3.2.1 Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

INDEX FOR INNOVATIVE STUDENT PROJECTS (2022-2023)

Sl. No.	Name of the Innovative Project	Names of the students	Name of the Guide	Department
1.	Biosynthesis Of Silver Nanoparticles Using Citrullus lanatus And Their Antibacterial and Antiproliferative Activity Against Lung Cancer Cells	1. AMRUTH C SHEKHAR 2. DUSHYANTH 3. MOHAMMED SAQIB , 4. Iram Ahmed	Dr. Soumya C	BT
2.	Screening of bioactive compounds from endophytic fungi using plant source	1. Amulya S M, 2. Harshitha J K, 3. Spandana Iyer, 4.Vaishnavi R	Dr. Soumya C	BT
3.	Intelligent System for surveillance and intrusion of animals at multiple locations in farmland using convolutional neural network and IOT	1. Mandhara B G 2. Chandrala P Deshpande 3. Deepthi B S 4. Megha Arun Talekar	Dr. Kamalakshi Naganna	CSE
4.	Spotting Pathogens on the plant leaf and furnishing remedies using CNN Algorithm	1. Dhanya M Shetty 2. Harshitha S 3. Etukulapati Meghana 4. Lifa Sharif	Prof. Kruthi T C	CSE
5.	Li-Fi Technology based patient health monitoring and tracking system	1. Ananya P 2. Dinesh P 3. Hitaishi S 4. Shivani B	Prof. Shilpa V	ECE
6.	Mutli tenancy EV charging station	1. Prashanth K V 2. Preetham Hegde	Prof. Ravishankara M N	ECE

Sl. No.	Name of the Innovative Project	Names of the students	Name of the Guide	Department
7.	Efficiency Enhancement of wind turbine using MAGLEV TECHNIQUE	1. Bharath K H, 2. Fazlil Abbas A K, 3. Santhosh Reddy G, 4. Kruthik L G	Dr. Vidya M	EEE
8.	Greenhouse monitoring and controlling using Android mobile application	1. Hemashree S, 2. Chitrashree D C, 3. Janet Evangelin KM, 4. Chethan V	Prof. Gopinath K	EEE
9	Self-Driving Automobile for disabled people using Machine Learning	1. SHIVAM KUMAR 2. SHRUTI PANDEY 3. SIDDHI YESHWANT SONWALKAR 4. UTKARSH MANDILWAR	Dr. PRERANA CHAITHRA	ISE
10	IMAGE FORGERY DETECTION USING CONVOLUTIONAL NEURAL NETWORK	1. ASHARANI M G 2. H M SHREYA 3. KAVANA S D	Prof. Rajeshwari R	ISE
11	An investigation on mechanical properties of concrete blended with GGBS and macro synthetic fiber	1. ANIL KUMAR BV, 2. CHANDANA C, 3. GOPAL KUMAR P, 4. SHIVAPRASAD P	Dr. Rajeshwari R	CIVIL
12	Comparative study on quality of concrete by partially replacement of cement using silica fume and metakaolin by using recycled aggregate	1. ATHISH SANJAY NAYAKA, 2. BHUVAN S, 3. MAHADEV PRASAD R, 4. SHIVA PRASAD V	Prof. Priyanka A	CIVIL
13	METRO PLATFORM SAFETY BARRICADE USING RECYCLED PLASTIC ROPES	1. SHREYAS R 2. RAHUL H M 3. SHREYAS KUMAR A S 4. SOWRABHA R S	Dr. Basavaraju. S	ME
14	Industry Pipe Cleaning Robot	1. PRAMODKUMAR H 2. CHETHAN KUMAR S 3. ANKUSH G 4. YESHWANTH KUMAR B	Prof. Chetan B.P	ME

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DEPARTMENT OF BIOTECHNOLOGY

INNOVATIVE PROJECTS (AY: 2022-2023)

