keywords: Microfinance, Microfinance Institution (MFI), Pradhan Mantri Jan Dhan Yojana, COVID-19 Home Isolation Program

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59 Analysis and design of Lacing, Slab base, and Concrete Pedestal for Industrial Steel Structure by Using Software Package STAAD PRO.V8i.

Paper ID V6I6-1261 · Pages 348-356 · Civil Engineering

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The conception of project evaluation as well as the development of steel structures is the very up-to-date version in the civil engineering area. It is needed to model a steel structure but if it is also examined through its sculpting then there will not be any prospects of malfunction. The firmness constituent consists of two main elements laced and tied should, where feasible, have a radius of gyration about the axis perpendicular to the plane of lacing not less than the radius of gyration at right angles to that axis. The base plates are intended to withstand the axial load, horizontal shear, or external moments transmitted through the column and must be able to securely transfer the same to the groundwork. Pedestals are generally substantially overdesigned since the rise in materials is more than compensated by reduced project time and the value of the accumulated safety aspect. In this project work, general building data is adopted for the study and is well analyzed and

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designed. The project was undertaken at the Belagavi location. The assessment and planning were done corresponding to the standard design to the potential extend. The assessment of structure was done using the software package STAAD PRO.V8i. All the structural components were designed manually.

Keywords: Analysis, Design, Lacing, Slab base

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60 Heat Index predictions using statistical models for Mumbai (Colaba)

Paper ID V6I6-1194 · Pages 357-369 · Data Science

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Heat Index is an important measure in determining the safety of temperature conditions for humans. Extreme heat can lead to dangerous, even deadly, health consequences, including heat stress and heatstroke. Thus, there is a need to predict the Heat Index accurately in order to warn individuals about such conditions so that they take appropriate precautions. In this paper, we look at weather data in Mumbai from 2008 to 2020 and attempt to come up with predictive models for the Heat Index. We carry out feature selection first in order to efficiently use a variety of algorithms to develop predictive models. We use various mathematical techniques such as Multiple Linear Regression (MLR), Simple Exponential Smoothing (SES), Artificial Neural Networks (ANN), and Auto-Regressive Integrated Moving Average (ARIMA) models to predict the heat index. The experimental results are evaluated and compared using the Root Mean Square Error (RMSE). On experimenting with all four models, it was discovered that the ARIMA model yields the best predictive model having an RMSE of 0.354654 on testing data. This model is also concluded to be optimal as the residuals of this model are a gaussian white noise. Furthermore, the poor performance of MLR indicates that temperature cannot be accurately modeled through a linear function of the variables considered.

Keywords: Heat Index, Forecasting, Predictions, India

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61 Transient & thermal analysis of automotive disc brakes using CFD software

Paper ID V6I6-1200 · Pages 370-374 · Mechanical Engineering

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Braking is one of the important functions of a vehicle. It is very important to design the braking system in such a way that the vehicle remains safe at the braking conditions. The disc brakes are commonly used in most vehicles. When the brakes are applied high amount of energy is dissipated from the disc brakes. The efficiency of the dissipation of the brakes defines the safety of the braking system. This depends on various parameters like the material, ambient temperature, braking power, heat transfer coefficient of the air on the surface of the disc brake. A computational fluid analysis (CFD) and thermal analysis are performed on the disc brake to study the heat dissipation characteristics of the designed disc brake. The surface heat transfer coefficient of the disc brake, velocity is studied in the ANSYS FLUENT solver and the structural-thermal analysis is performed in the ANSYS Workbench in which deformation and final temperature are calculated.

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Keywords: CFD, FLUENT, Heat Transfer Coefficient, Steady State Thermal, Static Structural

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62 A study on the level of awareness of Bachelor of Science in Nursing (BSN) students at the University of Tripoli on the myths and facts on Corona Virus (COVID – 19)

Paper ID V6I6-1169 · Pages 375-379 · Nursing

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The study aimed to determine the level of awareness of Bachelor of Science in Nursing Students at the University of Tripoli on the myths & facts on coronavirus (COVID – 19). Specifically, this study answered the following questions: 1)What are the Students' Demographic profile in terms of Gender and Age? 2) What are the Students' level of awareness of the myths & facts on coronavirus (COVID-19)? 3) Based on the results of the study, what measures can be formulated to increase the level of awareness of the students on coronavirus (COVID-19). The findings that the researcher was able to extract from the study were: 1) the frequency and percentage of the student's demographic profile in terms of Gender, shows that female are mostly dominant which is 53 or 66.25% while the male is 27 or 33.75%. In terms of Age, where mostly belongs to the category of 21-23 years of age with 38 respondents or 47.5%, 18-20 years of age, 37 or 46.25% and 24-26 which is 5 or 6.25%.2) the results of the frequency and percentage of the Student's level of awareness on the Facts and Myths of COVID-19 reveals that mostly 81.40% are aware of the facts on COVID-19, 16.71% are unaware and 1.87% are undecided. Predominantly, 50.20% of students answered "YES" on Myths on COVID-19 making them unaware of the Myths, 46.04% are aware and 3.75% are undecided 3) The measures that could be formulated to increase the level of awareness of the students are to conduct information dissemination campaign through symposiums, research forums and the use of IEC materials. Based on these findings, the researcher was able to conclude that the University of Tripoli - Faculty of Nursing are aware of the FACTS on COVID-19, however, it is worthwhile to note that misconceptions are high on the MYTHS aspect thus there is really an urgent need to correct these misconceptions so as to contribute on measures to end this pandemic.

Keywords: COVID-19, Awareness, Myths, Facts

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