Socially Relevant Projects

Dadi Institute of Engineering & Technology has been in the forefront in developing technologies to solve pressing problems of the society. Department of Computer Science Engineering aims to sufficiently organize and disseminate information about these projects within student and faculty community.

Projects at **Socially relevant projects (SRP),** Computer Science Engineering department support sizable number of such projects.

PROJECT REPORT

ON

TRICYCLE FOR PHYSICALLY CHALLENGED

Submitted By

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For the Degree of

Bachelor of Technology
Computer Science Engineering

Under the Guidance of

Dr.Prasanna Kumar, HoD, CSE

TRICYCLE FOR PHYSICALLY CHALLENGED

Problem Definition

The product is a mobility device for outdoor usage meant for mobility challenged and economically disadvantaged people. The existing tricycles in use in India lack in many essential features concerning safety and comfort and have following issues:

1. Ride on harsh roads is uncomfortable and unsafe.
2. Climbing in and out is difficult.
3. Sitting posture is uncomfortable.

Solution

Following features are provided to address issues in existing design:

1. Fitting rear wheels with independent suspensions/shock-absorbers.
2. 'Open able' arm-rest to facilitate easy climbing in and out.
3. Independently adjustable foot-rests for suitable positioning of feet and therefore offering suitable sitting posture.
4. Seat-belts for enhancing safety.
5. Parking-brakes attachment to keep the tricycle stationary while climbing in and out.
6. Perforated seats for increased ventilation and air-circulation.

Uniqueness

1. Independent rear suspensions/shock-absorbers.
2. Open able arm-rest.
3. Independently adjustable foot-rests.
4. Parking brakes.

Sample Images

PROJECT REPORT

ON

Stirling Engine

Submitted By

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Stirling Engine

Problem Definition

The lack of electricity in rural areas and the abundance of biomass.

Solution

The product focuses on utilizing the energy content in the biomass developed in agricultural fields by using them to power an external combustion engine, without going through the trouble of converting them to biogas. The Stirling engine (External combustion) converts the energy into electrical energy through an alternator.

Uniqueness

Small scale engines suitable for household ownership with a very simple design which means easy maintenance and hence the small price makes the product very suitable for rural household needs. Special importance has been given to make a very economical product rather than making it more and more efficient, because a very efficient but costly alternative will not sell in the existing conditions.

PROJECT REPORT

ON

A PORTABLE CABLE WAY FOR POST HARVEST RESOURCE COLLECTION

Submitted By

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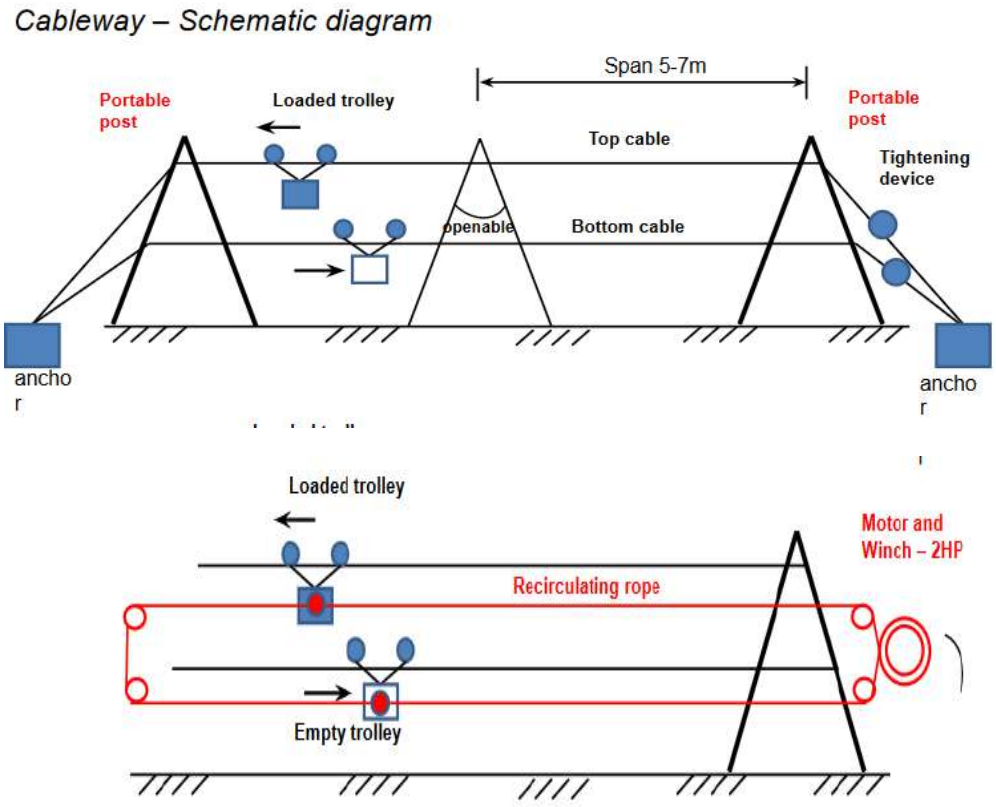
A PORTABLE CABLE WAY FOR POST HARVEST RESOURCE COLLECTION

India is one of the largest sugar producers in the world. It is produced from sugarcane. Sugar can be produced from various crops: sugarcane, sugar beet, palm jaggery etc. The immediate reason for this project is the problems faced by Sugarcane Farmers in Visakhapatnam District of Andhra Pradesh . It is typical of other farmers also.The following points are facing the farmers of Andhra Pradesh

1. There is a significant shortage of labour in the Indian farming sector.
2. All sorts of agricultural activities are thus affected.
3. Especially affected is post harvest resource collection (most labour intensive).
4. Due to small size of Indian farms (Land Ceiling Act) western type of large-scale mechanisation is not possible.
5. Wetland fields (surrounded by ditches, canals) make vehicle entry difficult into some farms.
6. Damages of fruit like bananas during manual transportation. Cable way is a preferred option here.

A simple, economical, compact portable cableway has been developed, fabricated and tested for transportation of any produce loads from farm to collection point.



PROJECT REPORT

ON

Assistive Technology to the Needy People

Submitted By

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Assistive Technology to the Needy People

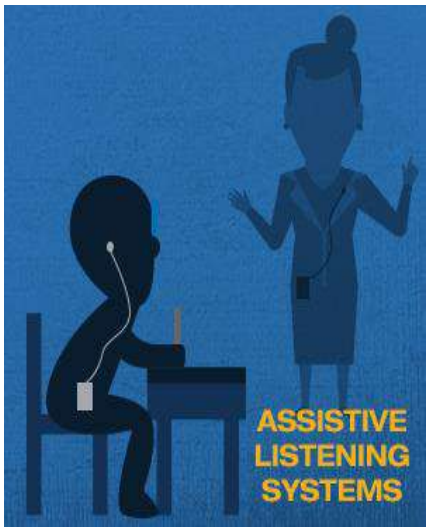
Assistive Listening Systems:

A variety of assistive listening systems, or hearing assistive technology, can help students who are deaf or hard of hearing, as well as those with other auditory and learning problems. According to the National Association for the Deaf, assistive listening systems can be used to enhance the reach and effectiveness of hearing aids and cochlear implants, or by children who do not need those tools but still need help hearing. Assistive listening systems use a microphone, a type of transmission technology and a device for capturing and bringing the sound to the ear. The specific transmission technology used in the system is typically what contrasts one type of assistive listening system from another.

Text to Speech:

As an assistive technology, text-to-speech (TTS) software is designed to help children who have difficulties reading standard print. Common print disabilities can include blindness, dyslexia or any type of visual impairment, learning disability or other physical condition that impedes the ability to read. However, other students can benefit from TTS technology, such as children that have autism, attention deficit hyperactivity disorder (ADHD) or an intellectual disability.

The technology works by scanning and then reading the words to the student in a synthesized voice, using a large number of speech sounds that make up words in any given context. With the advances in speech synthesis, TTS technology is more accurate and lifelike than ever.



Intel Reader:

The Intel Reader is a mobile handheld device that uses TTS technology to read printed text aloud. It features a high-resolution camera that captures printed text, converts it to digital text and reads it to the user. During playback, words are highlighted as they are read aloud, and the user can pause and have the device spell out highlighted words. The available Intel Portable Capture Station functions as a stand for the Intel Reader to easily and quickly capture text from books and other documents.

At about the size and weight of a paperback book, the Intel Reader is mobile enough to use in any environment. Students can also transfer content from a home computer, or save generated audio versions of printed materials to a computer. Available voices vary in gender, pitch and speed.

FM systems:

According to American speech language hearing association (ASHA), FM systems are the best choice for children with sensor neural hearing loss. The most common type of hearing loss for all ages, sensor neural hearing loss occurs when the inner ear (cochlea) or nerve pathways from the inner ear to the brain are damaged.

FM systems work using radio broadcast technology. With a transmitter microphone and a receiver, the teacher and student can maintain a consistent sound level regardless of distance and background noise. Additionally, ASHA notes that the hearing aid microphone can be turned off, so the student can concentrate on the teacher alone.

Sip-and-Puff Systems:

Sip-and-puff systems are used by students who have mobility challenges, such as paralysis and fine motor skill disabilities. These systems allow for control of a computer, mobile device or some other technological application by the child moving the device with his or her mouth. Similar to a joystick, the child can move the controller in any direction and click on various navigational tools using either a sip or a puff. An on-screen keyboard allows the child to type using the same movements.

Sip-and-puff systems are a type of switch device, which refers to the technology used to replace a computer keyboard or mouse. Other switch devices include buttons or other objects that a student can touch, push, pull, kick or perform some other simple action that can then control the device.

PROJECT REPORT

ON

Waste Management Technologies

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Waste Management Technologies

Waste-to-Energy

Generating actual power from waste is one of the major innovations in the waste management industry. This technique aims to convert waste into energy in place of the accumulation of waste in the landfills. Digesters produce the biogas from different sorts of waste such as food, agriculture, etc. and transform that into the energy utilized on-site.

Within the waste-to-energy innovation concept, it is super important to mention thermal energy conversion. Broadly speaking, this technology is based on the change in heat and pressure and works well to turn waste into chemicals, fertilizers, oils, etc. Aside from that, the microturbines, burning waste gas to create power and heat, already became a substitute for traditional methods for landfill processes.

Software for Waste Management Companies

Today, a great number of prominent firms reap the benefits of SaaS (Software-as-a-Service) offering advanced digitized platforms for the most efficient waste management process. These platforms refer to facilitating solutions to cope with industrial challenges and amplify the performance.

Though several solutions are provided by **waste management software**, the most crucial ones are as follows:

- Central management & control
- Operational efficiency & improved service quality
- Immediate intervention capability through real-time alerts
- Increased employee productivity
- Increased customer and citizen satisfaction

Robot Recyclers

While talking about innovation, we cannot skip the robotic technology that has become the top trend in the last decades. After the import of recycling waste products was restricted by China in 2018, western companies expedited their innovative steps to integrate robotic technology in a better processing capability. Furthermore, researchers in numerous companies and universities highlight a more than $6 billion environmental service gap in the recycling industry and indicate robotic technology is a potential solution to fill this gap. All these institutions strive to develop more AI-enabled robotics that can assist in controlling quality, sorting recyclables, and minimizing the health risks to human work teams.

Currently, several companies produce robotic solutions for recycling efforts. As stated by the producer firms, the investments are mainly focused on improving the quality of shipped secondary commodities and reducing labor costs on the sorting line.

Internet of Things (IoT)

The leverage of the Internet of Things (IoT) and cloud computing technology provide high-tech sensors and enable waste management companies to optimize hauling routes and timing data. Throughout the process, haulers identify where full waste containers are located and when should they be collected. This technology lets customers collect waste from full containers. In fact, IoT aims to boost efficiency and save money by reducing unnecessary pickups.

The GPS monitoring system is a great innovation as well as sensors. As data is the key in today's world, waste companies utilize the computer algorithms collecting information associated with the most efficient routes based on the distance and traffic patterns. All areas including residential routes, industrial waste pickup, construction containers, and smart bins can seize the opportunity of merging with such an innovative tool.

Waste-to-Raw Material

The search to reuse waste in a productive manner and innovations in that regard have been markedly increasing. Companies turn waste products into a source of raw material by extracting plastics and cellulose fiber. Autoclave sterilization technology is essential within this operation. Autoclaves are used as heat treatment processing units to destroy microorganisms before disposal.

Self-Driving Trucks

Despite the fact that it's still in the development phase, autonomous waste pickup is close to being implemented. As known, Volvo has been working on this technology for 3 years. Uber became its partner and participated in the research and development process. This system targets a truck maneuvering itself whilst the operator gets out for collecting the garbage. Gear changing, steering, and speed are also optimized for low fuel consumption and emissions.

"Our self-driving refuse truck is leading the way in this field globally, and one of several exciting autonomous innovations we are working with right now" explains Lars Stenqvist, Chief Technology Officer, Volvo Group. Additionally, Stenqvist states this new technology provides benefits for a reduction in the risk of occupational injuries.

Robotic Trash Cans

Robotic wheeled trash containers that roll out on their own at the push of a button are an example of the greatest innovations. This innovation is especially helpful for those with limited mobility and motor skills.

Another invention in this category is motorized garbage bins with wheels which take themselves to the curb. They were programmed to travel from a docking station at a person's residence to a second docking station at the curb. The innovators also add a function in this invention to be scheduled for the time and day of the neighborhood's trash pickup.

PROJECT REPORT

ON

Navigator Based on Pedestrian Tracking and GPS for Visually Impaired People (iOS Application)

Submitted By

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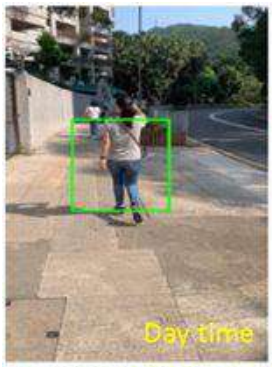
Navigator Based on Pedestrian Tracking and GPS for Visually Impaired People (iOS Application)

Purpose: Navigator Based on Pedestrian Tracking and GPS for Visually Impaired People (iOS Application)" ("The Navigator") aims to offer a reliable guiding assistance for visually impaired people. Currently, visually impaired people always need guiding tools like tactile sticks or guide dogs when navigating outdoor. However, the number of guide dogs is limited and the tactile stick cannot provide accurate and informative feedback to the users. As technology advances, smart devices with AI technology can be combined and act as a new generation of guiding devices.

Method: The Navigator will use user's GPS location to plan a route from user's location to the destination, then the Navigator start uses the camera on the mobile device and an object tracking AI model to guide the user to follow pedestrian who is heading to the same destination. Whenever the pedestrian being followed is found not sharing the same destination as the user does, the Navigator will choose another pedestrian. Furthermore, the main feedback medium for guiding the users' direction is haptic. Sound is only used when sending complicated or dangerous messages to the user.

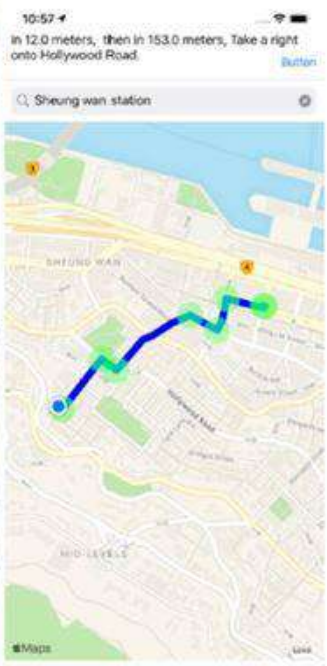
Result: The Navigator is able plan a route from user's location to destination, follow a pedestrian ahead of user and provide appropriate feedbacks to the user. Significance The Navigator integrated with advanced software technologies and a single hardware, the smart mobile device, can potentially provide a low cost temporary replacement for visually impaired people while they are waiting for their own guide dog. Therefore the Navigator may help visually impaired people utilize social resources and services more efficiently during their waiting time, hence better the inclusion of visually impaired people to our society.


Day time


Night time


Sunny day


Rainy day


10:57
in 12.0 meters, then in 153.0 meters, Take a right onto Hollywood Road
Button
Sheung wan station
Maps

PROJECT REPORT

ON

Localization in the MTR for the Visually Impaired

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Localization in the MTR for the Visually Impaired

Project Description:

In MTR station, some aids are provided for visually impaired people (VIP) to navigate there. However, it may not fulfill all the needs for the VIP because of the complicated structure of the stations.

Considering this problem, we propose to use deep neural networks to train a model by Wi-Fi signals and develop an android app to help VIP locate their position and the facilities at the MTR platform. Several functions such as distance between the nearest elevator and user position would be provided in the apps with voice feedback.

Software / Hardware Available:
Android Application

PROJECT REPORT

ON

An App to help the Visually Impaired People to Read Music Sheets

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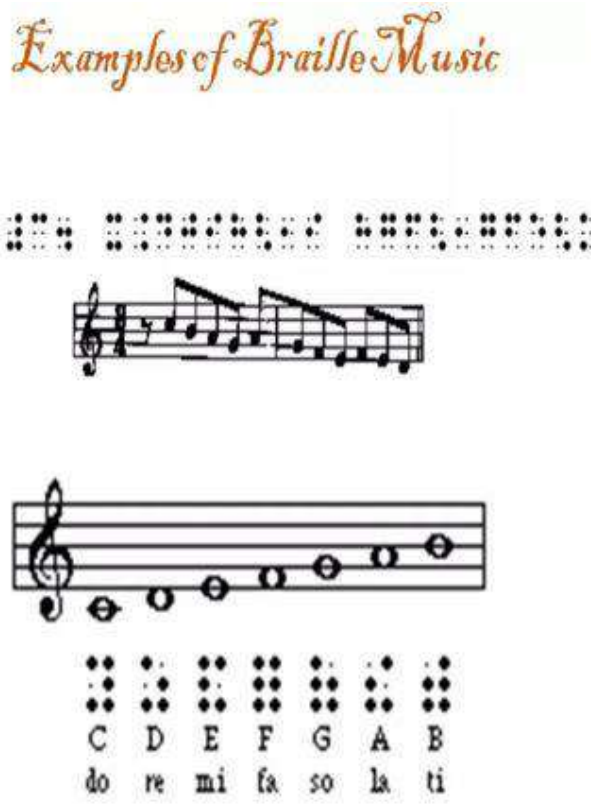
Mrs.T.Sujatha

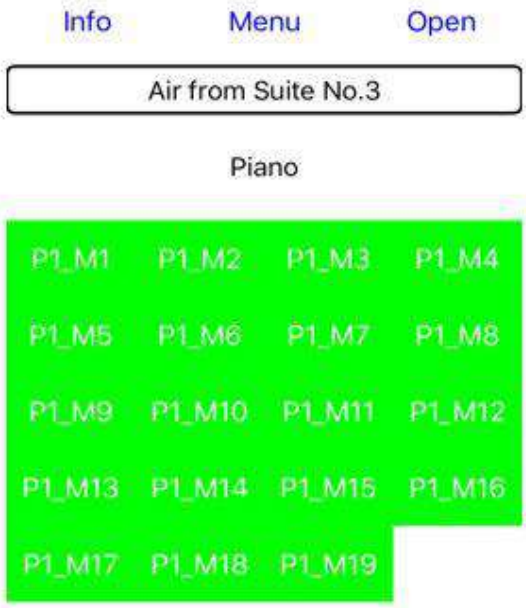
An App to help the Visually Impaired People to Read Music Sheets

Project Description:

This project aims to design an iOS App to help the Visually Impaired People (VIP) to read music sheets. At present, the VIPs need to convert music sheets to braille before they could read them which is very inconvenience and expensive. Through this application, the VIPs can read music sheets via VoiceOver, an inherent accessibility on iOS, when they touch the screen, as if they are reading paper music sheets in braille format.

Software / Hardware Available:
Prototype of an App





PROJECT REPORT

ON

Real-time Outdoor Objects Recognition and Distance Detection for Visually Impaired People

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Real-time Outdoor Objects Recognition and Distance Detection for Visually Impaired People

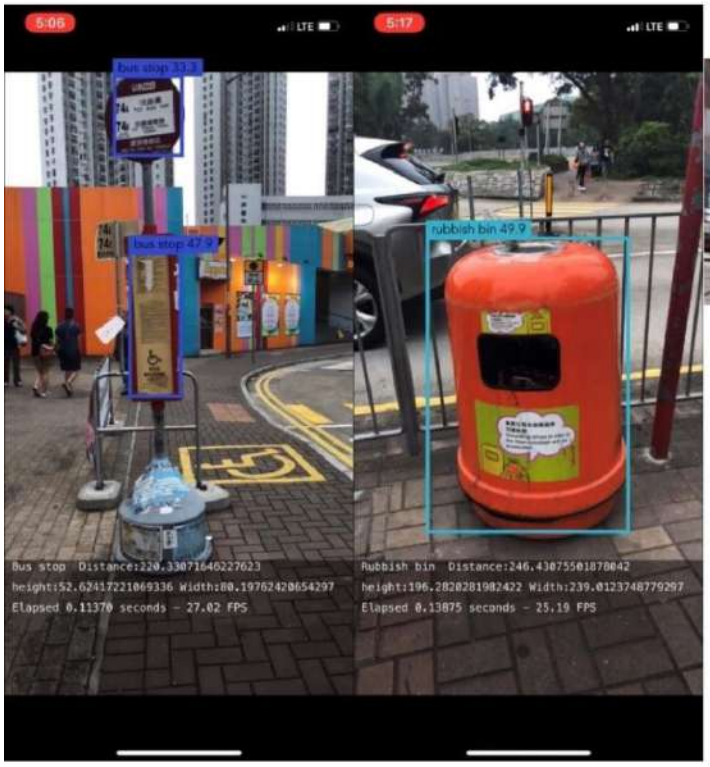
Project Description:

According to the World Health Organization, there are 257 millions of people with visual disabilities. Among them, 217 million have moderate to severe vision impairment and 36 million are totally blind. According to another study, low mobility is one of the major daily life problem encountered by the visually impaired. Walking on unfamiliar roads can be challenging and possibly dangerous for them. Currently, there are existing applications designed for helping the visually impaired. For example, Microsoft has employed image recognition technology in their Seeing AI application to identify different scenes, colors and emotions.

Another application, TapTapSee, describe objects in a photo or short video from user's smart phone camera. The application uses "Cloud Sight Image Recognition API" in the pre-processing stage hence the images are able to return correct description even if the picture was taken under narrowed angles or poor lighting conditions. However, majority of the existing application on smart phone are not designed for identifying outdoor objects, and their processing speed are quite slow due to the high latency of cloud computing, combined with issues such as lacking distance detection. The existing applications fail to provide timely notifications regarding the objects surrounding the individual.

The objective of this project is to develop an offline smart phone application that performs real-time object recognition and distance detection on common outdoor objects. The application aims to create a low cost and real time application to minimize stress and the risk for visually impaired people when walking around unfamiliar locations.

Technology Available:
IOS Application "SeePath"


5:06
LTE
bus stop 33.3
bus stop 47.9
Bus stop Distance:220.33071646227623
height:52.62417221069336 Width:80.19762420654297
Elapsed 0.11370 seconds - 27.02 FPS
5:17
LTE
rubbish bin 49.9
Rubbish bin Distance:246.43075501870042
height:196.2820281982422 Width:239.0123748779297
Elapsed 0.13875 seconds - 25.19 FPS


16

PROJECT REPORT

ON

BAMBOO CYCLE

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For the Degree of

Bachelor of Technology
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Under the Guidance of

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BAMBOO CYCLE

Problem Definition

Bicycles offer a healthy, eco-friendly and affordable means of transportation. Although they are much cheaper than other vehicles, their cost is still prohibitive for most people in developing countries.

Uniqueness

Bamboo bicycles are available in a few countries, most notably, the USA. This product represents one of the few attempts in India. Besides being eco-friendly and affordable, bicycles made of bamboo offer excellent ride.

Solution

Making the frames out of bamboo, a fast-growing, sustainable and ubiquitous materal could reduce the cost of the bicycles.

PROJECT REPORT

ON

Page Flipper

Submitted By

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KONATHALA LOHITHA
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Page Flipper

Problem Definition

This device has primarily been aimed at the differently-abled section of the society who require help of others to flip pages of books every time they read. This enables them to get a feeling of reading from a book like any other person as opposed to alternate methods like

- Getting assistance from parents/care taker or hire personnel to turn pages
- e-book reading

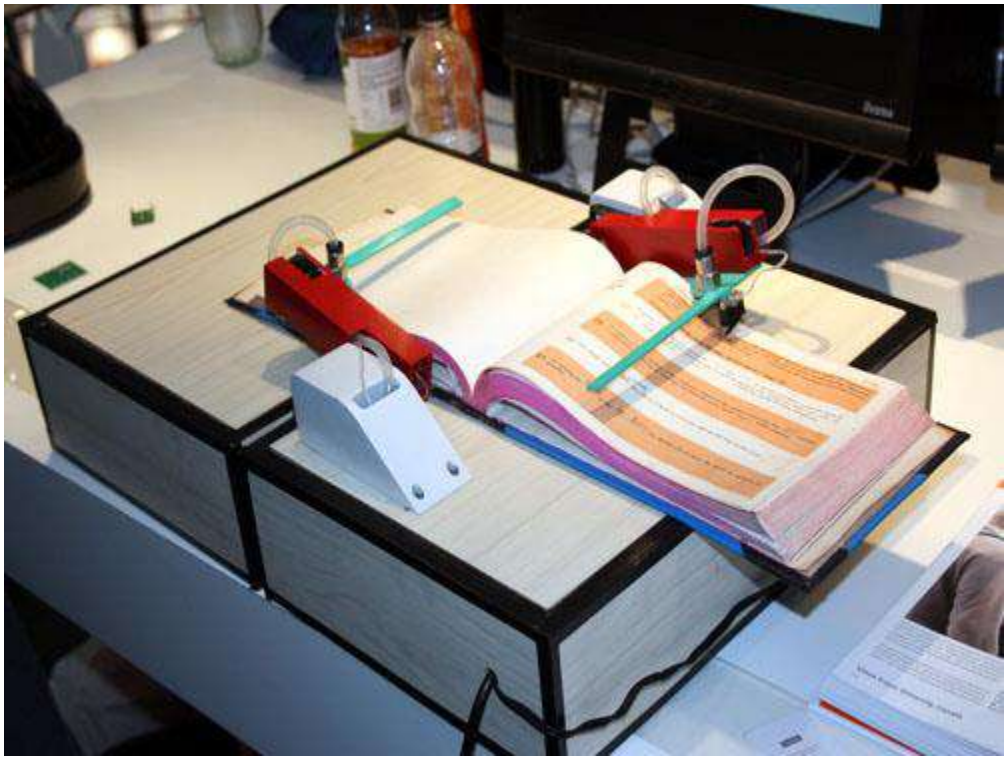
Solution

The Page Flipper is a simple, economical and effective device that can flip pages of any book, one at a time, in both directions and without the use of hands.

It has been designed to help flip pages of any book, one at a time in both directions without the use of hands. It works with books of any paper quality or size and once preset, it can be activated either using a pair of foot switches or voice recognition(This version is yet to be released).

Uniqueness

This product is quite economical as the solutions available in the market are very expensive and not affordable to the common man. One version of this product would help the musicians flip pages of their notes while they play their instrument. This product can also be used for automatically turning and scanning pages of old literature in libraries and for the benefit of patients in hospitals.



PROJECT REPORT

ON

E-PLASTIC MANAGEMENT SYSTEM

Submitted By

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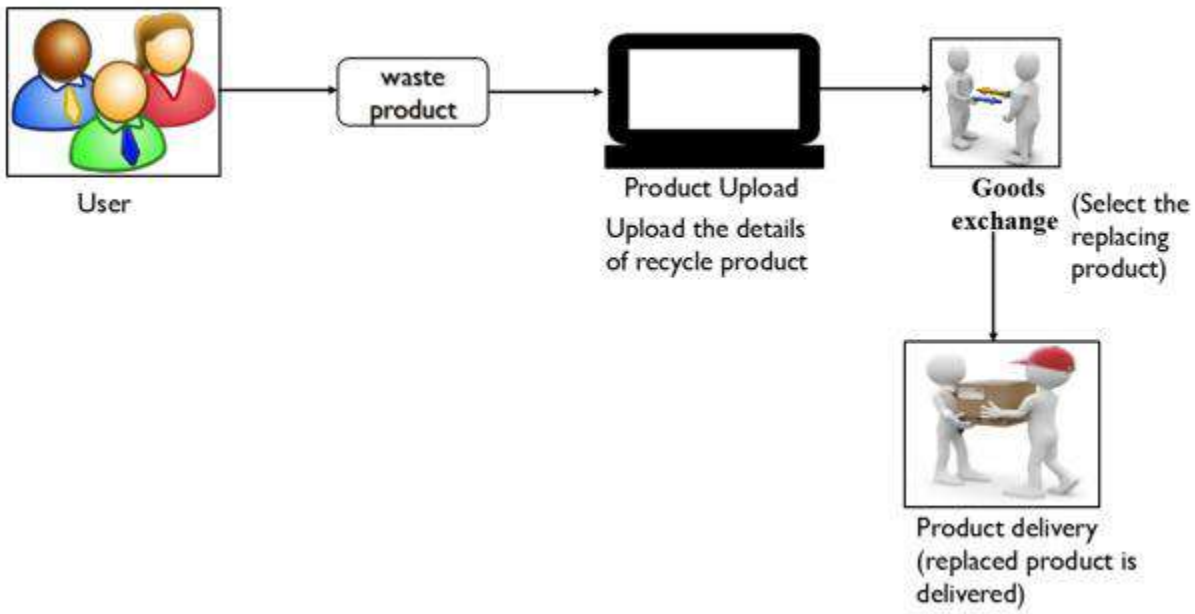
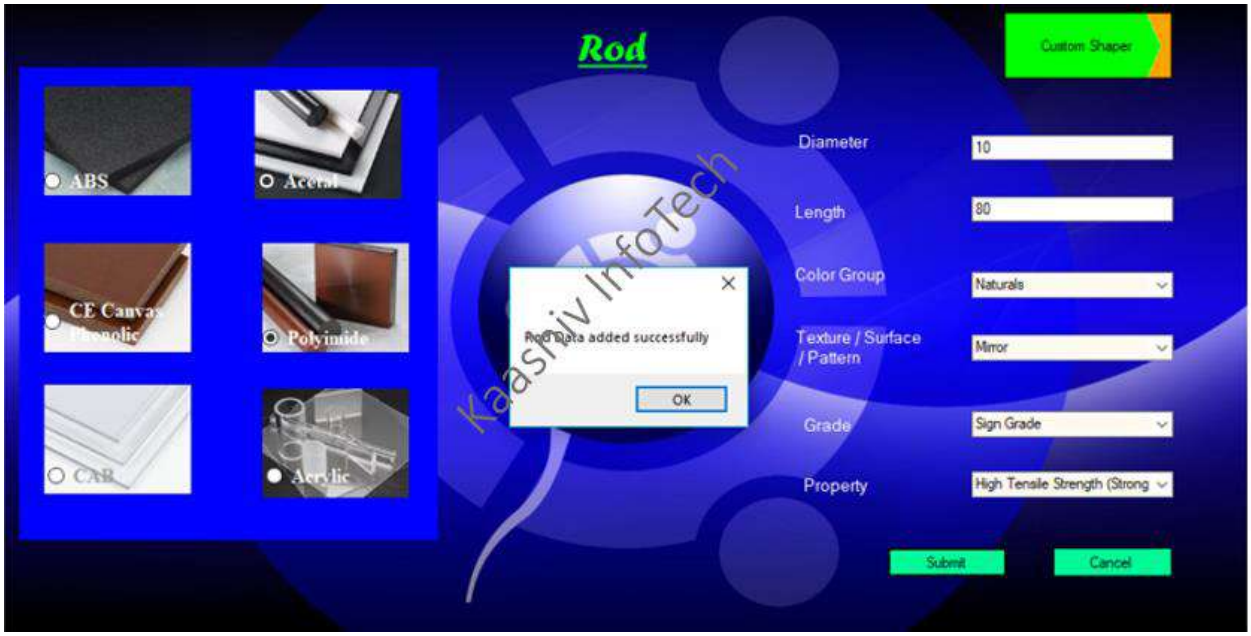
E-PLASTIC MANAGEMENT SYSTEM

E-Plastic management system is an website project in the project we are used to recycle the waste plastic. It is very helpful in order to overcome the wastage issues of the plastics. The user can able to view the list of plastic categories based on their shapes they can choose any of it. The admin used to maintain all the records. Admin also can view the users details add details of product and can also able to update the changes in the details.The management and recycling of E plastic waste is rapidly growing as it is a valuable resource of industries and it is very substances and with low recycling rate. The Utilization of e plastic waste materials is a partial solution to environmental and ecological problems. As the use of E plastic waste will reduces the Aggregate cost and provides a good strength for the structures and roads. It will reduces the landfill cost and it is energy saving. The e plastic waste consists of discarded plastic waste; these plastics are non-biodegradable components of E plastic waste as a partial replacement of the coarse or fine aggregates.

ARCHITECTURE DIAGRAM




Rod
Custom Shaper
ABS
Acetal
CE Canvas Phenolic
Polyimide
CAB
Acrylic
Diameter
10
Length
80
Color Group
Naturals
Texture / Surface / Pattern
Mirror
Grade
Sign Grade
Property
High Tensile Strength (Strong
Submit
Cancel
Rod Data added successfully
OK
Kaashiv InfoTech

PROJECT REPORT

ON

CROP MANAGEMENT SYSTEM

Submitted By

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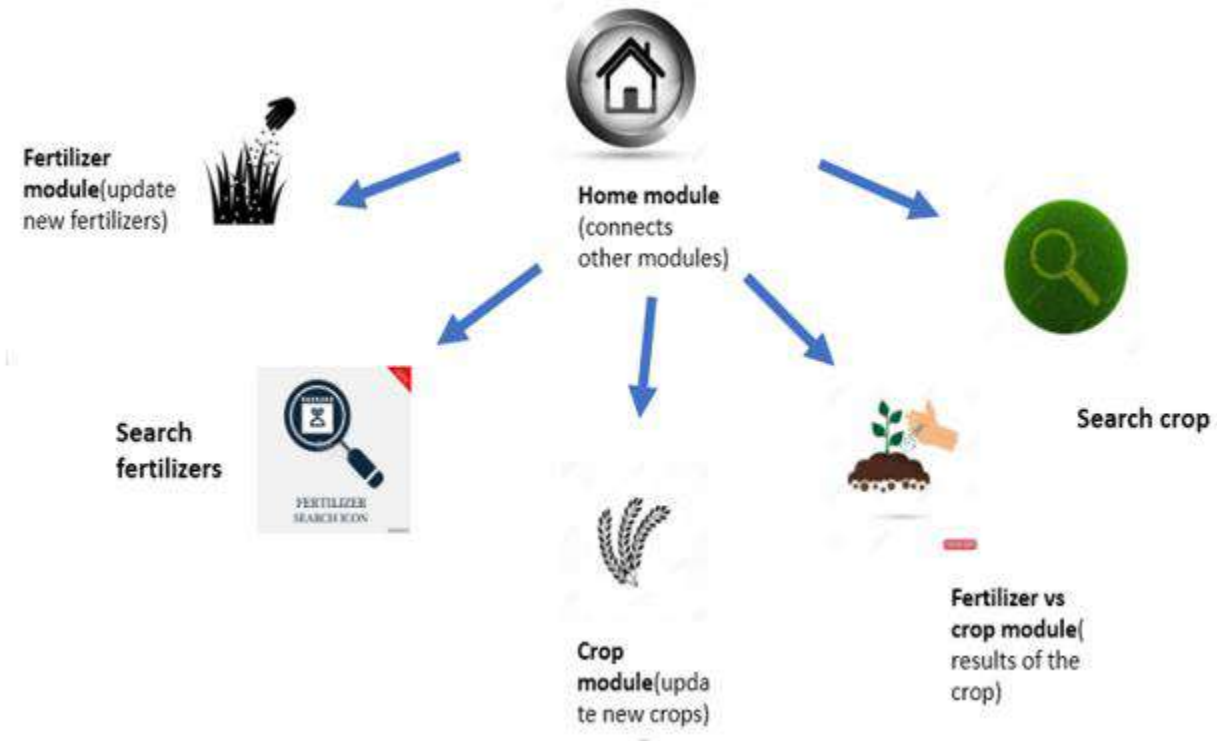
CROP MANAGEMENT SYSTEM

The crop is basic reason of production of food and raw material, which eventually is reason of survival of the population. In Indian most of the population is dependent on crops. However, there is also need to review and revitalize the mechanism for updating the technology. In the upcoming years agriculture will see major changes. The main purpose for such project is to develop a mobile phone-based solution that helps in crop management, leads to agricultural yield improvement and helps in care/maintenance of the crops. The large amount of crop is getting damage in the field due to the bacterial attacks and lack of information resources. Annually, such loss exceeds 40% in total. So, the project presented here suggest various ways in which a farmer can utilize on their handsets using application called “crop management system”, to assist them for relatively better cultivation and merchandise. Our proposed crop management system application will provide the details about customer and farmer and also it avoids the third party buyer problem which cause problem for farmers. This project used to search for fertilizer and cultivate crop. This helps to update the fertilizer and crop and cultivate. And shows the result of the crop cultivated.



DADI INSTITUTE OF ENGINEERING &TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi& Permanently Affiliated to JNTU, Kakinada)

NAAC Accredited Institute

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1.IoT based Weather Monitoring system using Raspberry Pi

19U41A0401	Guide Name Mrs.D.L.Mythri,Asst.Professor
19U41A0403	
19U41A0405	
19U41A0407	
19U41A0410	
19U41A0412	

Abstract

Internet of Things (IoT) has provided a promising opportunity to build powerful industrial systems and applications by leveraging the growing ubiquity of RFID, wireless, mobile and sensor devices. A wide range of industrial IoT applications have been developed and deployed in recent years. The advancement of Automation technology, life is getting simpler and easier in all aspects. In today's world Automatic systems are being preferred over manual system. With the rapid increase in the number of users of internet over the past decade has made Internet a part and parcel of life, and IoT is the latest and emerging internet technology. Internet of things is a growing network of everyday object-from industrial machine to consumer goods that can share information and complete tasks while you are busy with other activities. This work proposes that the industrial monitoring by using Gas sensor, Temperature sensor, MEMS, Piezoelectric Sensor values to read the value and monitoring using Thingspeak system via Raspberry Pi.

ThingSpeak is an application platform for the Internet of Things. ThingSpeak allows to build an application around data collected by sensors. At the heart, ThingSpeak is a Channel where sent data to be stored. Each channel includes 8 fields for any type of data, 3 location fields, and 1 status field. Once ThingSpeak Channel is created, data can be published to the channel, can be processed and application can retrieve the data.

Existing System

- Manually Monitoring the Industrial application
- By using the GSM technology, it will take more time to get the exact situation
- CCTV camera monitoring is possible but can't able to sense the gas, temperature, and position of the valves.

Proposed System

- The Internet of Things is regarded as the third wave of information technology after Internet and mobile communication network, which is characterized by more thorough sense and measure, more comprehensive interoperability and intelligence.
- IoT Consumes the time and monitoring the exact situation.

Hardware

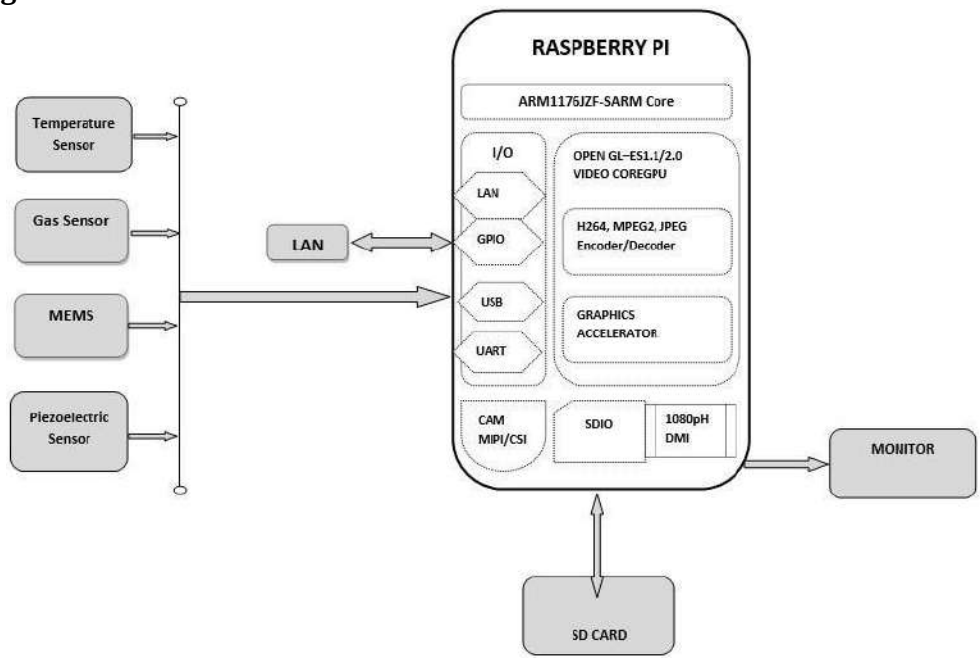
- Raspberry Pi
- Temperature Sensor

- Gas Sensor
- MEMS Sensor
- Piezoelectric Sensor

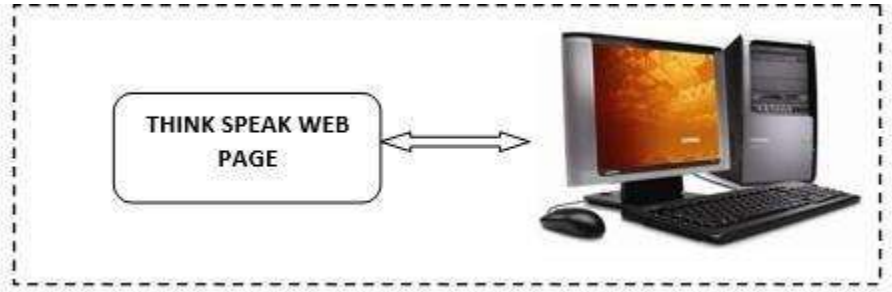
Software

- OS: Raspbarian OS
- Python Language

Block Diagram



Monitoring Section



Advantages

- Decreased field damaging conditions
- Improved safety and security
- High quality receiving data
- Less power consumption
- High speed data rate

Applications

- Industry Monitoring
- Home Automation
- Medical Industry

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2. IoT based Health Monitoring System using Node MCU

19U41A0402	Guide Name Mrs. Archana BT, Asst.Professor
19U41A0404	
19U41A0417	
19U41A0422	
19U41A0433	
19U41A0432	

Abstract

This work introduces a wireless health monitoring system that can monitor a human 24x7. Controlling and data processing is done through the NodeMCU ESP8266 board, all the sensors are connected to NodeMCU ESP8266. Through this system, we can measure ECG, heartbeat, BP, and temperature. Through sensors, it is possible to measure all these values. Here all the sensors are powered using USB. The analog sensors can be connected to MCP3008 through any of the eight analog pins. These values are then used for detecting any critical situation. In the case of a critical situation, an alert value displayed in Thingspeak. Also, it is possible to monitor the person's health from any location in the world through the Thingspeak cloud. Data from sensors is uploaded to the Thingspeak periodically without any interruption if the internet is available. Here NodeMCU ESP8266 is used for connecting the internet.

Introduction

Health is the most important part of any human's life without health it is useless to any treasure of life. Most humans live a busy life in which going to a doctor for weekly or even monthly checkup is an impossible task. Without monitoring health it is not possible to judge whether a person is healthy or sick. This problem leads to the design of a product which monitors health every day without going to a doctor. In this work, a system is designed as a prototype for monitoring alerting based on the health of a person. This system is fully automated little or no human help is needed. Any doctor can monitor the person from anywhere through the internet.

Existing System

- Diagnosing with the help of a doctor
- Conventional devices that can only measure a particular parameter
- Devices that have to be connected invasively to get measurements
- No automated system exists
- Smart watches are expensive and not specifically for healthcare

Proposed System

- In this work, a system for 24x7 human health monitoring is designed and implemented
- In this system, the NodeMCU ESP8266 board is used for collecting and processing all data

- Different sensors are used for measuring different parameters
- All this data is uploaded toThingspeak for remote analysis
- A nodeMCU ESP8266 module is used for connecting to the internet

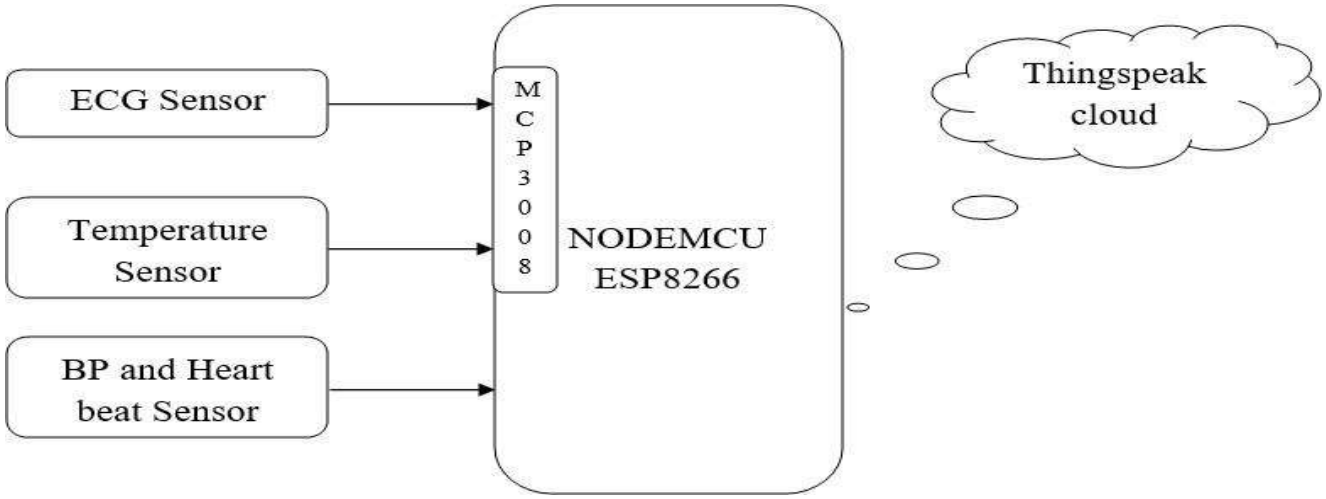
Hardware Required

- NodeMCU ESP8266
- ECG Sensor
- Heartbeat Sensor
- BP Sensor
- Temperature Sensor

Software Required

- Arduino IDE

Block Diagram



Block Diagram Description

- NodeMCU ESP8266 is the controller board which is a heart-whole system
- All the different analog sensors are connected through MCP3008 analog pins
- Here the NodeMCU ESP8266 connects the whole system to a Wi-Fi network
- Data from sensors are uploaded to the cloud

Conclusion

This system is very effective in monitoring a person's health continuously because it is fully automated. It can be tested very easily with any person. This system is a very good example of remote health monitoring.

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3. Smart Irrigation System using IoT and cloud

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19U41A0425	
19U41A0430	
19U41A0438	

Abstract

This work presents the development of a smart sensor based environment monitoring system, in remote villages especially for crop fields. Basically, it is difficult to monitor the environment, weather all the time, so this work is proposed to monitor the weather and any environment changes using IoT through SMTP and MQTT which having some sensors like Temperature sensor, Moisture sensor, Gas sensor and LDR which measures respective parameters throughout the day. At the same time sensors are not having ability to predict the weather accurately, so weather cloud is used to know the current weather and climate change yet to happen, like every weather information is monitored, when there are any chances of rain in weather cloud then the camera gets triggered and capture the image of the atmosphere with the data log of current weather logs and upcoming weather logs are sent to mail by the user. And also parameters measured by sensors are sent through MQTT protocol, which having the common node, whenever MQTT client comes into the network, not only the current data log, but also the old data also sent to that MQTT client which has high speed transmission.

Introduction

Beginning with the quote "SAVE THE AGRICULTURE", main factor of agriculture is to predict the climatic changes, here we are using IoT for monitoring the weather as well as atmospheric changes throughout the crop field by having several systems in different fields as clients, which is getting reported every time to the server, about the current atmospheric change at that every certain place. So that, watering and pesticides can be served based on the conditions of the field.

Existing system

In the existing system, all weather predictions and environmental change are done manually and they are using WSN for the communication, it is actually slower than MQTT so that transmission occurs slowly which also may cause a collision, when client is disconnected unexpectedly.

Proposed system

In this proposed system, both sensors and weather forecasting cloud is used, so that resulting data having high accuracy about the environment, also using MQTT (Message Queuing Telemetry Transport) which is very much faster than WSN, yields good result. By this system all

gets processed automatically, if there is any possibility of rain in weather cloud, then the current climatic conditions and upcoming possibilities of rain data log and also the current image of the environment will be sent to the user's mail. At that time sensor's data were sent to the MQTT client, whenever the client comes into the network, they will receive that data.

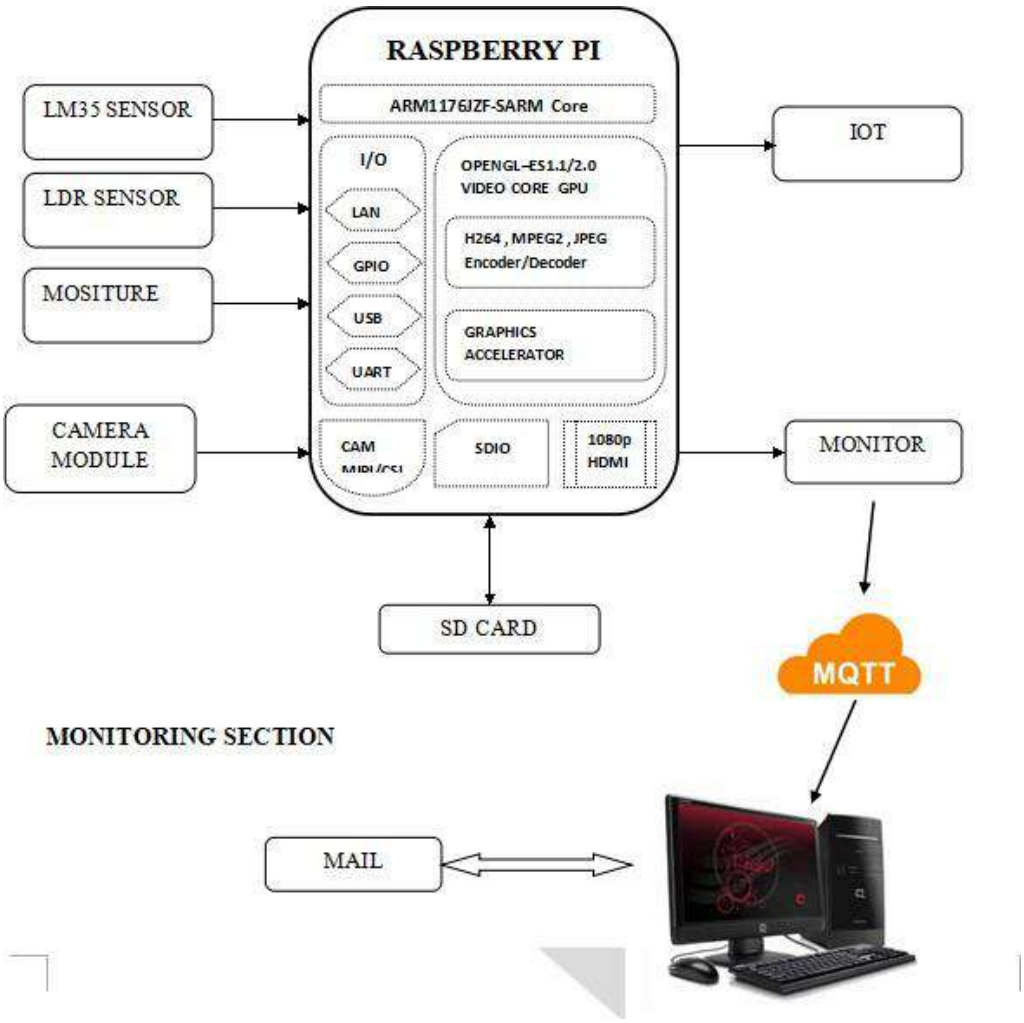
Hardware required

- Raspberry Pi
- Temperature (LM 35)
- LDR
- Moisture Sensor
- Smoke sensor
- MCP3008 (ADC IC)
- USB Camera
- SD card
- Monitor

Software required

- Raspbarian Jessie

Block diagram



Block diagram

- In this work, MCP3008 is used, so connect 3.3v pin from raspberry to all sensors
- Similarly MCP3008 and all sensor's ground pins should be grounded
- Now connect the sensor's output pins to each channel of MCP3008 (ex: LM-35 to channel 0, LDR to channel 1 and Moisture sensor to channel 2 of MCP3008)
- Connect USB camera with raspberry pi
- Connect power supply for Raspberry pi
- Plug the HDMI cable in Raspberry pi from the monitor using VGA to HDMI converter cable
- Connect USB Mouse and USB keyboard to the Raspberry pi
- PHP
- MQTT Protocol
- Language – Linux
- Python

Conclusion

According to this system, irrigation system becomes more autonomous with quick transmission of data by using MQTT protocol. The main advantage in MQTT protocol is, even when clients are not in the node network, data will be sent, whenever a client is connected with that node, they can able to see the data which has been sent already. So that, they can able to analyze the atmospheric change throughout every day.

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4. IoT based Smart Waste Management System using Arduino

19U41A0409	Guide Name Mrs. P Amrutha, Asst.Professor
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19U41A0415	
19U41A0421	
19U41A0424	
19U41A0426	

ABSTRACT

In this work, a system is introduced to manage waste in big cities effectively without having to monitor the parts 24x7 manually. Here the problem of unorganized and non-systematic waste collection is solved by designing an embedded IoT system that will monitor each dumpster individually for the amount of waste deposited. Here an automated system is provided for segregating wet and dry waste. A mechanical setup can be used for separating the wet and dry waste into separate containers here sensors can be used for separating wet and dry. For detecting the presence of any waste wet or dry can be detected using an IR sensor in the next step for detecting wet waste a moister sensor can be used. In this process, if only IR is detected motor will rotate in the direction of the dry waste container if both the sensor detects the waste then it will go to the wet container. Both these containers are embedded with ultrasonic sensors at the top, the ultrasonic sensor is used for measuring distance. This makes it possible to measure the amount of waste in the containers if one of the containers is full then an alert message will be sent to the corresponding person.

INTRODUCTION

Today big cities around the world are facing a common problem, managing the city waste effectively without making city unclean. Today's waste management systems involve a large number of employees being appointed to attend a certain number of dumpsters this is done every day periodically. This leads to a very inefficient and unclean system in which some dumpsters will be overflowing some dumpsters might not be even half full. This is caused by variation in population density in the city or some other random factor this makes it impossible to determine which part needs immediate attention. Here a waste management system is introduced in which each dumpster is embedded in a monitoring system that will notify the corresponding personal if the dumpster is full. In this system, it is also possible to separate wet and dry waste into two separate containers. This system provides an effective solution to the waste management problem

EXISTING SYSTEM

- Manual systems in which employees clear the dumpsters periodically
- No systematic approach towards clearing the dumpsters
- Unclear about the status of a particular location

- Employees are unaware of the need for a particular location
- Very less effective in cleaning city

PROPOSED SYSTEM

- In this work, a 24x7 monitoring system is designed for monitoring dumpsters
- Here a smart and organized system is designed for selective clearing
- The ultrasonic sensor is used for measuring the level of waste in the dumpster
- DC motor powered platform is used for segregating wet and dry waste
- IR sensor and moisture sensor is used for separating wet and dry waste
- If either of the containers is full then an alert message is sent from the dumpster
- In turn, employees can clear the corresponding dumpster
- All these sensors are connected to an Arduino UNO board
- It can be used for controlling all mechanical setup based on current conditions

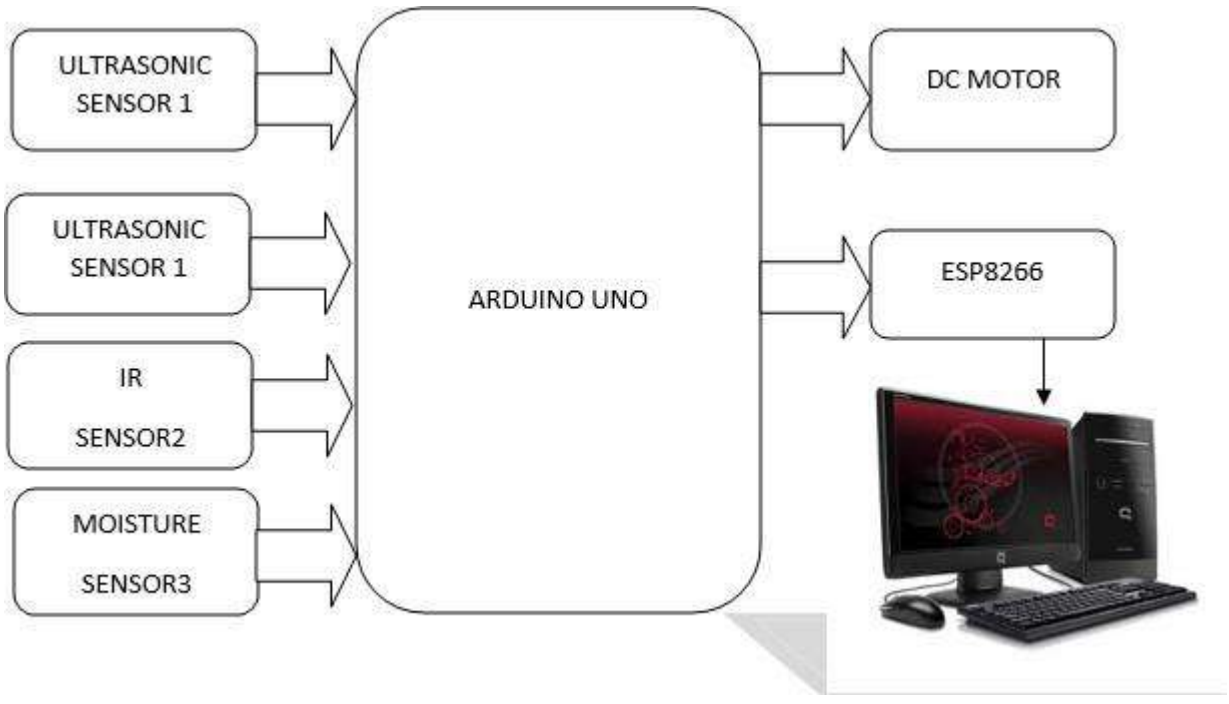
HARDWARE REQUIREMENTS

- Arduino UNO
- Ultrasonic Sensor
- IR Sensor
- Moisture Sensor
- Dc Motor

SOFTWARE REQUIREMENTS

- Arduino IDE

BLOCK DIAGRAM



BLOCK DIAGRAM DESCRIPTION

- Ultrasonic sensor Sensors measure distances by using ultrasonic waves. The sensor emits an ultrasonic wave and receives the reflected wave back from the target.
- IR Sensor emits in order to sense some aspects of the surroundings.
- Moisture Sensor measures the volumetric water content in the soil. ... Reflected microwave radiation is affected by the soil moisture and is used for remote sensing hydrology and agriculture.
- DC motor which is connected to the digital pins of Arduino
- Serial monitor for the display

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5. Greenhouse Monitoring and Control System using IOT Project

19U41A0429	Guide Name Mr. Jagan Mohan Panigrahi Asst.Professor
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19U41A0419	
19U41A0427	
19U41A0431	
19U41A0434	

Abstract

A green house is where plants such as flowers and vegetables are grown. Greenhouses warmup during the day when sun-rays penetrates through it, which heats the plant, soil and structure. Green houses help to protect crops from many diseases, particularly those that are soil borne and splash onto plants in the rain. Greenhouse effect is a natural phenomenon and beneficial to human being. Numerous farmers fail to get good profits from the greenhouse crops for the reason that they can't manage two essential factors, which determines plant growth as well as productivity. Green house temperature should not go below a certain degree, High humidity can result to crop transpiration, condensation of water vapour on various greenhouse surfaces, and water evaporation from the humid soil. To overcome such challenges, this greenhouse monitoring and control system comes to rescue. This Work demonstrates the design and implementation of a various sensors for greenhouse environment monitoring and controlling. This greenhouse control system is powered by Atmega328 microcontroller it consists of temperature sensor, light sensor, soil moisture sensor, LDR sensor, LCD display module, 12v DC fan, Bulb and pump. Temperature sensor senses the level of temperature, if it goes high DC fans gets on and when the temperature goes low the fan gets off. Soil moisture sensor, senses the water level as the level decreases the pumps gets on. In the absence of light, the LDR sensor senses and the bulb start glowing. By this way it will become easy to monitor and control the system.

Hardware Specifications:

- At mega Controller
- WIFI
- Moisture Sensor
- Light Sensor
- Temperature Sensor
- LCD
- DC FAN
- Bulb holder
- AC Pump
- Crystal Oscillator
- Resistors
- Capacitors

- Transistors
- Cables and Connectors
- Diodes
- PCB and Breadboards
- LED
- Transformer/Adapter
- Push Buttons
- Switch
- IC
- IC Sockets

Software Specifications:

- Python
- MC Programming Language: C
- IOT Gecko

Block Diagram:

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6. IOT Early Flood Detection & Avoidance

19U41A0429	Guide Name Mr. R Suneel Asst.Professor
19U41A0408	
19U41A0419	
19U41A0427	
19U41A0431	
19U41A0434	

Abstract:

"IoT Early Flood Detection & Avoidance System" is an intelligent system which keeps close watch over various natural factors to predict a flood, so one can embrace themselves for caution, to minimise the damage caused by the flood. Natural disasters like a flood can be devastating leading to property damage and loss of lives. To eliminate or lessen the impacts of the flood, the system uses various natural factors to detect flood. The system has a wi-fi connectivity, thus it's collected data can be accessed from anywhere quite easily using IoT.

To detect a flood the system observes various natural factors, which includes humidity, temperature, water level and flow level. To collect data of mentioned natural factors the system consist of different sensors which collects data for individual parameters. For detecting changes in humidity and temperature the system has a DHT11 Digital Temperature Humidity Sensor. It is an advanced sensor module with consists of resistive humidity and temperature detection components. The water level is always under observation by a float sensor, which works by opening and closing circuits (dry contacts) as water levels rise and fall. It normally rest in the closed position, meaning the circuit is incomplete and no electricity is passing through the wires yet. Once the water level drops below a predetermined point, the circuit completes itself and sends electricity through the completed circuit to trigger an alarm. The flow sensor on the system keeps eye on the flow of water.

The water flow sensor consists of a plastic valve body, a water rotor, and a hall-effect sensor. When water flows through the rotor, rotor rolls. Its speed changes with different rate of flow. The system also consists of a HC-SR04 Ultrasonic Range Finder Distance Sensor. The Ultrasonic sensor works on the principle of SONAR and is designed to measure the distance using ultrasonic wave to determine the distance of an object from the sensor. All the sensors are connected to Arduino UNO, which processes and saves data. The system has wi-fi feature, which is useful to access the system and its data over IoT.

Hardware Specifications

- Arduino Uno
- Wifi Module

- Temperature Humidity Sensor
- Ultrasonic Sensor
- Water Flow Sensor
- Water Level Sensor
- LCD Display
- Resistors
- Capacitors
- Transistors
- Cables and Connectors
- Diodes
- PCB and Breadboards
- LED
- Transformer/Adapter
- Push Buttons
- Switch
- IC
- IC Sockets

Software Specifications

- Arduino Compiler
- MC Programming Language: C
- IOT Gecko

Block Diagram:

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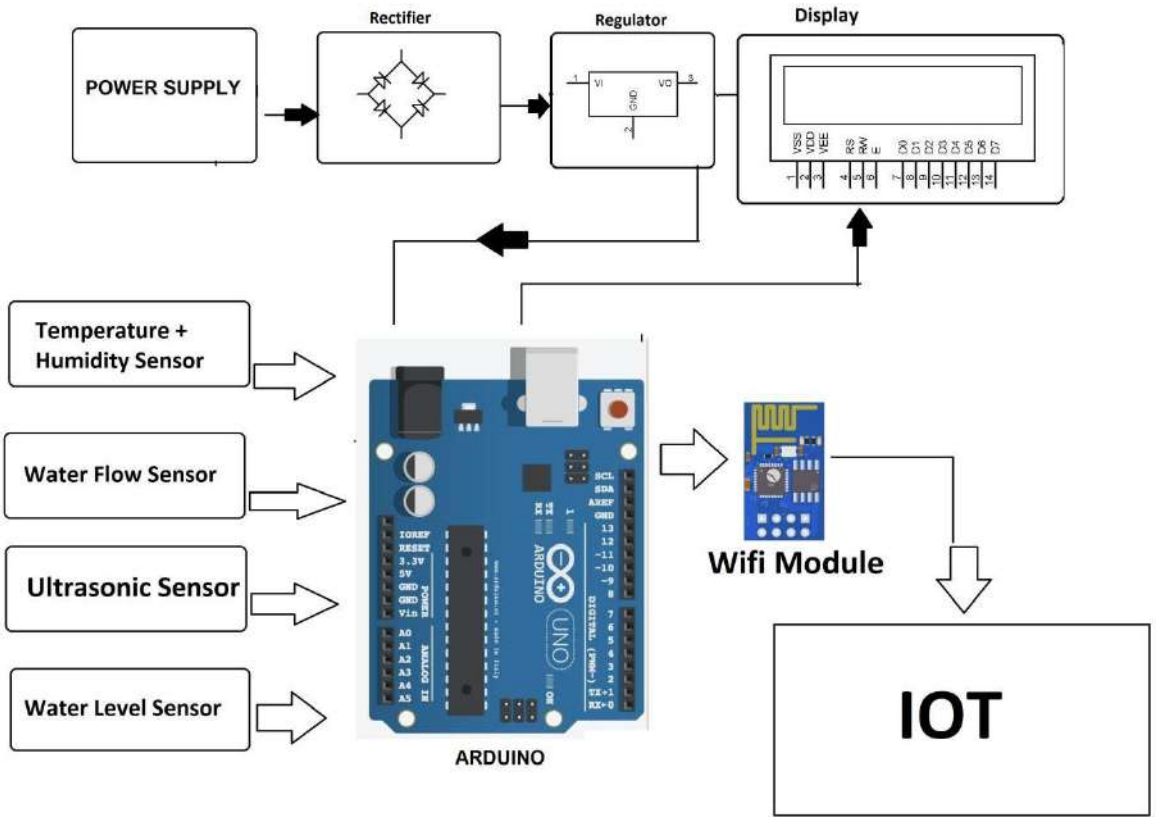

ANALYSIS AND DESIGN OF (G+3) BUILDING USING STAAD PRO V8i WITH COMPARISON TO MANUAL

BACHELOR OF TECHNOLOGY

IN

CIVIL ENGINEERING

Submitted by

K. Manikanta	(18U45A0144)
B. Tharuna Sai Sri	(18U45A0102)
P. Dilip Kumar	(18U45A0107)
M. Sai Kumar	(18U45A0148)
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Er .N. Ramu **B.Tech, M.Tech, AMIE.**

(Licensed civil engineer approved by GVMC)

Assistant professor and

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CERTIFICATE

This is to certify that the Project work entitled "Analysis and design of (G+3) building using staad pro v8i comparison to manual . is a Bonafide work done by K.Manikanta (18U45A0144) B.Tharuna sai sree(18U45A0102) P.DilipKumar(18U45A0107) M. Sai Kumar (18U45A0148) B. Pavan Kondala Rao (17U45A0108) in partial fulfillment of the curriculum of Bachelor Of Technology In Civil Engineering During the academic year 2020- 2021.

PROJECT GUIDE

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HEAD OF THE DEPARTMENT

Er.N. Ramu,M.Tech,
Head of the Department
Department of Civil Engineering

Prof KVSG Murali Krishna
EXTERNAL EXAMINER

AN EXPERIMENTAL INVESTIGATION TO STUDY THE BEHAVIOUR OF CONCRETE USING PLASTIC WASTE AS THE PARTIAL REPLACEMENT OF FINE AGGREGATE

This project is submitted to the JNTU Kakinada with fulfillment of the requirement

For the degree of **B.Tech**

In

CIVIL ENGINEERING

Submitted by

B VIJAYA KUMAR	(17U41A0101)
M GANESH	(18U45A0106)
J DURGA DEVI	(18U45A0110)
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Department of Civil Engineering

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www.diet.edu.in

(2017 – 2021)

CERTIFICATE

This is to certify that the project work entitled **An Experimental Investigation To Study The Behaviour Of Concrete Using Plastic Waste As The Partial Replacement Of Fine Aggregate.** That is being submitted by B VIJAYA KUMAR (17U41A0101), M GANESH (18U45A0106), J DURGA DEVI (18U45A0110), D SRAVANTHI (18U45A0114), P MANIKANTA SHYAM (18U45A0149), for the fulfilment of the requirements for the award of degree in CIVIL ENGINEERING to JNTU Kakinada is a record of BONDIFIED work carried out by him under my guidance supervision

O. Suresh

O.SURESH M.tech,(Ph.D)

AMIE,C.Engg,Asst.Professor
Department of CIVIL Engineering
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Project guide

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Head of the Department
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Jagadguru Institute of Engg. & Tech.
Anakapalle - 531 001

Prof. K. V. S. G. MURALI KRISHNA

EXTERNAL EXAMINAR

AN EXPERIMENTAL INVESTIGATION ON LIGHT WEIGHT REINFORCED CONCRETE ELEMENTS BY USING POLYPROPYLENE MATERIAL

A Project Report submitted in partial fulfillment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

In

CIVIL ENGINEERING

Submitted by

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P.SAIKUMAR	16U41A0110
G.PYDI RAJESH	16U41A0104
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2016 - 2020

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CERTIFICATE

This is to certify that the Project work entitled "**AN EXPERIMENTAL INVESTIGATION ON REINFORCED CONCRETE ELEMENTS BY USING POLYPROPYLENE MATERIAL**" is a being submitted by P.SAIKUMAR (16U41A0110),CH.DURGAPRASAD(17U45A0107),G.PYDIRAJESH(16U41A0104),S.JAGADEESH(17U45A0151),P.RAJMAHESH (16U41A0114)in partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY IN CIVIL ENGINEERING during the academic year 2019-20.

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Dr.CH.KANNAM NAIDU
(PROFESSOR)
(HEAD OF THE DEPARTMENT)

Prof. K.V.S.G. Murali Krishna
EXTERNAL EXAMINER

IMPROVING THE PROPERTIES OF ASPHALT CONCRETE BY ADDITION OF PLASTIC WASTE AND CRUMB RUBBER

A Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

in

CIVIL ENGINEERING

Submitted by

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NH-5, Anakapalle-531001, Visakhapatnam, A.P. 2016-2020

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NH-5, Anakapalle-531002, Visakhapatnam, A.P

CERTIFICATE

This is to certify that the Project work entitled **"IMPROVING THE PROPERTIES OF ASPHALT CONCRETE BY ADDITION OF PLASTIC WASTE AND CRUMB RUBBER"** is an authentic work submitted by B. NAVEENA LAKSHMI (17U45A0104), M. NAVEEN (17U45A0134), M. SANTOSH (17U45A0128), S. SIRISHA (16U41A0115), V. BHASKAR (16U41A0113) in partial fulfilment of the requirement for the award of the degree of Bachelor Of Technology in Civil Engineering from Diet College Of Engineering during the academic year 2019-2020.

Mr. M. R. V. S. G. GUPTHA, M. Tech
(ASSISTANT PROFESSOR)
(PROJECT GUIDE)

Dr CH. KANNAM NAIDU
(PROFESSOR)
(HEAD OF THE DEPARTMENT)

Prof. K.V.S.G. Murali Krishna
EXTERNAL EXAMINER

COMPARATIVE STUDY OF RC STRUCTURES USING SEA SAND & REINFORCEMENT COVERED BY PLASTIC TUBES

(MODERN CONCRETE)

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

in

CIVIL ENGINEERING

Submitted by

S.VENKATESH	-	(17U45A0145)
P.BALA SAI	-	(17U45A0136)
B.SIVA VENKATA SAI	-	(17U45A0106)
M.PRAVEEN KUMAR	-	(17U45A0132)
M.BHANU PRASAD	-	(17U45A0133)

Under the guidance of

Mr. P. LAKSHMINARAYANAM.Tech, IAENG

Assistant Professor, Department of Civil Engineering

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2016-2020

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An ISO 9001:2008, ISO 14001:2004 & OHSAS 18001:2007 Certified Institute.

NH-16, Anakapalle – 531002, Visakhapatnam, A.P.

CERTIFICATE

This is to certify that the Project work entitled **"COMPARATIVE STUDY OF RC BEAMS USING SEA SAND & REINFORCEMENT COVERED BY PLASTIC TUBES"** is a Bonafede work done by S. VENKATESH (17U45A0145), P. BALA SAI(17U45A0136), B. SIVA VENKATA SAI(17U45A0106), M. PRAVEEN KUMAR(17U45A0132), M. BHANU PRASAD(17U45A0133), in partial fulfilment of the curriculum of **Bachelor of Technology In Civil Engineering** Duringthe academic year 2019-2020.

PROJECT GUIDE

Mr. P. LAKSHMINARAYANA,M.Tech,IAENG

Assistant Professor

Department of Civil Engineering

HEAD OF THE DEPARTMENT

Dr Ch. Kannam Naidu, M.Tech,PhD.

Professor

Department of Civil Engineering

Prof. K.V.S.G. Murali Krishna

EXTERNAL EXAMINER

AN EXPERIMENTAL STUDY ON STRENGTH CHARACTERISTICS OF CONCRETE BY PARTIAL REPLACEMENT OF CEMENT WITH GGBS AND FINE AGGREGATE WITH COPPER SLAG

A Project Report submitted in partial fulfilment of the requirements for the

Award of the Degree of

BACHELOR OF TECHNOLOGY

In

CIVIL ENGINEERING

Submitted by

B.MEGHANA	(18U45A0103)
B.RAMU	(18U45A0138)
G.ROHITH	(18U45A0150)
A.VENKATESH	(18U45A0115)
V.R.S.MADHURI	(17U41A0103)

Under the Esteemed Guidance of

Mr.K.APPALA NAIDU M.Tech

Asst. Professor, Department of Civil Engineering

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CERTIFICATE

This is to certify that the project work entitled **"AN EXPERIMENTAL STUDY ON STRENGTH CHARACTERISTICS OF CONCRETE BY PARTIAL REPLACEMENT OF CEMENT WITH GGBS AND FINE AGGREGATE WITHCOPPER SLAG"** is a record of work carried out by B.MEGHANA(18U45A0103),B.RAMU(18U45A0138),G.ROHITH(18U45A0150) .A.VENKATESH (18U45A0115), V.R.S.MADHURI(17U41A0103))in partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY IN CIVIL ENGINEERING during the academic year 2020-21

Mr.K.APPALA NAIDU
(ASST.PROFESSOR)
(PROJECT GUIDE)

Sri.N.RAMU
B. Tech, M. Tech, AMIE
(HEAD OF THE DEPARTMENT)

Head of the Department
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Prof KVSG Murali Krishna
EXTERNAL EXAMINE

XPERIMENTAL STUDY ON REACTIVE POWDER CONCRETE

A project report submitted in partial fulfillment of the

Requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

CIVILENGINEERING

DADI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Permanently Affiliated to JNTU KAKINADA & NAAC Accredited Institute)

Presented By

K.ROOP CHANDU	18U45A0119
B.RAMESH	18U45A0109
P.KUMAR	18U45A0143
K.RAMYA	18U45A0105
G.S.NAIDU	16U41A0105

Under the Esteemed Guidance of

Mr. B. SUDHEER KUMAR, M Tech, MISTE

Assistant Professor, Department of CIVIL

CERTIFICATE

This is to certify that the project report entitled, "AN **EXPERIMENTAL STUDY ON REACTIVE POWDER CONCRETE** "is being submitted by K. ROOP CHANDU(18U45A0119), B. RAMESH (18U45A0109), P. KUMAR(18U45A0143), K. RAMYA(18U45A0105), G.S. NAIDU(16U45A0105). **In partial fulfillment of the** requirement for the award of the degree of BACHELOR OF TECHNOLOGY **in CIVIL** ENGINEERING during the academic year 2020-2021.

B.S

Mr. B. SUDHEER KUMAR, M Tech, MISTE
Assistant Professor,
Department of Civil Engineering
PROJECT GUIDE

Mr. N. Ramu, M Tech
HEAD OF CIVIL DEPARTMENT

Prof. murali krishna
EXTERNAL EXAMINER

EXPERIMENTAL STUDY ON BEAD RUBBER CEMENT CONCRETE (BRCC)

This project is submitted to the JNTU Kakinada with fulfillment of the requirement

For the degree of **B.Tech**

In

CIVIL ENGINEERING

Submitted by

K MOHAN	(18U45A0126)
V PRASANNA SAI	(18U45A0108)
B CHAKRAVARTHY	(18U45A0141)
P SOMESH	(18U45A0123)
M SAI	(18U45A0145)
P DIVYA	(18U45A0132)

Under esteemed guidance of
Mr. M. RVSG Guptha M. Tech
Assistant professor, DEPT. OF CIVIL ENGINEERING

DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

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DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

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This is to certify that the project work entitled **Experimental study on Bead Rubber Cement Concrete (BRCC).** That is being submitted by K MOHAN (18U45A0126), V PRASANNA SAI (18U45A0108), B CHAKRAVARTHY (18U45A0141), P SOMESH (18U45A0123), M SAI (18U45A0145), P DIVYA (18U45A0132), for the fulfillment of the requirements for the award of degree in CIVIL ENGINEERING to JNTU Kakinada is a record of BONDIFIED work carried out by him under my guidance supervision

Mr. M RVSG Guptha M. Tech
Assistant professor
DEPT. of civil engineering
Project guide

Mr. N. Ramu M. Tech
HOD OF CIVIL ENGINEERING
Head of the Department
Civil Engineering
Dadi Institute of Engg. & Tech
Anakapalle - 531 002

PROF. KVSG MURALI KRISHNA
EXTERNAL EXAMINAR

A PROJECT REPORT

ON

A CASE STUDY ON REPAIR AND REHABILITATION OF CRACKS IN STRUCTURES

Submitted To "JNTU-KAKINADA" For Fulfilment of Requirements

For the award of Degree of

BACHELOR OF TECHNOLOGY

IN

CIVIL ENGINEERING

B PRAHARSHITHA	-	18U45A0101
N TEJA	-	18U45AO125
P RAKESH	-	18U45A0121
N SAI MANIKANTA	-	18U45A0133
M SRINU	-	18U45A0129

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M.KEDHARESWARI M. Tech

DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

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Visakhapatnam, Andhra Pradesh, INDIA

DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

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Visakhapatnam, Andhra Pradesh, INDIA

CERTIFICATE

This is to certify that the project work entitled, "**A CASE STUDY ON REPAIR AND REHABILITATION OF CRACKS IN STRUCTURES"** submitted by B.PRAHARSHITHA (18U45A0101), N.TEJA (18U45A0125), P.RAKESH (18U45A0121), N.SAI MANIKANTA (18U45A0133), M.SRINU (18U45A0129) in partial fulfilment of the requirements for the award of Bachelor of Technology Degree in "Civil Engineering" to JNTU Kakinada is a record of BONDIFIED work carried out by him under my guidance supervision.

Miss. M. KEDARESWARI M. Tech

Assistant professor

DEPT. of civil Engineering

Project guide

Mr. N. Ramu M. Tech

H.O.D, Dept. of Civil Engineering

Head of the Department
Civil Engineering
Dadi Institute of Engg. & Tech.
Anakapalle - 531 002

PROF. K.V.S.G. MURALI KRISHNA

EXTERNAL EXAMINER

EXPERIMENTAL STUDY ON STONE MASTIC ASPHALT WITH THE USAGE OF FIBRES

A project report submitted inpartial fulfilment of the requirements for the award of the Degreeof

BACHELOR OF TECHNOLOGY

IN

CIVIL ENGINEERING

Submitted by

K.GANESH	- 18U45A0118
K.ANILKUMAR	- 18U45A0142
G.YAMUNA	- 18U45A0120
V.RAVITEJA	- 18U45A0116
K.GOVINDU	- 17U41A0107

Under the Guidance of

Smt. B.Ramya

Assistant Professor, Department of CIVIL

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CERTIFICATE

This is to certify that the project work entitled "EXPERIMENTAL STUDY ON USING FIBRES"submitted by K.GANESH(18U45A0118)K.ANIL(18U45A0142),V.RAVITEJA(18U45A0116),G.YAMUNA(18U45A0120), K.GOVINDU(17U41A0102)and n partial fulfillment of the requirements for the award of bachelor of technology degree in " civil Engineering"to JNTU Kakinada is record of BONDIFIED work carried out by her under my guidence supervision

Smt.B.Ramya M.Tech

Assistant professor
Civil Engineering

Project guide

MR.N.RAMU M.Tech

H.O.D.dept of civil

Head of the Department
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Nandamuru - 533 007

Prof KVSG Murali Krishna
EXTERNAL EXAMINER

EXPERIMENTAL STUDY ON STABILIZATION OF SOIL BY USING BAGASSE ASH AND LIME.

A project report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

CIVIL ENGINEERING

Submitted by

R. MANIKANTA	18U45A0136
Y. SAI SANKAR	18U45A0111
Y. DAMODARA RAO	18U45A0139
Y. RAMESH	18U45A0112
G. JAYAVARDHAN	18U45A0147

Under the Esteemed Guidance of

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NH-16, Anakapalle-531002, Visakhapatnam, A.P

CERTIFICATE

This is to certify that the project report entitled, **"EXPERIMENTAL STUDY ON STABILIZATION OF SOIL BY USING BAGASSE ASH AND LIME"** is being Submitted by R. MANIKANTA, Y. SAISANKAR, Y. RAMESH, Y. DAMODARA RAO, G. JAYAVARDHAN in partial fulfilment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY in CIVIL ENGINEERING** during the academic year 2020-2021.

Mrs. PUNNAM.LAVANYA M. Tech
(Assistant Professor)
(PROJECT GUIDE)

Sri. N. RAMU M. Tech
(Asst.professor)
(HEAD OF CIVIL DEPARTMENT)

Prof. K.V.S.G. Murali Krishna
EXTERNAL EXAMINER

EXPERIMENTAL STUDY ON PERVIOUS CONCRETE WITH ADD MIXTURES

This project is submitted to the JNTU Kakinada with fulfillment of the requirement

For the degree of **B.Tech**

In

CIVIL ENGINEERING

Submitted by

B DEVI	18U45A0131
K DEVI	17U41A0110
D SRI RAM	18U45A0117
V V K K KUMAR	17U41A0105
S UMA MAHESH	18U45A0151

Under esteemed guidance of
Mr. M. RVSG Guptha M. Tech
Assistant professor, DEPT. OF CIVIL ENGINEERING

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DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

Department of civil engineering
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NH – 16, ANAKAPALLE – 531002, Visakhapatnam, Andhra State.)

This is to certify that the project work entitled **Experimental study on pervious concrete with add mixtures.** That is being submitted by B. DEVI,(18U45A0131),K.DEVI(17U41A0110),D.SRIRAM(18U45A0117) V.K.KIRAN KUMAR(17U41A0105), S.UMA MAHESH(18U45A0151) for the fulfilment of the requirements for the award of degree in CIVIL ENGINEERING to JNTU Kakinada is a record of BONDIFIED work carried out by him under my guidance supervision

Mr. M RVSG Guptha M.Tech
Assistant professor
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Project guide

Mr. N. Ramu M. Tech
HOD OF CIVIL ENGINEERING

Head of the Department
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Anakapalle - 531 002

PROF. KUSA MURALI KRISHNA
EXTERNAL EXAMINAR

AN EXPERIMENTAL INVESTIGATION OF VARIOUS BRICKS BY THE PARTIAL REPLACEMENT OF SAWDUST, PERLITE AND EXFOLIATED VERMICULITE

This project is submitted to JNTU Kakinada with fulfillment of the requirement for the award of the degree of

BACHILOR OF DEGREE

In

CIVIL ENGINEERING

Submitted by

B. Narsingarao	18U45A0127
K. Anil	18U45A0128
B. Laxman	18U45A0137
K. Lavanya	17U41A0107
R. Bhanu Prakash	18U45A0146

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Asst. Professor, Department of Civil Engineering

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CERTIFICATE

This is to classify the project work entitled **AN EXPERIMENTAL INVESTIGATION OF VARIOUS BRICKS BY THE PARTIAL REPLACEMENT OF SAWDUST, PERLITE AND EXFOLIATED VERMICULITE.** That is being submitted by B. Narsingarao (18U45A0127), K. Anil (18U45A0128), B. Laxman (18U45A0137), K. Lavanya (17U41A0107), R. Bhanu Prakash (18U45A0146), for the fulfillments of the requirements for the requirements for award of degree in CIVIL ENGINEERING to JNTU Kakinada is a record of BONDIFIED work carried out by him under my guidance supervision.

Mrs. Padadalam. LAVANYA,

(Assistant Professor)

(Project Guide)

Sri. N. RAMU, M. Tech,

AMIE

HOD OF CIVIL ENGINEERING

PROF. KUSA MURALI KRISHNA

EXTERNAL EXAMINAR

AN EXPERIMENTAL STUDY ON FIBRE REINFORCED SELF COMPACTING CONCRETE BY USING RECYCLED AGGREGATES

A project report submitted in partial fulfillment of the

requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

CIVIL ENGINEERING

Submitted by

M.RAMU	18U45A0135
L.SANTHI	18U45A0122
K.NEERAJA RANI	18U45A0104
K.SEKHAR	18U45A0113
N.NIKHIL KUMAR	17U41A0105

Under the Esteemed Guidance of

Mrs. K. Manoharini

Assistant professor, Department of civil Engineering

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NH-5, Anakapalle - 531002, Visakhapatnam, A.P

CERTIFICATE

This is to certify that the project work entitled **"AN EXPERIMENTAL STUDY ON FIBRE REINFORCED SELF COMPACTING CONCRETE BY USING RECYCLED AGGREGATES "** is an authentic work submitted by M.RAMU (18U45A0135), L.SANTHI (18U45A0122), K.NEERAJA RANI (18U45A0104), K.SEKHAR (18U45A0113), N.NIKHIL KUMAR (17U41A0105). In partial fulfilment of the requirement for the award of the degree of bachelor of technology in civil engineering from diet college of engineering during the academic year 2020-2021.

Mrs. K Manoharini, M. Tech

(ASSISTANT PROFESSOR)

(PROJECT GUIDE)

Head of the Department
Civil Engineering
Dadi Institute of Engg. & Tech.

Mr. N.RAMU, M. Tech

(PROFESSOR)

(HEAD OF THE DEPARTMENT)

Prof KVSG MURALI KRISHNA

EXTERNAL EXAMINER

Wireless Electric Vehicle Charging System

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted by

M. MOHANA KRISHNA	17U41A0209
M. KIRAN	17U41A0208
K. SHIVAKARTHIK	17U41A0207
E. PURNIMA PRIYANKA	18U45A0211
K. CHAKRA SURENDRA NAIDU	17U41A0226

Under the Esteemed Guidance of

Mr. D. R. CH. NOOKESH, M. Tech, (PhD).

Assistant Professor, Department of EEE

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NH-5, Anakapalle-531002, Visakhapatnam, A.P.

2021

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NH-5, Anakapalle-531002, Visakhapatnam, A.P

CERTIFICATE

This is to certify that the Project work entitled "Wireless Electric Vehicle Charging System" is a being submitted by M. MOHANA KRISHNA (17U41A0209), M. KIRAN (17U41A0208), K. SHIVAKARTHIK (17U41A0207), E. PURNIMA PRIYANKA (18U45A0211), K. CHAKRA SURENDRA NAIDU (17U41A0226) in partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for IN ELECTRICAL AND ELECTRONICS ENGINEERING during the academic year 2020-21.

Mr.D.R.Ch.Nookesh,M.Tech,(Phd)
(Assistant Professor)
(PROJECT GUIDE)

Mr.A.Krishna Nag M.Tech,(Phd)
(Assistant Professor)
(HEAD OF THE DEPARTMENT)

Head of the Department
Electrical & Electronics Engg.
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Anakapalle - 531 002

EXTERNAL EXAMINER

DUAL POWER GENERATION (SOLAR AND WIND GENERATOR)

A Project report submitted in partial

Fulfilment of the required for the award of Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL & ELECTRONICS ENGINEERING

Submitted by

D.MANOJ	(18U45A0208)
D.VENKATESH	(17U41A0201)
A.PAVAN KALYAN	(18U45A0202)
B.SANKAR	(17U41A0225)
CH.DURGA VENKATESH	(18U45A0205)

Under the Esteemed Guidance of

Mr.B.SRINIVASA RAO

Assistant Professor, Department of EEE

DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

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NH-16, Anakapalle-531002, Visakhapatnam, Andhra Pradesh

2021

DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

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NH-16, Anakapalle-531002, Visakhapatnam, Andhra Pradesh

CERTIFICATE

This is to certify that the Project work entitled **"DUAL POWER GENERATION (SOLAR AND WIND GENERATOR)"** is being submitted by D.MANOJ (18U45A0208), D.VENKATESH (17U41A0201), A.PAVAN KALYAN (18U45A0202), B.SANKAR (17U41A0225) and CH.DURGA VENKATESH (18U45A0205) in partial fulfilment of the requirement for the award of the Degree of **BACHELOR OF TECHNOLOGY in ELECTRICAL AND ELECTRONICS ENGINEERING** during the academic year 2020-21.

Mr.K.SRINIVASA RAO
Assistant Professor
PROJECT GUIDE

Mr. A. KRISHNA NAG
Associate Professor
HEAD OF THE DEPARTMENT

Head of the Department
Electrical & Electronics Engg.
Dadi Institute of Engg. & Tech.
Anakapalle - 531 002

EXTERNAL EXAMINER

CNC DRAWING MACHINE

A Project Report submitted in partial fulfilment of the

requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted by

T.Purnachand	18U45A0235
Y.Dileep Kumar	18U45A0234
S.Akhil	18U45A0230
V.Ayyapa swami	18U45A0233
S.Pavan Kumar	18U45A0243

Under the Esteemed Guidance of

Mr. Ch.Ravi Kumar

Asst. Professor, Department of EEE

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2021

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CERTIFICATE

This is to certify that the Project work entitled "CNC DRAWAING MACHINE" is a being submitted by T.PURNACHAND(18U45A0235), Y.DILEEPKUMAR(18U45A0234),S.AKHIL(18U45A0230),V.AYYAPASWAMI(18U45A0233),S.PAVANKUMAR(18U45A0243),partial fulfillment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY FOR ELECTRICAL AND ELECTRONICS ENGINEERING during the academics year 2020-21.

(PROJECT GUIDE)

(HEAD OF THE DEPARTMENT)

Head of the Department
Electrical & Electronics Engg.
Dadi Institute of Engg. & Tech.

EXTERNAL EXAMINER

A CASCADED H-BRIDGE MULTILEVEL INVERTER WITH REDUCED NUMBER OF SWITCHES

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted by

P.DHARANI PRIYANKA	**18U45A0229**
CH.DURGA PRASAD	**18U45A0262**
P.LALITHA	**18U45A0236**
B.GOPI CHAND	**18U45A0249**
D.MADHAN KUMAR	**18U45A0238**

Under the Esteemed Guidance of

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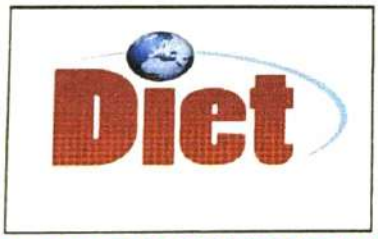

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CERTIFICATE

This is to certify that the Project work entitled "A CASCADED H-BRIDGE MULTILEVEL INVERTER WITH REDUCED NUMBER OF SWITCHES" is being submitted by P DHARANI PRIYANKA (18U45A0229), CH DURGA PRASAD (18U45A0262), P LALITHA (18U45A0236), B GOPI CHAND (18U45A0249), D MADHAN KUMAR (18U45A0238) in partial fulfilment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY in ELECTRICAL & ELECTRONICS ENGINEERING during the academic year 2020-21.

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EXTERNAL EXAMINER

SMART CAR PARKING SYSTEM USING IoT AND ARDUINO

A Project Report submitted in partial fulfillment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted by

P. CHANDANA	18U45A0220
G. MANIKANTA	18U45A0213
P. VARALAKSHMI	176K1A0212
V. LAHITHA	17U41A0219
U. CHANDHAN KUMAR	17U41A0218

Under the Esteemed Guidance of

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This is to certify that the Project work entitled "**SMART CAR PARKING SYSTEM USING IoT AND ARDUINO**" is a being submitted by P. CHANDANA (18U45A0220), G MANIKANTA (18U45A0213), P. VARALAKSHMI (176K1A0212), V. LAHITHA (17U41A0219), U. CHANDHAN KUMAR (17U41A0218) in partial fulfilment of the Requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** for **ELECTRICAL & ELECTRONICS ENGINEERING** during the academic year 2020-21.

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Dr. R SRINIVAS RAO
EXTERNAL EXAMINER

DESIGN OF INTERLEAVED BUCK CONVERTER FOR ELECTRIC VEHICLE CHARGING USING MATLAB/SIMULINK

A Project Report submitted in partial fulfillment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL & ELECTRONICS ENGINEERING

Submitted by

DEVADULA ESWARA SARASWATHI	18U45A0210
NAGIREDDI RAVITEJA	17U41A0210
BHASKARA GOWTHAM ALLAVARAPU	17U41A0223
NAKKINA DHANA SAI	18U45A0218
KESAMSETTI MOHAN BABU	17U41A0206

Under the Esteemed Guidance of

Mr. K. Vijay Kumar B.E., M.E.,(Ph.D.)

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CERTIFICATE

This is to certify that the project report entitled **"DESIGN OF INTERLEAVED BUCK CONVERTER FOR ELECTRIC VEHICLE CHARGING USING MATLAB/SIMULINK"** submitted by DEVADULA ESWARA SARASWATHI(18U45A0210), NAGIREDDI RAVITEJA (17U41A0210), BHASKARA GOWTHAM ALLAVARAPU (17U41A0223), NAKKINA DHANA SAI(18U45A0218), KESAMSETTI MOHAN BABU (17U41A0206) in partial fulfillment of the requirements for award of the Degree of BACHELOR OF TECHNOLOGY IN ELECTRICAL &ELECTRONICS ENGINEERING, FROM DADI INSTITUTE OF ENGINEERING& TECHNOLOGY (approved by A.I.C.T.E., New Delhi& Permanently Affiliated to JNTU, Kakinada) is a record of bona fide work carried out by them under my guidance and supervision.

Mr. K. Vijay Kumar B.E., M.E.,(Ph.D.)
Associate Professor
PROJECT SUPERVISOR

Mr. A Krishna Nag B. Tech., M. Tech.,(Ph.D.)
Associate Professor
HEAD OF DEPARTMENT- EEE

Head of the Department
Electrical & Electronics Engg.
Dadi Institute of Engg. & Tech.
Anakapalle - 531 002

EXTERNAL EXAMINER

VEHICLE ACCIDENT PREVENTION AND ACCIDENT DETECTION SYSTEM

A Project Report

Submitted in partial fulfillment of the requirements

For the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted by

CH.YAMINI	(18U45A0206)
M.VENKATESH	(18U45A0216)
K.SAI MANI KRISHNA	(18U45A0214)
SHIVAM PANDEY	(17U41A0216)
S.SUNITHA	(17U41A0215)

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CERTIFICATE

This is to certify that the Project work entitled **"VEHICLE ACCIDENT PREVENTION AND ACCIDENT DETECTION SYSTEM"** is being submitted by **CH.YAMINI (18U45A0206)**, **M.VENKATESH (18U45A0216)**, **K.SAI MANI KRISHNA (18U45A0214)**, **SHIVAM PANDEY (17U41A0216)** and **S.SUNITHA (17U41A0215)** in partial fulfilment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY in ELECTRICAL AND ELECTRONICS ENGINEERING** during the academic year 2020-21.

Mrs. K. ALEONI JOSE
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Mr. A. KRISHNA NAG
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EXTERNAL EXAMINER

MONITORING OVERLOAD CONDITIONS OF TRANSFORMER USING GSM TECHNOLOGY

A Project Report

Submitted in partial fulfillment of the requirements

For the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted by

M.CHARAN TEJA	(18U45A0215)
K. NOOKESH	(17U41A0204)
P.MURALISHANKAR	(18U45A0219)
E.TARUNKUMAR	(18U45A0212)
D.SAI SREENU	(18U45A0207)

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CERTIFICATE

This is to certify that the Project work entitled **"MONITORING OVERLOAD CONDITIONS OF TRANSFORMER USING GSM TECHNOLOGY"** is being submitted by M.CHARAN TEJA (18U45A0215), K.NOOKESH (17U41A0204), P.MURALI SHANKAR (18U45A0219), E.TARUN KUMAR (18U45A0212), D.SAI SREENU (18U45A0207) in partial fulfilment of the requirement for the award of the degree of **"BACHELOR OF TECHNOLOGY in ELECTRICAL AND ELECTRONICS ENGINEERING"** during the academic year 2020-21.

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Anakapalle - 531 002

EXTERNAL EXAMINER

AUTOMATIC IRRIGATION SYSTEM

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted by

N.KASI VISWANADH	(17U41A0211)
P.GANGADHAR	(17U41A0212)
M.KUMAR RAJA	(18U45A0217)
D.MANOJ KUMAR	(18U45A0209)
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Under the Esteemed Guidance of

Mr. J Deleep Kumar

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CERTIFICATE

This is to certify that the Project work entitled "AUTOMATIC IRRIGATION SYSTEM" is a being submitted by N.KASI VISWANADH (17U41A0211), P.GANGADHAR (17U41A0212), M.KUMAR RAJA (18U45A0217), D.MANOJ KUMAR (18U45A0209), and A.JYOSHNA (18U45A0201) in partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for ELECTRICAL AND ELECTRONICS ENGINEERING during the academic year 2021.

Mr. J. DELEEP KUMAR
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Mr. A. KRISHNA NAG
(ASSOCIATE PROFESSOR)
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Anakapalle - 531 002

EXTERNAL

DESIGNING AN OVER VOLTAGE PROTECTION SYSTEM USING IOT

A Project Report Submitted in partial fulfilment of the requirements for the award of the degree of

BACHELOR OF TECHNOLOGY

In

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted By

P. Somesh	(17U41A0214)
U. Nagendra Prasad	(17U41A0217)
P. Syamala	(17U41A0213)
Ch. Lakshmi Prasanna	(17U41A0202)
K. Srinivas	(17U41A0205)

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NH-16, Anakapalle-531002, Visakhapatnam, A.P

2021

CERTIFICATE

This is to certify that the Project work entitled **"DESIGNING AN OVER VOLTAGE PROTECTION SYSTEM USING IOT"** is being submitted by P. Somesh(17U41A0214),in partial fulfilment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRICAL & ELECTRONICS ENGINEERING** during the academic year 2020-21.

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Anakapalle - 531 002

EXTERNAL EXAMINER

Power quality improvement by using DSTATCOM Using Matlab/Simulink

A Project report submitted in partial Fulfillment of the

required for the award of Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL & ELECTRONICS ENGINEERING

Submitted by

1. B Suneetha	(18U45A0204)
2. Y Poornachadra Rao	(17U41A0222)
3. K Raju	(17U41A0224)
4. G Maheshwari	(17U41A0203)
5. B Radha	(18U45A0203)

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CERTIFICATE

This is to certify that the project work entitled **"Power Quality Improvement by Using D-STATCOM Using Matlab/Simulink"** is a being submitted by 1. B Suneetha (18U45A0204), 2. Y Poornachadra Rao (17U41A0222), 3. K Raju (17U41A0224), 4. G Maheshwari (17U41A0203) and 5. B Radha (18U45A0203) in partial fulfilment of the requirements for award of the Degree of Bachelor of Technology in Electrical &Electronics Engineering, from DADI INSTITUTE OF ENGINEERING & TECHNOLOGY (approved by A.I.C.T.E., New Delhi& Affiliated to JNTU, Kakinada) is a record of bona fide work carried out by them under my guidance and supervision.

Mr. T Ramesh Babu
ASSISTANT PROFESSOR
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Mr. A Krishna Nag
ASSOCIATE PROFESSOR
HEAD OF THE DEPARTMENT

Head of the Department
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Anakapalle - 531 002

EXTERNAL EXAMINER

ALERT SYSTEM FOR SPECIALLY ABLED

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted by

K.MANJUSHA	**(18U45A0232)**
P.NAVEEN KUMAR	**(18U45A0223)**
Y.HOMESH	**(18U45A0228)**
T.TEJESWAR	**(18U45A0227)**
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This is to certify that the Project work entitled "**ALERT SYSTEM FOR SPECIALLY ABLED**" is a being submitted by **K.MANJUSHA (18U45A0232), P.NAVEEN KUMAR (18U45A0223), Y.HOMESH (18U45A0228), T.TEJESWAR (18U45A0227),** and **CH.N.S.ADI SEKHAR (18U45A0239)** in partial fulfilment of the Requirement for the award of the degree of **BACHELOR OF TECHNOLOGY for ELECTRICAL AND ELECTRONICS ENGINEERING** during the academic year 2021

Mr.K.SRINIVAS RAO
ASSOC. PROFESSOR
PROJECT GUIDE

Mr.A.KRISHNA NAG
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Head of the Department
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EXTERNAL EXAMINER

AUTOMATIC IRRIGATION SYSTEM

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted by

B.DIVYA	(18U45A0245)
P.DURGA MAHALAKSHMI	(18U45A0221)
K.SIVAJI	(18U45A0250)
K.VENKATA GANESH	(18U45A0259)
A.VIJAY KUMAR	(18U45A0253)

Under the Esteemed Guidance of

Mr. J Deleep Kumar

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This is to certify that the Project work entitled "AUTOMATIC IRRIGATION SYSTEM" is a being submitted by B.DIVYA (18U45A0245), P.DURGA MAHALAKSHMI (18U45A0221), K.SIVAJI (18U45A0250), K.VENKATA GANESH (18U45A0259), and A.VIJAY KUMAR (18U45A0253) in partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for ELECTRICAL AND ELECTRONICS ENGINEERING during the academic year 2018-21.

Mr. J. DELEEP KUMAR
(ASSOCIATE PROFESSOR)
(PROJECT GUIDE)

Mr. A. KRISHNA NAG
(ASSOCIATE PROFESSOR)
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Head of the Department
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EXTERNAL

ARDUINO BASED ANDROID CONTROLED ROBOTIC ARM

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted by

L HARITHA	18U45A0242
P MOUNIKA	18U45A0231
K JAYA SAGAR	18U45A0251
A KIRAN	18U45A0260
K JANARDHAN RAO	18U45A0261

Under the Esteemed Guidance of

Sri. K VIJAY KUMAR

Assoc. Professor, Department of EEE

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NH-16, Anakapalle-531002, Visakhapatnam, A.P. 2021

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NH-16, Anakapalle-531002, Visakhapatnam, A.P

CERTIFICATE

This is to certify that the Project work entitled "ARDUINO BASED ANDROID CONTROLLED ROBOTIC ARM" is a being submitted by L HARITHA (18U45A0242), P MOUNIKA (18U45A0231), K JAYA SAGAR (18U45A0251), A KIRAN (18U45A0260), K JANARDHAN RAO (18U45A0261) in partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for ELECTRICAL AND ELECTRONICS ENGINEERING during the academic year 2020-21.

Sri. K VIJAY KUMAR
(ASSOC. PROFESSOR)
(PROJECT GUIDE)

Sri. A KRISHNA NAG
(ASSOC. PROFESSOR)
(HEAD OF THE DEPARTMENT)

Head of the Department
Electrical & Electronics Engg.
Dadi Institute of Engg. & T
Anakapalle - 5

EXTERNAL EXAMINER

REAL TIME BASED IOT AUTOMATION WITH FEEDBACK LOOPS

A Project Report

Submitted in partial fulfillment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted by

S.SAI	(18U45A0255)
K.PAVANKALYAN	(18U45A0244)
G.KASUBABU	(18U45A0237)
S.SURESH	(18U45A0226)
A.SAI KISHORE	(18U45A0264)

Under the Esteemed guidance of

Mr. DURGA R CH NOOKESH

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NH-5, Anakapalle-531002, Visakhapatnam, A.P. 2021

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CERTIFICATE

This is to certify that the Project work entitled "REAL TIME BASED IOT AUTOMATION WITH FEEDBACK LOOPS" is being submitted by S.SAI (18U45A0255), K. PAVANKALYAN (18U45A0244), G. KASUBABU (18U45A0237), S. SURESH (18U45A0226), A.SAI KISHOR (18U45A0264). in partial fulfilment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY in ELECTRICAL AND ELECTRONICS ENGINEERING during the academic year 2020-21.

Mr. D.R.CH NOOKESH
Assistant Professor,EEE
PROJECT GUIDE

Mr. A KRISHNA NAG
Associate Professor,EEE
HEAD OF THE DEPARTMENT

Head of the Department
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EXTERNAL EXAMINER

AUTOMATIC ON AND OFF OF IRRIGATION PUMP USING IOT TECHNOLOGY

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted by

B.VENKATA APARNA	18U45A0254
R.APPALARAJU	18U45A0224
A.SRINU	18U45A0256
P.SRINU	18U45A0222
K.RAJESH	18U45A0258

Under the Esteemed Guidance of

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CERTIFICATE

This is to certify that the Project work entitled "**AUTOMATIC ON AND OFF OF IRRIGATION PUMP USING IOT TECHNOLOGY**" is a being submitted by B.VENKATA APARNA (18U45A0254), R APPALARAJU (18U45A0224), A SRINU (18U45A0256), P SRINU (18U45A0222), K RAJESH (18U45A0258) in partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY in ELECTRICAL AND ELECTRONICS EMGINEERING during the academic year 2020-21.

Mr. G. JAGADEESH
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EXTERNAL EXAMINER

GRID CONNECTED 100KW SOLAR PV SYSTEM USING MATLAB OR SIMULINK

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted by

A BHARATHI	18U45A0240
D SANTHOSH SAI GANESH	18U45A0263
U MAHESH	18U45A0248
P MANIKANTA	18U45A0247
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This is to certify that the Project work entitled "GRID CONNECTED 100KW SOLAR PV SYSTEM USING MATLAB OR SIMULINK" is a being submitted by A BHARATHI (18U45A0240), D SANTHOSH SAI GANESH (18U45A0263), U MAHESH (18U45A0248), P MANIKANTA (18U45A0247), U H V S SAI (18U45A0252) in partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for ELECTRICAL AND ELECTRONICS ENGINEERING during the academic year 2018-21.

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EXTERNAL

FLEX SENSOR BASED SMART GLOVE FOR SPECIALLY ABLED

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted by

I.SRAVAN KUMAR	(18U45A0241)
G.MANOJ	(18U45A0246)
M.FAIZ AMAN ALI	(18U45A0257)
A.ROYAL PREM	(18U45A0265)

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This is to certify that the project work entitled "FLEX SENSOR BASED SMART GLOVE FOR SPECIALLY ABLED" has been carried out by I.SRAVAN KUMAR (18U45A0241), G.MANOJ (18U45A0246), M.FAIZ AMAN ALI (18U45A0257) and A.ROYAL PREM (18U45A0265), Submitted in partial fulfillment of the requirement for the Award of BACHELOR OF TECHNOLOGY in ELECTRICAL AND ELECTRONICS ENGINEERING during the academic year 2020-2021

MISS.P.JAGRUTHI
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EXTERNAL EXAMINER

VEHICLE THEFT CONTROL AND ALCOHOL DETECTION INTIMATION THROUGH SMS

A Project Report submitted in partial fulfillment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY IN

ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by

J.PRAVALLIKA	**(17U41A0418)**
D.ALEKHYA	**(17U41A0409)**
S.SRINIVASA RAO	**(17U41A0451)**
B.DEEPAK SRINIVAS KUMAR	**(17U41A0423)**
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Under The Guidance of

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This is to certify that the project work entitled "VEHICLE THEFT CONTROL AND ALCOHOL DETECTION INTIMATION THROUGH SMS" is being submitted by J.PRAVALLIKA (17U41A0418), D.ALEKHYA (17U41A0409), S.SRINIVASA RAO (17U41A0451), B.DEEPAK SRINIVAS KUMAR (17U41A0423), S.SAI RAM (17U41A0455) in partial fulfillment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY for ELECTRONICS AND COMMUNICATION ENGINEERING during the academic year 2020-2021.

Ms. Sheik Shabeena

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(PROJECT GUIDE)

Mr. K. Joginaidu

(Assoc. Professor of ECE)

(HEAD OF THE DEPARTMENT)

EXTERNAL EXAMINER

BLOOD CELLS DETECTION AND COUNTNG FROM MICROSCOPIC BLOOD IMAGES

A Project Report submitted in partial fulfilment of the Requirements forthe award of the Degree of Bachelor of Technology In

ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by

Y. Lavanya	17U41A0462
S.Divya	18U45A0412
k.Mounika	17U41A0468
Ch. Chetan Satya	17U41A0471

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CERTIFICATE

This is to certify that the Project work entitled "**BLOOD CELLS DETECTION AND COUNTING FROM MICROSCOPIC BLOOD IMAGES** "is being submitted by Y.Lavanya(17U41A0462), S.Divya(18U45A0412), K.Mounika(17U41A0468), CH.Chetan satya(17U41A0471) by in partial fulfillment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for ELECTRONICS AND COMMUNICATION ENGINEERING during the academic year 2020-2021.

M.kishore kumar

Mr. M.KISHORE KUMAR
(ASSISTANT PROFESSOR)
(PROJECT GUIDE)

P.Poorna Prigo 29/7/21
for **Mr. K.JOGINAIDU**
(ASSOCIATE PROFESSOR)
(HEAD OF THE DEPARTMENT)

EXTERNAL EXAMINER

VEHICLE THEFT CONTROL AND ALCOHOL DETECTION INTIMATION THROUGH SMS

A Project Report submitted in partial fulfillment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by

T. DIVYA	**(18U45A0421)**
G. CHANDRA KALA	**(17U41A0470)**
K. SIRISHA	**(18U45A0413)**
K. KUSUMA	**(18U45A0416)**
K. CHANDRA MOULI	**(18U45A0419)**

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This is to certify that the project work entitled "VEHICLE THEFT CONTROL AND ALCOHOL DETECTION INTIMATION THROUGH SMS" is being submitted by T. DIVYA (18U45A0421), G. CHANDRA KALA (17U41A0470), K. SIRISHA (18U45A0413), K. KUSUMA (18U45A0416), K. CHANDRA MOULI (18U45A0419) in partial fulfillment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY for ELECTRONICS AND COMMUNICATION ENGINEERING during the academic year 2020-2021.

Mrs. B.T. Archana
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EXTERNAL EXAMINER

IDENTIFYING AND CLASSIFICATION OF GAIT IMAGES USING GEI DECOMPOSITION AND SVM

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY IN

ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by

N.SIRISHA	**(17U41A0440)**
CH.SRITHA RAMALAKSHMI	**(17U41A0408)**
P.TEJA	**(17U41A0443)**
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CERTIFICATE

This is to certify that the project work entitled "IDENTIFYING AND CLASSIFICATION OF GAIT IMAGES USING GEI DECOMPOSITION AND SVM" is being submitted by N.SIRISHA (17U41A0440), CH.SRITHA RAMALAKSHMI (17U41A0408), P.TEJA (17U41A0443), G.SAI GANESH (17U41A0415), B.NARENDRA ASHOK (17U41A0403) in partial fulfilment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY for ELECTRONICS AND COMMUNICATION ENGINEERING during the academic year 2020-2021.

Mrs B.T.Archana
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P. Poorna Jyothi 28/7/21
K.Joginaidu
(Associate Professor)
(Head of the department)

EXTERNAL EXAMINER

ROBUST IMAGE WATERMARKING IN FREQUENCY DOMAIN USING BACK PROPAGATION NEURAL NETWORKS

A Project Report submitted in partial fulfillment of the requirements for the award of the Degree of **BACHELOR OF TECHNOLOGY**

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by

G.V.S. ARUN KUMAR	17U41A0435
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CERTIFICATE

This is to certify that the Project work entitled "ROBUST IMAGE WATERMARKING IN FREQUENCY DOMAIN USING BACK PROPAGATION NEURAL NETWORKS" is being submitted by G.V.S. ARUN KUMAR (17U41A0435), N. ALEKHYA (17U41A0437), A.ROHIT NAIDU (17U41A0402), S. SANTHOSHI (17U41A0456) in partial fulfillment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for ELECTRONICS & COMMUNICATION ENGINEERING during the academic year 2020-2021.

P. Poorna Priya

Dr. P. Poorna Priya

(ASSOCIATE PROFESSOR)

(PROJECT GUIDE)

for P. Poorna Priya 26/7/21

Mr. K. JOGI NAIDU

(ASSOCIATE PROFESSOR)

(HEAD OF THE DEPARTMENT)

EXTERNAL EXAMINER

ESP32 CAM BASED SURVEILLANCE SPY CAR

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by

PREETI SAH	17U41A0447
B. DIVYA MAHIMA	17U41A0404
P. JANARDHAN	17U41A0445
S. BHAVANI	17U41A0452
S. NAGAMANI	17U41A0453

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CERTIFICATE

This is to certify that the Project work entitled "ESP32 CAM BASED SURVEILLANCE SPY CAR" is being submitted by PREETI SAH (17U41A0447), B DIVYA MAHIMA (17U41A0404), P JANARDHAN (17U41A0445), S BHAVANI (17U41A0452), and S NAGAMANI (17U41A0453) in partial fulfilment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY for ELECTRONICS & COMMUNICATION ENGINEERING during the academic year 2020-2021.

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(ASST.PROFESSOR)
(PROJECT GUIDE)

P. Poorna Srinadh 26/7/21
Mr K. JOGI NAIDU
(ASSOCIATE PROFESSOR)
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EXTERNAL EXAMINER

ARDUINO BASED WATER QUALITY MANAGEMENT SYSTEM

A Project Report submitted in fulfillment of the requirements for the award of the Degree of BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING.

Submitted by

V.HARICHANDANA	17U41A0459
S. VASUNDHARA	17U41A0457
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CERTIFICATE

This is to certify that the Project work entitled "ARDUINO BASED WATERQUALITY MANAGEMENT SYSTEM" is being submitted by V.HARICHANDANA (17U41A0459),S.VASUNDHARA (17U41A0457), V.N.D.N.PAVAN (17U41A0460), in fulfillment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for ELECTRONICS &COMMUNICATION ENGINEERING during the academic year2020-2021.

Mr. S.SURESHKUMAR
(ASST.PROFESSOR)
(PROJECTGUIDE)

Mr. K.JOGINAIDU
(ASSOCIATEPROFESSOR)
(HEAD OF THEDEPARTMENT)

EXTERNAL EXAMINER

ANDROID BASED REAL TIME VEHICLE TRACKING SYSTEM

A project report submitted in partial fulfillment of the requirement for award of the degree of

Bachelor of Technology

In

ELECTRONICS AND COMMUNICATIONS ENGINEERING

Has been jointly carried out by

R.LAXMI VINEETHA	17U41A0450
K.CHANDRA HARSHA	17U41A0426
B.DHARANI	17U41A0406
K.SATISH KUMAR	17U41A0428
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Under the Esteemed Guidance of

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Department of Electronics & Communication Engineering

CERTIFICATE

This is to certify that the project work entitled " ANDROID BASED REAL TIME VEHICLE TRACKING SYSTEM " is a bonafied work of R. LAXMI VINEETHA , K. CHANDRA HARSHA , B.DHARANI, K. SATISH KUMAR, S.RAJITHA Bearing Regd.No's: 17U41A0450, 17U41A0426, 17U41A0407, 17U41A0428, 17U41A0454 has submitted in the partial fulfillment of the requirements for the award of Bachelor of Technology in " Electronics & Communications Engineering " during the academic year 2020-2021.

Project Guide
Er. A.S.N. Varma, M.Tech.
Asst.Professor, Dept of ECE

P. Poorna Priya 30/7/21.
Head of the Department
Dr. P. Poorna Priya, PhD.
Asso.Professor, Dept of ECE

External Examiner

Blind People Supporting System using Arduino

A Project Report submitted in partial fulfillment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

ENGINEERING

Submitted by

K. VENKATAPRASANNA	18U45A0417
M. MOUNIKA	18U45A0404
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L. SUNITHA	17U41A0463
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This is to certify that the Project work entitled "BLIND PEOPLE SUPPORTING SYSTEM" is being submitted by K. VENKATAPRASANNA (18U45A0417), M. MOUNIKA (18U45A0404), T. BABA (18U45A0429), L. SUNITHA (17U41A0463), P. UADY KUMAR (18U45A0425) by in partial fulfillment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for ELECTRONICS AND COMMUNICATION ENGINEERING during the academic year 2020-2021.

P. Poorna Prio 26/7/21

Mr. S. SURESH KUMAR

(ASSISTANT PROFESSOR)

(PROJECT GUIDE)

P. Poorna Prio 26/7/21

Mr. K. JOGI NAIDU

(ASSOCIATE PROFESSOR)

(HEAD OF THE DEPARTMENT)

EXTERNAL EXAMINER

ARDUINO BASED WATER QUALITY MANAGEMENT SYSTEM

A Project Report submitted in fulfillment of the requirements for the award of the Degree of
BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATIONS ENGINEERING

Submitted by

N ARUNA SREE	(18U45A0405)
K J GANAVARDHAN	(18U45A0415)
M BHAGYA SRI	(18U45A0403)
A TEJASWINI	(18U45A0409)
R RAJYA LAXMI	(18U45A0414)

Under the Esteemed Guidance of

Mrs. M. KASIYAMMAL

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CERTIFICATE

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EXTERNAL EXAMINER

SOCIAL DISTANCING ID CARD

A Project Report submitted in partial fulfillment of the Requirements for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by

V.YAMINI	17U41A0461
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M.BHARATH	18U45A0402
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EXTERNAL EXAMINER

DESIGN OF A NEW LOW-POWER AND FAST FULL ADDER BY EXPLORING NEW XOR AND XNOR GATES

A Project Report submitted in partial fulfillment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by

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This is to certify that the project work entitled "DESIGN OF A NEW LOW- POWER AND FAST FULL ADDER BY EXPLORING NEW XOR AND XNOR GATES" is being submitted by K. YAMINI (18U45A0401), P. UDAY BHANU (17U41A0466), T. RAJU (18U45A0424), A. SAI KRISHNA (18U45A0430), S. VARUN BHASKHAR (18U45A0407) by in partial fulfillment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for ELECTRONICS AND COMMUNICATION ENGINEERING during the academic year 2020-2021.

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EXTERNAL EXAMINER

DIGITAL PARKING SYSTEM

A Project Report submitted in partial fulfillment of the requirements for the award of the Degree of **BACHELOR OF TECHNOLOGY**

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by

D.VANI	17U41A0410
K. BHARATH KUMAR	17U41A0425
M.NANI BABU	17U41A0433
B. LAVANYA	17U41A0407
P. CHANDRIKA	17U41A0444

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EXTERNAL EXAMINER

SIXTH SENSE ROBOT BY USING IMAGE GRABBING

A Project report submitted in partial fulfilment of the requirements for the award of Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by

P.SANTOSH	18U45A0406
E.SEKHAR	18U45A0428
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This is to certify that project entitled "SIXTH SENSE ROBOT BY USING IMAGE GRABBING", being submitted by P.SANTOSH (18U45A0406), E.SEKHAR (18U45A0428), A.V HEMANTH KUMAR (18U45A0410), T.K SUPRIYA (17U41A0464), P.KUMARSWAMY (17U41A0465) in partial fulfilment of the requirements for the award of the degree of Bachelor of Technology in ECE to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by them under my guidance and supervision. The results embodied in this thesis have not been submitted to any other University or institute for the award of any degree or diploma.

Mr.K S N V Someswara Rao
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Mr.K.Jogi Naidu 26/7/21
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EXTERNAL EXAMINER

DESIGN AND ANALYSIS OF 2×2 MIMO ANTENNA

A Project Report submitted in partial fulfillment of the requirements

for the award of the Degree of **BACHELOR OF TECHNOLOGY**

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

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Mr. R. SUNEEL KUMAR

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Dr. P. POORNA PRIYA

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SPEED ESTIMATION OF VEHICLE IN INTELLIGENT TRAFFIC SURVEILLANCE SYSTEM USING VIDEO IMAGE PROCESSING

A Project Report submitted in partial fulfillment of the Requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by

K. Pavan Sai Teja	17U41A0420
P. Sirisha	17U41A0448
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This is to certify that the Project work entitled **"SPEED ESTIMATION OF VEHICLE IN INTELLIGENT TRAFFIC SURVEILLANCE SYSTEM USING VIDEO IMAGE PROCESSING"** is a being submitted by K. Pavan Sai Teja (17U41A0420), P. Sirisha (17U41A0448), N. Kusal Kumar (17U41A0439), D. Dedeepya (17U41A0412), M. Ashok Kumar (17U41A0436) in partial fulfilment of the requirements for the award of the BACHELOR OF TECHNOLOGY in ELECTRONICSANDCOMMUNICATION during the academic year 2020-2021.

M. Kishore Kumar

Mr. MALLA. Kishore Kumar
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Project guide

P. Poorna Priya 30/7/21

DR.Poorna Priya
(Associate Professor)
(Head of the Department)

EXTERNAL EXAMINER

ELECTRONIC CUSTOMER SERVICE MANAGEMENT SYSTEMS

A Project Report submitted in partial fulfillment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by

K. MADHURI	**17U41A0473**
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L. HARITHA	**18U45A0427**
K. NAGARJUNA	**18U45A0426**
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CERTIFICATE

This is to certified that the project work entitled "ELECTRONIC CUSTOMER SERVICE MANAGELEMNT SYSTEM "is a being submitted by K. MADHURI (17U41A0473), Y. HEMALATHA (18U45A0408), L. HARITHA (18U45A0427), K. NAGRJUNA (18U45A0426), K. GANESH (17U41A472) in partial fulfillment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY AND COMMUNICATION ENGINEERING during the academic year 2020-2021.

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EXTERNAL EXAMINER

ARRAY PATTERN SYNTHESIS USING UNIFORM AND NON-UNIFORM AMPLITUDE DISTRIBUTIONS

A Project Report submitted in partial fulfilment of the requirements for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

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P. Poorna Priya 28/7/21

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EXTERNAL EXAMINER

ELECTRONIC CUSTOMER SERVICE MANAGEMENT SYSTEMS

A Project Report submitted in partial fulfillment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by

K. MADHURI	17U41A0473
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CERTIFICATE

This is to certified that the project work entitled "ELECTRONIC CUSTOMER SERVICE MANAGELEMNT SYSTEM "is a being submitted by K. MADHURI (17U41A0473), Y. HEMALATHA (18U45A0408), L. HARITHA (18U45A0427), K. NAGARJUNA (18U45A0426), K. GANESH (17U41A472) in partial fulfillment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY AND COMMUNICATION ENGINEERING during the academic year 2020-2021.

P. Poorna Priya 26/7/21

Dr. P. POORNA PRIYA

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P. Poorna Priya 26/7/21

K. JOGI NAIDU

(ASSOCIATE PROFESSOR)

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EXTERNAL EXAMINER

SOCIAL DISTANCING ID CARD

A Project Report submitted in partial fulfillment of the Requirements for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by

M.SAI PRIYA	17A61A0429
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EXTERNAL EXAMINER

IMAGE SEGMENTATION USING HSI

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by

R. BHAVANI	17U41A0467
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Mrs. P.AMRUTHA
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Mr. K. JOGINAIDU 29/7/21
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EXTERNAL EXAMINER

A SECURE IMAGE STEGANOGRAPHY BASED ON RSA ALGORITHM AND LSB MATCHING REVISITED TECHNIQUE

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

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Submitted by

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M. BABY SUMALATHA	17U41A0432
N. MOHAN RAO	17U41A0441
M. SAI KRISHNA	17U41A0431
K. SATISH	17U41A0419

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CERTIFICATE

This is to certify that the Project work entitled "A SECURE IMAGE STEGANOGRAPHY BASED ON RSA ALGORITHM AND LSB MATCHING REVISITED TECHNIQUE" is being submitted by A. NAVEEN KUMAR (17U41A0401), M. BABY SUMALATHA (17U41A0432), N. MOHAN RAO (17U41A0441), M. SAI KRISHNA (17U41A0431), K. SATISH (17U41A0419) in partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for ELECTRONICS AND COMMUNICATIONS ENGINEERING during the academic year 2020-21.

K S N V SOMESWARA RAO
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EXTERNAL EXAMINER

COVID-19 DETECTION USING CHEST X-RAY

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

V.AKHILESWARI	17A61A0548
K.BHARGHAVI	17U41A0574
N.MAHESHWARI	17A61A0534
I.SAI BABU	17U41A0569
M.B.PREM SAI KUMAR	17U41A0580

Under the Esteemed Guidance of

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CERTIFICATE

This is to certify that the Project work entitled "COVID-19 DETECTION USING CHEST X-RAY" is a being submitted by V.AKHILESWARI (17A61A0548) ,K.BHARGHAVI (17U41A0574),N.MAHESHWARI (17A61A0534) ,I.SAI BABU (17U41A0569), M.B.PREM SAI KUMAR (17U41A0580) in partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for COMPUTER SCIENCE & ENGINEERING during the academic year 2020-2021

MR.RAMARAJUS.V.S.V.P
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Dr. L. PRASANNA KUMAR
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EXTERNAL EXAMINER

CONTACTLESS VISITOR MANAGEMENT SYSTEM USING RASPBERRY PI

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

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R.Laxmi Harsha Priya	17U41A0593
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EXTERNAL EXAMINER

5G SMART DIABETES PREDICTION USING MACHINE LEARNING

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

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EXTERNAL EXAMINER

AUTOMATIC SOLAR STREET LIGHT MONITORING AND CONTROL SYSTEM USING IOT

A Project Report submitted in partial fulfillment of the requirements for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND ENGINEERING

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EXTERNAL EXAMINER

DIET INTERNATIONAL JOURNAL OF ENGINEERING SCIENCE AND TECHNOLOGY WEBSITE (DIJEST Website)

A Project Report submitted in partial fulfilment of the Requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

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This is to certify that the Project work entitled **"DIET International Journal of Engineering Sciences and Technology Website (DIJEST Website)"** is a being submitted by M.REVATHI SAI CHANDU (17U41A05A4), M.SWETHA PRIYA (17U41A0586), K.PRIYANKA (17U41A0577), L.JOSHI (17U41A0578), K.SWATHI (17U41A0572) in partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for **COMPUTER SCIENCE & ENGINEERING** during the academic year 2020-21.

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EXTERNAL EXAMINER

DIET INTERNATIONAL JOURNAL OF ENGINEERING SCIENCE AND TECHNOLOGY WEBSITE (DIJEST Website)

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BACHELOR OF TECHNOLOGY

IN

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EXTERNAL EXAMINER

HOUSE PRICE PREDICTION USING REGRESSION

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

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M.SAI PRASANTH	(17U41A0540)
K.SRI NOOKA NANDA	(17U41A0526)
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This is to certify that the Project work entitled "House Price Prediction Using Regression" is a being submitted by K.DEVAKI (17U41A0529), K.JYOSHNA (17U41A0535), M.SAI PRASANTH (17U41A0540), K.SRI NOOKA NANDA (17U41A0526), M.SRAVANI (17U41A0544) in partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for COMPUTER SCIENCE & ENGINEERING during the academic year 2020-21.

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EXTERNAL EXAMINER

Artificial and Automated Agricultural Activities using IOT

A Project report submitted in partial fulfilment of the requirements for the degree of B. Tech in Computer Science and Engineering

By

Y.Mounika Bhavani (17U41A0598)

P.Deepthi Devi (17U41A0591)

M. Sonia (17U41A0582)

P. Charishma (17U41A05A1)

S. Priyanka (17U41A0561)

Under the supervision of

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Certificate

This is to certify that the project work entitled ARTIFICIAL AND AUTOMATED AGRICULTURAL SYSTEMS USING IOT is the bona fide work carried out by Y.MOUNIKA BHAVANI (17U41A0598) and P.DEEPTHI DEVI, (17U41A0591) AND P.CHARISHMA (17U41A05A1), S.PRIYANKA(17U41A0561) & M.SONIA(17U41A0582) OF in partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for COMPUTER SCIENCE & ENGINEERING during the academic year 2020-21.

Signature of the Guide

Name: DR.M. Srinivas Rao

Designation: Professor

Signature of the HOD

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Signature of the External

Examiner Name:

IOT BASED FLOOD DETECTION SYSTEM

A Project report submitted in partial Fulfilment of the requirement for the award of Degree of

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE & ENGINEERING

Submitted by

M.APARNA	17U41A0579
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This is to certify that the project work entitled **"IOT BASED FLOOD DETECTION SYSTEM"** is a being submitted by M.APARNA (17U41A0579) M.POORNIMA (17U41A0588), B.SIVA PRASAD (17U41A0563), M SAILAJA (17U41A0585), I.RAMU (18U45A0503) in partial fulfillment of the requirements for award of the Degree of Bachelor of Technology in Computer Science & Engineering, from DADI INSTITUTE OF ENGINEERING & TECHNOLOGY (approved by A.I.C.T.E., New Delhi& Affiliated to JNTU, Kakinada) is a record of bona fide work carried out by them under my guidance and supervision.

Mr.Y DINESH KUMAR
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EXTERNAL EXAMINER

MOTION BASED VEHICLE COUNTING USING OPENCV AND PYTHON

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted By

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This is to certify that the Project work entitled "MOTION BASED VEHICLE COUNTING USING OPENCV AND PYTHON" is a being submitted by M.BALAKRISHNA (17U41A0503), P.KARTHIKNAIDU (17U41A0549), P.LALITHA (17U41A0550), S.MANVITHA (17U41A0553), K.SHAMINI (17U41A0524), in partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for COMPUTER SCIENCE & ENGINEERING during the academic year 2020-2021.

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EXTERNAL EXAMINER

MASK DETECTION AND TEMPERATURE CALCULATION USING RASPBERRY PI

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

K.L.L.G.S.Janaki	17U41A0507
U.Sai Sree Ram	17U41A0555
S.Lekha Sri	17U41A0552
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EXTERNAL EXAMINER

VEHICLE SECURITY SYSTEM THROUGH FACE RECOGNITION

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND ENGINEERING

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This is to certify that the Project work entitled "VEHICLE SECURITY SYSTEM THROUGH FACE RECOGNITION" is a being submitted by N.MANIMALA (17U41A0546), A.HARITHA (17U41A0502), G.RISHITHA (17U41A0519), V.SREENU (17U41A0557), R.PAVANSUTHA (17U41A0551) in partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for COMPUTER SCIENCE & ENGINEERING during the academic year 2020-21.

Mr.RAMARAJU.S.V.S.V.P
(Sr.ASST.PROFESSOR)
(PROJECT GUIDE)

Dr. L. PRASANNA KUMAR
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EXTERNAL EXAMINER

UNIVERSITY ADMISSION PREDICTION WITH MACHINE LEARNING

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

K.MOUNIKA	17U41A0530
V.TEJASWI	17U41A0556
K.TANUJA	17U41A0536
CH.THULASI LAKSHMI	17U41A0532
B.DURGA PRASANTH SUNDAR	17U41A0504

Under the Esteemed Guidance of

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This is to certify that the Project work entitled "University Admission Prediction With Machine Learning" is a being submitted by K. MOUNIKA (17U41A0530), V.TEJASWI (17U41A0556), CH.THULASI LAKSHMI (17U41A0532), K.TANUJA (17U41A0536), B.DURGA PRASANTH SUNDAR (17U41A0504) in partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for COMPUTER SCIENCE & ENGINEERING during the academic year 2020-21.

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EXTERNAL EXAMINER

AUTOMATION OF RESEARCH & DEVELOPMENT CELL

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

V.HIMAPRIYA	**17U41A0558**
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K.LAVANYA	**17U41A0531**
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EXTERNAL EXAMINER

ONLINE SMART VILLAGE DEVELOPMENT MONITORING SYSTEM

A Project Report submitted in partial fulfilment of the Requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

K LOHITHA	17U41A0534
B MADHURI KAMALA VIJAYA LAKSHMI	17U41A0510
E TEJASRI	17U41A0514
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L MOULI	17U41A0539

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This is to certify that the Project work entitled **"Online Smart Village Development Monitoring System"** is a being submitted by K LOHITHA(17U41A0534), B MADHURI KAMALA VIJAYA LAKSHMI (17U41A0510), E TEJASRI (17U41A0514),G SAI AKSHAY (17U41A0518), L MOULI (17U41A0539) in partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for **COMPUTER SCIENCE & ENGINEERING** during the academic year 2020-21.

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EXTERNAL EXAMINER

INNOVATION AND INCUBATION CENTRE

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

K.BHANU PRASANNA	**17U41A05A2**
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This is to certify that the Project work entitled **"INNOVATION AND INCUBATION CENTRE"** is a being submitted by K. BHANU PRASANNA (17U41A05A2), P. SAISREE (17U41A0590), V. VENKAT SWAROOP (17U41A0597), K. MADHU (17U41A0576), S. PAWAN KALYAN (18U45A0504) in partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for **COMPUTER SCIENCE & ENGINEERING** during the academic year 2020-2021.

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EXTERNAL EXAMINER

Automatic Traffic Sign Recognition, Classification And Alert System Using CNN

A project report submitted in partial fulfillment of the requirements for the award of the degree of

BACHELOR OF TECHNOLOGY

In

COMPUTER SCIENCE AND ENGINEERING

Submitted by

Buddha Divya Durga	**18U45A0501**
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Mosuri Janaki Srivalli	**17U41A0587**
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EXTERNAL EXAMINER

MACHINE LEARNING BASED SMART INDUSTRIAL AUTOMATION USING HYBRID ARCHTECTURE

A Project Report submitted in partial fulfillment of the requirements for the award of the degree of

BACHELOR OF TECHNOLOGY

in

COMPUTER SCIENCE AND ENGINEERING

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This to certify that the project work entitled "**MACHINE LEARNING BASED SMART INDUSTRIAL AUTOMATION USING HYBRID ARCHITECTURE**" is being submitted by M.PADMAJA (17U41A0584), S.M.HAJERA (17U41A0594), P.SURYA PRABHA (17U41A0592), CH.NAVYASREE (17U41A0566), K.SUSHMA (17U41A0575), B.J.SATYA SRI (17U41A0564) in partial fulfillment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY for **COMPUTER SCIENCE &ENGINEERING** during the academic year 2020-2021.

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EXTERNAL EXAMINER

CYBER BULLYING DETECTION BASED ON SEMANTIC-ENHANCED MARGINALIZED DENOISING AUTO-ENCODER

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

J.AMRUTHA VALLI	17U41A0522
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This is to certify that the Project work entitled "CYBER BULLYING DETECTION BASED ON SEMANTIC-ENHANCED MARGINALIZED DENOISING AUTO-ENCODER" is a being submitted by J.AMRUTHA VALLI (17U41A0522), Y.JYOTHSNA (17U41A0560), M.NAGU (17U41A0541), B.ROSHINI SANGEETHA (17U41A0511), G.SWEETY (17U41A0515) in partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for COMPUTER SCIENCE & ENGINEERING during the academic year 2020-21.

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EXTERNAL EXAMINER

FLOOD MITIGATION SYSTEM

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

B. KOMALI	17U41A0509
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EXTERNAL EXAMINER

SMART HEALTH CARE MONITORING SYSTEM USING IoT

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

A. ASWANI CHOONANDA	17U41A0501
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K. SATYA SAI SANTHOSH	17U41A0538
K. BHAVYA	17U41A0506
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This is to certify that the Project work entitled "SMART HEALTH CARE MONITORING SYSTEM USING IOT" is a being submitted by A ASWANI CHOONANDA (17U41A0501), I PRANAY SAI VARMA (17U41A0521), K SATYA SAI SANTHOSH (17U41A0538), K BHAVYA (17U41A0506), P PRAVALLIKA (17U41A0547) in partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for COMPUTER SCIENCE & ENGINEERING during the academic year 2020-21.

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EXTERNAL EXAMINER

A STUDY ON

"TRAINING AND DEVELOPMENT"

WITH REFERENCE TO

GRANULES OMNICHEM

A Joint Venture between Granules India Ltd and Ajinomoto OmniChem

A Project report submitted to Jawaharlal Nehru Technological University, Kakinada, in partial fulfillment for the Award of Degree of

MASTER OF BUSINESS ADMINISTRATION

Submitted by

A.DHANA SANJEEVANI

Reg.no.19U41E0001

Under the Esteemed Guidance of

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This is to certify that the Project work entitled "TRAINING AND DEVELOPMENT" with reference to Granules Omnichem is a bonafide work carried out by A.DHANA SANJEEVANI (19U41E0001), in partial fulfillment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of **DR. P.B RAMA KUMAR Professor&HOD** during the academic year 2019-21. This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

DR. P.B.RAMA KUMAR
PROFESSOR&HOD
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Dr. P.B.RAMA KUMAR
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HEAD OF THE DEPARTMENT

A STUDY ON

" HR PRACTICES AT
"RASHTRIYA ISPAT NIGAM LIMITED STEEL PLANT"

A Project report submitted to Jawaharlal Nehru Technological University, Kakinada, In partial fulfillment for the Award of Degree of

MASTER OF BUSINESS ADMINISTRATION

Submitted by
A.TRIVENI SAI
MAHALAXMI
Reg.no.19U41E0003

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2019-2021

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CERTIFICATE

This is to certify that the Project work entitled "**A PROJECT REPORT ON " HR PRACTICES" with reference to RASHTRIYA ISPAT NIGAM LIMITED, VISAKHAPATNAM STEEL PLANT is a Bonafede work carried out by A.TRIVENI SAI MAHALAXMI (19U41E0003)**, in partial fulfillment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of **Dr. L. RAMESH,** Professor during the academic year **2019-2021**.

This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

Dr. L.RAMESH	**Dr. RAMA KUMAR**
PROFESSOR	**PROFESSOR**
PROJECT GUIDE	**HEAD OF THE DEPARTMENT**

EXTERNAL EXAMINER

A STUDY ON

STRESS MANAGEMENT

WITH REFERENCE TO

BRANDIX APPAREL INDIA PVT LTD ATCHUTHAPURAM,

A Project report submitted to Jawaharlal Nehru Technological University, Kakinada, In partial fulfilment for the Award of Degree of

MASTER OF BUSINESS ADMINISTRATION

Submitted by

B.DURGA PRASAD

Reg.no.19U41E0006

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ASSOCIATED PROFESSOR

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This is to certify that the Project work entitled **"STRESS MANAGEMENT"** with reference to **BRANDIX APPAREL INDIA PVT LTD ATCHUTHAPURAM** is a bonafide work carried out by **B.DURGA PRASAD** (19U41E0006), in partial fulfillment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of **A.KIRAN KUMAR Professor** during the academic year 2019-21.This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

A.KIRAN KUMAR	**Dr. RAMA KUMAR P.B**
PROFESSOR	**PROFESSOR &HOD**
PROJECT GUIDE	HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER

A STUDY ON

"WELFARE MEASURES"

WITH REFERENCE TO

"COROMANDEL INTERNATIONAL LIMITED"

A Project report submitted to Jawaharlal Nehru Technological University, Kakinada, In partial fulfillment for the Award of Degree of

MASTER OF BUSINESS ADMINISTRATION

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2019-2021

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CERTIFICATE

This is to certify that the Project work entitled "**WELFARE MEASURES**" with reference to **COROMANDEL INTERNATIONAL LIMITED** is a bonafide work carried out by **CH. CHINNA APPANNA (19U41E0009),** in partial fulfillment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of **Dr. P. B. RAMA KUMAR,** Professor And HOD during the academic year 2019-21. This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

Dr. P. B. RAMA KUMAR
PROFESSSOR
PROJECT GUIDE

Dr. P. B. RAMA KUMAR
PROFESSOR
HEAD OF THEDEPARMENT

EXTERNAL EXAMINER

A STUDY ON

"WELFARE AMENITIES"

With reference to

VISAKHAPATNAM STEEL PLANT, VISAKHAPATNAM

A Project report submitted to Jawaharlal Nehru Technological University, Kakinada, in partial fulfillment for the Award of Degree of

MASTER OF BUSINESS ADMINISTRATION

Submitted by

DASARI SRI LAKSHMI

Reg.no:19U41E0010

Under the Esteemed Guidance of

A.KIRAN KUMAR

ASSOCIATE PROFESSOR

Department of Management Studies

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This is to certify that the Project work entitled **"WELFARE AMENITIES"** with reference to **VISAKHAPATNAM STEEL PLANT** is a bona fide work carried out by **D.SRILAKSHMI(19U41E0010)**, in partial fulfillment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of **A.KIRAN KUMAR ASSOCIATE PROFESSOR** during the academic year 2019-21.This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

A.KIRAN KUMAR

ASSOCIATE PROFESSOR

PROJECT GUIDE

Dr. P. B.RAMA KUMAR

HOD & PROFESSOR

HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER

A STUDY ON

"PERFORMANCE APPRAISAL SYSTEM"

With Reference To

THE CHODAVARAM CO-OPERATIVE SUGARS LIMITED-GOVADA

A Project Report Submitted To Jawaharlal Nehru Technological University, Kakinada,
In Partial Fulfillment For The Award Of Degree Of

MASTER OF BUSINESS ADMINISTRATION

Submitted by

D.SHYAM SAI

Reg.no.19U41E0012

Under the Esteemed Guidance of

Dr. RAMA KUMAR P.B

M.COM, MBA, DEE, PGDCA, Ph.D

Professor And HOD

Department of Management Studies

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NH-5, Anakapalle-531002, Visakhapatnam, A.P

CERTIFICATE

This Is To Certify That The Project Work Entitled "PERFORMANCE APPRAISAL SYSTEM" With Reference To **THE CHODAVARAM CO-OPERTIVE SUGARS LIMITED** is A Bonafide Work Carried Out By D. SHYAM SAI (19U41E0012), In Partial Fulfillment Of The Requirement For The Award Of The Degree Of **MASTER OF BUSINESS ADMINISTRATION** Under The Guidance Of **Dr. RAMA KUMAR P.B, Professor & HOD** During The Academic Year 2019-21. This Project Work Is Original And Not Submitted Earlier For The Award Of Any Degree/Diploma Or Associate Ship Of Any Other University/Institute.

Dr. RAMA KUMAR P.B
PROFESSOR & HOD
PROJECT GUIDE

Dr. RAMA KUMAR P.B
PROFESSOR
HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER

A STUDY ON

"HUMAN RESOURCE DEVELOPMENT"

WITH REFERENCE TO

RASHTRIYA ISPAT NIGAM LIMITED, VISAKHAPTNAM

A Project report submitted to Jawaharlal Nehru Technological University, Kakinada, In partial fulfillment for the Award of Degree of

MASTER OF BUSINESS ADMINISTRATION

Submitted by

G. RADHA MADHAVI
Reg.no.19U41E0014

Under the Esteemed Guidance of

Dr. LANDA RAMESH
Professor

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This is to certify that the project work entitled "**A STUDY OF HUMAN RESOURCE DEVELOPMENT"** with reference to **RASHTRIYA ISPAT NIGAM LIMITED, VISAKHAPATNAM** is a bona fied work done and submitted by **G. Radha Madhavi (19U41E0014) DADI INST OF ENG & TECH,** impartial fulfillment of the requirements for the award of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of Dr. P. B. RAM KUMAR Professor and HOD during the academic year 2019-21.

This Project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

Dr. Landa Ramesh	**Dr. P.B.RAM KUMAR**
PROFESSOR	PROFESSOR and HOD
PROJECT GUIDE	HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER

A STUDY ON

"ORGANIZATION STRUCTURE"

With Reference To

RASHTRIYA ISPAT NIGAM LIMITED , VISAKHAPATNAM

A Project report submitted to Jawaharlal Nehru Technological University, Kakinada, In partial fulfilment for the Award of Degree of

MASTER OF BUSINESS ADMINISTRATION

Submitted by

KILLADA NAGESH

Reg.no.19U41E0015

Under the Esteemed Guidance of

Dr. RAMA KUMAR P. B

M.COM, MBA, DEE, PGDCA, Ph.D

Professor & HOD

Department of Management

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CERTIFICATE

This is to certify that the Project work entitled " Organization Structure" with reference Rashtriya Ispat Nigam Limited is a bonafide work carried out by KILLADA NAGESH (19U41E0015), in partial fulfillment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of Dr.P.B.RAMA KUMAR**, HOD & Professor** during the academic year 2019-2021. This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

Dr. RAMA KUMAR P. B
PROFESSOR & HOD
PROJECTGUIDE

Dr . RAMA KUMARP.B
PROFESSOR
HEAD OF THEDEPARTMENT

EXTERNAL EXAMINER

A Study on

TRAINING AND DEVELOPNMENT

With special reference to

BHARAT HEAVY ELECTIALS LIMITED, VISAKHAPTANAM

A Project report submitted to the JNTU, Kakinada in partial fulfillment for the award of the Degree of

MASTER OF BUSINESS ADMINISTRATION

Submitted by

KOTHURU APPA RAO

(Reg. No. 19U410016)

Under the Esteemed guidance of

Dr. L RAMESH

MBA, Ph.D.

Professor

Department Of Management Studies

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CERTIFICATE

This is to certify that the project work entitled **"A Study on TRAINING AND DEVELOPNMENT" by KOTHURU APPARAO,** Reg. **No.19U41E0016 in partial fulfilment for** the award of the Degree of **Master of Business Administration during the Academic** year **2019-2021 with special reference to" BHARAT HEAVY ELECCTICALS LIMITED "** under the guidance of **Dr. L RAMESH Professor, Department of Management Studies, Diet Institute,** Anakapalle.

Project Guide:

Dr. L RAMESH
Professor
Department Of MBA

Head of the Department

Dr. P. B. RAMA KUMAR
Professor and HOD
Department Of MBA

EXTERNAL EXAMINER

A STUDY ON

"ABSENTEEISM OF WORKMEN"

With Reference To

QUANTUM CLOTHING INDIA PVT. LTD. (BRANDIX)

A Project report submitted to Jawaharlal Nehru Technological University, Kakinada,

In partial fulfillment for the Award of Degree of

MASTER OF BUSINESS ADMINISTRATION

Submitted by

LALAM GANAGAMADHURI

Reg.No.19U41E0017

Under the Esteemed Guidance of

Mr. A KIRAN KUMAR

PROFESSOR

Department of Management Studies

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This is to certify that the Project work entitled "**ABSENTEEISM OF WORKMEN**" with reference to **QUANTUM CLOTHHING INDIA PVT. LTD., VISHAKAPATNAM** is a bonafide work carried out by **LALAM GANAGAMADHURI (19U41E0017),** in partial fulfillment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of **Mr. A KIRAN KUMAR,** ASST**.** PROFESSOR during the academic year 2019-21. This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

Mr.A KIRAN KUMAR
PROFESSSOR

PROJECT GUIDE

Dr. P. B. RAMA KUMAR
PROFESSOR

HEAD OF THEDEPARMENT

EXTERNAL EXAMINER

A STUDY ON

"TRAINING AND DEVELOPMENT"

WITH REFERENCE TO

COROMANDEL INTERNATIONAL LTD, VISAKHAPATNAM

A Project report submitted to Jawaharlal Nehru Technological University, Kakinada,

In partial fulfillment for the Award of Degree of

MASTER OF BUSINESS ADMINISTRATION

Submitted by

M. D.S.B.PRIYANKA

Reg.No.19U41E0018

Under the Esteemed Guidance of

Dr. L. RAMESH (PHD)

PROFESSOR

Department Of Management Studies

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This is to certify that the Project work entitled "TRAINING AND DEVELOPMENT" with reference to COROMANDEL INTERNATIOAL LIMITED, VISHAKAPATNAM is a bona fide work carried out by M.D.S.B.PRIYANKA (19U41E0018), in partial fulfillment of the Requirement for the award of the degree of MASTER OF BUSINESS ADMINISTRATION under the guidance of DR. L. RAMESH, PROFESSOR during the academic year 2019-21. this project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

Dr. L. RAMESH
PROFESSSOR
PROJECT GUIDE

Dr. P. B. RAM KUMAR
PROFESSOR
HEAD OF THE DEPARMENT

EXTERNAL EXAMINER

A STUDY ON

"PERFORMANCE APPRAISAL SYSTEM"

WITH REFERENCE TO

VISAKHAPATNAM STEEL PLANT,

VISAKHAPATNAM

A Project report submitted to Jawaharlal Nehru Technological University, Kakinada, In partial fulfilment for the Award of Degree of

MASTER OF BUSINESS ADMINISTRATION

Submitted by

N. MANJUSHA

Reg.no.19U41E0020

Under the Esteemed Guidance of

Dr. L. RAMESH

MBA Ph.d

Assistant Professor

Department of Management Studies

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This is to certify that the Project work entitled "PERFORMANCE APPRAISAL SYSTEM" with reference to VISAKHAPATNAM STEEL PLANT is a bonafide work carried out by N. MANJUSHA (19U41E0020), in partial fulfilment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of Dr.L.RAMESH, **Professor** during the academic year 2019-20. This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

Dr. L. RAMESH
PROFESSOR
PROJECT GUIDE

Dr. RAMA KUMAR P.B
PROFESSOR
HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER

A Study on

INDUSTRIAL RELATIONS

With Special Reference To

RINL-VISAKHAPATNAM STEELPLANT

A Project report submitted to the JNTU, Kakinada in partial fulfillment for the award of the Degree of

MASTER OF BUSINESS ADMINISTRATION

Submitted by

PATNALA RAVITEJA

(Reg. No. 19U41E0021)

Under the Esteemed guidance of

Dr. L. RAMESH MBA,Ph.D

Professor

Department Of Management Studies

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CERTIFICATE

This is to certify that the project work entitled **A Study on "INDUSTRIAL RELATIONS" by** PATNALA RAVITEJA , Reg. No.19U41E0021 in partial fulfillment for the award of the Degree of **Master of Business Administration** during the Academic year 2019-2021 with special reference to **"RINL-VISAKHAPATNAM STEELPLANT"** under the guidance of **Dr. L Ramesh Professor,** Department of Management Studies, Diet Institute, and Anakapalle.

Project Guide:

Dr. L.Ramesh Ph.D
MBA, Professor
Department Of MBA

Head of the Department:

Dr. P. B. RAMA KUMAR
M.com, MBA, Ph.D.
Professor
Department Of MBA

EXTERNAL EXAMINER

A STUDY ON

TRAINING AND DEVELOPMENT"

With reference to

AUROBINDO PHARMA PVT LTD,PARAWADA

A Project report submitted to Jawaharlal Nehru Technological University, Kakinada,
In partial fulfillment for the Award of Degree of

MASTER OF BUSINESS ADMINISTRATION

Submitted by

P. SRIRAMA PRIYANKA

Reg.no.19U41E0022

Under the Esteemed Guidance of

A. KIRAN KUMAR
ASSOCIATE PROFESSOR

Department of Management Studies

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This is to certify that the Project work entitled **"TRAINING AND DEVELOPMENT"** with reference to **AUROBINDO PHARMA PVT LTD PARAWADA** is a bonafide work carried out by P.SRIRAMA PRIYANKA (19U41E0022), in partial fulfillment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of A.KIRAN KUMAR **ASSOCIATE PROFESSOR** during the academic year 2019- 2021.This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

A.KIRAN KUMAR
ASSOCIATE PROFESSOR
PROJECT GUIDE

Dr. RAMA KUMAR P.B
PROFESSOR
HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER

A STUDY ON

"WELFARE MEASURES"

With reference to

AUROBINDO PHARMA LIMITED, PARAWADA

A Project report submitted to Jawaharlal Nehru Technological University, Kakinada, In partial fulfillment for the Award of Degree of

MASTER OF BUSINESS ADMINISTRATION

Submitted by

S.ANEEMA

Reg.NO.19U41E0023

Under the Esteemed Guidance of

A.KIRAN KUMAR

ASSOCIATE PROFESSOR

Department of Management Studies

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A. KIRAN KUMAR
ASSOCIATE PROFESSOR
PROJECT GUIDE

Dr. P.B. RAMA KUMAR
PROFESSOR & HOD

EXTERNAL EXAMINER

A STUDY ON

"TRAINING AND DEVELOPMENT"

With reference to

RASHTRIYA ISPAT NIGAM LIMITED (RINL), VISAKHAPATNAM

A Project report submitted to Jawaharlal Nehru Technological University, Kakinada,
In partial fulfillment for the Award of Degree of

MASTER OF BUSINESS ADMINISTRATION

Submitted by

A BHARATHI

Reg.no.19U41E0028

Under the Esteemed Guidance of

Dr. RAMA KUMAR P.B.

M.Com, MBA, DEE, PGDCA, Ph.D

Professor **& HOD**

Department of Management Studies

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This is to certify that the Project work entitled "TRAINING AND DEVELOPMENT" with reference to RASHTRIYA ISPAT NIGAM LIMITED (IRNL), VISAKHAPATNAM is a bonfire work carried out by A.BHARATHI (19U41E0028), in partial full filament of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under **the guidance of Dr.RAMA KUMAR P.B. PROFESSOR & HOD during the** academic year 2019-21.This project work is original and not submitted earlier for the Award of any degree/diploma or associate ship of any other University/Institute.

Dr. RAMA KUMAR P.B.
M.Com, MBA, DEE, PGDCA, Ph.D
PROFESSOR & HOD
PROJECT GUIDE

Dr. RAMA KUMAR P.B.
M.Com, MBA, DEE, PGDCA, Ph.D
PROFESSOR & HOD
HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER

A STUDY ON

"PERFORMANCE APPRAISAL"

With Reference To

COROMANDAL INTERNATIONAL LTD, VISAKHAPATNAM

A Project report submitted to Jawaharlal Nehru Technological University, Kakinada, In partial fulfillment for the Award of Degree of

MASTER OF BUSINESS ADMINISTRATION

Submitted by

S. SRAVYA

Reg.no.19U41E0030

Under the Esteemed Guidance of

Dr L. RAMESH MBA,Ph.D

PROFESSOR

Department of Management Studies

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CERTIFICATE

This is to certify that the Project work entitled "**PERFORMANCE APPRAISEL**" with reference to COROMANDEL is a bona fide work carried out By **.S. SRAVYA (19U41E0030),** in partial fulfillment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of **Dr L.RAMESH, Professor** during the academic year 2019-21.This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

Dr L.RAMESH
PROFESSOR
PROJECT GUIDE

Dr. RAMA KUMAR P.B
PROFESSOR& HOD
HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER

A STUDY ON

EMPLOYEE TURNOVER

WITH REFERENCE TO

QUANTUM PVT.LTD

A Project report submitted to Jawaharlal Nehru Technological University, Kakinada, In partial fulfillment for the Award of Degree of

MASTER OF BUSINESS ADMINISTRATION

Submitted by

P.HEMASUNDAR
Reg.no: 19U41E0032

Under the Esteemed Guidance of

DR.P.B.RAMA KUMAR

PROFESSOR & HOD

M.Com,MBA,DEE,PGDCA,Ph.d

Department of Management Studies

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This is to certify that the Project work entitl**ed "EMPLOYEE TURNOVER"** with reference to **QUANTUM PVT.LTD**-is a bonafide work carried out by **P.HEMASUNDAR (19U41E00032)**, in partial fulfillment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of **DR.P.B.RAMA KUMAR professor & HOD** during the academic year 2019-21.

This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

DR.RAMA KUMAR.P.B
PROFESSOR&HOD
PROJECT GUIDE

Dr. RAMA KUMAR P.B
PROFESSOR&HOD
HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER

A STUDY ON

"RECRUITMENT AND SELECTION''

With reference to

THE CHODAVARAM CO-OPERATIVE SUGARS LIMITED,GOVADA

A Project report submitted to Jawaharlal Nehru Technological University, Kakinada, In partial fulfillment for the Award of Degree of

MASTER OF BUSINESS ADMINISTRATION

Submitted by

B.JYOTHSNA PRAVALLIKA

Reg.no.19U41E0033

Under the Esteemed Guidance of

Dr. RAMA KUMAR P.B.

M.Com, MBA, DEE, PGDCA, Ph.D

PROFESSOR & HOD

Department of Management Studies

DADI INSTITUTION OF ENGINEERING& TECHNOLOGY

(Approved by A.I.C.T.E, New Delhi &Affiliated to JNTU, Kakinada)

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CERTIFICATE

This is to certify that the Project work entitled "**RECRUITMENT AND SELECTION**" with reference to **THE CHODAVARAM CO-OPERATIVE SUGARS LIMITED,GOVADA** is a bonafide work carried out by **B. JYOTHSNA PRAVALLIKA (19U41E0033)**, in partial fulfillment of the Requirement for the award of the degree **MASTER OF BUSINESS ADMINISTRATION** under the guidance of **Dr. RAMA KUMAR P.B.** professor & HOD during the academic year 2019-2021.This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

Dr. RAMA KUMAR P.B.
PROFESSOR & HOD
PROJECT GUIDE

Dr. RAMA KUMAR P.B.
PROFESSOR & HOD
HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER

A STUDY ON

"TRAINING AND DEVELOPMENT"

With reference to

HERO MOTO CORP, VISAKAPATNAM

A Project report submitted to Jawaharlal Nehru Technological University, Kakinada, In partial fulfillment for the Award of Degree of

MASTER OF BUSINESS ADMINISTRATION

Submitted by

PANI SANTHOSH SAI KUMAR

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This is to certify that the Project work entitled "**TRAINING AND DEVELOPMENT**" with reference to HERO MOTO CORP a bona fide work carried out by **P.SANTHOSH SAI KUMAR (19U41E0035)**, in partial fulfillment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of **A.KIRAN KUMAR**

ASSOCIATE PROFESSOR during the academic year 2019-21.This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

A.KIRAN KUMAR
ASST. PROFESSOR
PROJECT GUIDE

Dr. RAMA KUMAR P.B
PROFESSOR
HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER

A Study on

PERFORMANCE APPRAISAL

With Special Reference to

UNIPARTS INDIA LIMITED, Visakhapatnam

A Project report submitted to the JNTU, Kakinada
in partial fulfillment for the award of Degree of

MASTER OF BUSINESS ADMINISTRATION

Submitted by

N.V. VENKATA SAINATH REDDY

(Reg. No. 19U41E0036)

Under the Esteemed guidance of

Mr. A KIRAN KUMAR

Associate Professor

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This is to certify that the project work entitled **"A Study on PERFORMANCE APPRAISAL" by** V.VENKATA SAINATH REDDY, Reg. No.19U41E0036 in partial fulfillment for the award of the Degree of **Master of Business Administration** during the Academic year **2019-2021** with special reference to **"UNIPARTS INDIA LIMITED"** under the guidance of **Mr. A. KIRAN KUMAR Associate Professor,** Department of Management Studies, Diet Institute, Anakapalle.

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Mr.A. KIRAN KUMAR
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Head of the Department:
Dr. P. B. RAMA KUMAR
M.com, MBA, Ph.D.
Professor and HOD
Department Of MBA

EXTERNAL EXAMINER

A STUDY ON

"BUDGET AND BUDGETARY CONTROL"

With reference to

RASHTRIYA ISPAT NIGAM LIMITED(RINL), VISAKHAPATNAM

A Project report submitted to Jawaharlal Nehru Technological University, Kakinada, in partial fulfillment for the Award of Degree of

MASTER OF BUSINESS ADMINISTRATION

Submitted by

A.MADHURI

Reg.No.19U41E0002

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This is to certify that the Project work entitled "**BUDGET AND BUDGETARY CONTROL**" with reference to **RASHTRIYA ISPAT NIGAM LIMITED, VISHAKAPATNAM** is a bonafide work carried out by **A.MADHURI (19U41E0002),** in partial fulfillment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of **DR. P. B. RAM KUMAR , HEAD AND PROFESSOR** during the academic year 2019-21. This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

Dr. P. B. RAM KUMAR
PROFESSSOR
PROJECT GUIDE

Dr. P. B. RAM KUMAR
PROFESSOR
HEAD OF THE DEPARMENT

EXTERNAL EXAMINER

A STUDY ON

"FINANCIAL PERFORMANCE & STATEMENTS"

With reference to

RASHTRIYA ISPAT NIGAM LIMITED VISAKHAPATNAM

A Project report submitted to JNTUK, Kakinada,

In partial fulfillment for the Award of Degree of

MASTER OF BUSINESS ADMINISTRATION

Submitted by

B GAYATHRI

Reg.no.19U41E0004

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This is to certify that the Project work entitled "FINANCIAL STATEMENTS & PERFORMANCE" with reference to VISAKHAPATNAM STEEL PLANT is a bonafide work carried out by **B. GAYATHRI** (Reg.no.19U41E0004), in partial fulfillment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of **Dr.P. B. RAM KUMAR**, **Professor and HOD**, Department of Management Studies during the academic year 2019-21.This project work is original and not submitted earlier for the award of any degree / diploma Associateship of any other University/Institute.

Dr. RAMAKUMAR.P.B	**Dr. RAMA KUMAR.P.B**
PROFESSOR and HOD	**PROFESSOR**
PROJECT GUIDE	HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER

A Study on

INVENTORY MANAGEMENT

With special reference to

THE CHODAVARAM CO-OPERATIVE SUGARS LIMITED, GOVADA

A Project report submitted to the JNTU, Kakinada in partial fulfillment for the award of the Degree of

MASTER OF BUSINESS ADMINISTRATION

Submitted by

BHIMINI MADHURI

(Reg. No. 19U41E0005)

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CERTIFICATE

This is to certify that the project work entitled"**A Study on INVENTORY MANAGEMENT" by** BHIMINI MADHURI, Reg. No.19U41E0005 in partial fulfilment for the award of the Degree of **Master of Business Administration** during the Academic year **2019-2021** with special reference to **"THE CHODAVARAM CO-OPERATIVE SUGARS LIMITED"** under the guidance of **Dr. P.B.RAMA KUMAR, Head & Professor,** Department of Management Studies, Dadi Institute, of Engineering & Technology, Anakapalle.

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Dr. P.B. RAMA KUMAR
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Professor & HOD
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Head of the Department:

Dr. P. B. RAMA KUMAR
M.Com, PGDCA, DEE, MBA, Ph.D.
Professor & HOD
Department Of MBA

EXTERNAL EXAMINER

A STUDY ON

"CAPITAL BUDGETING"

With reference to

RASHTRIYA ISPAT NIGAM LTD, (RINL) VISAKHAPATNAM

A Project report submitted to Jawaharlal Nehru Technological University, Kakinada,

in partial fulfillment for the Award of Degree of

MASTER OF BUSINESS ADMINISTRATION

Submitted by

B.ARUNA

Reg.No.19U41E0008

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PROFESSOR and HOD

Department of Management Studies

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CERTIFICATE

This is to certify that the Project work entitled – **CAPITAL BUDGETING‖** with reference to **RASHTRIYA ISPAT NIGAM LIMITED, VISHAKAPATNAM** is a bonafide work carried out by **B.ARUNA (19U41E0008),** in partial fulfillment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of **DR. P. B. RAMA KUMAR , HEAD AND PROFESSOR** during the academic year 2019-21. This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

Dr. P. B. RAMA KUMAR	**Dr. P. B. RAMA KUMAR**
PROFESSOR and HOD	**PROFESSOR and HOD**
PROJECT GUIDE	**HEAD OF THE DEPARMENT**

EXTERNAL EXAMINER

A STUDY ON

"FINANCIAL STATEMENT ANALYSIS"

WITH REFERENCE TO

COROMANDEL INTERNATIONAL LIMITED VISAKHAPATNAM

This Major Project is submitted to JNTUK, Kakinada, In partial fulfilment of the requirement for the award of Degree of **MBA**

"MASTER OF BUSINESS ADMINISTRATION"

Submitted by

D ANUSHA

Reg.no.19U41E0011

Under the Esteemed Guidance of

Mrs.J.SOWMYA (Ph.D.)

M.Com,MBA

ASSISTANT PROFESSOR

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CERTIFICATE

This is to certify that the Project work entitled "**A STUDY ON FINANCIAL STATEMENT ANALYSIS** " with reference to " **COROMANDEL INTERNATIONAL LIMITED** " at Visakhapatnam is a bonafide work carried out by **D ANUSHA** (19U41E0011), in partial fulfilment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of **Mrs.J.SOWMYA, ASSISTANT PROFESSOR** Department of Management Studies, Diet college, Anakapalle.

This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

Mrs.J.SOWMYA(Ph.D)
M.Com,MBA
ASSISTANT PROFESSOR
PROJECT GUIDE

Prof.Dr.P.B.RAMAKUMAR
M.Com,MBA,DEE,PGDCA,Ph.D
PROFESSOR & HOD
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EXTERNAL EXAMINER

A STUDY ON

"CAPITAL BUDGETING"

WITH REFERENCE TO

CHODAVARAM CO-OPERATIVE SUGAR Ltd. GOVADA, VISAKHAPATNAM

A Project report submitted to Jawaharlal Nehru Technological University, Kakinada, In partial fulfillment for the Award of Degree of

MASTER OF BUSINESS ADMINISTRATION

Submitted by

G. DHARMENDRA

Reg.no.19 U41E0013

Under the Esteemed Guidance of

Dr. RAMA KUMAR P.B

MBA, M.Com, DEE, PGDCA, Ph.D.

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This is to certify that the Project work entitled "-CAPITALBUDGETING" with SUGARS LIMITED GOVADA VISHAKAPATNAM is a bonafide work carried out by G.DHARMENDRA (19U41E0013), in partial fulfillment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of **Dr. RAMA KUMAR P.B** during the academic year (2019-21).

This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

Dr. RAMA KUMAR P. B
PROFESSOR AND HOD
PROJECT GUIDE

Dr. RAMA KUMAR P.B
PROFESSOR
HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER

A STUDY ON

"Working capital Management"

WITH REFERENCE TO

Meenakshi Hatcheries Private Limited,

VISAKHAPATNAM

A Project report submitted to Jawaharlal Nehru Technological University, Kakinada, In partial fulfillment for the Award of Degree of

MASTER OF BUSINESS ADMINISTRATION

Submitted by

MUNI KOTLA SAI SUMA

Regd. 19U41E0019

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This is to certify that the Project work entitled "WORKING CAPITAL MANAGEMENT" with reference to MEENAKSHI HATCHERIES PRIVATE LIMITED, VISAKHAPATNAM is a bona fide work carried out by MUNI KOTLA SAI SUMA (19U41E0019), in partial fulfillment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of **Mrs. J. SOWMYA** ASSOCIATE PROFESSOR during the academic year 2019-2021. This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institution

Mrs. J. SOWMYA
ASSOCIATE PROFESSOR
PROJECT GUIDE

Dr. P. B. RAMA KUMAR
PROFESSOR and HOD
HEAD OF THE DEPARTMENT

EXTERANAL EXAMINER

A Study on

COST VOLUME PROFIT ANALYSIS

With special reference to

CHODAVARAM CO-OPERATIVE SUGARS LIMITED, GOVADA

A Project report submitted to the JNTU, Kakinada in partial fulfillment for the award of Degree of

MASTER OF BUSINESS ADMINISTRATION

Submitted by

SURISETTI ALEKHYA

(Reg. No. 19U41E0024)

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This is to certify that the project work entitled **"A Study on COST VOLUME PROFIT ANALYSIS" by SURISETTI ALEKHYA**, Reg. No.19U41E0024 in partial fulfillment for the award of Degree of **Master of Business Administration** during the Academic year **2016- 2018** with special reference to **"CHODAVARAM CO-OPERATIVE SUGARS LIMITED, GOVADA"**under the guidance of **Dr. P.B. RAMA KUMAR Head & Professor,** Department of Management Studies, Dadi Institute of Engineering & Technology, Anakapalle.

Project Guide:
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EXTERNAL EXAMINER

A STUDY ON

"INVENTORY MANAGEMENT"

With reference to

COROMANDEL INTERNATIONAL LTD,VISAKHAPATNAM

A Project report submitted to Jawaharlal Nehru Technological University, Kakinada, In partial fulfillment for the Award of Degree of

MASTER OF BUSINESS ADMINISTRATION

Submitted by

K.V.V.N.G.PRASAD

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This is to certify that the Project work entitled " **INVENTORY MANAGEMENT**" with reference to **COROMANDEL INTERNATIOAL LIMITED, VISHAKAPATNAM** is a bona fide work carried out by **K.V.V.N.G.PRASAD, Reg.NO.19U41E0025 ,** in partial fulfillment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of **Mrs. J.SOWMYA, ASSOCIATE PROFESSOR** during the academic year 2019-2021. This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

MRS. J.SOWMYA
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PROJECT GUIDE

Dr. RAMA KUMAR P.B
PROFESSOR
HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER

A STUDY ON

"FUNDSFLOW STATEMENT"

WITH REFERENCE TO

COROMANDEL INTERNATIONAL LTD.

A Project report submitted to Jawaharlal Nehru Technological University, Kakinada, In partial fulfilment for the Award of Degree of

MASTER OF BUSINESS ADMINISTRATION

Submitted by

B. POORNA CHANDRA SEKHAR

Reg.No.19U41E0026

Under the Esteemed Guidance of

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Assistant Professor

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This is to certify that the Project work entitled "FUNDSFLOW STATEMENT" with reference to COROMANDEL INTERNATIONAL LIMITED, VISAKHAPATNAM is a bonafide work carried out by B. POORNA CHANDRA SEKHAR (19U41E0026) , in partial fulfilment of the Requirement for the award of the degree of MASTER OF BUSINESS ADMINISTRATION under the guidance of Mrs J. SOWMYA , ASSISTANT PROFESSOR, Department of Management Studies, during the academic year 2019-21. This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

Mrs J. SOWMYA
ASST.PROFESSOR

PROJECT GUIDE

Dr. P. B. RAMA KUMAR
PROFESSOR

HEAD OF THE DEPARMEN

EXTERNAL EXAMINER

A Study on

Working capital management

With special reference to

RASHTRIYA ISPAT NIGAM LTD,(RINL),VISAKHAPATNAM

A Project report submitted to the JNTU, Kakinada in partial fulfillment for the award of the Degree of

MASTER OF BUSINESS ADMINISTRATION

Submitted by

P.LAHARI

(Reg.NO:19U41E0027)

Under the Esteemed guidance of

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Department Of Management Studies

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(2019-2021)

DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi &Permanently Affiliated to JNTUK, Kakinada)

An ISO 9001:2008, ISO 14001:2004 & OHSAS 18001:2007 Certified Institute.

NH-16, Anakapalle – 531002, Visakhapatnam, A.P.

CERTIFICATE

This is to certify that the project work entitle **"A Study on Working Capital Management" by** P.LAHARI, Reg. No.19U41E0027 in partial fulfilment for the award of the Degree of **Master of Business Administration** during the Academic year **2019-2021**with special reference to **"RASHTRIYA ISPAT NIGAM LTD" (RINL)** under the guidance of **Mrs.J.SOWMYA MBA Assistant Professor,** Department of Management Studies, DIET Institute, Anakapalle.

Project Guide:
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Assistant Professor
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Head of the Department:
Dr. P. B. RAMA KUMAR
Professor & HOD
Department Of MBA

EXTERNAL EXAMINER

A STUDY ON

"FINANCIAL STATEMENT ANALYSIS"

With Reference To

THE CHODAVARAM CO-OPERATIVE SUGARS LIMITED- GOVADA

A Project report submitted to Jawaharlal Nehru Technological University, Kakinada,

In partial fulfillment for the Award of Degree of

MASTER OF BUSINESS ADMINISTRATION

Submitted by

M.LOKESH SAI

Reg.no.19U41E0029

Under the Esteemed Guidance of

Dr. P.B. RAMA KUMAR

MBA,M.com,DEE,PGDAC,Ph.D

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2019-2021

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CERTIFICATE

This is to certify that the Project work entitled "FINANCIAL STATEMENTS AND ANALYSIS" with reference to " **CHODAVARAM CO-OPERATIVE SUGERS LIMITED** "is bonafide work carried out by **M.LOKESH SAI** (19U41E0029), in partial fulfillment of the Requirement for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** under the guidance of **Dr.P.B.RAMA KUMAR PROFESSOR & HOD** during the academic year 2018-20. This project work is original and not submitted earlier for the award of any degree/diploma or associate ship of any other University/Institute.

Dr. P. B. RAMA KUMAR
PROFESSOR & HOD
PROJECT GUIDE

Dr.P.B.RAMA KUMAR
PROFESSOR & HOD
HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER

A Study on

INVENTORY MANAGENENT

With special reference to

RASHTRIYA ISPAT NIGAM LIMITED,VISAKHAPATNAM

A Project report submitted to the JNTUK, Kakinada in partial fulfillment

for the award of Degree of

MASTER OF BUSINESS ADMINISTRATION

Submitted by

S.ANURADHA

(Reg. No. 19U41E0031)

Under the Esteemed guidance of

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CERTIFICATE

This is to certify that the project work entitled "**A Study on "INVENTORY MANAGEMENT" by S.ANURADHA**, Reg. No.19U41E0031 in partial fulfilment for the award of the Degree of **Master of Business Administration** during the Academic year **2019-2020** with special reference to "**VISAKHAPATNAM STEEL PLANT, VISAKHAPATNAM"** under the guidance of **Dr. P.B. RAMA KUMAR Head & Professor,** Department of Management Studies, Dadi Institute of Engineering and Technology, Anakapalli.

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