PROJECT TITLE: Biosynthesis Of Silver Nanoparticles Using Citrullus lanatus And Their Antibacterial And Antiproliferative Activity Against Lung Cancer Cells

GUIDE: Dr Soumya C

NAME OF THE STUDENTS:

1.AMRUTH C SHEKHAR
2.DUSHYANTH
3.MOHAMMED SAQIB
4.Iram Ahmed

ABSTRACT

Metallic nanoparticles are valuable materials. Metallic nanoparticles such as Ag (silver), zinc (Zn), Au (gold), palladium (Pd), copper (Cu) is used in many fields. It has its application in anticancer and antibacterial action in medical applications, bioremediation studies, cosmetics industry and electronics. There are various methods used to synthesize nanoparticles. These methods are biological, physical and chemical methods. Biological methods are more advantageous in the synthesis process as they do not contain harmful toxic substances and the cost is low. Biological sources such as plants, fungi, bacteria, algae are also used in the synthesis of nanoparticles.

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DEPARTMENT OF BIOTECHNOLOGY

INNOVATIVE PROJECTS (AY: 2022-2023)

PROJECT TITLE: SCREENING OF BIOACTIVE COMPOUNDS FROM ENDOPHYTIC FUNGI USING PLANT SOURCE

GUIDE: Dr Soumya C

NAME OF THE STUDENTS:

1. Amulya S M 2.Harsshitha J K 3.Spandana Iyer 4.Vaishnavi R

ABSTRACT

Endophytes are highly potential agents which offer special benefits to their host plant. They are capable of producing many photochemical which are not just beneficial to the plants but also have huge application in industries. Costus Igneus (Insulin plant) is believed to decrease the glucose level in the blood and acts as herbal cure for diabetes. Lawsonia Inermis (Henna plant) is traditionally used to absorb heat from the body and used for body art. These characteristics make the above mentioned plants our source for their photochemical analysis. Photochemical are the chemicals produced in the plants. Endophytes in plants have adapted to produce the chemicals and bioactive components required for the plants, therefore making them highly beneficial to the plants. This project is to analyze the contribution of the endophytes in the synthesis of such chemicals in plants.

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DEPARTMENT OF CSE

INNOVATIVE PROJECTS (AY: 2022-2023)

PROJECT TITLE: Intelligent System for surveillance and intrusion of animals at multiple locations in farmland using convolutional neural network and IOT

GUIDE: Dr.Kamalakshi Naganna

NAME OF THE STUDENTS:

Mandhara B G
Chandrala P Deshpande
Deepthi B S
Megha Arun Talekar

ABSTRACT

One of the serious problem faced by the farmers is the animal disturbance in the farmland leading to the loss of the production which in turn results in the loss of crop yield. The proposed system overcomes this problem using the new modern technology. Smart Agriculture System aims to protect crops from ungulate attacks and therefore significantly reduce production losses. Through the creation of virtual fences that take advantage of computer vision and ultrasound emission. Starting with the system capable of generating ultrasound to drive away ungulates and thus protect crops from their attack provides a comprehensive description of the design development and assessment of intelligent animal intrusion system. Taking into account the constraints of rural environment the proposed system is based on Artificial Intelligence, Convolution Neural Networks, Internet of Things, Real time embedded system and object detection. Running a real time object detector with YOLO Algorithm with custom trained models to identity the most suitable animal recognition platform to be integrated with the ultrasound generator. The overall system helps in the real time animal intrusion using all the above mentioned technologies making it a efficient automation for the protection of the agricultural production.

