JAGADAMBHA
COLLEGE OF ENGINEERING & TECHNOLOGY , YAVATMAL

INDEX

1.3.2: Number of students undertaking Project work/Practical work/field work/Internship

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DEPARTMENT OF ELECTRICAL ENGINEERING

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SantGadge Baba Amravati University, Amravati

CERTIFICATE

This is to certify that the dissertation entitled **"WIRELESS ELECTRIC VEHICLE CHARGING SYSTEM"** is a bonafide work done under our supervision and is submitted to SantGadge Baba Amravati University, Amravati in partial fulfillment of the requirement for the Bachelor of Engineering in Electrical.

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ABSTRACT

In recent years with the rapid development of electric vehicles (EV's) of new energy industry, higher requirement are put forward for convenience, safety and reliability of the charging of electric vehicles and making it autonomous and with a reduced user intervention. Inductive charging, or wireless charging, is an upcoming technology for the electric vehicle or in the automotive industry. Wireless power transfer (WPT) is the present innovation utilizing magnetic resonance which could set blunder free from the disappointing wires. In fact, the WPT receives similar ideas which have just been created with the term inductive power transfer. WPT innovation is growing quickly as of late. The main function of wireless charging is to transmit power by an electromagnetic field across a given space. As electric vehicles are a better alternative to curb the ongoing pollution it is vital to make amendments in the battery charging process to attain greater reliability. Electric vehicle battery charging can be done by wireless power charging.

Wireless charging of electric vehicles can be implemented by the static charging system or dynamic charging system. Static charging system can be implemented to charge the vehicle when it is in static condition i.e. parking it at the charging point on the transmitter. Dynamic charging system can be implemented to charge the vehicle when it is in motion. Wireless power charging is done by inductive coupling. Inductive coupling can be done in both static and in dynamic wireless charging. By reconfiguring the transformer and altering high frequency, energy is being transferred with low energy losses and fewer demands on the primary circuit. Sufficient power for the battery can be transferred from the transmitter to the receiver without energy loss. Electric power is then transmitted to the chargeable batteries which is electrically coupled to the receiver through the air core transformer. The dynamic charging will promote the use of electric vehicles and reduce petroleum fuel consumption. Delays in traffic signals can now be provided with longer period of charging. Bad weather conditions like rain and snow do not affect the charging capabilities of electric vehicles.

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ABSTRACT

Wireless power transfer (WPT) using magnetic resonance is the technology which could set human free from the annoying wires. In fact, the WPT adopts the same basic theory which has already been developed for at least 30 years with the term inductive power transfer. WPT technology is developing rapidly in recent years. At kilowatts power level, the transfer distance increases from several millimeters to several hundred millimeters with a grid to load efficiency above 90%. The advances make the WPT very attractive to the electric vehicle (EV) charging applications in both stationary and dynamic charging scenarios.

FOR energy, environment, and many other reasons, the electrification for transportation has been carrying out for many years. In railway systems, the electric locomotives have already been well developed for many years. A train runs on a fixed track. It is easy to get electric power from a conductor rail using pantograph sliders. However, for electric vehicles (EVs), the high flexibility makes it not easy to get power in a similar way. Instead, a high power and large capacity battery pack is usually equipped as an energy storage unit to make an EV to operate for a satisfactory distance. Until now, the EVs are not so attractive to consumers even with many government incentive programs. Government subsidy and tax incentives are one key to increase the market share of EV today. The problem for an electric vehicle is nothing else but the electricity storage technology, which requires a battery which is the bottleneck today due to its unsatisfactory energy density, limited life time and high cost.

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ABSTRACT

This project illustrates a design and development of a new efficient Automatic number plate recognition system, using image processing and deep learning techniques. This system is implemented at residential parking entries. The Sensor detects the presence of a vehicle and after that a camera captures the frames of vehicles. This information is sent to Raspberry Pi to process the image. Using deep learning model we detect the number plate of the vehicle. We create sequential convolution neural network that is smart enough to recognize characters after training. The recognized plate number is matched with stored database and displays vehicle status on website. If the vehicle is an un-authenticate one, the gate remains shut and an email is sent to the parking management authority.

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ABSTRACT

An agricultural environment monitoring system provides monitoring services and facility controlling services. This system maintains the crop growth rate in an optimal status. This system also reduces the manpower, time consumption and improves the convenience. The existing monitoring systems are used in an indoor only which is not used in outdoor environment because lagging of IT technology. In addition, when users want to check the monitored information in existing monitoring systems, the user must manually check the status through installed sensors or other terminals. In order to solve these issues, the agricultural monitoring system must be designed such a way that can monitor environmental information and soil information closely and reports the status to remote location. The proposed system monitors the environmental status and the status is sent to agricultural monitoring server then the server sends the data to user. The user analyze the data and if the received data is below the specified value then necessary action will be taken. The whole environment is implemented using IoT.

The information that crops offer is turned into profitable decisions only when efficiently managed. Current advances in data management are making Smart Farming grow exponentially as data have become the key element in modern agriculture to help producers with critical decision-making. Valuable advantages appear with objective information acquired through sensors with the aim of maximizing productivity and sustainability. This kind of data-based managed farms rely on data that can increase efficiency by avoiding the misuse of resources and the pollution of the environment. Data-driven agriculture, with the help of robotic solutions incorporating artificial intelligent techniques, sets the grounds for the sustainable agriculture of the future. This paper reviews the current status of advanced farm management systems by revisiting each crucial step, from data acquisition in crop fields to variable rate applications, so that growers can make optimized decisions to save money while protecting the environment and transforming how food will be produced to sustainably match the forthcoming population growth.

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ABSTRACT

Floods are frequent and devastating events worldwide. The Asian continent is much affected by floods, particularly in India. As the occurrence of flood events has become common, flood risk and flood prevention have raised public, political and scientific awareness. Floods cause extremely large numbers of fatalities in every country, but due to India's extremely high population density and often under development standards, a large amount of damages and many deaths occurred. India witnesses flood due to excessive rain which then results in overflow of rivers, lakes and dams, which adds to cause large amounts of damage to people's lives and property. In the past, India has witnessed many of the largest, most catastrophic floods, causing irreparable damage to people's livelihood, property, and crucial infrastructure.

Maharashtra is the state of India were affected by floods due to heavy rainfall.In yavatmal district the borigosavi village is mostly affected by flood in adan river due to heavy rainfall. This village out of 30 km from yavatmal taluka.The source of the Adan River is in the Washim district of Maharashtra.TheGoki river is the tributary of Adan river passes from a Boori gosavivillage.The depth of river basin in about 120 m .This village are affected by flood from past years,which causes damage of the houses,animaldeath,and the property, social and the economicalloss.Because of this the villagers are troubles from few years and demand to Government authority of Maharashtra for rehibatation.

According to this background we need a system to overcome such trouble the flood control technique by underground water tank system is refer as a solution. During floods, underground storage tank (UST) systems can become submerged or displaced by flood waters, leading to damaged UST systems or even releases of regulated substances into the environment.This system are used to reduce or prevent the detrimental effects of flood waters on a village.

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CERTIFICATE

This is to certify that the Project Entitled

"DYNAMIC ANALYSIS OF INDUSTRIAL STEEL STRUCTURE BY USING BRACINGS AND DAMPERS UNDER WIND LOAD AND EARTHQUAKE LOAD"

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ABSTRACT

The structural system of the building has to be support the lateral load due to earthquake and wind in addition to gravity loads. A lateral load developes high stresses and produces sway causing vibration and drift . If the industrial steel structures are not design to resist the lateral load then they may be collapse resulting in the less life of contents.

Therefore, it is important for structure to design the structure with great precautions. the objective of this project is to prepare simple and innovative and effective structural technology and methodology for the seismic control which can be used for industrial Steel Structures.

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ABSTRACT

Now a day's multi storey buildings are constructed for a purpose of residential and commercial, with open ground storey is becoming common feature. For the purpose of parking usually the ground storey is kept free without any construction except column. Buildings which have discontinuity of column and building having columns transfer the load to the beam in lateral direction are called floating column building. A column is meant to be and upright member ranging from footing level and conveying the load to the lowest the term floating column is additionally and upright member that ends at its lower level rest on the beam that may be a horizontal member.

This beam successively transfer the load to alternate column below it. Such columns in the structures analyzed and design. Result Are compare in the form of storey displacement, storey shear with and without column. TAB has been utilize for analysis above building.

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ABSTRACT

The behaviour of RC beams And Column members at elevated temperatures are being studied experimentally and analytically widely. However, hardly any attention is given towards analyzing the behaviour of structures with SFRC i.e., SFRC beam, columns, portal frame etc. exposed to fire.

In this project to study the impact of fire on steel reinforcement in steel reinforcement structures at elevated temperature analysed by means of three dimensional non linear transient thermomechanical finite element and validated with commercially software analysis.

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This is to certify that the dissertation entitled **"Smart Flower and Agricultural System"** is a bonafide work done under our supervision and is submitted to Sant Gadge Baba Amravati University, Amravati in partial fulfillment of the requirement for the Bachelor of Engineering in Electrical.

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JAGADAMBHA COLLEGE OF ENGINEERING AND TECHNOLOGY

Project Topic : "Smart Flower And Agricultural System"

ABSTRACT

Solar energy is converted to mechanical energy by absorbing the solar radiation from the sunlight. In this paper we have introduced a solar photo voltaic cell for collecting the sun rays through the solar array and transforming this sun rays in to electricity to generate the electricity. The main aim of this project is to supply electricity through the sun rays and it is for the purpose of irrigation in the rural areas where the electricity scare is expected.

In our solar kit we have introduce an Automatic solar tracker which stimulates and increases the efficiency of the solar panel by keeping the solar panel which moves according to the direction of movement of sun rays. A solar PV cell is a electrical device that converts the energy of light directly to electricity by the photovoltaic effect. A photoelectric cell is defined as an device whose electrical characteristics like current, voltage, resistance, varies when exposed to light. Solar cells are the basement for any photovoltaic modules panels. Solar cells are used as a photo detector for detecting light near the visible range, or measuring light intensity.

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'Digital Notice Board'

Abstract

In the present era, the usage of paper has been increases and the cost of paper also increases. In the offices, schools, colleges there are number of notices has been made and stick on the notice board but sometimes no one can see them. Therefore to reduce the usage of paper, time consumption of printing of paper and also to save the nature by cutting of trees for making the paper, digital notice board is used.

In the digital notice board, Raspberry PI, GSM SIM 900A and Monitor is used. Raspberry PI has the speed of the processor is 700MHz and therefore it will work just like a small computer and this is the heart of the project. GSM SIM 900A is used to receive the message and also monitor is used to display the notice on the monitor.

When the message is sent to the GSM SIM 900A , it gives the command to the Raspberry PI and Raspberry PI also give the command to the monitor to show the output on the screen of the monitor which is message sent by the sender and it acts as a digital notice board.

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Project Topic: "Industrial Automation By Using Raspberry-PI"

ABSTRACT

Industrial Automation has become very much popular this day of its various advantages. There are various methods of industrial automation like programmable logic controller (PLC), IOT and wireless technology. But we have one new technology we can use this project. Till now no one has use the technology before in industrial automation. The object of this project is monitoring the industrial process with using Raspberry-PI. The main aim is use this technology reduces complexity of devices and also reduces overall cost of the system. In these project we can tend to measure the temperature, humidity, current, voltage, water level, light sensor, camera model, Buzzer. Industries have been automated with machines that allow for fully automated tasks without or with little manual intervention.

Well here we propose an internet based industry automation system that allows a single industry operator to control industry appliances with ease using Raspberry-PI and IOT Gecko for development. Our proposed system allows for automation of industrial loads to achieve automation over internet. We use IOT gecko for the web server interface and Raspberry-PI to process and run circuit loads. User is allowed to send commands for machine/load switching over internet using IOT Gecko interface from anywhere in the world over internet. The Raspberry-PI processor now captures these commands by internet over Wi-Fi connector. Now the Raspberry-PI processes received data to extract user commands. After getting commands it displays it on an LCD display. Also it switches the loads on/off based on received commands to achieve user desired output. The system thus achieves industry automation over IOT using Raspberry-PI.

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WIRELESS AGRICULTURAL MULTIPURPOSE ROBOT USING SOLAR PANEL

Abstract

In recent years, robotics in agriculture sector with its implementation based on precision agriculture concept is the newly emerging technology. Its working is based on the precision agriculture which enables efficient seed sowing at optimal depth and it also tests the soil humidity at optimal distances between crops and their rows, specific for each crop type. This device also includes the two spray nozzles with an automatically adjustable spraying angle, distance sensors, all mounted on a pan tilt unit, for the ploughing purpose this device has ploughing blades and these blades will be operate at optimal depth of the land.

Keywords: Agricultural robot, Precision spraying, Seeding, Ploughing

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ABSTRACT

Watershed is a geo-hydrological unit draining at a common point by a system of streams. Watershed management is the rational utilization of land and water resources for optimum production with minimum hazard to natural resources. Watershed management is the process of creating and implementing plans, programs, and projects to sustain and increase watershed functions that affect the plants, animal and human communities inside watershed boundary. The activities of watershed management mainly include rainwater harvesting structures, soil conservation measures and environmental protection measures. Remote sensing (RS) and Geographical Information Systems (GIS) techniques can be utilized for effective management of land and water resources in a watershed. The geographic information system (GIS) provides an ideal environment for integration of information on natural resources with the ancillary information for generating derivative information which is useful in decision making.

The study areas are selected which are affected by chronical drought, scanty rainfall. collection of source data like satellite data of two seasons, SOI toposheets and village maps are carried out. Secondary data like ground water levels, agriculture, population and socioeconomic data are collected. Various thematical maps like base map, contour map, drainage map, soil map, geomorphology map, slope map and land use map are prepared by using SOI toposheet and satellite imageries. After analysis all maps, action plan map is generated for the soil and water conservation in the study area.

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ABSTRACT

An engineer always focus on challenges of bringing ideas and concept of life. Hence, sophisticated machines and new modern technique have to be continuously developed and implemented for economical manufacturing of products. At that time we should take care that there has been no compromise made with the quality of product and also the accuracy of product. In the age of automation machine become an integral part of human life. By using automation machine prove itself that is giving the high production rate than that of the manual production rate. An engineer is constantly conformed to the challenges of bringing ideas and design. Now a days everyone wants to increase their production and make their machine multipurpose. So the pneumatic mono logo printing machine for punch and emboss the machine components name as well as symbol. This machine is easy to operate and simple to maintain requirement of automated plants. Therefore we are tried our hands on pneumatic mono logo printing machine is one of the principle machine impress and printing industry. It is generally used for the embossing purpose.

Key Words: Pneumatics, automation, printing, low cost.

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ABSTRACT

In small-scale industries and automobile maintenance shops, there are frequent needs of tightening and loosening of screws, drilling, boring, grinding machine. Huge and complicated designed parts cannot be machined with the help of an ordinary machine and further for every operation separate machine is required therefore increasing the number of machines required and increasing the area required for them to be accommodated and hence overall initial cost required is increased.

In a single machine all the above specified operation can be carried out, i.e., after drilling, the drill head is removed from the barrel key and the required tools like grinding wheels, boring tool etc., can be attached, and the operation can be performed. By the application of pneumatics, the pneumatic cylinder with piston which is operated by an air compressor will give the successive action to operate this machine. By this we can achieve our industrial requirements.

Keywords: drilling, grinding wheels.

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ABSTRACT

Shaper is a reciprocating type machine tool which is primarily intended to produce flat surfaces. The surfaces may be horizontal, vertical on inclined. This machine involves the use of a single point cutting tool similar to a tool used in lathe machine.

The intermediate gear unit may comprise either a spur gear and a planetary gear assembly, or a pair of planetary gear assemblies. Change of rotation within the gear unit can be effected easily.

Spur gear drive comprising a driven gear and driving gear wherein the driving gear has double crowned teeth defined as (i) an envelope to a family of surfaces generated by a skew or straight rack-cutter having a parabolic tooth profile in normal section and then (ii) as an envelope to a family of tool surfaces that are generated while the tool performs a plunging motion with respect to the driving gear in the direction of the shortest distance between the axes of rotation of the tool and the driving gear and tool plunging motion is varied by a parabolic function, whose variable is displacement of the tool in a direction parallel to the rotational axis of the driving gear.

The dual direction gear mechanism implemented in shaper machine in this paper. There is used sun gear, ring gear and plant gear. Ring gear and sun gear is meshed and the plant gear is meshed in sun gear. The plant and sun gear is connected with electrical motor. The motor is rotating at clock wise direction the ring and sun gear also rotating clock wise direction. The ring gear is having 50 teeth in 180^0 and sun gear is having 14 teeth in 145^0 but plant gear is having 28 teeth in 360^0.This plant gear is rotated by ring and plant gear at so we get front and backward direction and also we get dual direction ram of the shaper machine.

Keywords: Spur gear, Planetary gear assembly.

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ABSTRACT

A screw jack is a portable device consisting of a screw mechanism used to raise or lower the load. The principle on which the screw jack works is similar to that of an inclined plane. There are mainly two types of jacks-hydraulic and mechanical.

Automation can be achieved through computers, hydraulics, pneumatics, robotics, etc. Automation plays an important role in mass production.

For mass production of the product, the machining operations decide the sequence of machining. The machines designed for producing a particular product are called transfer machines. The components must be moved automatically from the bins to various machines sequentially and the final component can be placed separately for packaging. Materials can also be repeatedly transferred from the moving conveyors to the workplace and vice versa.

Keywords: Automation, Pneumatics.

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CERTIFICATE

This is to certify that the dissertation entitled "CLASSROOM AUTOMATION BY USING ARDUINO" is a confide work done under our supervision and is submitted to Sant Gadge Baba Amravati University, Amravati in partial fulfillment of the requirement for the Bachelor of Engineering in Electrical.

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ABSTRACT

In an era of new technologies and advances, its necessary to being an updated to live life comfortably. As a technology is advancing so houses are getting smarter and classrooms too.The main objective of this project is to develop a classroom automation system using an arduino board with Bluetooth being remotely controlled by any android OS SMART PHONE. Also promote an automation in energy conservation as well as for cleanliness. As Modern classrooms are gradually shifting from conventional switches to centralize control system, involving remote control switches. Conservation of energy is also one of aim of the electrical engineer and hence for make it possible it needs to be give some automation to reduce the human errors. As classroom automation contains automatic door lock, thumb based attendance, automatic fan and light control, automatic supply control, automatic dustbin an so on. Hence we are including three automated system to make the classroom automated i.e. Automatic switch board control from smart phone, automatic dustbin and automatic supply control. The main objective is that providing automated classroom system with affordable price. As we know google assistant and Alexa providing same services but cost of its very high. So this project give the same control with simple construction and low cost.

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CERTIFICATE

This is to certify that the dissertation entitled ***"MONITORING OF TRANSFORMER PARAMETERS USING IOT IN SMART GRID"*** *is a bonafide work done under our supervision and is submitted to Sant Gadge Baba Amravati University, Amravati in partial fulfillment of the requirement for the Bachelor of Engineering in Electrical.*

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ABSTRACT

A distribution transformer is one of the most important elements of electrical power system. Transformer is a device which is continuously working in order to improve the efficiency of the transmission system. The project proposes continuous online monitoring of distribution transformer using IOT (internet of things). The internet of things connects the unconnected things. Previously the things that weren't accessible have been made accessible because of it. The transformer is subjected to various faults such as over-voltage, over-current, increase in temperature, oil-level, humidity etc all these faults are persistently monitored throughout by the arduino which regularly sends the health information of the transformer via the wifi module. This data can be accessed from anywhere in the world by an android application. So the maintenance of the distribution transformer can be successfully implemented by the use of this project ideology.

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ABSTRACT

Transformers are used for electricity distribution and transmission which reduces the primary voltage to the utilization voltage for customer use. As distribution transformers are very costlier in electrical industry therefore this project presents the system which control different parameters of distribution transformer. There are two units which are remote terminal unit (RTU) and monitoring unit. Remote terminal unit consist of analysing parameters such as current, temperature, rise and fall in oil level, temperature and humidity. All monitoring parameters are processed and if any abnormality occurs, the system sends Alert messages to the mobile phones and recorded in system memory through (ADC) analog to digital converter. All parameters values are send to controlling node. If any emergency condition occurs immediately mail or massage send to the corresponding engineer through raspberry pi and similarly on webpage we can get alert about it through raspberry pi. Near remote terminal unit buzzer will beep and display gives notification about emergency condition. An engineer at transformer can not continuously keep an eye on transformer therefore given proposed system does communication with us at emergency conditions of distribution transformer through raspberry pi.

Certificate

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"DTMF CONTROLLED ROBOT FOR SPY DETECTION"

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ABSTRACT

A robot car is controlled by cell phone using DTMF. The robot is controlled by a mobile phone that makes a call to the mobile phone attached to the robot. In the course of a call, if any button is pressed, a tone corresponding to the button pressed is heard at the other end of the call. This tone is called "Dual Tone Multiple-Frequency" (DTMF) tone.

The robot perceives this DTMF tone with the help of the phone stacked on the robot. The received tone is processed by the microcontroller with the help of DTMF decoder. The microcontroller then transmits the signal to the motor driver ICs to operate the motors & our robot starts moving.

Keywords: Arduino Uno R3, Dual Tone Multi Frequency, L293D (motor shield) driver IC.

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"DISPLAY CONTROLLER HAND GESTURE SYSTEM"

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ABSTRACT

This is the gesture based sixth sense technology that controlled output display devices like monitor.This system can control content on the screen by using gesture of fingers without touching this screen. This technology has seamless applications. This provide easy control over the machinaries in the industries. The physical world around us with digital information and let us use natural hand gestures to interact with that information. Using this system we convert the real world into digital world. The gesture computing is the best technology that allows hand or the movement of fingers as input control. In this webcam is play most important role ,it capture the movement of fingers or recognize the color of finger and handle whole work and functionality of the system. In the project scripting language python is used as a backend of the project. Human-Computer Interaction (HCI) exists ubiquitously in our daily lives. It is usually achieved by using a physical controller such as a mouse, keyboard or touch screen. It hinders Natural User Interface (NUI) as there is a strong barrier between the user and computer. There are various hand tracking systems available on the market, but they are complex and expensive. In this paper, we present the design and development of a robust marker-less hand/finger tracking and gesture recognition system using low-cost hardware. We propose a simple but efficient method that allows robust and fast hand tracking despite complex background and motion blur. Our system is able to translate the detected hands or gestures into different functional inputs and interfaces with other applications via several methods. It enables intuitive HCI. We developed sample applications that can utilize the inputs from the hand tracking system. Our results show that an intuitive HCI can be achieved with minimum hardware requirements.

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ABSTRACT

The main objective of this project is to build a website which will help farmers from Indian villages to sell their products to different cities. Here if suppose some village farmers want to use this facility and want to learn how is it possible and how they can use e-farming to sell their products then if they have knowledge of computer then they can directly register in the site and sell their product otherwise they can contact company's computer professional who will schedule classes to teach them basics of computer and internet like how they can open the site and register to it and sell their products online etc. On the other side, wholesaler from town can also register and buy products as per their needs.

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*This is to certify that the dissertation entitled "**Bus Safety System For School Children By Using RFID And GSM Modem**" is a bonafide work done under our supervision and is submitted to Sant Gadge Baba Amravati University, Amravati in partial fulfillment of the requirement for the Bachelor of Engineering in Electronics & Telecommunication.*

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ABSTRACT

Millions of children need to commute between homes to school every day. Safer transportation of school children has been a critical issue as it is often observed that, kids find themselves locked in the school bus at the bus stop after going to school, they miss the bus, or ride the wrong bus with no way to track them. This project intends to find yet another solution to solve this problem by developing a bus safety system that will control the entry and exit of students from the buses through an energy efficient methodology. The proposed system will control the entry and exit of students to and from the bus using RFID (Radio Frequency Identification) and GSM technologies to ensure the entering and exiting of all students to and from the school bus in a safer manner. The process, does not require any additional action by the student and drivers. The system will do all the process and allow the student to be tracked while entering and leaving the bus. If the bus journey is successful from the source to destination, it will send an SMS to the management to inform its departure and arrival

Keywords: – Bus Safety System, RFID (Radio Frequency Identification), GSM modem

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*This is to certify that the dissertation entitled "**Animal Detection in Farm Area using Arduino**" is a bonafide work done under our supervision and is submitted to Sant Gadge Baba Amravati University, Amravati in partial fulfillment of the requirement for the Bachelor of Engineering in Electronics & Telecommunication.*

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ABSTRACT

The main aim of this Project is to protect the crop from animals. In agriculture field human-animal conflict is a major problem; due to this we lost the crops. By this Project we protect the crops without damaging the animals. This system detects the animal by using arduino. This system uses PIR sensor for detecting the animal movement and send signal to arduino controller using GSM module. This system diverts the animals by producing the sound and also send message to farmer.

Keywords: Ultrasonic sensor, Arduino controller, PIR sensor

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CERTIFICATE

This is to certify that the dissertation entitled ***"IDENTIFICATION OF DIABETES USING ARTIFICIAL INTELLIGENGE TECHNIQUE"*** *is a bonafide work done under our supervision and is submitted to Sant Gadge Baba Amravati University, Amravati in partial fulfillment of the requirement for the Bachelor of Engineering in Electronics & Telecommunication.*

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ABSTRACT

The discovery of knowledge from medical datasets is important in order to make effective medical diagnosis. With the emerging increase of diabetes, that recently affects around 346 million people, of which more than one-third go undetected in early stage, a strong need for supporting the medical decision-making process is generated. Diabetes mellitus is a chronic disease and a major public health challenge worldwide. Diabetes is ascribed to the acute conditions under which the production and consumption of insulin is disturbed in the body which consequently leads to the increase of glucose level in the blood. Using data mining methods to aid people to predict diabetes has gain major popularity. In this project, Bayesian Network classifier was proposed to predict the persons whether diabetic or not. Bayesian networks are considered as helpful methods for the diagnosis of many diseases. They in fact, are probable models which have been proved useful in displaying complex systems and showing the relationships between variables in a graphic way. The advantage e of this model is that it can take into account the uncertainty and can get the scenarios of the system change for the evaluation of diagnosis procedures. The dataset used is Pima Indian Diabetes dataset, which collects the information of persons with and without diabetes.

Key Words: classification, Bayesian network, attributes, prediction, probability.

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ABSTRACT

The growth of world energy consumption and the increase of passenger vehicles are is setting new challenges to environmental protection.

The advancement in 21st century , there has been increase in uses of oil and gas leading to problems like global warming , climate change , shortage of crude oil ,etc. in today's world global warming is being increased day by day there are many reasons like pollution.

The fuel prices not only in india but throughout the world is increasing day by day thus there is a tremendous need to search for an alternative to conserve these natural resources, thus a solar and pedal used vehicle is an manually and electric operated vehicle that provides that alternative by harnessing solar energy to charge the battery and thus provide required voltage to run the motor .since india is blessed with nine months of sunny climate thus concept of solar vehicle is very friendly in india . it's also used the dynamo that run the vehicle.

Solar pedal vehicle with more advantages of no noise, no pollution , saving energy and reduce carbon dioxide emissions is to power driven vehicle with a motor drive wheels moving . solar pedal vehicle can make reduce our green house gas emission and other pollution .

Thus the solar pedal vehicle can become a very vital alternative to the fueled automobile thus its manufacturing is essential

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Dr. H. M. Baradkar
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Abstract

This project emphasis on design and fabrication of the river waste cleaning machine. The work has done looking at the current situation of our national rivers which are dump with crore liters of sewage and loaded with pollutants, toxic materials, debris etc. The government of India has taken charge to clean rivers and invest huge capital in many river cleaning projects like "Namami Gange", "Narmada Bachao" and many major and medium projects in various cities like Ahmadabad, Varanasi etc. By taking this into consideration, this machine has designed to clean river water surface. Nowadays almost all the manufacturing process is being atomized in order to deliver the products at a faster rate. Automation plays an important role in mass production. In this project we have fabricated the manually operated river cleaning machine. The main aim of the project is to reduce time consumption for cleaning the river. In this project we have manufactured the manually operation of river cleaning with help of a watering fan and chain drive arrangement. By this project we introduced a model which would made a cleaning operation of floating debrise easy and economical.

Keywords - Motor, chain drive, propeller, Conveyor, Collector, debrise.

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DEPARTMENTOF MECHANICAL ENGINEERING

CERTIFICATE

This is to Certify that the project report entitled **"DESIGN AND FABRICATIONN OF SOLAR HYBRID CAR"** has been successfully completed by **MR. VAIBHAV B. UGEMUGE, MR. MITHILESH LANGOTE, MR. SWAPNIL V. BHONGADE, MR. NAYAN V. ZOTING** under the guidance of **PROF. V. L. BHAMBERE** in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Mechanical Engineering at "Jagadambha College of Engineering &Technology Yavatmal – 445001. (An institution affiliated to Sant Gadge Baba Amravati University, Amravati)

Prof. Dr. V. L. Bhambere
Head of Department
Department of Mechanical Engineering

Dr. V. L. Bhambere
HOD, Mechanical Engg. Dept.
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Dr. H. M. Baradkar
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ABSTRACT

The growth of world energy consumption and the increase of passenger vehicles are is setting new challenges to environmental protection.

The advancement in 21st century , there has been increase in uses of oil and gas leading to problems like global warming , climate change , shortage of crude oil ,etc. in today's world global warming is being increased day by day there are many reasons like pollution.

The fuel prices not only in india but throughout the world is increasing day by day thus there is a tremendous need to search for an alternative to conserve these natural resources, thus a solar and pedal used vehicle is an manually and electric operated vehicle that provides that alternative by harnessing solar energy to charge the battery and thus provide required voltage to run the motor .since india is blessed with nine months of sunny climate thus concept of solar vehicle is very friendly in india . it's also used the dynamo that run the vehicle.

Solar pedal vehicle with more advantages of no noise, no pollution , saving energy and reduce carbon dioxide emissions is to power driven vehicle with a motor drive wheels moving . solar pedal vehicle can make reduce our green house gas emission and other pollution .

Thus the solar pedal vehicle can become a very vital alternative to the fueled automobile thus its manufacturing is essential

Dr.Hemant M. Bargaonkar
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Technology

CERTIFICATE

This is to certify that the project Entitled

"DESIGN OF G+2 RCC BUILDING WITH BAR BENDING SCHEDULE"

Has been successfully completed by

SURAJ D. KATHWATE

PRASHANT R. NANDAGAWALI

SAURABH K. SELOKAR

NIKHIL A. FATALE

SHUBHAM R. INGOLE

TAUSIF G. KHAN

PRANAY R. WARGHAT

AMOL R. JAMBHALE

SUFIYAN A.F. KHAN

In partial fulfillment for the degree of

Bachelor of Engineering
(Civil Engineering)

Awarded by

Santa Gadge Baba Amravati University, Amravati, (M. S)
During academic year 2018-2019 under my guidance

Guided by

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Dr. H. M. Baradkar
Principal
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EST 2009

Dr. Hemant M. Baradkar
Principal
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ABSTRACT

As the growth of population is increasing day by day, space for residential purpose has become a series issue. So, to achieve economy in space, high rise building began to enhance. As these structures are extended vertically and they are going to withstand the lateral loads in an enormous intensity. Seismic loads are occasional forces on structure that may occur during their life time. Buildings should be able to withstand in minor earthquakes without any structural damage and collapse. Therefore, it is important to know the behaviour of building. Also,it should be economical to construct. This project report provides an investigation over a G+2 RCC building based on same orientation of column,beam, height and shape member. The structural systems used in this project report are "beam-column system". Other consideration is made according to Indian standard. IS 456-2000 is used to design the RCC multi-storey building. So, to achieve economy in structure along with percentage of steel consumed. At the completion of the project conclusion has been arrived regarding to the effect of seismic load application.

Dr.Hemant M. Baradkar
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CERTIFICATE

This is to certify that the Project Entitled

"EXPERIMENTAL INVESTIGATION ON COMPARISON BETWEEN PLASTIC PAVER BLOCK AND CEMENT PAVER BLOCK"

Has been successfully completed by

Mr. NITIN D. ARSOD

Mr. NITIN S. RATHOD	**Mr. PRATIK V. KANNAO**
Mr. PALASH L. BOTARE	**Mr. SUNIL R. JADHAV**
Mr. KARTIK V. NEHARE	**Miss. DEEPA M. PATIL**

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ABSTRACT

The huge quantity of paver block is consumed by construction industry all over the world. In India, the conventional concrete paver block is produced by using natural aggregate (i.e. fine aggregate and course aggregate) but now as the use of paver block has increased all over the world simultaneously use of natural aggregate also increased and as the consumption of aggregate has increase the required good quality of aggregate is not available also poses the environmental problems.

Thus to overcome the demand of material such as aggregate and cement, it is necessary to find alternatives of these materials. On the other hand plastic waste (polythene) generation is also an emerging issue plastic waste is the serious problem to the environment. Generation of Plastic waste is a very serious issue in the world.

Currently about 8 lakh tones of plastic waste dumped in India in a year. The dumped waste pollutes the surrounding environment. As the result it affects both human beings and animals in direct and indirect ways. For solving the disposal of large amount of plastic material, Partial use of plastic in paver block industry is considered as the most feasible application.

In this project, we are utilized PVC plastic waste which is waste of PVC pipe industry. The research work is determination of the effect of use PVC plastic waste powder as replacement of cement in percentage 0, 10, 20, and 30. Cube specimens of 36 numbers were cast cured and tested cube for 7, 14, and 28 days compression strength. We are designed paver block for medium traffic and use grade M-40 as per is code 15658:2006. Plastic is harmful material for human beings, animals, nature etc.it reduce the quantity of cement to be used in concrete. Also PVC powder is provided to be economical and considered as environmental friendly material. In this work it is found experimentally that Plastic paver block gives better strength as compare to conventional paver block.

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CERTIFICATE

This is to certify that the project Entitled

"PARTIAL REPLACEMENT OF CEMENT IN CONCRETE WITH SUGARCANE BAGASSE ASH"

Has been successfully completed by

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MR. YOGESH G. THOSAR

MISS. KRUSHNA R. TEWARE

MR. GAURAV G. RUDRAKAR

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ABSTRACT

Concrete is a mixture of cement, fine aggregate, coarse aggregate and water. Concrete plays a vital role in the development of infrastructure in this experimental study investigation on SCBA (sugarcane bagasse ash) has carried out which is a byproduct of sugarcane and also can be used as partial replacement material with ordinary Portland cement in concrete. This imparts the earlier higher strength to the concrete. The higher amount of silica present in it reacts with the component of cement hence increase the properties of cement. The use of sugarcane bagasse ash as a partial replacement material which is the waste material from sugarcane industries helps to reduce the environmental effects cause due the emission of carbon during the manufacturing of cement. This experimental study focus on strength characteristic analysis of M20 grade concrete with replacement of cement by SCBA 10%, 20%, 30% and compare with plain cement concrete and investigate the performance of concrete mixture in terms of compressive strength of cube for 7 days, 14 days and 28 days, split tensile strength of cylinder for 28 days respectively.

It was found that the use of SCBA up to 25% in concrete mix as replacement of cement gives more strength than the conventional concrete beyond 25% the strength of concrete get reduces.

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CERTIFICATE

This is to certify that the project Report entitled

VOICE RECOGNITION BASED WHEELCHAIR

Submitted by

MISS. JYOTI R. VYAVHARE

MISS. SONI S. DOIFODE

MISS. PUNAM V. DAMBHARE

MR. ASHISH P. THAKARE

MR. SANDESH D. WANKHEDE

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Prof. P. H. Kadam
Project Guide

Dr. V. G. Neve
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Dr.Hemant M. Baradkar
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ABSTRACT

Physically challenged and old people those who face many problems in daily life have to be depend on a another person to move from one place to another. Many scientists and researchers have been working for to find out the solution from a long time. The invention of wheel chair is a great boon for them but it still limits their motion. In order to make their life a bit easier, many modification in wheel chairs are came into existing such as electric-powered, gesture based, eye movement, finger movement etc. Speech controlled wheel chair can be made using arduino uno microcontroller and HM2007 speech recognition kit. In that research first we stored the user's voice and then this wheelchair robot will recognition this voice and follow their commands.

More than 1 billion people in the world have some form of disability. The aim of this project is to design and develop a smart wheelchair which can be controlled by the head gesture as well as with the help of voice commands. This project will facilitate the movement of people who are disabled or handicapped. The result of this project will help such people to live a life with less dependence on others. A wheelchair is an electric wheelchair fitted with acceleration sensors, ultrasonic sensor and voice recognition module .The user can control the movement of chair by sending the voice commands such as Forward, Reverse, Left, Right and Stop.

CERTIFICATE

This is to certify that the project Report entitled

"Transformerless Grid Connected PV System"

Submitted by

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Mr. Shubham L. Lakhadive **Mr. Lakhan S. Jadhao**

Mr. Sagar P. Kubde **Ms. Reshma Take**

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ESTD 2009

Abstract

In this Project, the designing of a grid-connected photovoltaic system for the power electronic laboratory of UiT- Campus Narvik has been carried out. The relevant topics and literature regarding the elements in a photovoltaic system and grid connection standards have been studied and reviewed. A system, with the capacity and ratings of solar modules currently available in the laboratory, has been designed in Simulink. The designed system in a multistage system.Boost converter is used to amplify the photovoltaic array voltage.

The inverter used is a three-phase two-level inverter. The control structure for inverter is designed in synchronous reference frame. Phase Locked Loop (PLL) extracts the necessary information of grid voltage phase. An LCL filter is used to interconnect inverter output to the grid. After that the results of the designed simulation are discussed. Hardware specific models are then made for code generation using the Embedded Coder feature of Simulink. In the end, discussion about this thesis, conclusion and recommendations for future work are presented

CERTIFICATE

This is to certify that the Project Report entitled

"AUTOMATIC DISCONNECTION OF ENERGY METER USING GSM AND MICROCONTROLLER"

Submitted by

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Ms. Neha S. Kale — Mr.Rahul G. Thawari

Ms. Pranjali S. Raut — Ms. Nishigandha A. Gode

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(2017-18)

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Dr.Hemant M. Baradkar
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ABSTRACT

The technology of e-metering (Electronic Metering) has gone through rapid technological advancements and there is increased demand for a reliable and efficient Automatic Meter Reading (AMR) system with energy bill recovery. This project presents the design of a simple low cost wireless GSM energy meter and its associated web interface, for automating billing and managing the electricity connection cut if consumer does not paid his electricity bill. The proposed system replaces traditional meter reading methods and enables remote access of existing energy meter by the energy provider. Also they can monitor the meter readings regularly without the person visiting each house. A GSM based wireless communication module is integrated with electronic energy meter of each entity to have remote access over the usage of electricity. A PC with a GSM receiver at the other end, which contains the database acts as the billing point. Live meter reading from the GSM enabled energy meter is sent back to this billing point periodically and these details are updated in a central database. The complete monthly usage and due bill is messaged back to the customer after processing these data.

Keywords: Automatic Meter Reading (AMR), Global System for Mobile communication (GSM), ATMEGA-16, etc.

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CERTIFICATE

Certified that this B.E. Seminar Report titled

"Indoor Sensor Monitoring & Controlling Device Using IOT"

By

Miss. Gauri R. Kolhe **Miss. Shital N. Dahake**

Miss. Simran S. Dembda **Miss. Ritika S. Kotwani**

of final year (B.E) during the academic year 2017-2018 is for partial fulfillment for requirement of the award of the degree of Bachelor of Engineer in Computer Engineering under Sant Gadge Baba Amaravati University, Amravati.

Prof. S. A. Murab
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Department of Computer Engineering
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ABSTRACT

Automatic Watering Plant System completely avoids mankind. This watering stem ease the burden of getting water to plants when they need it. This project uses rduino board, which consists of ATmega328 microcontroller. It is programmed to sense oisture level of plants at particular instance of time, if the moisture content is less than ecified threshold which is predefined according to particular plant's water need then oper amount of water is supplied till it reaches threshold. Generally, plants need to be ered twice a day, morning and evening. Thus, the microcontroller is programmed to ater plants two times per day. System is designed in such a way that it reports its current ate as well as remind the user to add water to the tank.

All this notifications are made through mobile application. In this project we are sing three sensor such as soil moisture sensor, temperature & humidity sensor, level sensor. The moisture sensors measure the moisture level (water content) of the different lants. If the moisture level is found to be below the desired level the moisture sensor ends the signal to the Arduino board which triggers the Water Pump2 to turn ON and upply the water to the plant. When the desired moisture level is reached the system halts n its own and the Water Pump2 is turned OFF. The another main aspect of this project is ater level sensor. It senses the water level in the tank and it send the information to the nicrocontroller. If the water level is low water pump1 will operate and pump water to the ank. We hope that through this prototype we all can enjoy having plants, without being orried about absent or forgetfulness.

Keywords: Automatic Watering System, Arduino-board, Relay, Soil Moisture Sensor, Temperature and humidity sensor , water level sensor, ESP8266 Module

Certificate

Certified that this B.E. Seminar Report titled

"Application for Training and Placement Cell"

By

Miss. Swati V. Thakre

Miss. Gauri M. Mankar **Miss. Rutuja A. Pohankar**

Miss. Samiksha S. Pawar **Mr. Gaurav V. Nibrad**

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Department of Computer Engineering
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ABSTRACT

Training And Placement Cell is a android based application developed in the windows platform for the training and placement department of the college in order to provide the details of its students in a database for the companies to their process of recruitment provided with a proper login. The Training And Placement Cell contains all the information about the students. The system stores all the personal information of the students, like their personal details, their aggregate marks, their skill set and their technical skills that are required in the CV to be sent to a company. The system is an online application that can be accessed throughout the organization and outside as well with proper login provided. This system can be used as an application for the TPO of the college to manage the student information with regards to placement. This project contains all the details of the students that can be viewed by all the users (read only), but can be modified only by the student with an authorized service. By maintaining student's information, the system helps to have selections to be made easy for a company in its test for the recruitment process. The students can update their own information only.So, our project provides a facility of maintaining the details of the students, and gets the requested list of candidates for the companies who would like to recruit the people based on a given query.

Keywords: PHP, Java, Student Database, Admin, Login, Resume, Browser, WAMP/XAMP Server.

Certificate

Certified that this is B.E Project Report titled

"Intelligent LAN Monitoring System"

By

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Miss. Komal D. Raut

Mr.Abhishek R. Gulhane

Mr. Mahesh A. Patil

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DEPARTMENT OF COMPUTER ENGINEERING

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ABSTRACT

Now a day's electronic devices and computers are unavoidable parts of everyone life. When computers are connected in a network then, we need a person for monitoring whole network. This may be wired or wireless so we need to monitor for keeping an eye on any misbehavior by client in the network. Computer network security of large organization and small firms like colleges can be easily compromised by using unauthorized software products, pen drives.

So to overcome such problem we are implementing a system named as "Intelligent LAN Monitoring System". In which an android app developed and connected to the main LAN server via WLAN and through this app network controller will be able to monitor the LAN network. Network controller has full access to control the target PC, by providing its IP address. Administrator can use this application to provide the maximum details about the network like files sharing between PC and android device, start and stop the applications installed on the target PC, killed the process, shutdown the target PC, and much more on administrator smart phone, when administrator is away from office or out of station.

Keywords: Android, Feasibility IP address, server application, Wireless Media, Remote Monitoring & Control, AT command, Password Security, Android based mobile phone

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CERTIFICATE

*This is to certify that the dissertation entitled "**Android Based Security System With Face Detection**" is a bonafide work done under our supervision and is submitted to Sant Gadge Baba Amravati University, Amravati in partial fulfillment of the requirement for the Bachelor of Engineering in Electronics & Telecommunication.*

Submitted by

Miss. Payal D. Rathod

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ABSTRACT

Face recognitions plays a major role in biometrics research which helps to identify the users based on various parameters. In this fast developing technological world face recognition is increasingly used to distinguish the users in mobile. Breach of mobile security is common in this fast paced world which is seriously something to look upon. Cloud gives us significant security as far as data is concerned. Cloud-based storage can assure a certain level of privacy to the end-users. The goal of the paper is to provide mobile users to safeguard their device when some Intruder tries to access the device. This is done by means of image capture which is supplanted by Face-Detection and Recognition. The captured image is then sent to cloud based Storage for retrieval. The user initially registers himself using his Authenticated mail-id. The authorized mail-box receives the image from the cloud database which in turn helps to Track the intruder, thereby providing a certain extent of safety to the end-users.

KEYWORDS: Image Capturing, Cloud Transfer, Registration, Authentication, Data Privacy, Face Detection, Face Recognition.

JAGADAMBHA BAHUDDESHIYA GRAMIN VIKAS SANSTHA'S YAVATMAL

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ELECTRONICS & TELECOMMUNICATION ENGINEERING DEPARTMENT

Certificate

This is to certify that the dissertation entitled "TRANSMISSION OF SOUND USING LASER" is a bonafide work done under our supervision and is submitted to Sant Gadge Baba Amravati University, Amravati in partial fulfillment of the requirement for the Bachelors of Engineering in Electronics & Telecommunication.

Prof. K. L. Thakare
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ABSTRACT:

Light is already becoming a popular means of communication, thanks to fiber optics, which can guide optical data much like a wire transmits current. It might seem impractical to use lasers without a guiding medium to transmit information. However, in contexts where a physical connection is impossible or unfeasible, and the need for a focused beam arises, it would seem logical to use laser light. We decided to create a simple and inexpensive proof-of-concept to demonstrate the advantages of this seemingly impractical scheme. The unique property of laser is that its light waves travel very long distances with very little divergence. In case of a conventional source of light, the light is emitted in a jumble of separate waves that cancel each other at random and hence can travel very short distances only. It is this coherency that makes all the difference to make the laser light so narrow, so powerful and so easy to focus on a given object. Light with such qualities is not found in nature. The main purpose of this project is to realize a transmission-reception system to transfer sound via Laser without a guiding medium, using Intensity Modulation with little quality loss. "Nearly all inventions are not recognised for their positive side either when they're made. So, for example, scientists didn't go out to design a CD machine: they designed a laser. But we got all sorts of things from a laser which we never remotely imagined, and we're still finding things for a laser to do." -Robert Winston, Professor of Science and Society at Imperial College London. "The atoms become like a moth, seeking out the region of higher laser intensity." -Steven Chu, co-winner of the Nobel Prize in Physics in 1997 for the "development of methods to cool and trap atoms with laser light".

Keyword: Laser, Fiber Optics, Intensity Modulation, Coherency

CERTIFICATE

This is to certify that the seminar Entitled

"AUTOMIZATION OF IRRIGATED LAND FOR INDIAN SOCIETY ON REAL TIME BASIS"

Has been successfully completed by

MISS. PAYAL S. NEET

MISS. PAYAL D. WABHITKAR

MISS. AKANKSHA G. RAUT

MISS. ANJALI R. NANDURKAR

In partial fulfillment for the degree of

Bachelor of Engineering
(Electronics & Telecommunication Engineering)

Awarded by

Sant Gadge Baba Amravati University, Amravati, (M. S)
During academic year 2017-2018 under my guidance
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Dr. H. M. Baradkar
Principal
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ESTD

ABSTRACT

The purpose is use to develop and enhance the productivity of farm. The microcontroller is used in combination with sensors to measure ecological factors namely the temperature, humidity and soil moisture. Farmers can get all information on mobile application through internet. This is useful for both open farm and poly house. In poly house when temperature goes high, crops get covered automatically by green net. To avoid motor damage, dry run concept in addition with spraying fertilizers via pipes through motor. This helps to take agricultural activities at very high and ease level with more advantages for more effective and productive gain.

JAGADAMBHA BAHUDDESHIYA GRAMIN VIKAS SANSTHA'S YAVATMAL

JAGADAMBHA COLLEGE OF ENGINEERING & TECHNOLOGY, YAVATMAL - 445001

CERTIFICATE OF APPROVAL

Certified that the project report entitled "**Design And Fabrication Of Mini Race Car**" has been successfully completed by MR. ROSHAN B. PIMPALKAR MR. ASHISH R. JIVTODE MR. AJINKYA S. CHATURKAR MR. ABHIJIT R. MISAR MR. ROHIT R. DUBE MR. VRUSHABH Y. DHORE MR. MAKARAND M. DESHPANDE under the guidance of PROF. R. U. HEDAU in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Mechanical Engineering. "**Jagadambha College of Engineering And Technology Yavatmal – 445001. (An institution affiliated to Sant Gadge Baba Amravati University, Amravati)**

Prof. R. U. Hedau
(Guide)

27/5/18

Dr. V. L. Bhambere
(HOD, Mech.Engg. Dept.)

Dr. H. M. Baradkar
(Principal)
Dr.Hemant M. Baradkar
Principal
Jagadambha College of Engineering & Technology Govt. Polytechnic Yavatmal

EST 2006

Signature of External Examiner:

Name: G. K. Gattani

Date of Examination:

Abstract

A mini race car is running and constantly growing concept all over the world. A mini race car is a small four wheeled vehicle used for racing purpose only and run by I.C. engine. A car racing is accepted as most economic form of racing. It is the bridge between theoretical and practical knowledge. We have designed, fabricated and manufactured the mini race car for racing purpose only. This car is powered by Honda Dream Yuga 110 cc engine. The chassis is made of material of steel tubes of AISI 4130 grade. The main objective of car is to make that car with fiscal rate, light in weight and also to increase the performance of car such as speed and efficiency for getting better results in racing.

A mini race car must be driven only on racing track. Kart racing or karting is a variant of open-wheel motorsport with small, open, four-wheeled vehicles called karts, go-karts, or gearbox/shifter karts depending on the design. They are usually raced on scaled-down circuits. Karting is commonly perceived as the stepping stone to the higher ranks of motorsports, for example Ginetta Juniors, FIA Formula 4, FIA Formula 3, FIA Formula 2 and FIA Formula 1, with former F1 champions such as Nico Rosberg, Ayrton Senna, Lewis Hamilton and Michael Schumacher beginning their careers in karting. Karts vary widely in speed and some (known as Superkarts) can reach speeds exceeding 260 kilometres per hour (160 mph), while recreational go-karts intended for the general public may be limited to lower speeds.

Keywords:- *mini race car, design, fabrication, manufacturing, racing.*

(JAGADAMBHA BAHUDDESHIYA GRAMIN VIKAS SANSTHA'S YAVATMAL)

JAGADAMBHA COLLEGE OF ENGINEERING & TECHNOLOGY, YAVATMAL - 445001

CERTIFICATE OF APPROVAL

Certified that the project report entitled "Design and Fabrication of Three Wheeler Drive forklift for Industrial warehouses" has been successfully completed by MR. AKASH B. THAKARE, MR. AKASH N. CHAVHAN, MR. SATISH D. KALAPAD, MR. KIRAN I. PILAWAN, MR. ADITYA P. KADAM, under the guidance of PROF. M. A. PACHKAWADE in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Mechanical Engineering "Jagadambha College of Engineering And Technology Yavatmal – 445001. (An institution affiliated to Sant Gadge Baba Amravati University, Amravati)

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Signature
Dr. V. L. Bhambere
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Name:

Date of Examination:

ABSTRACT

Mechanical forklift is an improved and advance technology that helps brought about revolution in the mechanical industries today all heavy engineering company uses it. Widespread use of the forklift truck had revolutionized warehousing practices before the middle of the 20th century. A mixture of material handling systems is in the use, exact from that entirely physical to the ones that are semi-automatic but manually controlled. Forklifts have revolutionized warehouse work. They made it possible for one person to move 100 kg at once. Well-maintained and safely operated forklifts make lifting and transporting cargo infinitely easier. This is the general description of a normal forklift truck.. In the warehouses forklifts are the most expensive machines. The study pays special attention to the travelling of these machines. Factories, industries and storage go downs need forklifts and cranes for storage and moving large goods. Also there are a number of goods weighing around 10 – 60 kg that are comparatively lighter but cannot be moved around easily by human labour. To fill this need we here propose a three wheel drive forklift to lift and transport such medium weight goods across factories & industrial warehouses. The three wheel drive is a fast, efficient and low power consumption vehicle that does not require much space to move around. The mini forklift will run on a hub motor and can drive small weight with pickup arrangement across small distances easily. For this we use a mini three wheel vehicle body frame designed with a platform with motorized wheel mounts. It has a perpendicular handle ahead to hold on as well as take turns. To make the project work more realistic, much importance is given for practical orientation, therefore a prototype module is constructed for the demonstration purpose. This module simulates the real working system & based on this technology with slight changes in the structure & motor ratings, the system can be converted for real applications.

Keywords: *forklift, warehouse, cargo, hub motor, base chassis etc.*

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YAVATMAL

JAGADAMBHA COLLEGE OF ENGINEERING & TECHNOLOGY, YAVATMAL - 445001

CERTIFICATE OF APPROVAL

Certified that the project report entitled **"Design and Fabrication of Human Follower Trolley"** has been successfully completed by MR. VAIBHAV B. MUNESHWAR, MR. VIPLAV V. BORKAR, MR. YASH C. PATIL, MR. PALASH V. NAWDE, MR. GAURAV B. PACHADE, MR. MD SHOAIB QURESHI under the guidance of PROF. PANKAJ H. MESHRAM in recognition to the partial fulfillment for the award of the degree of Bachelor of Engineering in Mechanical Engineering, **"Jagadambha College of Engineering And Technology Yavatmal- 445001. (An institution affiliated to Sant Gadge Baba Amravati University, Amravati)**

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EST 2009

Signature of External Examiner:

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Date of Examination 30/5/18

ABSTRACT

In today's world, automation is being the key feature of the Modern Production System. There are heavy loads which needs human effort to move such load at desired location. An automatic trolley human follower is developed to help a user or production industry to reduce the utilization of human energy in order to carry heavy things. This project ensures that it will be efficient for low and medium volume industry. This automatic trolley human follower is controlled by an Arduino UNO microcontroller that can follow the user automatically with integrated circuit of ultrasonic sensor and motor drivers. In this project a robotic vehicle is fabricated which runs like a regular trolley by carrying tools from one place to another. This is done by placing HC-SR04 ultrasonic sensor at the front side of the trolley hence 40 kHz of ultrasonic sound waves which are inaudible to human ear, are emitted to a predefined range and whoever person will be at the front of the trolley will be act as a striking medium from which these sound will bounce back to the sensor. So, the elapsed time between the transmitted and the received wave will be calculated by the sensor hence giving you the approximate distance of the person. In this manner the program in the microcontroller will execute by knowing the distance and then follow the person by giving signals to the motor driver which inturn drive the motors.

Keywords: *Automation, Fabrication, Human follower robot, Electronic Trolley, DC Motor, Ultrasonic Sensors, Motor drivers, Arduino, etc.*

Jr.Hema
Pr
Jeppiaarinstitute of Engineering &
Technology,An

CERTIFICATE

This is to certify that the Project Entitled

"EXPERIMENTAL STUDY ON SELF CURING CONCRETE USING PEG-400"

Has been successfully completed by

ABDUL SIDDIQUE SHAIKH

ADITI S. YEWALE	**SHUBHAM S. MOHITE**
KISHORI S. SAGANE	**POONAM A. KHUNKAR**
SHUBHAM R. GANNOJWAR	**MAYURI I. DAHARE**
ZAINAB A. BHARMAL	**MAYUR D. SINGALWAR**

In partial fulfillment for the degree of

Bachelor of Engineering in
Civil Engineering

Awarded by

Sant Gadge Baba Amravati University, Amravati, (M. S)

During academic year 2017-2018 under my guidance

Guided by

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ABSTRACT

We know that water is becoming a scarce material, there is an urgent need to do research work to saving of water in making concrete and in constructions. Most of the areas have a scarcity of water for construction work. As curing of concrete is maintaining satisfactory moisture content in concrete during its early stages in order to develop the desired strength and other properties; for this large amount of water is needed. Curing of concrete plays a vital role in developing the construction and hence improves its durability and performance. The main objective of this experimental investigation is to find differences between Control mix, with curing, without curing (0% PEG) and with addition of PEG-400 (0%,0.5%,1%,1.5%). The specimens are cured without water for 3, 7 and 28 days and later different strength characteristics such as compressive strength are studied. The main objective of this study is to observe the mechanical properties of concrete with and without curing and using self curing agent like PEG-400.

Keywords – Self-curing concrete, self-curing agent, PEG-400, workability, compressive strength.

Dr.Hemant M. Sardikar
Principal

CERTIFICATE

This is to certify that the Project Entitled

"COMPARATIVE ANALYSIS OF ENERGY RECREATION AND WASTE MINIMIZATION FROM COW DUNG SLURRY AND KITCHEN WASTE"

has been successfully completed by

Rushabh Bhendare
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CERTIFICATE

This is to certify that the Project Entitled

"STUDY & COMPARISION OF DIFFERENT QUALITY CONTROL METHOD FOR THE CONSTRUCTION OF HIGHWAYS"

has been successfully completed by

1. SHEIKH NAIM
2. YOGESH R. DUDHE
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ESTD 2008

Dr.Hemant M. Baradkar
Principal

ABSTRACT

One of the most important tasks of the supervision during the execution of a road contract is technical quality control, i.e. control as to whether the materials and work supplied by the Contractor meet the technical requirements in the contract specifications. Method control is usually carried out by the Consultant's field staff whose job it is to be on the site and supervise the Contractor during the execution of the works. At the same time the field staff will perform simple measurements, such as the recording of the thickness of fill layers, the temperature of asphalt material, and the slump of cement concrete. Method control is carried out according to the type of work. Where the work method is of considerable importance and requires constant supervision to achieve the quality, or where in some case, the quality is difficult to improve on; there should always be a field engineer on the site. Examples are the ramming of piles, the laying of asphalt, and concreting etc. Where work methods are of less importance or quality is constantly being achieved by the contractor, there may be no need for continuous surveillance.

End-result control includes field tests e.g. control of the evenness of completed pavement layers and laboratory tests, e.g. Marshall Tests on asphalt materials. Other tests are a combination of field and laboratory tests. An example of this is the compaction control of earthworks where the achieved density is determined by means of a field test, and where the IS/ AASHTO density with which the result should be compared is found by means of a laboratory test. End results control is carried out by laboratory technicians, and most of the work consists of laboratory tests. The frequency of end-result control depends on the quality parameters that are to be checked. Parameters which can vary considerably are continuously controlled. Examples are the composition of asphalt materials and the compaction of asphalt courses. As regards regulating laboratory tests the specification usually determines the number of tests. When the works are started and in cases where difficulties as regards compliance with quality requirements are encountered, laboratory testing will normally be intensified.

Poor quality construction results in:

1. Additional costs and delays to the contractor when work has to be redone or repaired.
2. A poor reputation for the construction company.

CERTIFICATE

This is to certify that the project report entitled

"FOOT STEP POWER GENERATION USING PIEZOELECTRIC TRANSDUCER"

Submitted by

Adarsh V. Gawai	Yogesh N. Suroshe
Pranshu S. Umale	Kanchan R. Khasale
Rupesh M. Datey	Ragini V. Jiotode

In a partial fulfillment of the requirements for the award of degree of Bachelor of Engineering in Electrical Engineering of Sant Gadge Baba Amravati University, Amravati and is bonafide work carried out and completed under my guidance and supervision during the session 2016-2017.

Prof. Dr. V. G. Neve
(Head of Department)

Dr. H. M. Baradkar
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Prof. K. M. Kamble
(Project Guide)

External Examiner

ESTD 2009

Jagadambha College of Engineering & Technology, Arni Road, Yavatmal

ABSTRACT

In this project, some of the shortcomings in the existing system have been proposed to be rectified. The advances have allowed numerous ways for power harvesting systems in practical applications in order to meet the power demand. The use of piezoelectric crystal is to generate electric output from surrounding vibrations. Piezoelectric materials have a crystalline structure that they can convert mechanical energy into electrical charge and is vice-versa. These materials have the ability to absorb mechanical energy from their surroundings, usually ambient vibration, and transform it into electrical energy that can be used to power other devices.

The produced electrical energy from the piezoelectric crystal is very low in the order of 2-3volts and is initially stored in a 2v rechargeable battery through a charge controller, since it is not possible to charge a 12V battery through crystal output. In order to increase the voltage, the boost converter circuit is used. The use of boost converter is to increase the level of voltage ranges about 12V and is stored in a 12V battery. In order to supply power to the load an inverter circuit is required by which the generated voltage is fed to the CFL lamp.This project can be implemented in dense populated areas like railway station, bus stands etc. where more amount of vibration energy will be obtained. As a result of completing the above procedure or technique we made ourselves able to design such compatible system through which we could run our home appliances through AC output.

As our main purpose was to charge the battery through DC output and then by inverting it into AC for normal common usage. Thus as a result we have concluded that these types of designs and techniques of power generating systems are very useful and handy in order to match the supply and demand of energy globally as well.

ESTD 2009

Dr.Hemant M. Baradkar
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Jaysingpur College of Engineering & Technology, Ahir Road, Khidi Tarfe

CERTIFICATE

This is to certify that the project Report entitled

" ENERGY METER THEFT DETECTION"

Submitted by

Ms. Shrawani U. Bire	**Ms. Samiksha R. Kuratkar**
Mr. Anuj S. Tundalwar	**Ms. Sneha M. Kalekar**
Mr. Avinash D. Pajgade	**Mr. Vaibhav B. Godhankar**

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Prof. _____
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Prof. S.O. Gulhane
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ESTD 2009

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ABSTRACT

The Aim of our project is to minimize the theft of the electricity, because of the theft the organisation like MSEB, is in under loss. So for improvement of quality of power and elimination of theft, our energy meter theft detection circuit is usable.

The energy meter theft detection system detect the theft occur in domestic area. By using GSM model, MSEB monitor each and every energy meter. If any customer try to do theft, then sensor sense the theft and signal provide to GSM model. GSM model gives message to the MSEB and the theft will be detected.

In this circuit, the single phase, two wire supply is given to the energy meter and the optocoupler is connected after the energy meter. It separate the ac and dc supply. The various sensors are used to detect the fault.

CERTIFICATE

This is to certify that the project Report entitled

" DETECTION AND CLASSIFICATION OF TRANSMISSION LINE FAULTS USING WAVELET TRANSFORM "

Submitted by

Ms. Pallavi S. Dambhare.	**Mr. Akshay V. Ghavat**
Mr. Ritesh B. Uike	**Ms. Ankita A. Punse**
Mr. Amit B. Petkar	**Ms. Dhanashri G. Gaynar**

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ABSTRACT

Proper detection of various faults occurring on the transmission line is very essential. In this project, detection and classification of some these faults is done based on the information conveyed by the wavelet analysis of power systems transients.

Maximum norm values, maximum detail coefficient, energy of the current signals are calculated from the Wavelet Toolbox in MATLAB/Simulink. Maximum normal value and energy of the signals detects the fault and threshold detail coefficient classifies the fault into different types such L-G, L-L, L-L-G, L-L-L.

Wavelet Transform decomposes current and voltage signals into high and low frequency components using Quadrature Mirror Filter.

High frequency components gives the detail coefficients, while low frequency components gives approximation components

Detail coefficients detects and classify the various transmission line faults and approximation coefficients estimates the pharos for all signals, through which fault impedance can be computed.

ESTD 2009

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Certificate

Certified that this B.E. Seminar Report titled

"Wireless Mouse & Keyboard Using Smartphone"

By

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Miss. Vaishnavi B. Shinde **Miss. Shubhangi S. Shirfule**

Miss. Sanskruti U. Pakale **Mr. Vitthal S. Pariskar**

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Department of Computer Engineering

Jagadambha College of Engineering & Technology,

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Session 2016-2017

Dr.Hemant M. Baradkar
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ABSTRACT

This is the gesture based sixth sense technology that controlled output display devices like monitor.This system can control content on the screen by using gesture of fingers without touching this screen. This technology has seamless applications. This provide easy control over the machinaries in the industries. The physical world around us with digital information and let us use natural hand gestures to interact with that information. Using this system we convert the real world into digital world. The gesture computing is the best technology that allows hand or the movement of fingers as input control. In this webcam is play most important role ,it capture the movement of fingers or recognize the color of finger and handle whole work and functionality of the system. In the project scripting language python is used as a backend of the project. Human-Computer Interaction (HCI) exists ubiquitously in our daily lives. It is usually achieved by using a physical controller such as a mouse, keyboard or touch screen. It hinders Natural User Interface (NUI) as there is a strong barrier between the user and computer. There are various hand tracking systems available on the market, but they are complex and expensive. In this paper, we present the design and development of a robust marker-less hand/finger tracking and gesture recognition system using low-cost hardware. We propose a simple but efficient method that allows robust and fast hand tracking despite complex background and motion blur. Our system is able to translate the detected hands or gestures into different functional inputs and interfaces with other applications via several methods. It enables intuitive HCI. We developed sample applications that can utilize the inputs from the hand tracking system. Our results show that an intuitive HCI can be achieved with minimum hardware requirements.

Dr.Hemant N. Baradkar
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Certificate

Certified that this B.E. Seminar Report titled

Bus Tracking and Alert System

By

Miss. Pinky R. Lalwani(C.L.)

Miss. Kalyani S. Rekalwar **Miss. Neelima K. Petkar**

Mr. Vishal D. Bhusari **Miss. Diksha B. Gaikwad**

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EST 2006

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ABSTRACT

GPS is one of the technologies that are used in a huge number of applications today. One of theapplications is tracking your vehicle and keeps regular monitoring on them. Basically this system is developed for college students. This tracking system can inform you the location and route travelled by vehicle, and that information can be observed from any other remote location. This system also give the information of vehicle which is in diameter of 1km via SMS(Short Message Service) This system enables us to track target in any weather conditions. The system will acquire positions of thevehicle via GPS receiver and send the SMS using SMS Gateway.To maintain a data of students, graphical user interface on a website is also developed using My SQL and PHP(PreProcesssor Hypertext). Main objective is to design a system that can be easily installed and to provideplatform for further enhancement.

Keywords: GPS, Vehicle Tracking, Real Time System, Mobile Devices, Restful web services, JSON, Android App

CERTIFICATE

Certified that this B.E. Project Report titled

"e-VOTING SYSTEM"

by

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Ms. Rekha S. Rathod

Mr. Dhananjay A. Bhagat

Ms. Gauri S. Alshi

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(Final Year. Computer Engineering)

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Session 2016-2017

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ABSTRACT

e-Voting is a fully web based voting software solution based on network security. With the access control capabilities and the reliability, the network security has tremendously increased in providing authenticity and security. The present system conducts the elections manually, which takes lot of effort for conducting, maintaining and evaluating the voting process. This Automation helps in overcoming all the above mentioned problems and also helps in avoiding any kind of tempering that can be done. Rather than employing expensive consultants to print and mail paper ballots or setup and manage your elections, e-Voting puts the power of online voting in the hands of election administrators.

This project makes use of Java Servlets which provides a Java based solution used to address the problems currently associated with doing server-side programming. Servlets are objects that conform to a specific interface that can be plugged into a Java-based server. Servlets are to the server-side what applets are to the client-side. Security is provided by RSA algorithm which is an ASSYMETRIC cryptographic algorithm with a pair of keys used for encryption and decryption.

Certificate

Certified that this B.E. Project Report titled

ECG Signal Pre-processing, Decomposition & Detection of PQRST Indices Using MATLAB

By

Mr. Prathamesh Warpatkar

Ms. Tejaswini Bhise

Ms. Shradha Mude

Mr. Aniket Gawande

Ms. Kiran Rathod

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EST 2005

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ABSTRACT

Vital signals of human body like ECG (Electrocardiogram) are continuous in nature and abruptly changing hence there is a need to apply an efficient pre-processing of ECG signal for analysis and for taking intelligent health care decisions related to heart of patient. In order to address analysis of ECG signal, which involves removing noise from original ECG signal, Wavelet Decomposition, Detection of PQRST indices and depending on that, extracting features of ECG Signal. To achieve this continuous data stream, a model must endlessly adapt itself to the most recent concept. Hence, the Developed mechanism is focused on a system by using fuzzy based technique in the field of data stream mining by using multipurpose MATLAB software for efficient analysis of ECG Signal.

Keywords:- ECG (Electrocardiogram), Data Stream Mining, fuzzy system, MATLAB.

Certificate

This is to certify that the dissertation entitled **"OBJECT IDENTIFICATION FOR BLIND PEOPLE USING IMAGE PROCESSING"** is a bonafide work done under our supervision and is submitted to Sant Gadge Baba Amravati University, Amravati in partial fulfillment of the requirement for the Bachelor of Engineering in Electronics & Telecommunication.

Submitted by

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Dr. H. M. Baradkar
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ABSTRACT

Self-Dependency of blind people is very important in their day-to-day lives. In this presents a cost effective prototype system to help blind persons to shop independently. As we know printed text is everywhere like product names, instructions on medicine bottles, restaurant menus, signed boards etc. To read these text blind and visually impaired people need some help. In this presents a camera-based assistive product label reader for blind persons to read information of the products. It is hard to detect text due to the variations of text font, sizes, text, clutter background and different orientation. In this Camera is used to captured the image of the product .Then captured image is processed internally using different algorithms such as SURF Algorithm, and text recognition algorithm to extract text the label from image by using MATLAB .The extracted text label is converted to audio output using text to speech converter and it is pronounced as audio to the blind person.

Keywords : Assistive devices, blindness, hand-held objects, text reading, and text region localization, camera-based label reader, text localization and text recognition algorithm, MATLAB, text to speech converter.

Department of Electronics & Telecommunication Engineering

JAGADAMBHA COLLEGE OF ENGINEERING AND TECHNOLOGY, YAVATMAL

CERTIFICATE

This is to certify that the dissertation entitled **"DETECTION OF LOCATION & MINIMIZING ERROR USING MOBILE ANCHOR IN WSNs"** is a bonafide work done under our supervision and is submitted to Sant Gadge Baba Amravati University, Amravati in partial fulfillment of the requirement for the Bachelor of Engineering in Electronics & Telecommunication.

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ESTD 2009

ABSTRACT

Accurate and low-cost sensor localization is a critical requirement for the deployment of wireless sensor networks in a wide variety of applications. Many applications require the sensor nodes to know their locations with a high degree of precision. Various localization methods based on mobile anchor nodes have been proposed for assisting the sensor nodes to determine their locations. However, none of these methods attempt to optimize the trajectory of the mobile anchor node. Accordingly, this project presents a path planning scheme, which ensures that the trajectory of the mobile anchor node minimizes the localization error and guarantees that all of the sensor nodes can determine their locations. The obstacle-resistant trajectory is also proposed to handle the obstacles in the sensing field. Later this path planning algorithm is adjusted so that it suits most of the effective localization algorithms. The performance of the proposed scheme is to be evaluated through a series of simulations with the ns-2 network simulator.

Keywords- Localization, Wireless Sensor Networks (WSNs), GPS, mobile anchors, Chord selection, beacons, Approximate Point-in-Triangulation, Path Planning Based Localization.

Certificate

This is to certify that the dissertation entitled **"BLUETOOTH AIDED SAFETY BAND FOR WOMEN USING SMARTPHONE"** is a bonafide work done under our supervision and is submitted to Sant Gadge Baba Amravati University, Amravati in partial fulfillment of the requirement for the Bachelor of Engineering in Electronics & Telecommunication.

Submitted by

Ms. Seema P. Kasare

Ms. Gauri R. Chopade

Ms. Laxmi A. Godbole

Mr. Roshan D. Sulabhewar

Ms. Ruchika A. Durge

Ms. Rina S. Chandore

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Guide
EXTC Engg.Deptt

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Project Co-ordinator
EXTC Engg.Deptt

Dr. A. D. Shelotkar
HOD
EXTC Engg.Deptt

Dr. H. M. Baradkar
Principal
J.C.O.E.T Yavatmal

ESTD 2009

Dr.H.M. Baradkar
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Jagadambha College of Engineering & Technology, Adv. Road, Yavatmal

ABSTRACT

In today world women are less secure, they are facing more number of situations like kidnapping, rape case, & abuse. Because of this reasons women's can't step out of their house. The prime question in every Woman's mind, taking into account the ever rising increase of issues on women harassment in recent past, is only about her safety and security. The only thought haunting every Woman's is when they will be able to move freely on the streets even in odd hours without worrying about their security. When such incident happens with women's they will not feel insecure or helpless if they have some kind of device with them. With the help of these devices girls & women's can stay out without any fear at any time. This system can be used at places like bus stops, railway stations, footpaths, shopping malls, markets, etc. This project focuses on Women's Safety Gadget which is helpful for women . Personal safety is one of the most important concerns for women, as crime against women has not decreased. Now a days various devices are available in markets which claim to protect women in many ways. Still there arises the need of a protective device which acts as a guardian at time of an attack. This fuels a new thought of a Bluetooth Aided Safety Band for Women using smart phone . This project aims to create a wearable band with provision of connecting with smart phone via Bluetooth. If an emergency occur, the smart phone will produce a high volume alarm and it also sends alert messages to predefined numbers with current location of the device. The main advantage of this band is its convenience and easiness of operation.

Keywords : Bluetooth , Arduino Nano, Wearable Band , Android Application.

CERTIFICATE

This is to certify that project report entitled **"Effect Of Addition Of Hydrogen Gas On The Performance Of Four Stroke SI Engine"** has been carried out by **Mr. Ajay A. Kodag, Mr. Akshay P. Wankhade, Mr. Amit A. Patil, Mr. Chaitanya R. Wakode, Mr. Ankush S. Kawale, Mr. Suraj R. Khobragade** under my guidance in fulfillment of the Degree of Bachelor of Engineering in Mechanical Engineering of SANT GADGE BABA AMRAVATI UNIVERSITY, Amravati during the academic year 2016-2017.

Prof. H. V. Ingole
Project Guide

Dr. V. I. Bhambere
H.O.D.
Mech. Engg. Dept.

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MECHANICAL ENGINEERING DEPARTMENT JAGADAMBHA COLLEGE OF ENGINEERING AND TECHNOLOGY

YAVATMAL-445001

2016-2017

ABSTRACT

Now a day's no. of vehicles is increasing & while them cost of fuel also goes on increasing. The cost of fuel increasing like this the question in middle class peoples mind is that, "Can we use vehicle or not?" So we thought," we can't control the cost of fuel but we can increase the efficiency of engine of vehicle." Brown's gas (HHO) has recently been introduced to the auto industry as a new source of energy. The present work proposes the design of a new device attached to the engine to integrate an HHO production system with the gasoline engine. The proposed HHO generating device is compact and can be installed in the engine compartment. Test experiments were conducted on a single-cylinder engine.

With the help of this kit we are going to separate the atoms of Hydrogen & Oxygen gas with the help of "Electrolysis process". In this process Hydro-oxide gas is generated. This gas we are supplying to the engine in combustion process to increase the power of the "charge". (Mixture air & fuel) Eventually, the goals of the integration are: a 20% to 30% reduction in fuel consumption, lower exhaust temperature, and consequently a reduction in pollution.

Keywords - Electrolysis Process, Reduction in pollution, Brown's gas, Fuel efficiency.

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JAGADAMBHA BAHUDDESHIYA GRAMIN VIKAS SANSTHA'S YAVATMAL

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DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

THIS IS TO CERTIFY THAT "MR. GAURANG J. PANDE, MR. KETAN M. GAWANDE, MR. DINESH G. NAKADE, MR. AJIT A. KALE, MR. NITIN H. GULHANE, MISS PRAGATI A. RAIMAL, MISS DIPALI R. DHAWALE" OF FINAL YEAR MECHANICAL ENGINEERING STUDENT HAS SUBMITTED THE PROJECT REPORT ON THE **"DEVELOPMENT OF MULTIFUNCTIONAL PROGRAMMABLE WORKSTATION"** *TO MY SATISFACTION AND SUBMITTED THE SAME DURING THE ACADEMIC YEAR 2016 – 2017 TOWARDS THE PARTIAL FULLFILLMENT OF DEGREE OF BACHELOR OF ENGINEERING UNDER SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI.*

5/6/2017

Prof. P. V. Bhendarkar
Project Guide
Mech. Engg. Dept.

Dr. V. L. Bhambere
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Dr. H. M. Baradkar
Principal
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DATE : 11 / 6 /2017
PLACE: YAVATMAL

Dr.Hemant M. Baradkar
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ABSTRACT

The Mechanism deals with creating profiles and cutting of profiles of objects, structures, components using programming. Currently, various printers, plotters are available in market. But their mechanism differs with this one. In our mechanism, we are providing movable work piece & tool platform in x, y, & z direction. The motion is controlled by using motors & some programmes & commands. It's uniqueness & simple structure makes it comfortable & attractive. Here we require studying programming languages available, motor programming & the interference of program with the hardware. We are going to study all these & finally a suitable, easy to operate mechanism CAD model & a working prototype will be created.

Moreover in future, we can add number of operations to this mechanism like cutting, 3d printing , drilling. Thus, it results in a unique programmable cutter, drill or 3d printing mechanism.

Keywords :- CAD model , prototype

JAGADAMBHA BAHUDDESHIYA GRAMIN VIKAS SANSTHA'S YAVATMAL

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DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

THIS IS TO CERTIFY THAT ***"MR. BALASAHEB B. JADHAV, MR. NARESH G. BHIMARTIWAR, MR. RAHUL N. MASALE, MR. VINOD C. BODHALE, MR. UMESH B. CHOUDHARI"*** *OF FINAL YEAR MECHANICAL ENGINEERING STUDENT HAS SUBMITTED THE PROJECT REPORT ON THE* **"EXPERIMENTAL INVESTIGATION OF PV CELL FOR PERFORMANCE IMPROVEMENT BY USING DIFFERENT SPECTRUM OF LIGHT."** *TO MY SATISFACTION AND SUBMITTED THE SAME DURING THE ACADEMIC YEAR 2016 – 2017 TOWARDS THE PARTIAL FULLFILLMENT OF DEGREE OF BACHELOR OF ENGINEERING UNDER* ***SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI.***

Prof. V. R. Pannase
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Mech. Engg. Dept.

Dr. V. L. Bhambere
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Dr. H. M. Baradkar
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DATE : / /2017
PLACE: YAVATMAL

Dr. Hemant M. Baradkar
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ABSTRACT

The performance of solar cell govern by the different environmental as well as physical factors the investigated research work addresses that the maximum conversion efficiency of photo voltaic cell is up to 16-20%. In these research work we are propose to improve the performance photo voltaic cell with the use of different spectrum of emitted photon. Overall this research work emphasis on implementation of pleasant research to satisfy future demand of power through the use of renewable resource.

India being a home to a huge population witnesses high Incident Solar radiations throughout the year. Planning has been made to produce at least 20 Gig watts of high quality solar power by the year 2020. Energy harvested from the sun is a necessarily a valuable source but still most it part goes unutilized in Indian subcontinent although being a tropical region. The main obstacle for the wide usage of solar Photovoltaic systems is their efficiency which is very low (20-25% for single crystal 10-15% for polycrystalline and 3.5% for amorphous silicon solar cells and high cost of manufacturing. In main objective behind the work in this project lies in extracting maximum harvestable power from a Photovoltaic module and use the energy for a DC application as well as the grid connection of the generated power so that the surplus power unutilized in the load can be transferred to the grid. The methods of improvement involve Maximum power point tracking used to improve overall power output from the system and use color filters and Fresnel lens to enhance total irradiance and thereby reducing the reflection of sunlight through the cell. The best method of efficiency improvement is found out.

Keywords:- *photo-voltaic cell, polycrystalline, spectrum light, efficiency.*

ESI 2005

Dr. Hemant M. Baradkar
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Jagadambika College of Engineering &
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CERTIFICATE

This is to certify that the Project Entitled

"COMPARITIVE STUDY AND DESIGN OF RCC AND PRESTRESS CONCRETE BRIDGE GIRDER WITH (COMPUTER PROGRAMMING) MS. EXCEL SHEET"

Has been successfully completed by

SHITAL V. RATHOD

PAVAN J. DAHANE
MAYUR G. GOSAVI
VAISHNAVI S. AGRAWAL
UTKARSHA C. UJAWANE
SANKALP S. DANGORE
SHANTANU R. BAJAD
SHUBHAM D. BARDE
CHETAN A. MATARMARE

In partial fulfillment for the degree of

Bachelor of Engineering
(Civil Engineering)

Awarded by

Sant Gadge Baba Amravati University, Amravati, (M. S)

During academic year 2016-2017 under my guidance

Guided by

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Jagadambha College of Engineering and Technology
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Prof. A.R.Rode
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Dr.Hemant M. Baradkar
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ABSTRACT

We are going to work on the comparison between R.C.C. bridge girder and prestressed concrete bridge girder. This work includes the design of R.C.C. bridge girder and pre-tensioned bridge girder. The aim of this work is to design of R.C.C as well as pre-stressed concrete bridge girder by analyzing manually and then analyzing in MS Excel by formulation sheets and then compare the results. The idea is to reach a definite conclusion regarding the superiority of the two techniques over one another. Prestressed concrete is useful for big spans and rapid completion of construction works. Prestressed concrete mainly used in buildings, bridges and towers. In this project the design of Prestressed girder elements are discussed, various methods and their suitability for the design are discussed, mainly concentrated on Indian standard code method and Indian road congress.

The purpose of present study is the design of bridge structure for 25 m of spans. The most obvious choice of this span is the box girder and because of which the comparative study of Prestress and R.C.C in this thesis is covered by the mean of box girder. The study is based on the basis of moment of resistance of section, Shear forces at end and middle of the spans. the ultimate goal of study is to determine most favorable option from above two comparison in between the Prestress and R.C.C bridge girder.

Keywords:-**Box girder, Prestress, R.C.C, I.S, I.R.C**

ESTD 2009

Dr.Hemant M. Baradkar
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CERTIFICATE

This is to certify that the Project Entitled

"COMPARATIVE ANALYSIS OF LATERAL LOAD RESISTING SYSTEM FOR RCC STRUCTURE"

has been successfully completed by

BHAVINI V. UKEY

SHUBHAM P. DHOKE	SHUBHAM S. NAKSHANE
SHUBHAM S. HANDE	TRUPTI A. MANKAR
GUNJ D. RATHOD	SONALI B. MUNDE
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8/5/17

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Head of Civil Department
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Dr. Hemant M. Baradkar
Principal

ABSTRACT

In enchanting the world of buildings with new innovative ideas of lateral load resisting system. As these structures are extended vertically and they are going to with stand the lateral loads in an enormous intensity. Seismic loads are occasional forces on structures that may occur during their life time. Buildings should be able to withstand in minor earthquakes without any structural damage and during major earthquakes without total collapse. Therefore, it is important to know the behavior of buildings for different types of lateral load resistant structural systems. In the present work, an attempt has been made to evaluate the structural behavior of various lateral load resisting systems. The detailed investigations have been carried out on four types of structural systems which include one basic moment resisting frame, other two with different combinations of frame with shear wall & last is diagrid system. This project report provides an investigation has been carried out over a 20, 30 & 40 storey RCC structure using different lateral load resisting system. The stiffness and configuration of those identified elements play a major role in determining the design force levels in the elements. The structural systems used in this project report are "beam column system", "frame tube system", "shear wall with frame system" and "diagrid system". Analysis has been carried out using response spectrum method and gust factor method. The basic modelling technique and assumption are made by using ETABS 15.0.0 software and other consideration are made according to the Indian Standard. A comparison of the storey displacement, storey forces and time period of the whole structure is done for different configuration of lateral load resisting systems. At the completion of the study the conclusion will be arrived and stated regarding to the effect of seismic load application.

Keywords: Storey displacement, Bracing, Frame Tube, Stiffness, Diagrid, Shear Wall, Dynamic, Response Spectrum Analysis, ETABS.

CERTIFICATE

This is to certify that the Project Entitled

"DESIGN AND ANALYSIS OF WATER DISTRIBUTION SYSTEM USING EPANET"

has been successfully completed by

SALONI S. MADAMWAR (L)	AAYUSHI R. BADWAIK
SHUBHAM B. BHARSHANKAR	AKASH K. PANDIT
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ABSTRACT

The present system of supply adopted in KINHI municipality is an intermittent supply and the network adopted is a dead end system. This system of supply of water in KINHI municipality may not be reliable to the upcoming years. As the present water distribution system do not fulfill the requirement of the area. Hence the research is all about the analysis of the new network and concludes about the reliability on the network for the future. The analysis is carried out based on various public demands, quantities of inflows and out flows of the over-head reservoirs. This analysis provides the information about various demands, losses, and uses of the public. The design and analysis of network of supply will make the municipality be aware of the new demands, rate of increase in the demands. The design is made keeping in view of the population growth rate, and the developing town. We use EPANET 2.0. Software to detect the flow of water in each pipe, the pressure at each node, the height of water in each tank. To examined the study of water demand analysis of public water supply in urban area using EPANET 2.0. Software with the aim of providing effective planning, development and operation of water distribution network which is one of an essential component of any water distribution network.

Keywords: *water demand, water distribution system, EPANET 2.0*

ESTD 2009

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A

Report on

Field Project

"DESIGN OF SEWERAGE SYSTEM FOR JAGADAMBHA COLLEGE OF ENGINEERING AND TECHNOLOGY YAVATMAL"

JAGADAMBHA

COLLEGE OF ENGINEERING & TECHNOLOGY, YAVATMAL

Arni Road, Yavatmal - 445001 (M.S.)

Ph. 07232-244226, Fax : 07232-244226, Cell : 98 5005 3333

E-mail : principal.jcoet@gmail.com, principal@jcoet.org

Website : www.jcoet.org

SURVEYING:

Surveying is a branch of civil engineering and it is used to represent the general features of land in their proper relative positions. From these measurements, the drawings are prepared which may be in the form of a plan or a map.

The main objective of surveying is to prepare a map or a plan of the area surveyed. The map or plan is the horizontal projection of area on a horizontal plan. On plan, horizontal distances only are shown vertical distances between the points can be shown by contourlines.

TOTAL STATION:

1. A total station consists of a teodolite with a built-in distance meter (distancer), and so it can measure angles and distances at the same time.

2. Today's electronic total stations all have an auto-electronic distance meter (EDM) and electronic angle scanning. The coded scales of the horizontal and vertical circles are scanned electronically, and then the angles and distances are displayed digitally.

3. The horizontal distance, the height difference and the coordinates are calculated automatically and all measurements and additional information can be recorded.

4. Leica total stations are supplied with a software package that enables most survey tasks to be carried out easily, quickly and elegantly.

5. The most important of these programs are presented in the section "Applications programs". Total stations are used wherever the positions and heights of points, or merely their positions, need to be determined.

Total Station

LANDSCAPE DRAINAGE SYSTEM

Landscaping that sits in low-lying area of your property will most likely cause water to collect our pool as water flows downhill to the lowest point.

Even the slightest of slope of causes water to flow and erode the ground. Professional landscape drainage assistant may be necessary if your property become soggy or muddy with excess surface water.

Surface drainage systems:

This is a standard drainage system used for irrigation or in area of excess rainfall. This system work only do the application of gravity and come in either bedded inmate or graded system.

Subsurface drainage systems:

This is also standard type of drainage system that, although below ground, has similarities to surface drainage system. It also work due to gravity, but operates is regular and controlled manner.

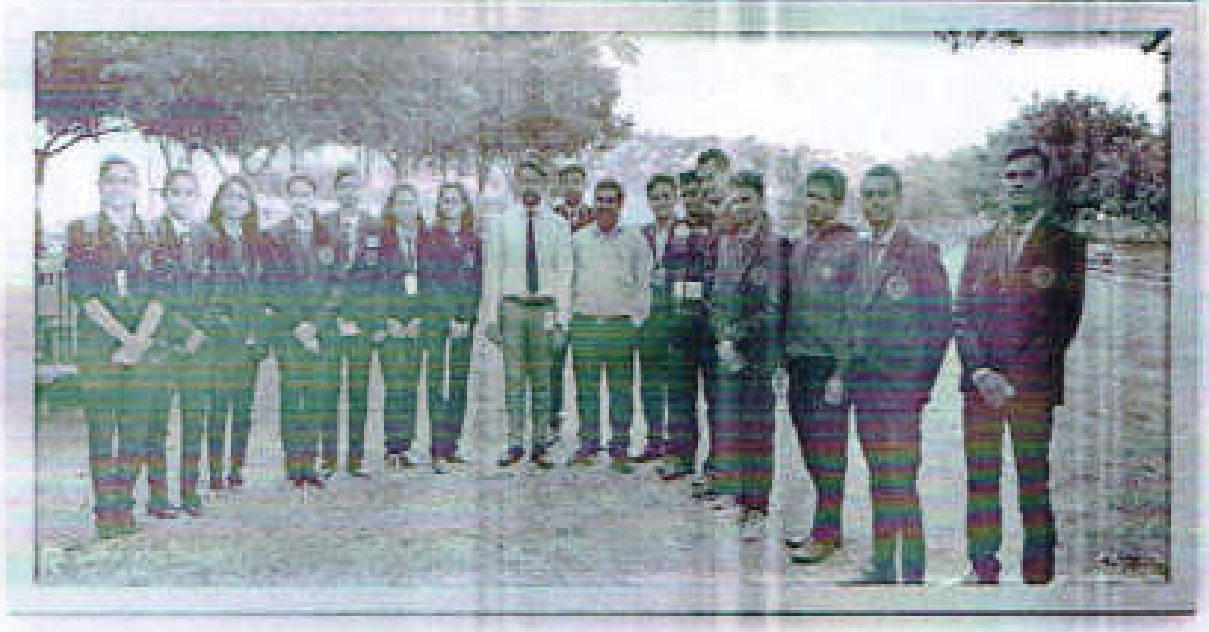
shutterstock.com • 1722409264

DESIGN OF DRAINAGESYSTEM

1 Sewers

Sewer pipes are available in a variety of materials. They can be made of cast and ductile iron, PVC, concrete, asbestos cement, HDPE (high density polyethylene), brick, and vitrified clay. Most new sewer pipe has a circular cross section, however, many older sewers, especially those made from brick, have cross sectional shapes.

PHOTOGRAPHS



Workshop Certificate:

Prof. S.S. Kendhe

HOD,CivilEngg.

Dr. H.M. Baradkar

Principal JE

To

The Principal

JE Yavatmal

14 January 2020

Subject: Permission to Technical Course in Collaboration with Minor Project at College Campus.

Respected sir.

We are requesting permission to use the college premises as the site for a Minor Project as well as for total station training site. We have already told our students to start preparing their pre-project work and they are really excited. The event will be held for three days from next week so I wanted to know in advance if I could use college campus for those three days.

As a part of SGBAU curriculum, B.E., III year student must prepare a mini project during their third year. It will be great privilege to our students to receive training and guidance for 'minor project work'. Also we try to provide them a technical training of "How to use Total Station for Morden Surveying", which will help themto enhance theirtechnical skill.

Yours faithfully

14/01/2020

Prof. R. J. Raut

(Technical Course Co-ordinator)

16/01/2020

(hod)

Prof.Shashank S. Kendhe
HOD,Civil Engineering
Jagadambha College of Engineering & Technology, Ami Road,Kinhi, Yavatmal

1)Prof. A. H. Meshram - 3rd yr. CL1

2)Prof. P. P. Deogade - 3rd yr. CL-2

(Minor Project In-charge)

17/01/2020

A
Report on

Field Project

"A Case Study on Reducing Coal Consumption of Cogeneration Power Plant."

JAGADAMBHA
COLLEGE OF ENGINEERING & TECHNOLOGY, YAVATMAL

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"A Case Study on Reducing Coal Consumption of Cogeneration Power Plant."

By

Mechanical Engineering Department

1.Title of Activity	"A Case Study on Reducing Coal Consumption of Cogeneration Power Plant."
2. Duration of Activity	30 Days
3. Objective	To provide practical knowledge of power plant
4. Venue	RAYMOND UCO DENIM PVT. LTD. YAVATMAL PLANT
5. No. of Beneficiary	6 Students work on this project • Shahbaz .M. Sheik • Amit .S. Malvi • Mayur .R. Bonkile • Shoaib .A. Khan Pathan • Dhananjaygiri • Aparna .R. Ambatkar
6.Guided By	Dr. V. L. Bhambere

INTRODUCTION

Project batch had performed the case study in Raymond UCO Denim Pvt. Ltd as their final year project. In Raymond they carried out case study in the 6 MW cogeneration power plant of this industry under the guidance of Mr. D. K. Sharma, who is the head of this power plant. First Project batch had understood the working of the complete power plant. After understanding the system of power plant they found that there was some scope of improvement in the system. So they performed the detailed case study on to reduce the coal consumption of cogeneration power plant by recovering some amount of heat of steam which is actually wasted in current cogeneration power plant system. This loss of heat takes as steam is condensed in condenser. This heat can be recovered by circulating DM water as cooling water in condenser thus extracting the heat of steam and then using this DM water as feed water of boiler. Due to this the amount of coal required for heating the boiler water to a desired temperature is reduced. Project batch had calculated the annual savings of coal which they will obtain if they use DM water as cooling water in the condenser. Also in current system the pressure reducing and desuper heating system is used for reducing pressure and temperature of steam. The same objective can be obtained if they replace this system by a turbine and in addition to this they also

ESTD 2009

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"A Case Study on Reducing Coal Consumption of Cogeneration Power Plant."

By

Mechanical Engineering Department

1.Title of Activity	"A Case Study on Reducing Coal Consumption of Cogeneration Power Plant."
2. Duration of Activity	30 Days
3. Objective	To provide practical knowledge of power plant
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INTRODUCTION

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get power as steam was expanded in turbine. Project batch had calculated the power produced by the turbine for given inlet and outlet conditions. Finally the batch found that they can annually save Rs. 7 lakhs. Then Project batch had submitted their study to Mr. D. K. Sharma sir and it is in consideration for implementation in future.

SNAPSHOTS

Image 1: Boilor

Image 2: Condensor

Dr. Hemant M. Baradkar
Principal
Jagadambika College of Engineering & Technology Arvi Road, Kinhi, Yavatmal

CERTIFICATE OF RAYMOND UCO DENIM PVT.LTD

Raymond UCO

Denim Private Limited

DATE : 05/03/2018

CERTIFICATE

The students of Jagadambha College of Engineering and Technology have done the case study in Captive Power Plant as their final year project and submitted the report for DM water heating in condenser along with cooling water as per requirement of the system. We appreciate their effort for new concept which is under consideration for practical implementation possibilities along with OEM of TG System.

Above said study was done by given below students

1) Mr.Shahbaz .M. Sheikh

2) Mr. Amit .S. M

3) Mr. Mayur .R. Honkik

4) Mr. Shoaib .A. Khan Pathan

5) Mr.Dhananjay giri

6) Miss. Aparna .R. Ambadkar

For Raymond UCO Denim Pvt. Ltd.

For Raymond UCO Denim Pvt.Ltd.

D.K.Sharma
D.G.M. Power Plant

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ESTD 2009

Jagadambha Bahuuddeshiya Gramin Vikas Sanstha's

JAGADAMBHA

COLLEGE OF ENGINEERING & TECHNOLOGY, YAVATMAL

Reg. No. F - 7596 (Ytl.)

JCOET/ 17-18/633 Date: 18/12/2017

To,
The HR,
Raymond Uco Denim Pvt Ltd.,
Plot No-C1, MIDC Lohara,
Yavatmal, Maharashtra 445001.

Subject: Request Letter to do Case Study in your esteemed organization.

Respected Sir,

The Students of Final year Mechanical Engineering of Jagadambha College of Engineering & Technology, Yavatmal are interested to undertake case study at your prestigious organization. They would like to perform the case study on "Reducing Coal Consumption of cogeneration power plant". This will help them to pursue and learn the practical aspects of theory learnt in the classroom.

Following is the list of interested candidates.

1. Shahbaz M. Shaikh
2. Shoiab A. Khan Pathan
3. Mayur S. Bonkile
4. Dhananjay Giri
5. Aparna R. Ambatkar

For the same, we humbly request you to permit them to undergo for the case study.

Thanking you!

OK

Dr. Hemant M. Baradkar
Principal
Jagadambha College of Engineering & Technology, Arni Road, Amla, Yavatmal

18.12.17

Dr. Hemant M. Baradkar
Principal
Jagadambha College of Engineering & Technology,
Yavatmal

21.12.2017

A
Report on

Field Project

"Analysis & Design of Water Distribution Scheme of Village Kinhi, Tq.Yavatmal, Dist Yavatmal"

JAGADAMBHA
COLLEGE OF ENGINEERING & TECHNOLOGY, YAVATMAL

Arni Road, Yavatmal - 445001 (M.S.)

Ph. 07232-244226, Fax : 07232-244226, Cell : 98 5005 3333

E-mail : principal.jcoet@gmail.com, principal@jcoet.org

Website : www.jcoet.org

ESTD 2009

Dr.Hemant M. Gardas
Principal
Jagadambha College of Engineering & Technology, Arni Road, Kinhi, Yavatmal

"Analysis & Design of Water Distribution Scheme of Village Kinhi, Tq.Yavatmal, Dist Yavatmal"

By

Civil Engineering Department

1.Title of Activity	"Analysis & Design of Water Distribution Scheme Of Village Kinhi, Tq.Yavatmal, Dist Yavatmal"
2. Date of Activity	28/03/2018
3. Objective	The basic objective of the project is to design water distribution system for Kinhi village in Yavatmal district of Maharashtra.
4. No. of Beneficiary	66 Students work on this project
5.Guided By	Prof. P. S. Kumbhare Prof. V.R. Baankar Prof. M. G. Mandaokar Prof.V.J.Rathod
6. Venue	Kinhi Tq.Yavatmal

INTRODUCTION

A minor project held on analysis and design of water distribution scheme of village Kinhi, Tq.Yavtamal,Dist. Yavatmal.The village is located in Yavatmal Tahasil of Yavatmal district in Maharashtra state, India. It is situated about 7kms away from district headquarter,Yavatmal.

To make availability of potable water to the villagers and to fulfill requirement of water demand to individuals with considering increased population calls for increase in water demand,we have design water distribution system.

The present system of supply adopted in Kinhi, Gram Panchayat is an intermittent supply and network adopted is a dead end system. This system of supply of water in Kinhi, Gram Panchayat may not be reliable to supply required quantity of water in the upcoming years. As the present water distribution system do not fulfill the requirement of the area. Hence the research is carried out for future requirement of water and detailed analysis of new network and concluded about reliability on the distribution network for the future. The analysis is carried out based on various

Dr.Hemant M. Baraskar
Principal
Jagadambha College of Engineering & Technology,Anil Road,Kinhi,Yavatmal

public demands, quantities of inflows and out flow of the overhead reservoir. This analysis provides the information about various demands, and uses of the public.

This project work consists of profile leveling which is part of surveying work, various calculations for water demand, determination of capacity of water demand, pumping installations, design of water distribution system & design of water tank for future life span.

Need of study:-

The present water supply system in Kinhi village is now a day insufficient to of satisfy the water demands of present population because of increased population with passing of years and the increased population calls for increase in water demand. Thus to fulfill the increased demand of population, we need to redesign the present system.

The basic aim of the project is to design water distribution system for Kinhi village in Yavatmal district of Maharashtra.

The objectives are as follows.

1. Identification of water resources for the system.

2. To conduct field survey for inputs in design.

3. Design of water distribution network system.

4. Operational design for working of system.

Conclusion:-

The main focused of this project is to design and analyses the water distribution network so at the end of analysis it is observed that the entire network has uniform flow.

Dr. Hemant M. Darodkar
Principal

SNAPSHOTS

Image 1: Students understanding the surveying work on site

Image 2: Discussing map of Villege Kinhi & surveying work

Image 3: Surveying work

Dr.Hemant M. Baradkar
Principal
Jagadambha College of Engineering & Technology,Ami Road,Kinhi,Yavatmal

Image 4: Taking a reading on Bench Mark

Image 5: Surveying work

P.S. Kumbhare

Dr.Hemant M. Baradkar
Principal
Jagadambha College of Engineering &
Technology,Arni Road,Yavatmal

JAGADAMBHA BAHUUDDESHIYA GRAMIN VIKAS SANSTH'S

JAGADAMBHA

COLLEGE OF ENGINEERING & TECHNOLOGY, YAVATMAL

Approved by A.I.C.T.E. & Government of Maharashtra, Affiliated to S.G.B. Amravati University, Amravati.

Dr. Hemant M. Baradkar
M.Tech. (Electronics), Ph.D. (E & TC. Engg.)
Principal

Dr. Shital A. Watile
M.Sc., Ph.D.
Secretary

Ref. No. JCET/17-18/1118

Date: - 23/03/2018

To,

The Hon'ble Sarpanch,

Village Kinhi.

Yavatmal.

Subject:-To give Permission for conducting Minor Project at Kinhi.

Respected Sir,

As per the above subject, we have planned a **Minor Project** on Design of Water Distribution scheme at village Kinhi, Tq.Yavatmal, Dist Yavatmal for **3rd year (CL-II)** students of Civil Engineering Department, Hon'ble Sarpanch of village Kinhi gave us permission to conduct the Project on date **28/03/2018 (Wed).** Total **66** students from **3rd year (CL-II)** will do the project on 28/03/2018 along with **two faculties.**

So, we are requesting you to please accept this application and give us permission for the same.

Thanking you!

Prof.A.R.Rode
HOD
Civil Engg.

23.3.18

Dr.H.M.Baradkar
Principal

Dr.Hemant M. Baradkar
Principal
Jagadambha College of Engineering & Technology, Arni Road, Kinhi,Yavatmal

ARNI ROAD, YAVATMAL - 445001 (M.S.) INDIA
Tel. / Fax : 07232-291444, Mob. : 9011083260
Website : www.jcoet.org, Email : principal@jcoet.org, principal.jcoet@gmail.com

List of Students

ROLL NO	STUDENT NAME	ROLL NO	STUDENT NAME
1	Palash Laxman Botare	34	Vikram Shamrao Chavhan
2	Amol Ramkrishna Jambhale	35	Akash Ramdhan Jadhav
3	Ku. Rajashree Ramkrishna Lute	36	Sopan Sheshrao Adhao
4	Nitin Santosh Rathod	37	Sunil Rajiv Jadhav
5	Ku. Vaishnavi Gajanan Raut	38	Jagdish Dutta Kalapad
6	Ku. Vaishnavi D. Sulbhewar	39	Nitin Dadarao Arsod
7	Vishal S Swami	40	Saurabh Santosh Kurhewar
8	Shivaji Vilas Chavhan	41	Shubham Raju Ingole
9	Shah Parvez Yakub Shah	42	Shubham Gajanan Keshatiwar
10	Pranay Ramesh Warghat	43	Ku. Ravina Govind Kadekar
11	Girish V Mahalle	44	Sayyad Adnaanli Sadique
12	Sairam V Agrawal	45	Shubham Madan Meshewar
13	Akashay Santosh Kadam	46	Shyam Subhash Chaudhari
14	Mohan Vasantrao Nemane	47	Prashant Rajkumar Nandagawali
15	Priyanka Prakash Dande	48	Vitthal P. Pawar
16	Ku. Samidha Dnyaneshwar Thakare	49	Prashik Suresh Thul
17	Vikrant M. Chaudhari	50	Ashwin Vishwas Rathod
18	Ku. Pujal Tukaram Ade	51	Akash R. Bidkar
19	Mayur Subhash Rathod	52	Ku. Kalyani Pandurang Sutare
20	Kunal Harinarayan Yadav	53	Rushabh Sanjay Dhole
21	Anurag Sushil Ambadkar	54	Akshay Vijay . Khadse
22	Pratik Vilas Kamnao	55	Dhananjay Pramod Thakare
23	Abhijeet Vishwanath Rajurkar	56	Akshay Gajanan Hingankar
24	Lavkush Shankar Jadhao	57	Kshitij Uttam Fursule
25	Vipul D. Rathod	58	Atul Wamanrao Rathod
26	Sumit Rajendra Thakare	59	Suraj D. Kathwate
27	Ketak Vinayak Bakhade	60	Tushar Shyamrao Raut
28	Kartik Vitthal Nahare	61	Saurabh K. Selokar
29	Ku. Radhika Prashant Holey	62	Dhiraj P. Wankhade
30	Ku. Swati Ashish Labhsetwar	63	Ku. Vishakha S. Gulhane
31	Prashil U. Suddhawar	64	Mohd. Saddam Shah
32	Akshay H. Shirbhate	65	Pankaj Mohan Jadhao
33	Tausif Gulsher Khan	66	Ku. Usama Sahir

P.S. Kumbhare

Corrected

ESTD 2009

Dr. Hemant M. Baradkar
Principal
Jagadambha College of Engineering & Technology, Amt Road,Gavsi,Yavatmal

List of Students

ROLL NO	STUDENT NAME	ROLL NO	STUDENT NAME
1	Palash Laxman Botare	34	Vikram Shamrao Chavhan
2	Amol Ramkrishna Jambhale	35	Akash Ramdhan Jadhav
3	Ku. Rajashree Ramkrishna Lute	36	Sopan Shesherao Adhao
4	Nitin Santosh Rathod	37	Sunil Rajiv Jadhav
5	Ku. Vaishnavi Gajanan Raut	38	Jagdish Dana Kalapad
6	Ku. Vaishnavi D. Sulbhewar	39	Nitin Dadarao Ansod
7	Vishal S Swami	40	Saurabh Santosh Kurhewar
8	Shivaji Vilas Chavhan	41	Shubham Raju Ingole
9	Shah Parvez Yakub Shah	42	Shubham Gajanan Keshattiwar
10	Pratay Ramesh Wurghat	43	Ku. Ravina Govind Kadekar
11	Girish V Mahalle	44	Sayyad Adnanali Sadique
12	Sairam V Agrawal	45	Shubham Madan Meneswar
13	Akashay Santosh Kadam	46	Shyam Subhash Chaudhari
14	Mohan Vasantrao Nemane	47	Prashant Rajkumar Nandagawali
15	Priyanka Prakash Dande	48	Vitthal P. Pawar
16	Ku. Samidha Dnyaneshwar Thakare	49	Prashik Suresh Thul
17	Vikrant M. Chaudhari	50	Ashwin Vishwas Rathod
18	Ku. Pujal Tukaram Ade	51	Akash R. Ridkar
19	Mayur Subhash Rathod	52	Ku. Kalyani Pandurang Sutare
20	Kunal Harinarayan Yadav	53	Rushabh Sanjay Dhole
21	Anurag Sushil Ambadkar	54	Akshay Vijay . Khadse
22	Pratik Vilas Kanoso	55	Dhananjay Pramod Thakare
23	Abhijeet Vishwanath Rajurkar	56	Akshay Gajanan Hinganikar
24	Lavkush Shankar Jadhao	57	Kshitij Uttam Pursule
25	Vipul D. Rathod	58	Atul Wamanrao Rathod
26	Sumit Rajendra Thakare	59	Suraj D. Kathwate
27	Ketak Vinayak Bakhade	60	Tushar Shyamrao Raut
28	Kartik Vitthal Nekare	61	Saurabh K. Selokar
29	Ku. Radhika Prashant Holey	62	Dhiraj P. Wankhade
30	Ku. Swati Ashish Labhsetwar	63	Ku. Vishakha S. Gulhane
31	Prashil U. Suddhawar	64	Mohd. Saddam Shah
32	Akshay H. Shirbhate	65	Pankaj Mohan Jadhao
33	Tausif Gulsher Khan	66	Ku. Usama Sahir

P.S. Kumbhare

Corrected

ESTD 2009

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Principal
Jagadambha College of Engineering & Technology, Amt Road, Kinhi, Yavatmal

Dr.Hemant M. Baradkar
Principal
Jagadambha College of Engineering & Technology,Amt Road,Kinhi,Yavatmal

A
Report on

Field Project

"Design And Analysis of Water Distribution System For Village Kinhi"

JAGADAMBHA
COLLEGE OF ENGINEERING & TECHNOLOGY, YAVATMAL

Arni Road, Yavatmal - 445001 (M.S.)

Ph. 07232-244226, Fax : 07232-244226, Cell : 98 5005 3333

E-mail : principal.jcoet@gmail.com, principal@jcoet.org

Website : www.jcoet.org

ESTD 2009

Dr.Hemant M. Baradk...
Principal
Jagadambha College of Engineering & Technology,Arni Road,Kinhi,Yavatmal

"Design And Analysis of Water Distribution System For Village Kinhi"

By

Civil Engineering Department

1.Title of Activity	"Design And Analysis of Water Distribution System For Village Kinhi Yavatmal"
2. Date of Activity	29/03/2018
3. Objective	To develop and integrated portable water system technology for design and analysis of water distribution system.
4. Venue	Kinhi Tq.Yavatmal
5. No. of Beneficiary	130 Students work on this project(Final Year)
6.Guided By	Prof. S.S.Kendhe Prof. V.R. Bankar

INTRODUCTION

The present system of supply adopted in KINHI municipality is an intermittent supply and the network adopted is a dead end system. This system of supply of water in KINHI municipality may not be reliable to the upcoming years. as the present water distribution system do not fulfill the requirement of the area. Hence the research is all about the analysis of the new network and concludes about the reliability on the network for the future. The analysis is carried out based on various public demands, quantities of inflows and out flows of the over-head reservoirs. This analysis provides the information about various demands, losses, and uses of the public. The design and analysis of network of supply will make the municipality be aware of the new demands, rate of increase in the demands. The design is made keeping in view of the population growth rate, and the developing town. We use EPANET 2.0. Software to detect the flow of water in each pipe, the pressure at each node, the height of water in each tank. To examined the study of water demand analysis of public water supply in urban area using EPANET 2.0. Software with the aim of providing effective planning, development and operation of water distribution network which is one of an essential component of any water distribution network.

Dr.Hemant M. Sarodka.
Principal
Jagadamba College of Engineering & Technology,Ami Road,Kinhi,Yavatmal

Water is the most precious gift of nature. It is the most crucial for sustaining life and is required in almost all the activities of mankind i.e., domestic and industrial use, irrigation to meet the growing food and fiber needs, power generation, navigation, recreation etc. and also required for animal consumption. The common source of water mainly comprises of Rain water, Surface water, Ground water and Water obtain from reclamation. With the increase in population, demand of water supply on the civic amenities including water supply for domestic purposes, irrigation, industry etc. has increased. Therefore, identification of sources of water supply, their conservation and optimal utilization is of utmost importance. Water distribution system, hydraulic infrastructure consisting of elements such as pipes, tanks, reservoirs, pumps and valves etc. is crucial to provide water to the consumers. Distribution mains are the pipelines that make up the distribution system. Water served human beings and living organisms in past centuries by rivers valleys and streams.

The most important consideration in designing and operating a water distribution system is to satisfy consumer demands under a range of quantity and quality considerations during the entire lifetime for the expected loading conditions. Also, a water distribution system must be able to accommodate abnormal conditions such as breaks in pipes, mechanical failure of pipes, valves, and control systems, malfunction of storage facilities and inaccurate demand projections. The possibility of occurrence of each of these deficiencies should be examined to determine the overall performance and thereby the reliability of the system. In general, reliability is defined as the probability that the system performs successfully within specified limits for a given period of time in a specified environment. As it is defined above, reliability is the ability of a system to provide adequate level of service to the consumers, under both normal and abnormal conditions. However, there is still not a convenient evaluation for the reliability of water distribution systems.

The primary task for water utilities is to deliver water of the required quantity to individual customers under sufficient pressure through a distribution network. The distribution of drinking water in distribution networks is technical challenge both in quantitative and qualitative terms. The water supply in most Indian cities is only available for a few hours per day, pressure is irregular, and the water is of questionable quality. Intermittent water supply, insufficient pressure and unpredictable service impose both financial and health costs on Indian households.

Water supply networks are part of the master planning of communities, and municipalities. Their planning and design requires the expertise of civil engineers, who must consider many factors, such as location, current demand, future growth, leakage, pressure, pipe size, pressure loss, firefighting flows etc. Water supply systems get water from a variety of locations, including groundwater, surface water (lakes and rivers). Water then either flows by gravity or is pumped to reservoirs, which can be elevated such as water towers or on the ground.

OBJECTIVES:-

It is important to look at operational objectives first, and use these to establish the objectives for the project phase; otherwise there is risk that the water supply system will operate inefficiently, even if the project phase was completed successfully. So, for efficient working of system following objectives should kept in mind:

- To supply water equitably to the consumers with sufficient pressure so as to discharge the water at desired location within the premises.
- To develop and integrated portable water system technology for design and analysis of water distribution system of kinhi village

NECESSITY

Human life, as with all animal and plant life on the planet, is dependent upon water. Not only do we need water to grow our food, generate our power and run our industries, but we need it as basic part of our daily lives - our bodies need to consume water every day to continue functioning. "Basic needs of about 70litres per person per day". It includes the need for water to maintain a basic standard of personal and domestic hygiene sufficient to maintain health. The effects of inadequate water supply causes disease, time and energy expended in daily collection, high unit costs, etc. provision of basic daily water needs is yet to be regarded by many countries as a human right.

CONCLUSION

The main focused of this project is to design and analyses the water distribution network so at the end of analysis it is observed that the entire network has uniform flow and velocity and every node receives enough pressure without any deficiency.

ESTD 2013

Principal

SNAPSHOTS

Fig.1: Students Taking Reading

Fig.2: Faculty Guiding to Students

Dr.Hemant M. Baradkar
Principal
Jagadambha College of Engineering &
Technology,Ami Road,Kinhi,Yavatmal

Fig.3: Students Taking Reading

Fig.4: Students observing Control Pannel

ESTD 2009

Dr.Hemant M. Saradkar
Principal
Jagadambha College of Engineering &
Technology,Arni Road,Kinhi,Yavatmal

quantra

CERTIFICATE

OF COMPLETION

Presented to

Kaushal Gajanan Talkokulwar

for successful completion of online internship

MACHIN LEARNING FOR TRADING

7th May 2020 to 29th May 2020

ESTD 2009

Principal
Jagadambha College of Engineering & Technology Arni Road,Kinhi,Yavatmal

Nitesh Khandelwal
Director, Quantinsti

GLOBAL YES
TECHNOLOGY

CERTIFICATE OF TRAINING

The certificate is presented to

Ku Samiksha Bhaskar Deotale

For successfully completing the 30 days online "Solar Industrial Training"

as a part of our company

from 15th May 2020 to 18th June 2020

Principal
Jagadambha College of Engineering &

Managing Director

AUTOMATE ENGINEERING

Office Address 1st Floor, Malhar Pride, Shree Control Chowk, Narhe Industrial Area, Pune 41
Phone No: +91 7768898659
E-mail: connect.automate@gmail.com
Website: www.automateengg.com

INTERNSHIP CERTIFICATE

Name: Ku Ankita Mirase

College: Jagadambha college of engineering and technology, yavatmal

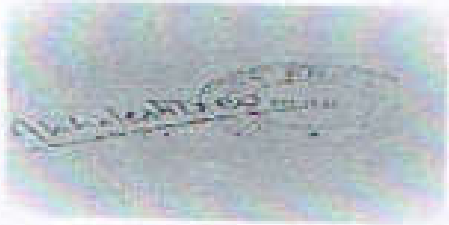
Department: Electrical Engineering

Domain of Internship: Factory Automation

Training date from: 10th June to 10th July2020

During the period of Training Program at AUTOMATE ENGINEERING, the Candidate was found punctual, hardworking and inquisitive.

For AUTOMATE ENGINEERING,



Authorized Signature

Principal
Jagadambha College of Engineering & Technology Amri Road,Kinhi,Yavatmal

PRABODHINI MEDIA AND ENTERPRISES LIMITED
CIN U74999MH2018PLC317248
www.prabodhinitd.com

Internship Certificate

This is to certify that Ku Sakshi L. Banait has completed internship project at Probodhini Media and Enterprises ltd in development from 10/JUNE/2020 to 30/APR/2021. During the internship period she worked in the Following Technologies:

- ASP.NET
- SQL Server Database
- C# Language

During her internship we found very respective, intelligent, motivated and hard-working person.

We wish her very best in her future Endeavors.

Mr. Kumar Chiplunkar
Managing Director

ESTD 2009

Principal
Jagadambha College of Engineering & Technology Ami Road,Kinhi,Yavatmal

SBMEC Group

Phone: +91 0712 2271639
Mobile: +91 940 400 1887
Website: www.sbmec.co.in
Email: info@sbmec.co.in
Registered Address: 82, Tirupati Nagar, Koradi Road, Mankapur, Nagpur – 440 030 MH

Ref: SBMEC/NGP/07/2020/28

Date: 25/07/20

TO WHOM IT MAY CONCERN

This is to certify that **Ms Kajal Ganeshkumar Lodha**, a student of Jagadambha College of Engineering and Technology, Yavatmal (MH) has successfully completed her online internship as Android Application Developer. She was involved in all activities related to Mobile App Development. She was dedicated and disciplined during the entire duration. Internship details are as below

Start date: 25th May 20

End date: 24th July 20

We wish her all the very best for his future endeavours.

Sincerely,

Sanjay Bhure
Founder & CEO
SBMEC Group
Email: Info@sbmec.co.in
Website: https://www.sbmec.co.in

Principal
Jagadambha College of Engineering & Technology Arni Road,Kiohi,Yavatmal

Magnum Net Solution

Internship Certificate

This certificate is presented to

Bhagyashri M.Bhashkar

in recognisation of his/her excellence,effort and achivement in being an outstanding student.

ESTD 2009

Principal
Jagadambha College of Engineering & Technology Arni Road,Kinhi,Yavatmal

ADINATH INFOTECH

CERTIFICATE OF COMPLETION

This Certiicate is present to

Sneha Raju Tamboli

For successfully completing the 30 days online "EMBEDDED SYSTEM DESIGN AND MICROCONTROLLER BASED SYSTEM DESIGN" as a part of our company from 10th April 2020 to 11th May 2021

Managing Director
Adinath Infotech,
Yavatmal

Principal
Jagadambha College of Engineering & Technology, Amt Road, Kinhi, Yavatmal

PBR
RESEARCH

Date:- 25/12/2020

TO WHOM IT MAY CONCERN

This is to certify that

Sana Naushad Shrve

Department of Electronics And Telecommunication Engineering has successfully completed one month i.e. (From 9th December 2020 to 23rd December 2020) long internship programmed at this Branch/Company. During the period of internship programmed with us, He/She was found punctual, hardworking and inquisitive.

We wish her / his success in life.

For, PBR Research

Authorised Signature

www.pbrresearch.com
pbr34p@gmail.com
www.i[illegible].com/pbr_makerspace/
[illegible] / 7887271093 / 0721-2991637
Navatha plot,
Badnera road,
Amravati
Maharashtra 444607

Principal
Jagadambha College of Engineering & Technology Ami Road,Kinhi,Yavatmal

AUTOMATE ENGINEERING

Office Address 1st Floor, Malhar Pride, Shree Control Chowk, Narhe Industrial Area, Pune 43
Phone No: +91 7768999659
E-mail: connect.automate@gmail.com
Website: www.automateengg.com

INTERNSHIP CERTIFICATE

Name: RAJESH WAMAN GANDATWAR

College: Jagadambha college of engineering and technology, yavatmal

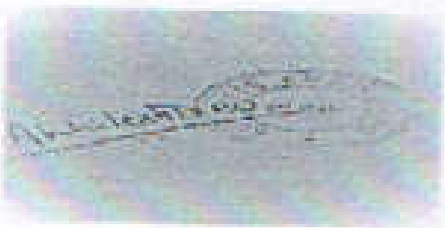
Department: Mechanical Engineering

Domain of Internship: Factory Automation

Training date from: 10th June to 10th July2020

During the period of Training Program at AUTOMATE ENGINEERING, the Candidate was found punctual, hardworking and inquisitive.

For AUTOMATE ENGINEERING,



Authorized Signature

Principal
Jagadambha College of Engineering & Technology Amt Road,Kinhi,Yavatmal

Raymond UCO
Denim Private Limited
India . Romania . Belgium
Raymond UCO Denim Pvt. Ltd.
Plant: Plot C-2, MIDC Lohara, Yavatmal - 445 001
Maharashtra, India
Tel: (91-7232) 304500 / 304549
Fax: (91-7232) 249220
www.raymonduco.in

RUDPL/HR&A/YTML/2021

11/05/2021

To Whomsoever It May Concern

This is to certify that Mr. **Pranav Pradip Chaudhari** student of Jagadambha College of Engineering & Technology, Yavatmal. He has successfully completed his inplant training at Raymond UCO Denim Pvt. Limited in Engineering Department for the period from **08/04/2021 to 10/05/2021**

He was found to be hardworking, enthusiastic and cooperative in his approach and completed his inplant training satisfactorily.

For Raymond UCO Denim Pvt. Limited

C.M. