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

BACHELOR OF TECHNOLOGY

IN

CIVIL ENGINEERING

Submitted by

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B. Tharuna Sai Sri	(18U45A0102)
P. Dilip Kumar	(18U45A0107)
M. Sai Kumar	(18U45A0148)
B. Pavan Kondala Rao	(17U41A0108)

Under the Esteemed Guidance of

Er .N. Ramu **B.Tech, M.Tech, AMIE.**

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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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EXTERNAL EXAMINER

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ABSTRACT

Structure planning and design is an art and science of designing with economy and elegance, serviceable and durable structure. The entire Process of structural planning and designing requires not only imagination and Conceptional thinking but also sound knowledge of science of structural engineering besides knowledge of practice aspects, such as relevant design codes and byelaws backed up by example experience.

The process of design commences with planning of structural primarily to meet the define as he is not aware of various implications involved in the Process of planning and design. The functional requirements and aspects of aesthetic are locked into normally be to architect while the aspect of the safety, Serviceability, durability and economy of the structure are attended by structural designer.

For the purpose a site is selected in which the building has three floor including a ground floor, it consists of all the rooms required for a residential house like bedroom, toilet, living, kitchen and hall.

Staad pro is a software tool to design structural design of any plan and also it can give loads of that structure. We can mention about which material we are going to use and what is the strength of the member, it all comes under this software.

Auto cad is a software tool to design functional design of any plans. It involves outer Appearance of the plan.

In this project work, an attempting is made according to building bye laws and design and analysis of residential building as per IS456-2000, SP-16, SP-36, Specifications, IS 1893-PART-1

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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

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B CHAKRAVARTHY	(18U45A0141)
P SOMESH	(18U45A0123)
M SAI	(18U45A0145)
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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

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PROF. KVSG MURALI KRISHNA
EXTERNAL EXAMINAR

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Abstract

Due to huge production in automobile industry the country having huge disposal from rubber tyre as waste also increased and is directly disposes to the earth. The reason for selecting tyre rubber is having more elastic nature, durable, and having high ductile nature. To reduce the cost of construction – partially replace the coarse aggregate with ordinary tyre rubber and steel with tyre bead wire in concrete.

The main aim of this project is to study the mechanical properties of rubberized (Rubber-Reinforced) concrete, which is partially replacement of coarse aggregate and tyre bead wire and compare with M_{20} ordinary mix. At the same time comparing on reducing steel reinforcement by adding bead rubber as reinforcement. From these studies we can use waste materials like tyre rubber from auto mobiles, and silica fume from industry to reduce the cost. Utilization of silica fume is to make concrete more durable, economical at usage and increase in strength parameters.

The **crumbled rubber** percentage should be not more than **0.15 ratio of 20%** replacement and **Bead wire** position should be placed in **two layers**, 2 strips at top and top strips at bottom. By increasing the percentage in silica fume the strength increases comparing to the rubber cubes, cylinders and in prims.

Keywords: Crumbled rubber, Tyre bead wire, silica fume

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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**

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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

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

EXTERNAL EXAMINAR

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Abstract

The use of plastic is increasing day by day, although steps were taken to reduce its consumption. This creates substantial garbage every day which is unhealthy. The total work is based on the fine aggregate replacement with the waste plastic, aggregates are replaced in the weight percentages as 0% to 30% with every 10% variation. As 100% replacement of natural fine aggregate with plastic fine aggregate is not feasible, partial replacement at various percentage were examined.

The grade of concrete is taken as **M20** mix design is taken by **IS code10262** as per specifications. The concrete cubes, cylinders are caste and cured for 7,14 & 28 days and then checked for compressive strength, split tensile strength. The test results are to be compare with the nominal concrete values.

Key words: replacing fine aggregate, plastic waste, mechanical properties

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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

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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.

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

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ABSTRACT

Soil is the major role in the construction point of view, the loads which are coming from the structures have to be carried by the soils only. In this point of we are conducting the soil tests on soils at Anakapalli rural area near diet college, because these soils are water logging areas and having very weak soil bearing capacity.

Soil is the base of a structure which helps in equally distributing the load and supports the super structure and foundation. If the soil stability is not adequate then failure of structure takes place in form of settlement, cracks. Black cotton soils are also called as expansive soils which is responsible for such situations and is due to presence of mineral called montmorillonite in it, which experience shrinkage and swelling. To overcome the properties of soil are improved by mechanical and chemical process known as soil stabilisation. Many researches have been conducted for stabilisation of soil by using cementing, chemical materials like fly ash, calcium chloride, sodium chloride etc. In India, limited techniques are followed in agricultural waste disposal. India is second largest country in the production of sugarcane with 341,400 thousand metric annual tonnes (TMT) produce. Western Maharashtra is pioneer in production of sugarcane in large quantities sugar cane factories produce waste after extraction of sugarcane juice in machines and that waste after burning produce ash known as bagasse ash. It is made up of fibrous material having silica and pozzolanic in nature which improves the physical properties of black cotton soil. Experiments are conducted on black cotton soil by partially replacing bagasse ash (4%,8%,12%,16%). Black cotton soil properties of are increased at 16 % by replacing of bagasse ash not including any chemicals.

Keywords: Soil Stabilisation, Black Cotton Soil, Bagasse Ash, Unconfined Compression Test, Maximum Dry Density

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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

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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

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EXTERNAL EXAMINER

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ABSTRACT

This project is to investigate the performance of flexible pavement with the influence of bagasse fibre, polymer fibres, and glass fiber based on MORTH(Ministry of Road Transport and Highway) specifications.

The present study covers, methodology to determine the engineering properties of Stone Mastic Asphalt(SMA) mixtures using the fibres and fillers by means of laboratory procedures. In order to ensure the suitable fibre content, using the various tests results experiments are carried out by choosing constant fiber content.

These specimens are further tested for their stability. The Optimum Bitumen Content(OBC) for the mix was calculated. These samples prepared with optimal fiber and bitumen contents are analysed for the different marshall stability properties. Then all the results were compared between the fiber and conventional mix to understand the significance of the fibers in performance with their engineering properties for those SMA mixes. Key Words: Bitumen, Glass Fiber,polymer fibre, bagasse fibre OBC & SMA.

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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

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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.

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PROF. KUSA MURALI KRISHNA

EXTERNAL EXAMINAR

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ABSTRACT

Bricks have been playing a significant role in buildings and other constructions from ancient days. The main objective of this research is to analyzing and comparison of the performance of fired clay bricks with bricks made with partial replacement of sawdust, exfoliated vermiculite and perlite. We will study on the mechanical and physical properties of above bricks and suggesting the best brick for construction.

We will study the Water absorption, Compressive strength, Soundness, Efflorescence, Hardness of above bricks and are compared with the fired clay brick (or) conventional bricks.

Key words:

Clay bricks, Exfoliated vermiculite, Perlite, Saw dust, Soundness, Efflorescence, compressive strength, water absorption, Hardness, Durability.

Fired clay bricks remain one of the most enduring building materials known to the worldwide building industry. Bricks have an excellent fire rating; it is weather-proof and has really good acoustic properties and is almost soundproof.

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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

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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

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ABSTRACT

Pervious concrete is a composite material consisting of coarse aggregate, Portland cement, and water, which allows rainwater to percolate through the surface and into he ground before it runs off. This approach reduces storm water runoff volumes and ninimizes the pollutants introduced into storm water runoff from surface areas, and echarging Ground Water Levels. Strength and Water Absorption are important properties of Pervious Concrete. This paper represents the experimental methodology and experimental esults related to strength, Mix ratio.

Cubes of size 150 mm*150mm*150 mm height are prepared to investigate oth these properties. This investigation is carried out at the end of 7day and 28 days for trength of pervious concrete. Different concrete mix proportion such as 1:4, 1:5, 1:6, and :7 with different size of gravel such as 20 mm,12.5mm should be used to check both these roperties of pervious concrete. To improve compressive strength and tensile strength of ervious concrete by using Nylon fibres as tags. Nylon possesses many properties that make : a very useful fibre in many applications. It is very strong and elastic;

The pervious concrete can mainly have applied to Parking areas, Sidewalks & athways, Residential roads, alleys and driveways, Shoulders & Medians, Under Overpasses & Bridges, Swimming pool decks, Slope stabilization, footpaths. Using selected aggregates, ine mineral, admixtures, organic intensifiers and by adjusting the concrete mix proportion, trength and abrasion resistance can improve the pervious concrete greatly.

Pervious concrete is a light weight concrete which mainly is comprised of ement, water coarse aggregate without fine aggregate. It is also widely pervious concrete As we all know that concrete plays major role in the field of construction and cement is the ey ingredient of the concrete mix and we are well aware of the environmental pollution that ccurs due to the process of manufacturing the cement by omitting (CO2). For the purpose o increase strength the polypropylene fibers are used

Key words: Permeability, runoff, pavement, polypropylene fibers, and compressive strength plit tensile strength .

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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

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Prof KVSG MURALI KRISHNA.

EXTERNAL EXAMINER

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ABSTRACT

Concrete is one of the most widely used construction material having several advantages such as high strength, good mouldability and high durability. Self-compacting concrete (SCC) is a concrete which is highly flowable, can flows readily into place, fill the formwork without any compaction and without undergoing any significant segregation. Recycling is the act of processing the used material for creating a new useful product. Such a recycled aggregate proved to be a reliable alterative to natural aggregates in concrete. Use of aggregates from building demolished waste (BDW) in structural concrete definitely an important stride. This has necessitated the make use of recycled aggregate in SCC and fiber based SCC.

The present study focuses on flexural bond strength behavior of fiber reinforced self compacting concrete by replacing the natural aggregate with 5% of Recycled aggregates. BDW is used as coarse aggregate in the concrete, with an aim to achieve sustainable concrete. The replacement of coarse aggregate was replaced with RCA in the range of 25% - 65% at an increment of 5%. The present study concludes that by replacement of coarse aggregate with recycled aggregate at 30% to 35% found to be acceptable.

Keywords: Recycled aggregates, self-compacting concrete, super plasticizer.

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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

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CERTIFICATE

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EXTERNAL EXAMINER

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ABSTRACT

In all over the world, most of the buildings were constructed for their need and necessity. Buildings constructed using different types of materials (cement, fine aggregates, and coarse aggregates, admixtures, steel and etc). Constructions are safe in which usage of materials are in a proper way and following the mix designs in detail.

But now a days in most of building constructions no one is following the code books, due to this may be some constructions were safe but most of the constructions will be failed, because of improper selection of materials, quality and quantity control, lack of knowledge, Inadequate Planning. Poor planning leads to poor execution, Productivity Issues & delays etc. It may leads to develop the cracks in the structure.

Now in this project, we would like to study in detail about "a case study on repair and rehabilitation of the buildings. To identify and eradicate the types of cracks in the buildings, the following methods and strategies will be executed.

1. Epoxy Injection
2. Grouting
3. Crack Stitching
4. Patching and Tiling
5. Drilling and Plugging
6. Autogenous Healing

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AN EXPERIMENTAL STUDY ON STRENGTH CHARACTERISTICS OF (M-20 GRADE) 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

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EXTERNAL EXAMINE

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ABSTRACT

Cement concrete is one of the most extensively used building materials in the field of Civil engineering which is used in almost all construction work. As India is developing country, the construction activity is increasing at a rapid phase thus increases the consumption of cement, sand and Aggregates. Increase in the demand of cement concrete lead to increase in cost not only cost but excessive production of cements leads to co2 emission and great threaten to environment. Material like natural sand is depleting at an alarming rate, so there is a need to find some alternative to these material.

Utilization of Industrial waste (slag) in the concrete is one of the Alternative. It not only increases the properties of concrete but also reduces pollution in the environment. The Industrial waste were dumped on land or discharged into water bodies and thus become a large source of environment pollution. In the present study G.G.B.S. and copper slag are taken as partial replacement in cement and fine aggregate. Copper slag is an excellent by product due to its chemical composition which includes high iron, silica and aluminium oxide content, it can be used as partial replacement for sand in concrete mix.

In the present study M20 mix design an attempt has been made by partial replacement of cement with G.G.B.S and fine aggregates with copper slag i.e.(10%,20%,30% and 40%) by weight. The compressive strength vales of 7 and 28days of partial replacement of G.G.B.S and copper slag (10%,20%,30% and 40%) values(35.23 MPa,31.43MPa,29.64 MPa and 25.44MPa) were compared with the target compressive strength value of 28days (26.60 MPa) of conventional M20 design mix. It is observed from the test result the 28days compressive strength values of 10% , 20% and 30% are more than the target 28 days compressive strength value of conventional

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EXPERIMENTAL 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

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EXTERNAL EXAMINER

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ABSTRACT

Reviews of several literatures have made to understand the behavior reactive powder concrete. The reactive powder concrete have properties like reduction in aggregate size, enhanced mechanical properties, reduction in aggregate to matrix ratio. The durability of RPC was better than HPC, such as abrasive wear, Water absorption, corrosion, chloride ion diffusions are lower than HPC. RPC having the reduction in the total quantity of material consumed and the use of recycled materials in ductile.RPC provides improve seismic performance by reducing inertia loads with lighter members, allowing larger deflection with reduced cross section and providing higher energy absorption. The extremely low levels of water and chloride ions indicates the potential of RPC as good material for storage of nuclear waste. RPC concrete can be used in construction of nuclear plants because of its high impermeable nature.

Reactive powder concrete (RPC) is the cement based material which is one of the types of ultra-high performance concrete or we can say that it is an ultra-high strength concrete with an excellent durability. Reactive powder concrete is a new member in concrete family developed in 1990's with high ductility composite material and possess superior mechanical property. Elements of Reactive Powder Concrete used in this investigation are Cement (ordinary Portland cement), crushed Quartz sand of 100-200 mesh and 250 mesh, fine sand , micro silica , steel fibers , aggregate (8mm) , admixture , pure water. Mix proportion in this paper is based on trial and error method and as according to the chemical composition of ingredients. Compressive strength of reactive powder concrete goes up to 45-80 MPA in the present investigation.

Key words: silica fume, steel fibers, polypropylene fiber, compressive strength, split tensile.

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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

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EXTERNAL EXAMINER

ABSTRACT

The exponential increase COVID-19 patients is over whelming health care systems across the world. With limited testing kits, it is imposible for every patient with respiratory illness to be tested using conventional techniques (rRT-PCR). The tests also have long turn around time, and limited sensitivity. Detecting possible COVID-19 infections on Chest X-Ray may help quarantine high risk patients while test results are awaited. X-Ray machines are already available in most health care systems, and with most modern X-Ray systems already digitized, thereis no transportation time involved for the simples either. In this work we propose the use of chest X-Ray to prioritize the selection of patients for further RT-PCR testing. This may be useful in an inpatient setting where the present systems are struggling to decide whether to keep the patient in the Ward along with other patients or isolate them in COVID-19 areas. It would also help in identifying patients with high likelihood of COVID with a false negative RT-PCR who would need repeat testing. Further, we propose the use of modern AI techniques to detect the COVID-19 patients using X-Ray images in an automated manner, particularly in settings where radiologists are not available, and help make the proposed testing technology scalable. We present Covid AID: COVID-19 AI Detector, a novel deep neural network based model to patients for appropriate testing.

INDEX TERMS: COVID-19, deep learning, pneumonia, radiological imaging, chest X-ray.

5G SMART DIABETES PREDICTION USING MACHINE LEARNING

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

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IN

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EXTERNAL EXAMINER

ABSTRACT

Recent advances in wireless networking and big data technologies, such as 5G networks, medical big data analytics, and the Internet of Things, along with recent developments in wearable computing and artificial intelligence, are enabling the development and implementation of innovative diabetes monitoring systems and applications. Due to the life-long and systematic harm suffered by diabetes patients, it is critical to design effective methods for the diagnosis and treatment of diabetes. Based on our comprehensive investigation, this article classifies those methods into Diabetes 1.0 and Diabetes 2.0, which exhibit deficiencies in terms of networking and intelligence. Thus, our goal is to design a sustainable, cost-effective, and intelligent diabetes diagnosis solution with personalized treatment. In this article, we first propose the 5G-Smart Diabetes system, which combines the state-of-the-art technologies such as wearable 2.0, machine learning, and big data to generate comprehensive sensing and analysis for patients suffering from diabetes. Then we present the data sharing mechanism and personalized data analysis model for 5G-Smart Diabetes. Finally, The experimental results show that our system can effectively provide personalized diagnosis and treatment suggestions to patients.

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

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IN

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EXTERNAL EXAMINER

ABSTRACT

The project "AUTOMATIC SOLAR STREET LIGHT MONITORING AND CONTROL SYSTEM" is developed for automatic street lights maintenance and to reduce power consumption. The application is designed in such a way that we place light sensors in all street light circuits, which is responsible to switch on and off automatically. Once the lights are switched on current sensors placed at every street light circuits are responsible to report problem status to the centralized system with help of Node MCUV3 module attached with the circuit. The status is available in the centralized system, the work man now can easily locate the particular light to take care which minimizes the time to search it and repair. An Ethernet system with Thing Speak application is used for telecommunication between the street lighting systems with a monitoring system. The system also maintains database to store useful information from each street light like power consumption, total number of burning hours, total number of interruptions, tally the actual power consumption with the power supplied and details of fault detection. Hence maintaining the system with optimal power consumption giving commercial benefits to business and the prosperity of the city as a whole.

Keywords: NodeMCUV3 board, Light Dependant Resistor [LDR], TE174 Sensor, Voltage Regulator, Solar Panel, Rechargeable Battery.

ONLINE SMART VILLAGE DEVELOPMENT MONITORING SYSTEM

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

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IN

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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

ABSTRACT

Village development is a complex phenomenon. In this project issues like primary education, people's health, government policies, awareness and availability of basic facilities / infrastructure are the main focus.

It is "WEB" based project. The main aim of this project is to voluntarily help villages / towns. Previously, if any problem occurs in a village, people have to go and ask higher authorities and there is no interaction between them. Whereas now, people can interact and share their problems depending on the website. So that we can implement different activities.

It is developed in a manner that is easily manageable and time saving. In this project users will register to the website. Users of this application will gather all the requirements of the village to be developed in this site. We will upload all the necessary information regarding the Application. This information will be viewed by everyone who is registered with this website. people can give their views about the development.

keywords: Web based application, Smart village, XAMPP Server.

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

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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

ABSTRACT

Every year, the number of students wanting to pursue higher studies in abroad especially in US is more and they find difficult to search the best university. And thus, this paper helps on predicting the eligibility of Indian students getting admission in best university based on their test attributes like GRE,TOEFL,CGPA, According to their scores the possibilities of chance of admit is calculated. This project uses different machine learning techniques specifically logistic regression, Random forest which are existing approaches and in this project we implement the ensemble classification for predicting the output which helps them to admit in the best university and also helps the student to find the possibility of admitting in other universities based on their scores.

SMART HEALTH CARE MONITORING SYSTEM USING IoT

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

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IN

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EXTERNAL EXAMINER

ABSTRACT

The innovation is changing the scene of the world and driving us towards a down to earth specialized world. The rising part of IoT has made an enormous effect on human services. It enhances the nature of care. IoT has been widely used to interconnect the advanced medical resources and to offer smart and effective healthcare services to the people. Not only to the patients but also provides facilities to the doctors and hospitals as well. Here the monitoring system consists of various medical devices such as sensors and web or mobile based applications which communicate via network connected devices and helps to monitor and record patient's health data and medical information. Our system is designed to be used in hospitals and homes also for measuring and monitoring various parameters like Temperature, ECG, Body fall detection, Saline levels and Pulse rate. These are recorded using Arduino. The proposed outcome of the project is to build a system to provide world-class medical aid to patients even in the remote areas with no hospitals in their areas by connecting over internet and grasping health information about patients.

Keywords: Internet of Things (IoT), IoT in healthcare, Arduino, Sensors, Mobile-based application.

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

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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.

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EXTERNAL EXAMINER

ABSTRACT

In this modern age there is rapid increase in number of vehicles and so is the number of car theft attempts locally and internationally. With in the invention of strong stealing techniques, owners are in fear of having their vehicles begin stolen from Common parking lot or from outside there home. So there so much of insecure environment. REAL VEHICLE SECURITY SYSTEM based on computer vision provides a solution to this problem. The proposed vehicle security system performs image processing based real time user authentication using face detection and recognition techniques and micro processor based control system fixed on board with the vehicle . The infrared sensor attached to the driver seat of the vehicle activates the hidden camera fixed in appropriate position inside the vehicle . Traditional Surveillance systems are rigid, infrastructure oriented and expensive. Surveillance system with Raspberry pi and python flexible ,adopted and small in size. Raspberry pi 3model B module is used in this system to achieve high speed of operation. Pi camera v2module is interfered to one camera interface of Raspberry pi #. The basic system consists of two parts face detection and face recognition. the framework is modified using python Programming dialect. Both ongoing face recognition and face identification from particular pictures, i.e., protest Recognition is done in the framework. In face identification we have built up a calculation that can recognize human apperances from a picture. We have taken skin shading as a device for identification. This procedure functions admiraly for idian confronts which have a particular composition fluctuating under certain range.We have taken genuiene Illustrations and reenacted the calculations using python and open CV on Raspberry Pi successfully.

KEYWORDS: Vehicle Security, Face Recogniton, Finger Print, GPS, SMS, password, Raspberry Pi, Pi camera.

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

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EXTERNAL EXAMINER

ABSTRACT

The new Coronavirus disease (COVID-19) has seriously affected the world. By the end of November 2020, the global number of new coronavirus cases had already exceeded 60 million and the number of deaths 1,410,378 according to information from the World Health Organization (WHO). To limit the spread of the disease, mandatory face-mask rules are now becoming common in public settings around the world. Additionally, many public service providers require customers to wear face-masks in accordance with predefined rules (e.g., covering both mouth and nose) when using public services. These developments inspired research into automatic (computer-vision-based) techniques for face-mask detection that can help monitor public behaviour and contribute towards constraining the COVID-19 pandemic. Although existing research in this area resulted in efficient techniques for face-mask detection, these usually operate under the assumption that modern face detectors provide perfect detection performance (even for masked faces) and that the main goal of the techniques is to detect the presence of face-masks only. In this study, we revisit these common assumptions and explore the following research questions: (i) How well do existing face detectors perform with masked-face images? (ii) Is it possible to detect a proper (regulation-compliant) placement of facial masks? And iii) How useful are existing face-mask detection techniques for monitoring applications during the COVID-19 pandemic? To answer these and related questions we conduct a comprehensive experimental evaluation of several recent face detectors for their performance with masked-face images. Furthermore, we investigate the usefulness of multiple off-the-shelf deep-learning models for recognizing correct face-mask placement. Finally, we design a complete pipeline for recognizing whether face-masks are worn correctly or not and compare the performance of the pipeline with standard face-mask detection models from the literature. To facilitate the study, we compile a large dataset of facial images from the publicly available MAFA and Wider Face datasets and annotate it with compliant and non-compliant labels. The annotation dataset, called Face-Mask-Label Dataset (FMLD), is made publicly available to the research community.

Keywords: COVID-19; masked-face detection; face-mask classification; face-mask recognition; COVID-19 compliant mask detection.

HOUSE PRICE PREDICTION USING REGRESSION

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

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IN

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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

ABSTRACT

- House price prediction using regression in machine learning is an important topic of real estate. Estimation of house prices can be done in various ways, but is often based on regression techniques.
- All regression techniques essentially involve one or more predictor variables as input and a single target variable as output.
- Here we have to choosen decision tree regressor algorithm in machine learning to predict the price of the houses.

KEYWORDS : House Price Prediction, Machine Learning, Linear Regression.

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

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ABSTRACT

The flood mitigation system uses the help of IOT to predict the chances of occurrence of floods. This system uses various sensors to calculate the threshold limits and alerts the people and the government similar to the seismometer, which predicts and calculates the severity of Flood. This system gathers input from all the sensors and merges them into one output, which results in passing information whether the chances of occurrence of flood are either high or low.

Keywords : Internet of Things(IOT), Sensors, Warning Signal, Buzzer Notification, Blynk app.

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

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EXTERNAL EXAMINER

ABSTRACT

Earlier manual documentation is done to deal with information and operations regarding research and development of an organization. That leads to data redundancy and time consuming. Automation of research and development cell is done to solve it. The R&D website consists of two modules , Admin module and Main module. Admin module is accessable to only specified persons. Main module can be accessed only by registered persons and viewed by all. A novice user can use it and knows all the details of the organization. The website is made dynamic and is designed using HTML, PHP and mysql. It is used for the easy management and reveals the information regarding the research and development of the organization

Keywords: Manual documentation, automation, admin module, main module, research and development cell, HTML, PHP, apache server, MySQL, dynamic website.

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

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IN

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EXTERNAL EXAMINER

ABSTRACT

While social media offer great communication opportunities, they also increase the vulnerability of young people to threatening situations online. Recent studies report that cyber bullying constitutes a growing problem among youngsters. However, the misuse of social technologies such as social media platforms, has introduced a new form of aggression and violence that occurs exclusively online. Successful prevention depends on the adequate detection of potentially harmful messages and the information overload on the Web requires intelligent systems to identify potential risks automatically. Though data collection and feature engineering process has been elaborated, yet most of the emphasis is on feature selection algorithms and then using various algorithms for prediction of cyber bullying behaviours. The focus of this project is on automatic cyber bullying detection in social media text by modelling posts written by bullies, victims, and bystanders of online bullying. We review and identify the main issues related to the construction of cyber bullying prediction models in social media

Keywords : Cyber bullying, Cyber threat, Social technologies, Data collection, Algorithms.

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

COMPUTER SCIENCE AND ENGINEERING

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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 G NAVIN KUMAR (17U41A0517), T RENUKA (17U41A0542), B KASI ANNAPOORNA DEVI (17U41A0508), K DINESH (17U41A0523), K LOKESH (17U41A0527), 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

ABSTRACT

There are many existing journals publishing research papers. However due to some issues such as cost, plagiarism verification and reliability, authors are in a dilemma to publish their work. DIJEST is a dynamic website which overcomes all these issues implemented using PHP and MySQL. "**DIET International Journal of Engineering Sciences and Technology**" is a peer-reviewed, open access and multidisciplinary engineering, technology and science journal that publishes original research & review articles of all major branches of Engineering, Science and Technology. A fully open access publishing model is adapted which allows open global access to its published content where anyone can download and read articles round the clock totally free of cost.

Keywords: Web based application, International Journal,Web Journal , XAMPP Server

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

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IN

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EXTERNAL EXAMINER

ABSTRACT

There are many existing journals publishing research papers. However due to some issues such as cost, plagiarism verification and reliability, authors are in a dilemma to publish their work. DIJEST is a dynamic website which overcomes all these issues implemented using PHP and MySQL. "**DIET International Journal of Engineering Sciences and Technology**" is a peer-reviewed, open access and multidisciplinary engineering, technology and science journal that publishes original research & review articles of all major branches of Engineering, Science and Technology. A fully open access publishing model is adapted which allows open global access to its published content where anyone can download and read articles round the clock totally free of cost.

Keywords: Web based application, International Journal,Web Journal , XAMPP Server

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

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EXTERNAL EXAMINER

ABSTRACT

Earlier there are no support, encouragement, technical infrastructure and working environment among people in society. A team of professionals and experts undertake the responsibility of monitoring and guiding innovative research projects and start-ups at higher educational institutes. The Centre is setting up at All India Council for Technical Education (AICTE) to foster "out of box thinking" under government program. The Cell, to be headed by an eminent scientist, will function directly under the Ministry of Human Resource Development (MHRD). our college is also registered under MHRD innovation cell in 2019. For this we are working on innovation and incubation cell website designing. The website is dynamic and it consist of two modules –Admin and Main modules. Admin module can be accessed by only specified persons. Main module can be accessed by registered persons and can be viewed by any.

Keywords: AICTE out of box thinking, MHRD Innovation cell, Dynamic website, Admin module, Main module

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

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EXTERNAL EXAMINER

Abstract

Traffic sign classification is an important task in autonomous driving and assistant driving systems. In this thesis we do automatic learning of features and classification on traffic signs from images. First, we study several publicly available libraries for deep learning. Several CNN architectures are then tested under different parameter settings and scenarios, such as network depth, filter size, dropout rate and pre-processing by using original images and segmented images. The German Traffic Sign Recognition Benchmark was used to train in a supervised way the CNN model. Pre-processing and segmentation are tested to make the training more robust and the network able to generate more independent features. The results obtained are good for all study cases and all 43 traffic sign classes. We reached test accuracies above 98% that are comparable to state of the art performances.

Keywords: Convolutional Neural Networks, Traffic Sign Classification, Supervised Learning, German Traffic Sign Recognition Benchmark

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

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ABSTRACT

The counting and analysis of blood cells allows the evaluation and diagnosis of a vast number of diseases. In particular, the analysis of blood cells (WBC & RBC) is a topic of great interest to hematologist. Nowadays the morphological analysis of blood cells is performed manually by skilled operators. This involves numerous drawbacks, such as slowness of the analysis and a non-standard accuracy dependent on the operator skills. This paper presents a complete and fully automatic method for blood cells identification from microscopic images. The whole work has been developed using MATLAB environment, in particular the image processing toolbox.

Keyword:

MATLAB, Microscopic Image, Morphologic analysis, Image processing.

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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

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ABSTRACT

Now a day's digital technology rules the world. Here the goal is to bring the part of the physical world to digital world. Sixth sense is a wearable gesture interface that augment the physical world with the digital world around us. Here the sixth sense allowing us to interact with the information via natural hand gestures. Thus, making entire world your computer integrating information into our daily life. Most of used artificial methodology can aid in synthesis of bots that will be able to interact with the humans. Let us use the natural hand gestures to interact with the world. Here the gesture computing is called the 'perceptual computing'.

Keywords: Gesture Computing, Sixth Sense Technology, Wearable Gestural Interface, Perceptual Computing.

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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

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ABSTRACT

Water plays a vital role in day to day life at all times.But,the availability of the same differs seasonally.Especially,duringsummer,it is difficult of watering the plants regularly.so the household waste water can be treated and supplied properly for plantation purpose .Here,a system which can be designed to fulfill the needs at most level.As the number of apartments are increasing,household waste water quantity also increasing rapidly which leads the scarcity of water for plantation.this drawback is going to be converted as an advantage to make the eco friendly system.

Keywords: Water quality, PH ,Conductivity ,GSM,EGsensor, Temperature sensor,Wi-max,Arduino

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Blind People Supporting System using Arduino

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

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Abstract

Nowadays, the blind and impaired peoples are suffering a lot to reach their destinations. Visually impaired peoples are facing difficulties for detecting objects and obstacles in front of them. Peoples with visual disabilities are often dependent on others. The proposed system provides the simple blind peoples supporting system. Basically, the ultrasonic sensor is implemented in this system for detecting the obstacles in surroundings the blind peoples. If there are any obstacles it will alert the blind people by providing the voice commands from the speaker.

Keywords: Arduino UNO, Ultrasonic Sensor, speaker.

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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

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ABSTRACT

In this project Electronic customer service management system (ECSMS) using IOT is designed. Now a day's people are very busy with their work and all are commonly using electronic gadgets like Ac, washing machine etc., some people are migrated to a new place's basis on their work.

In those situations, they face a common problem like plumbing, Ac repair, Tv repair etc. In this case they don't know the nearer mechanics for contact to solve the problem.

Based on these issues to maintenance in various places such as household, organization and factories etc., this device is to post a problem (complaint) regarding the issues in the form of simple mail. This mail service using SMTP protocol.

This device is mainly used where the numbers of buildings (or) apartments are together. Generally, business has to support the customer preference services for creating the loyalty. The customer may feel dissatisfied with the services then business has to grow down. Therefore, this project to solving the customer's issues. The test result shows that this system is able to reduce the time and procedure for complaint handling.

The main aim of the project is to provider an easy-to-use application for services provided for customers.

Keywords: Arduino, Node MCU ESP8266, SMTP

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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

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EXTERNAL EXAMINER

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ABSTRACT

There is much to learn about the novel corona virus (SARS-CoV-2) that causes corona virus disease 2019 (COVID-19). Based on what is currently known about COVID-19, COVID-19 spreads mainly among people who are in close contact (within about 6 feet) for a prolonged period. Spread happens when an infected person coughs, sneezes, or talks, and droplets from their mouth or nose are launched into the air and land in the mouths or noses of people nearby. The droplets can also be inhaled into the lungs. Recent studies indicate that people who are infected but do not have symptoms likely also play a role in the spread of COVID-19. Since people can spread the virus before they know they are sick, it is important to stay at least 6 feet away from others when possible, even if you or they do not have any symptoms. Social distancing is especially important for people who are at higher risk for severe illness from COVID-19.

Limiting close face-to-face contact with others is the best way to reduce the spread of corona virus disease 2019 (COVID-19). Primarily Social Distancing is needed to maintain at public areas such as schools, Colleges, Markets etc. Our proposed system is designed for students, which is implemented in their ID cards. This ID card detects the distance between the person-to-person if both are come nearer it gives the sound alert. In this device we are measuring body temperature and pulse rate of the person when the student give his/her attendance all the details including body temperature and pulse rate will be updated to server using IoT Technology.

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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

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EXTERNAL EXAMINER

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ABSTRACT

Segmenting the focused objects from multiple images and merging these efficiently segmented objects into a single quality image using 'Image segmentation, retrieval and merging based on HSI values' technique shows better identification of objects in an image and less response time. When the quality of this image compared with similar images obtained from other available techniques determines the improvement in processing time required and efficient segmentation.

The Edge-Based, Thresholding and Region-Based segmentation techniques when are applied on digital images, problems like object expansion, mixing of unwanted objects, unwanted segmentation of required image are experienced. Such problems can be avoided by implementing 'Image segmentation, retrieval and merging based on HSI values'.

To implement 'Image segment retrieval and merging based on HSI values' technique a set of images shot on different focused objects which are needed to be merged into one are required. Where the images which are to be segmented undergoes three stages,

1) Calculating the hue, saturation and intensity values using HSI image acquisition,
2) Based on that values, image can be segmented using K Means Clustering. K Means Clustering uses a hyper box fuzzy set concept.
3) Finally merging the segmented objects into second image is processed using Discrete Wavelet Frame Transform (DWFT), which gives us morphed image with multiple focused segments in a single image.

Image segment retrieval and merging based on HSI values of segments can be applied in picturization of videos and images which deals with dual role of an actor.

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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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EXTERNAL EXAMINER

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ABSTRACT

In this project a 1-bit full adder circuit with full swing XOR-XNOR Gates is proposed. The proposed circuit is highly optimized in terms of power consumption and delay which are due to output low Capacitance and low short circuit power dissipation. The proposed circuit has its own merits in terms of speed, power consumption, number of transistors used, driving ability and so on. The proposed Design is capable of achieving low power dissipation and delay. The simulation results, based on the 130-nm technology model, indicate that the proposed designs have superior speed and power against other FA designs.

Keywords: OR-XNOR, full adder, transmission gate logic style, hybrid logic style, output driving capability.

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SOCIAL DISTANCING ID CARD

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

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IN

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ABSTRACT

There is much to learn about the novel corona virus (SARS-CoV-2) that causes corona virus disease 2019 (COVID-19). Based on what is currently known about COVID-19, COVID-19 spreads mainly among people who are in close contact (within about 6 feet) for a prolonged period. Spread happens when an infected person coughs, sneezes, or talks, and droplets from their mouth or nose are launched into the air and land in the mouths or noses of people nearby. The droplets can also be inhaled into the lungs. Recent studies indicate that people who are infected but do not have symptoms likely also play a role in the spread of COVID-19. Since people can spread the virus before they know they are sick, it is important to stay at least 6 feet away from others when possible, even if you or they do not have any symptoms. Social distancing is especially important for people who are at higher risk for severe illness from COVID-19.

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Keywords: Ardunio, WI-Fi Module, RTC Module, RFID Technology

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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

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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.

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EXTERNAL EXAMINER

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ABSTRACT

Steganography is the art of hiding the fact that communication is taking place, by hiding information in other medium. Steganography is most strong techniques to mask the existence of unseen secret data within a cover object. Actually Stego means "Cover" graphy means "writing" that means it is nothing but we are hiding secret objects in cover image in which medium is different types of images. In practical feasible implementation practical approach would be to make the algorithm as strong as possible. Many different carrier file formats can be used, but digital images are the most popular because of their frequent use on the Internet. For hiding secret information in images, there exists a large variety of steganographic techniques. The Least Significant Bit (LSB) based approach is a simplest type of steganographic algorithm. In all the existing approaches, the decision of choosing the region within a cover image is performed without considering the relationship between image content and the size of secret message. Thus, the plain regions in the cover will be ruin after data hiding even at a low data rate. Hence choosing the edge region for data hiding will be a solution. Many algorithms are deal with edges in images for data hiding. LSB steganography presented the results of algorithms on gray-scale images only. In this we analyze the performance of edge adaptive steganography for colored images (JPEG). The algorithms have been slightly modified for colored image implemented and are compared on the basis of evaluation parameter like peak signal noise ratio (PSNR). This method can select the edge region depending on the length of secret message and difference between two consecutive bits in the cover image. For length of message is short, only small edge regions are utilized while on leaving other region as such. When the data rate increases, more regions can be used adaptively for data hiding by adjusting the parameters. Besides this, the message is encrypted using efficient cryptographic algorithm which further increases the security. The metrics in MATLAB indicates how similar or dissimilar the stego-image compares with cover.

Keywords: *Image security, Encryption, Steganography, Cryptography, LSBMR, RSA algorithm, PSNR*

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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

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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.

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EXTERNAL EXAMINER

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ABSTRACT

Due to the increase in road accidents the death rate is increasing and it is a major concern than one can't imagine. The reasons for road accidents are the driver's alcohol consumption. The death rate due to drink and drive is in high in rate due to these especially in countries like India. So a system is proposed to detect the alcohol content level of the driver. The proposed work explores the possibility to detect alcohol at very first using technology. The alcohol content of the driver is detected using the MQ3 sensors embedded in the steering of the vehicle. The breath of the driver is sensed through this sensor and the alcohol content is the blood is analyzed. The driver cannot start the car if the alcohol content is above the threshold value. The added features to this system is the alcohol sensors sense only the person sitting in the driver's seat and will not take into account of the fellow passenger. It is also used to track the theft of the vehicle if there using the figure print recognition technique. This is done by measures of the sensors connected to the Node MCU Arduino micro controller where it is programmed to give a buzzer sound when the driver is drunk or theft to the vehicle. So the driver with alcohol consumption is identified with more accuracy and theft of vehicle can be identified.

Keywords: Actuators, Embedded, Sensors, Vehicle, Micro controller.

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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.

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EXTERNAL EXAMINER

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ABSTRACT

Water (and its deteriorating quality) may be the most severe stress on the exponentially growing human population in the next century. Problems are becoming increasingly complex and diverse and require more and more specific knowledge, and efficient integration across various disciplines, sectors, countries, and societies.

The major challenge addressed is whether we are prepared to realize the desired integration and to resolve the large number of existing gaps and barriers. The paper analyzes major past and desired future trends in water quality management. A number of issues are selected such as the identification, occurrence, and perception of various problems (e.g., Eutrophication, acidification, global warming), pollution control types, wastewater treatment, modeling and monitoring, planning and environmental impact assessment, legislation and institutions, the notion of sustainable development, and the role of science and engineering.

The past two decades showed tremendous developments in water quality management. In spite of these, the focus of the present discussion lies mostly on pitfalls to disseminate lessons and questions which are crucial to likely future problems and desired improvements.

Keywords: Water quality, PH, Conductivity, GSM, EC sensor, Temperature sensor, WI-max, Arduino

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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

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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.

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EXTERNAL EXAMINER

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ABSTRACT

Due to the increase in road accidents the death rate is increasing and it is a major concern than one can't imagine. The reasons for road accidents are the driver's alcohol consumption. The death rate due to drink and drive is in high in rate due to these especially in countries like India. So a system is proposed to detect the alcohol content level of the driver. The proposed work explores the possibility to detect alcohol at very first using technology. The alcohol content of the driver is detected using the MQ3 sensors embedded in the steering of the vehicle. The breath of the driver is sensed through this sensor and the alcohol content is the blood is analyzed. The driver cannot start the car if the alcohol content is above the threshold value. The added features to this system is the alcohol sensors sense only the person sitting in the driver's seat and will not take into account of the fellow passenger. It is also used to track the theft of the vehicle if there using the figure print recognition technique. This is done by measures of the sensors connected to the Node MCU Arduino micro controller where it is programmed to give a buzzer sound when the driver is drunk or theft to the vehicle. So the driver with alcohol consumption is identified with more accuracy and theft of vehicle can be identified.

Keywords: Actuators, Embedded, Sensors, Vehicle, Micro controller.

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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

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EXTERNAL EXAMINER

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ABSTRACT

Mobile robots have the capability of moving around in their environment and are not fixed to one physical location. It is known that humans cannot go to the hazardous places, so robots are required where human intervention is nearly impossible. Generally, there are many threats to humans in the dangerous areas. So, to avoid those causes, the wireless surveillance robot can be used. This project proposes a working for controlling the wireless surveillance robot using ESP32 CAM. This project is to build a Wi-Fi controlled mobile robot based on the microcontroller ESP32. It monitors each area to detect any intrusion using 360 degree camera. This gives a live video stream to the ground station authority. The control of the robot is integrated on an internet server using certain commands. Finally, it will be able to control the robot using mobile phone via WI-FI. The robot is controlled by a cell phone that has a camera attached with the robot to make it a surveillance spy car. The mobile acts as a remote.

KEYWORDS: Cell Phone, ESP32 CAM, Wireless Camera, Surveillance, Video Streaming.

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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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DESIGN AND ANALYSIS OF MIMO ANTENNA

ABSTRACT

The main objective of this project is to design a low cost, highly durable MIMO (multiple input multiple output) antenna by using FR-4 (glass reinforced epoxy laminate material) for UWB applications. This antenna can be used in numerous number of modern applications including short range communication. This technique supports enhanced data throughput even under conditions of interference, signal fading and multipath propagation. This antenna can cover frequency range of 7-8GHz. The gain of this antenna is about to be 4.84dB at 7.5 GHz.The voltage standing wave ratio is estimated to be 1.02. The two element MIMO antenna is designed and analyzed. The antenna shows quite good MIMO performance. Reflection coefficient is 0.35 which is sustainable for wireless communications. The improvement in signal to noise in multiple antenna system with respect to single antenna system can be observed due to optimal value of S- Parameters shown by this antenna. The maximum dimensions of this antenna are about 12x8x1.6 mm which makes it more feasible for it to be used in 4G and 5G smart phones with its small size.

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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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This is to certify that the Project work entitled "ARRAY PATTERN SYNTHESIS USING UNIFORM AND NON-UNIFORM AMPLITUDE DISTRIBUTIONS" is a being submitted by B.SAI CHARAN (17U41A0405), K. ROOPA (17U41A0421), M. SRINU (17U41A0434), K. SRAVANI (17U41A0429), and K. MADHURI (17U41A0438) in partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY in ELECTRONICS AND COMMUNICATION ENGINEERING during the academic year 2020-2021.

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EXTERNAL EXAMINER

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ABSTRACT

The applications of single antenna are limited due to its low gain and directivity. This problem can be overcome by antenna array, which includes group of similar antennas. The antenna array produces high directivity and high gain which has a wide range of applications.

The objective of this project is to obtain radiation patterns from array antennas using uniform and non-uniform amplitude distribution functions. These distributions will produce patterns with low side lobes and increased gain, directivity.

In this project the computations are performed using Broad-side, Binomial and Chebyshev arrays and results are compared.

It is observed that Chebyshev arrays produced optimal antenna characteristics.

KEYWORDS: Broad side array, End fire array, Binomial array, Chebyshev array.

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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

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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

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EXTERNAL EXAMINER

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ABSTRACT

Intelligent System for speed estimation of the vehicle in digital image sequences is one of the key technologies of Traffic Surveillance System with problems of enlarging the urban scale and increasing number of vehicles. This project intends to develop an intelligent system for speed estimation of the vehicle using the image-processing technique. Overall works were the software development of an intelligent system that required a video scene and user-designed algorithm in MATLAB software to implement it. The Algorithm for vehicle speed detection from a video frame system consists of six major components namely, Image Acquisition, Foreground detection, Morphological operations, Vehicle detection, Speed Estimation and Result Analysis. Each algorithm consists of MATLAB codes to execute each component. The designed system is flexible and can be extended for other applications. The maximum possible error of the system was determined to be within ±3 km/h and the experiment was performed on a different type of vehicles and different range of speed.

KEYWORDS: MATLAB, Speed Estimation, Traffic Surveillance, Image Processing

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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

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NH-5, Anakapalle-531002, Visakhapatnam, A.P 2020-2021

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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.

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EXTERNAL EXAMINER

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ABSTRACT

Digital Watermarking and data hiding has become an important tool for protecting digital images from theft, illegal copying and unlawful reproduction. Watermarking provides copyright protection of image data by embedding or hiding the digital information called watermark. The embedded data can later be detected or extracted from the image for identifying the copyright owner. Over the past few years digital watermarking has become popular due to its significance in content authentication and legal ownership for digital multimedia data. A digital watermark is a sequence of information containing the owner's copyright for the multimedia data. It is inserted invisibly in another image so that it can be extracted at later times for the evidence of rightful ownership.

Existing digital watermarking techniques can be categorized into one of the two domains, viz., spatial and transform, according to the embedding domain of the host image. Least Significant Substitution (LSB) is a simplest technique in the spatial domain. In LSB technique, the watermark is embedded by replacing the least significant bits of the image data with a bit of the watermark data. There are many variants of this technique. The data hiding capacity of these algorithms is high. However, these algorithms are hardly robust for various attacks and prone to tamper by unauthorized users. Watermarking in transform domain is more secure and robust to various attacks. The transform domain could be DFT, DCT, DWT or SVD.

The proposed blind robust digital watermarking technique in frequency domain based on neural networks for an image. Neural network techniques are implemented while embedding and extracting the watermark image. Embedding and extracting deals with transform coefficients. In watermark embedding, watermark image is embedded into host image. In extracting watermark, neural networks are used. Due to neural networks possessing the learning and adaptive capabilities, the trained neural networks almost exactly recover the watermark from the watermarked image against image processing attacks. The proposed watermarking algorithm is imperceptible and robust to some normal attacks such as rotation, brightness and contrast correction. Additionally, we obtain very good JPEG compression, scaling, noise, cropping, horizontal Flip, performances in terms of the Peak Signal to Noise Ratio and Normalized Cross Correlation.

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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)**
G.SAI GANESH	**(17U41A0415)**
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2021

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2021

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.

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Mrs B.T.Archana

(Asst. Professor of ECE)

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(Associate Professor)

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EXTERNAL EXAMINER

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ABSTRACT

Gait recognition systems can capture biometrical information from a distance and without the user's active cooperation, making them suitable for surveillance environments. However, there are two challenges for gait recognition that need to be solved, namely when: (i) the walking direction is unknown (ii) the subject's appearance changes significantly due to different clothes being worn or items being carried. This study discusses the problem of gait recognition in unconstrained environments and proposes a new system to tackle recognition when facing the two listed challenges. The system automatically identifies the walking direction using a perceptual hash (PHash) computed over the leg region of the gait energy image (GEI) and then compares it against the PHash values of different walking directions stored in the database. Robustness against appearance changes are obtained by decomposing the GEI into sections and selecting those sections unaltered by appearance changes for comparison against a database containing GEI sections for the identified walking direction. SVM classifier is proposed for obtaining accurate gait recognition. Initially, the method recognises the user using a majority decision voting. The majority decision is less accurate compared to SVM. The experimental results are performed using Matlab tool.

Keywords: Gait Recognition, Gait Energy Image (GEI),
Perceptual Hash (PHash)

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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

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EXTERNAL EXAMINER

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ABSTRACT

Digital parking system is one of the fastest growing and widely used smart city solutions all over the world. The main aim of the project is to minimize the human interference while parking and also it minimizes the time taken by trivial activities such as finding a place to park in a busy place and avoid traffic congestion. The smart parking system consists of Arduino module which is used to monitor and signalize the state of availability of single parking space. Here, in this project, we can reduce the risk of finding the parking slots in any parking area by placing IR sensors with Arduino to indicate the empty slots. As the parking place is found to be empty it is detected by using IR sensor and displayed on the liquid crystal display which is placed at the entrance. We can also eliminate the unnecessary travelling of vehicles across the filled parking slots. Digital parking system uses IR sensors and liquid crystal display that allows user to observe available and unavailable parking spots. It is used in optimized parking where the spot is available, reduced traffic in case of searching for empty slots, reduced pollution and increased safety. The main goal of smart parking system is to automate and decrease time spent manually searching for the optimal parking floor, spot. By using Arduino programming digital parking system is implemented.

KEYWORDS: Arduino UNO, IR Sensor, Servo motor Smart Parking System, Liquid Crystal Display (LCD).

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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

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Department of Electronics & Communication Engineering

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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.

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ABSTRACT

The present century demands technology where everyone is in a hurry to reach their destination due to unusual and unexpected condition on the road which effects the smooth operation and the movement of the vehicle. In this project, the system is designed to provide the real time location based on GPS, and estimate arrival time for the vehicle. Its offers a very useful feature like the moment of the vehicle in real time that the user take to arrive to the vehicle as well as the distance between user and stop point. The development of a vehicle tracking system for android based smart phone with the aim of enabling to educational institutions to locate their bus with ease and in a convenient manner. This system is designed by interfacing ARDUINO UNO with GPS & GSM module. This aims to give the exact location of the selected vehicle with respect to the user location. To give approximation distance and time of the vehicle from the user location using distance matrix app. Identify a list of vehicles for particular source and destination.

KEYWORDS: ARDUINO UNO , GPS ,GSM MODULE AND ANDROID

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POWER QUALITY IMPROVEMENT BY USING DSTATCOM USING MATLAB/SIMULINK

A Project report submitted in partial Fulfillment of

therequired for the award of Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL & ELECTRONICSENGINEERING

Submitted by

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ABSTRACT

In 20th century the expansion of power system and electronic devices has been grown at very fast rate. The most noticeable topic for electrical engineer is Power Quality in recent years. Power quality problem is an occurrence manifested as a nonstandard voltage, current or frequency that results in a failure or a misoperation of end user equipments. With Power quality problem utility distribution networks, industrial loads, sensitive loads etc. are suffered. With the restructuring of power systems and with shifting trend towards distributed and dispersed generation, the issue of power quality is going to take newer dimensions. To overcome the problem related to power quality Custom power devices are introduced. A number of power quality solutions are provided by Custom power devices. At present, a wide range of very flexible controllers, which capitalize on newly available power electronics components, are emerging for custom power applications .Among these, the distribution static compensator is use in the present work. The fast response of the Distribution Static Compensator (DSTATCOM) makes it the efficient solution for improving power quality in distribution systems. DSTATCOM can use with different types of controllers. The device consider in this work is Distribution Static Synchronous Compensator (DSTATCOM) with PI controller to improve the of power quality under different abnormal conditions like single line to ground fault, double line to ground fault in distribution networks with static linear and static non- linear loads.

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CERTIFICATE

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

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

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2021

ABSTRACT

The main aim of this project is to develop a unique method to reduce the probability of vehicle (Two wheeler or four wheeler) accidents and drunken drive cases, driver drowsiness and brake failure conditions. Accidents due to driver drowsiness can be prevented using eye blink sensors. The driver is supposed to wear the eye blink sensor frame while driving. MQ3 sensor detects the content of alcohol in driver's breathe. And also by using the line brake sensor, it can detect the brakes failure of vehicles and provides engine locking in such conditions.

Here is a small effort to prevent road accidents this vehicle accident prevention system is implemented. When the driver or rider crashes the vehicle, the sensor detects the motion and tilts of vehicle reports the occurrence of an accident. By using the GSM and GPS technology the information will sends to the ambulance or corresponding family members of driver with location of an accident place.

Keywords: Arduino, GSM and GPS modules, Eye blink sensor, Alcohol detection, Accident detection, Mobile phone

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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.

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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

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2021

ABSTRACT

Dispersion transformer is electrical hardware which is used to venture down the voltage without change in recurrence. In this venture an assurance frame work has been created such that frame work is observing the ongoing based working adaptable of the transformer persistently and these parameters are seen on the LCD show. In this undertaking work a potential transformer is utilized for advance down the line voltage for estimating purposes and current transformer is going about as a present sensor. The C.T. put in arrangement and P.T. is shunt to the transformer. Thermistor is used to quantify the temperature of transformer oil. Transfers are utilized to complete the stumbling instrument. A/D converter changes over the estimations of simple current and voltage incentive to the advanced esteem. At that point as indicated by the code, values are contrasted and the preset esteems in the controller if abundance in any parameter happens a hand-off would trip the transformer surpassing the cutoff of current and voltage. Because of beginning conditions if temperature increments from preset esteem, a fan would be turn on utilizing transfer and circuit. It is likewise has the upsides of critical cost funds, control utilization and more noteworthy unwavering quality. In this system, Arduino, microcontroller is utilized to screen instances of electrical blames and convey to a change to detach the transformer from the frame work.

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CERTIFICATE

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.

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EXTERNAL

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

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K. SHIVAKARTHIK	17U41A0207
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NH-5, Anakapalle-531002, Visakhapatnam, A.P.

2021

ABSTRACT

The main objective of the project is to water the plants regularly when without any human requirement or need of a person moreover automatic irrigation system which automatically senses the moisture context of the soil and helps in supply of required amount of water to the plants. When the moisture content is less than limit which predefined, it will start supplying the desired amount of water till it reaches the limit. When soil is dry the pump will automatically sense and water the fields. And also when the soil is wet the pump gets automatically switched off, thereby eradicate the need of man power and conserves the time.

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CERTIFICATE

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

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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

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2021

ABSTRACT

Now a day's world is shifting towards electrified mobility to reduce the pollutant emissions caused by non-renewable fossil fueled vehicles and to provide the alternative to pricey fuel for transportation. But for electric vehicle, travelling range and charging process are the two major issues affecting it's adoption over conventional vehicles. For charging process we have to wait for long time at charging stations. To avoid this waiting we have created a prototype of wireless charging system in which we can charge our vehicle by just parking it on wireless charging spot. For this we are using Node MCU, IR module, Arduino coding, etc. In order to allow information exchange and to help user mobility, we have also created a mobile application to assist the EV driver on these processes.

Keywords : Wireless power transfer, Electric vehicles electromagnetic induction resonant, Cellular Phones, Node MCU, IR module ,Transmitters ,Receivers – Internet of Things .

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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

i

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

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M.KUMAR RAJA	(18U45A0217)
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NH-16, Anakapalle-531002, Visakhapatnam, A.P.

2021

ABSTRACT

The main objective of the project is to water the plants regularly when without any human requirement or need of a person moreover automatic irrigation system which automatically senses the moisture context of the soil and helps in supply of required amount of water to the plants. When the moisture content is less than limit which predefined, it will start supplying the desired amount of water till it reaches the limit. When soil is dry the pump will automatically sense and water the fields. And also when the soil is wet the pump gets automatically switched off, thereby eradicate the need of man power and conserves the time.

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

CERTIFICATE

This is to certify that the Project work entitled "CNC DRAWAING MACHINE" is a being submitted by T.PURNACHAND(18U45A0235),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.
Ana- - 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.K.SRINIVASA RAO

Assistant Professor, Department of EEE

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

2021

ABSTRACT

Renewable energy has been increasing demand in the recent due to over stress on non-renewable resources and their increasing cost. Thus producing electricity with the use of renewable resources like Wind and Solar has been taken up in this project. In today's technology driven world electricity is one of the foremost thing for our day to day life activities. It's time for us to shift the focus from conventional to non-conventional sources of energy to produce electricity. The output of the electricity produced by nonconventional sources is less than their counterparts. Renewable sources do not have any detrimental effect on the environment. Solar-wind system is basically an integration of solar plant and a wind energy plant. It will help in providing the uninterrupted power supply. it also increases the efficiency of the combined system as compared to the individual mode of generation. It helps in decreasing the dependence on one single source and makes the system more reliable. This system can be used for both industrial and domestic applications.

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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.

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HEAD OF THE DEPARTMENT

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Anakapalle - 531 002

EXTERNAL EXAMINER

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

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

Under the Esteemed guidance of

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Assistant Professor, Department of EEE

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

2021

ABSTRACT

Most of the gadgets, machinery and instruments which we use in our daily life are designed to operate on electricity and within a specified voltage range. Over voltage protection is a power supply feature which shutdown the supply when the voltage exceeds a preset level thereby ensuring electrical protection of the devices. Current conventional method has its own limitations due to the reliance on technical team to carryout visual inspection in order to ensure safety of devices. In this paper the scholars present the study of the use of IOT, to provide a reliable over voltage protection and load isolation system. Whenever voltage exceeds the preset value the same will be communicated to the mobile using IOT. The system hardware was modelled using ARDUINO was used for the software. With this system, when over voltage occurred, the load can be isolated at the shortest possible time.

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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

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Mr.A.KRISHNA NAG

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HEAD OF THE DEPARTMENT

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
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ABSTRACT

A simple and easy task such as parking is thought as a tedious and time-consuming process due to mismanagement of parking system. Current parking systems involve huge manpower for management and requires user to search for parking space floor by floor. Such conventional systems utilize more power, along with user's valuable time. This project presents a Smart Parking Energy Management solution for a structured environment such as a multi- storied office parking area. The system proposes implementation of state-of- the-art Internet of Things (IoT) technology to mould with advanced Honeywell sensors and controllers to obtain a systematic parking system for users. Unoccupied vehicle parking spaces are indicated using lamps and users are guided to an empty parking space, thus eliminating need for searching for a parking space. The occupied parking spaces are virtually stored to the cloud to be accessed by central system and direct the upcoming cars to empty spaces. The automatically controlled light illuminance helps reduce energy usage, along with lighting up the parking space to the user whilst in the parkingspace. The entire system being fully automatic leads to reduced manpower involved and improves illuminance aesthetics of the parking area. This project aims at improving user's time value and convenience in a parking system.

Keywords: Simple & Easy Task, Internet of Things, Honeywell sensors, Smart Parking Energy Management, Improves illuminance aesthetics.

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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.

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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
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Under the Esteemed Guidance of

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ABSTRACT

The main objective of this project is to **Design and Simulation of Interleaved buck converter for electric vehicle fast charging**. As compare to buck converter the interleaved buck converter is better. In buck converter switching losses and inductor AC losses are more and efficiency is less.

The interleaved buck converter works in continuous conduction mode so the current stress is less. The voltage stress across switches is half of input voltage before switch on and switch off conditions. So, the switching losses are less and efficiency is high. The performance of the converter is to be observed with MATLAB/SIMULINK

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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.
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Anakapalle - 531 002

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

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ABSTRACT

Our project uses IOT and to help farmers in such a way that they need not walk a long distance in to turn ON/OFF their irrigation pump and they can control it by simply sitting at their home in their smart phones. Mostly farmers turn the pumps ON at night times so it will be difficult for them all the way from their homes Sometimes they may also meet with accidental snake bite. Sometimes they may meet with electric shocks in rainy season when switching ON/OFF the pump with bare hands.

To avoid such accidents develop this project. One more important feature for this project is that the farmer can either control their pump manually on their smart phone or it automatically by using IOT and GSM module also using to control the pump.

Keywords : Irrigation pump, IOT(Internet of Things), Moisture sensor, Farmer safety, GSM module.

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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

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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ABSTRACT

Our motto to implement this project is to develop a device that can help the dumb and deaf people like a door bell when any of his relatives or friends arrive his home. As they were unable to hear we are going to create a signal that he/she can understand when someone is waiting at the door. It is also helpful to the elders who are suffering with hearing problems and one of the additional feature of this project is the SOS signal. The user who will use this can send the SOS signal (EMAIL/SMS) by just pressing a single button in his/her hard times.

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CERTIFICATE

This is to certify that the Project work entitled **"DESIGNING AN OVER VOLTAGE PROTECTION SYSTEM USING IOT"** is being submitted by Ch. Lakshmi prasanna (17U41A0202),in partial fulfillment 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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HEAD OF THE DEPARTMENT

Mr. A. Krishna Nag

Associate Professor

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

ABSTRACT

With 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. Wireless Home Automation system (HAS) using IoT is a system that uses computers or mobile devices to control basic home functions and features automatically through internet from anywhere around the world, an automated home is sometimes called a smart home. It is meant to save the electric power and human energy.

The home automation system differs from other system by allowing the user to operate the system from anywhere around the world through internet connection. In this paper we present a Home Automation system (HAS) using Blynk Community that employs the integration of cloud networking, wireless communication, to provide the user with remote control of various lights, fans, and appliances within their home and storing the data in the cloud. The system will automatically change on the basis of sensors' data. This system is designed to be low cost and expandable allowing a variety of devices to be controlled.

KEW WORDS: IOT (internet of things),node MCU (WI-FI) module, Relay, BLYNK (Android application)

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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.

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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

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S.Akhil	18U45A0230
Y.Dileep Kumar	18U45A0234
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2021

Abstract

Arduino CNC Machine can draw most of the basic shapes, texts and even cartoons.It's operation is similar to the way a human handwrites. It's faster and more accurate.Compared to the way a human being can write or draw.Depending on the image to be drawn, the computer will generate the appropriate.Coordinates and send them to the microcontroller through the USB port. The microcontroller interprets these coordinates and then controls the positions of the motors to create the image. Here we have used Arduino to build this CNC Machine.

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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
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Head of the Department
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EXTERNAL

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**
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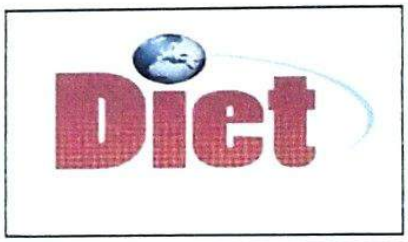

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ABSTRACT

This Project is about simulation of a 5-level cascaded H-bridge multilevel inverter, which will reduce the number of power switching devices in the current flow direction. The proposed topology consists of five switches with double DC sources. The analysis is designing a new topology for a single phase cascaded multilevel H-bridge inverter (CHBMLI), with a focus on the number of power switching devices in the current flow direction. Conduction and switching losses have to be reduced to achieve higher performance operation of power electronic devices. Multilevel inverters are designed to achieve the desired voltages of output from different DC sources. An analysis of the simulated power loss values is dealt with based on how the power switch reduction led to the loss decreases.

Keywords - Conduction loss, Multilevel inverter, Power Converter, Switching loss.

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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)
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EXTERNAL EXAMINER

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)

Under the Esteemed Guidance of

Miss. P.JAGRUTHI

Assistant Professor, Department of EEE

DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

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

2021

ABSTRACT

Technology has always been of great help to the disabled and given them a helping hand to allow them to live a normal and healthy life like others. We have come up with a novel idea of a glove that will convert hand movements into text and allow the specially abled person to express themselves better. This glove needs to be worn on the hand by the deaf or mute person and depending on the variation of movement, the device will convert it intelligently into voice for the other person to comprehend it easily. This glove senses the movements through the flex sensors pads which detect the different patterns of motion and the way the finger curls. The device can sense carefully each resistance and each movement made by the hand. This is implemented by hard ware model.

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

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.

Mrs. K. ALPHONI JOSE
Assistant Professor
PROJECT GUIDE

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

Head of the Department
Electrical & Electronics Engg.
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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

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

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Mr. J Deleep Kumar

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

2021

ABSTRACT

The main objective of the project is to water the plants regularly when without any human requirement or need of a person moreover automatic irrigation system which automatically senses the moisture context of the soil and helps in supply of required amount of water to the plants. When the moisture content is less than limit which predefined, it will start supplying the desired amount of water till it reaches the limit. When soil is dry the pump will automatically sense and water the fields. And also when the soil is wet the pump gets automatically switched off, thereby eradicate the need of man power and conserves the time.

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

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.

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Assistant Professor
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EXTERNAL EXAMINER

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

ABSTRACT

The Robotic hand works on Arduino Uno micro-controller and is programmed using Arduino C (similar to Embedded C language designed especially for Arduino micro-controllers). The basic working of the robotic hand is based on conversion of flex input (from flex sensors) into rotational output (to Servo motors). The servo motors have strings that attach them to individual fingers, thus resulting in human like motion of robotic hand. The robotic hand can be designed to be more efficient and flexible than the human hand. The robotic hand may be connected to a network and used over long distances. The robotic hand may be automated for certain applications in Factories. The Robotic Hand can be designed to operate with precision over long distances using a network. It can be designed in such a way that heavy objects can be lifted which may be impossible for average humans. Further this paper describes the base projects used to make this paper and how this bot works using Arduino Uno microcontroller. Also the proposed plans for this robot in different fields of research and development and industrial or road safety are explained further.

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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 B Suneetha (18U45A0204),Y Poorna chandra Rao (17U41A0222),K Raju (17U41A0224) G Maheshwari (17U41A0203), 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
PROJECT GUIDE

Mr. A Krishna Nag
Associate Professor
HEAD OF THE DEPARTMENT-EEE

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

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

DR. P.B.RAMA KUMAR

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

Professor & HOD

Department of Management Studies

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2019-2021

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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
PROJECT GUIDE

Dr. P.B.RAMA KUMAR
PROFESSOR
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

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 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

Under the Esteemed Guidance of

A.KIRAN KUMAR MBA

ASSOCIATED PROFESSOR

Department of Management Studies

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CERTIFICATE

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

Submitted by

CH.CHINNA APPANNA

Reg.no.19U41E0009

Under the Esteemed Guidance of

Dr. P.B. RAMA KUMAR

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

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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

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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

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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

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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

DADI INSTITUTE OF ENGINEERING AND TECHNOLOGY

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(2019-2021)

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

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

CERTIFICATE

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

DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

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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
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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

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Dr. L. RAMESH

MBA Ph.d

Assistant Professor

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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
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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

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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

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CERTIFICATE

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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This is to certify that the Project work entitled "WELFARE MEASURES" with reference to AUROBINDO PHARMA LIMITED is a bona fide work carried out by SARELLA ANEEMA (19U41E0023), in partial fulfillment of the Requirement for the award of the degree of MASTER OF BUSINESS ADMINISTRATION under the guidance of A. KIRAN KUMAR during the academic year 2019-2021.

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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

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

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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

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Under the Esteemed Guidance of

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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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CERTIFICATE

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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CERTIFICATE

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.

Project Guide:
Mr.A. KIRAN KUMAR
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Department Of MBA

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

Under the Esteemed Guidance of

Dr. P. B. RAM KUMAR

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

PROFESSOR and HOD

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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

Under the Esteemed Guidance of

DR. P. B. RAMA KUMAR

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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.

Project Guide:

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

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

Under the Esteemed Guidance of

Dr. P. B. RAMA KUMAR

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

PROFESSOR and HOD

Department of Management Studies

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(2019- 2021)

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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
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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

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

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CERTIFICATE

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).

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Dr. RAMA KUMAR P. B
PROFESSOR AND HOD
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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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CERTIFICATE

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
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PROJECT GUIDE

Dr. P. B. RAMA KUMAR
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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

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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.

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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

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CERTIFICATE

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
ASST. PROFESSOR
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

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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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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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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

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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
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Dr.P.B.RAMA KUMAR
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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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