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DEPARTMENT OF CSE

INNOVATIVE PROJECTS (AY: 2022-2023)

PROJECT TITLE: Spotting Pathogens on the plant leaf and furnishing remedies using CNNAlgorithm

GUIDE: Kruthi T C

NAME OF THE STUDENTS:

Dhanya M Shetty

Harshitha S

Etukulapati Meghana

Iifa Sharif

ABSTRACT

Plant disease detection offers a favorable step towards sustainable agriculture and disinfected crops. Early detection of disease in plants lead to control and management lead to improvement in the quality of crops as well as reduce the production losses. This work presents an approach that integrates image processing and machine learning for disease diagnosis by utilizing plant images. In this work, plant leaf disease, early blight are classified using various machine learning algorithms such as Support Vector Machine, K- nearest Neighbor and Decision Tree. The diseased leaf images are filtered using Gaussian filter and then, the desired Region of Interest is plant leaf disease, out of which support vector machine gives the best accuracy of 92.9%, It also gives the solution for plant disease by giving the estimation of amount of fertilizers and nutrients to be provided to the soil so that it reduces the disease in plants.

for Madhushree

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DEPARTMENT OF ECE

INNOVATIVE PROJECTS (AY: 2022-2023)

PROJECT TITLE: Mutli tenancy EV charging station

GUIDE: Ravishankara M N

NAME OF THE STUDENTS:

Prashanth K V, Preetham Hegde

ABSTRACT

With an increased number of Electric Vehicles (EVs) on the roads', charging infrastructure is gaining an ever-more important role in simultaneously meeting the needs of the charging stations for EV users. Moreover the main challenge lies in apartments where people have their home in some floors as charging their EVs is the hectic task. In this project, the objective is to build an RFID authorised system for user identification and charging authorization as part of a smart charging infrastructure providing charge monitoring and control. This project reviews the design of smart metering infrastructure and the development of charging stations for charging the electric vehicles in apartments. The electric vehicle charging process and the increasing use of electric vehicles create a need for charging points. This describes the development of charging points with KWh meter to measure the electrical energy during the charging process. Microcontroller is used for data processing. So overall, EV charging to be conducted effectively meeting the needs of EV owners in apartments and the report is developed on the current usage of individual owners.

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DEPARTMENT OF ECE
INNOVATIVE PROJECTS (AY: 2022-2023)

PROJECT TITLE: Li-Fi Technology based patient health monitoring and tracking system
GUIDE: Shilpa V

NAME OF THE STUDENTS: Ananya P, Dinesh P, Hitaishi S, Shivani B

ABSTRACT

With rapidly evolving technologies, their use and advancements sped up the development of Wi-Fi, which provides a claimed light commitment innovation Li-Fi is a technological advancement that uses driven light to help in information transmission. Since light can be seen practically anywhere, Wi-Fi allows for the communication of correspondence. Li-FI is a component of optical distant communication, an emerging technology. We can transmit the health parameter to the appropriate location by using apparent light as a transmission medium. The upcoming and emerging innovation known as Li-Fi serves as a platform for various other upcoming and already existing advancements. With Wi-Fi and other technological advancements, light is not a viable hotspot for transmission in this innovation, making it incredibly advantageous and applicable in a variety of industries. Additionally, we use ML to forecast the occurrence of cardiac disease. Thus, future applications of Li-Fi can be predicted and extended to a variety of platforms, including training grounds, medical facilities, contemporary locales and numerous other industries. we suggest using Li-Fi Technology to check on wellbeing.

Shilpa V
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DEPARTMENT OF EEE

INNOVATIVE PROJECTS (AY: 2022-2023)

PROJECT TITLE: Efficiency Enhancement of wind turbine using MAGLEV TECHNIQUE

GUIDE: Dr.Vidya M

NAME OF THE STUDENTS:

Bharath K H,Fazlil Abbas A K,Santhosh Reddy G,,Kruthik L G

ABSTRACT

Due to a significant supply and demand mismatch in the electrical energy system, wind power is determined to be significant on several levels. Maglev wind turbines are superior to conventional wind turbines in a number of ways. In this study, a revolutionary levitation concept is included into the design of a vertical axis turbine. It is more competitive than its cousin in terms of efficiency, price, and power output. The Maglev wind turbine, which was first shown off in Beijing during the Asia exhibition. One of the major advancements achieved by magnetic levitation technology is the magnetically levitated train. The Japanese Maglev train broke world records for train speeds of 581 km/h in 2003 and 603 km/h in 2014. Designing and implementing a magnetically levitated vertical axis wind turbine is the goal of this project.

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INNOVATIVE PROJECTS (AY: 2022-2023)

PROJECT TITLE: Greenhouse monitoring and controlling using Android mobile application

GUIDE: Prof.Gopinath K

NAME OF THE STUDENTS:

Hemashree S,Chitrashree D C, Janet Evangelin KM, Chethan V

ABSTRACT

In agricultural country like India, greenhouses form an important aspect of agricultural and horticulture sectors. In greenhouses, plants are grown under favorable climatic conditions for its production and growth. Thus monitoring and control of greenhouse environment is necessary for production and management of greenhouses. The existing system has the ability to yet lack the ability to control indoor humidity. Green House Monitoring and Controlling is a complete system designed to monitor and control the humidity inside a green house. This software uses an Android mobile phone, connected using Wifi to a central server which connects via serial communication to a microcontroller and humidity sensor. The result shows that the condition specified in sensor's datasheet and system in reality is appropriate. The achieved test result concludes that the system is working properly.

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DEPARTMENT OF ISE

INNOVATIVE PROJECTS (AY: 2022-2023)

PROJECT TITLE: "Self-Driving Automobile for disabled people using Machine Learning"

GUIDE: Dr. PRERANA CHAITHRA

NAME OF THE STUDENTS:

SHIVAM KUMAR
SHRUTI PANDEY
SIDDHI YESHWANT SONWALKAR
UTKARSH MANDILWAR

ABSTRACT

Self-driving automobiles have the potential to revolutionize the way we live and travel. They can increase safety on the roads, provide transportation for those who cannot drive, and reduce traffic congestion. However, developing a reliable self-driving automobile requires the use of advanced machine learning techniques and extensive data collection. This project presents an end-to-end model that simulates the behavior of a self-driving automobile using convolution neural networks (CNNs) on Indian driving data.

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DEPARTMENT OF ISE

INNOVATIVE PROJECTS (AY: 2022-2023)
PROJECT TITLE: "IMAGE FORGERY DETECTION USING CONVOLUTIONAL NEURAL NETWORK"

GUIDE: Prof. Rajeshwari R

NAME OF THE STUDENTS:
ASHARANI M G
H M SHREYA
KAVANA S D

ABSTRACT

The objective of this project is to propose a human computer interface for users who are in investigation fields using image forgery detection. Digital images have become the focus of the digital image processing researchers. Image forgery represents one hot topic on which researchers prioritize their studies. The proposed project mainly concentrates on the copy move and image splicing topics as a deceptive forgery type. Accurate convolution neural network architecture is proposed for the effective detection of different types of image forgery methods. The proposed architecture is compulsory lightweight with a suitable number of convolution and max-pooling layers. The image frame is processed by OpenCV library which is open source software. Image Forgery leads to severe vulnerabilities and loss of believability within the digital snapshots. Thus detection of image forgery is significant, as a result of the pictures provided as proof in an exceedingly court docket. Photograph forgery detection is that valuable enhancement of image forensic.

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DEPARTMENT OF CIVIL ENGINEERING

INNOVATIVE PROJECTS (AY: 2022-2023)

PROJECT TITLE: "AN INVESTIGATION ON MECHANICAL PROPERTIES OF CONCRETE BLENDED WITH GGBS AND MACRO SYNTHETIC FIBER"

GUIDE: Dr. Rajeshwari R

NAME OF THE STUDENTS:

ANIL KUMAR BV, CHANDANA C, GOPAL KUMAR P, SHIVAPRASAD P

ABSTRACT

Concrete being one of the key ingredients in most civil engineering structures are either directly or indirectly responsible for polluting the environment, especially while producing cement. Natural sources are diminishing every day and hence, usage of available sources become even more important. The study investigates the effect of utilization of Macro Synthetic Fibers (MSF) in concrete made of Manufactured sand (M-sand) over its hardened properties

In this study Ground-granulated blast-furnace slag of 30% and 40% is replaced by total weight of OPC (Ordinary Portland Cement) and similarly MSF of 1% is replaced by total weight of OPC. All mixes (trial mix, control mix and variation mix) were prepared for M grade of concrete. This study investigates the performance of concrete mixture in terms of slump, compressive strength, Flexural strength and Splitting tensile strength of concrete for 7days, 14days and 28 days respectively.

The addition of GGBS and MSF to concrete improves the mechanical properties of concrete. The results show that the replacement of GGBS and the addition of MSF to the concrete mix increases the compressive strength, flexural strength and splitting tensile strength of concrete over time. The compressive strength of the concrete specimen increases when the percentage of GGBS is increased, and the MSF increases the splitting tensile and flexural strength of concrete.

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DEPARTMENT OF CIVIL ENGINEERING

INNOVATIVE PROJECTS (AY: 2022-2023)

PROJECT TITLE: Comparative study on quality of concrete by partially replacement of cement using silica fume and metakaolin by using recycled aggregate

GUIDE: Prof. Priyanka A

NAME OF THE STUDENTS:

ATHISH SANJAY NAYAKA, BHUVAN S, MAHADEV PRASAD R, SHIVA PRASAD V

ABSTRACT

The utilization of recycled aggregate with partial replacement of cement using silica fume and metakaolin as cementitious materials has gained significant attention in the field of concrete technology. This approach aims to enhance the performance and sustainability of concrete by incorporating recycled materials and utilizing supplementary cementations materials. The use of recycled aggregate addresses the growing concern of environmental impact associated with construction waste. By reusing crushed concrete waste, the demand for natural aggregates is reduced, leading to conservation of natural resources and decreased landfill waste. Additionally, the incorporation of recycled aggregate contributes to a circular economy approach, promoting a more sustainable construction industry. Furthermore, partial replacement of cement with silica fume and metakaolin offers several advantages. Silica fume, a highly reactive pozzolanic material, enhances early-age strength development and improves the durability of concrete. Metakaolin, derived from calcined kaolin clay, provides long-term strength gain and further enhances durability properties. These supplementary cementations materials contribute to the reduction of carbon emissions and promote the efficient use of resources.

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DEPARTMENT OF MECHANICAL ENGINEERING
INNOVATIVE PROJECTS (AY: 2022-2023)

PROJECT TITLE: METRO PLATFORM SAFETY BARRICADE USING RECYCLED PLASTIC ROPES

GUIDE: Dr.Basavaraju.S

NAME OF THE STUDENTS:

SHREYAS R
RAHUL H M
SHREYAS KUMAR A S
SOWRABHA R S

ABSTRACT

The work aims to Increase platform safety in metro by the fabrication of platform safety device with a Simple working mechanism easy to construct and operate. Material are made using waste plastic bottles. This device makes sure that the safety device allows the passengers to safely enter the metro rail.

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DEPARTMENT OF MECHANICAL ENGINEERING
INNOVATIVE PROJECTS (AY: 2022-2023)

PROJECT TITLE: Industry Pipe Cleaning Robot

GUIDE: Mr. Chetan B.P

NAME OF THE STUDENTS:

PRAMODKUMAR H
CHETHAN KUMAR S
ANKUSH G
YESHWANTH KUMAR B

ABSTRACT

In this work Design and development of pipe inspection robot is developed . To develop the model CATIA V software is used. Other components include Arduino Nano connections to electrical components. Further assembling all the fabricated parts Fixing a camera, motors, LEDs and mounting the circuit board is completed and finally robot is placed inside a pipe by means of a remote to cleaning the robot in a monitor

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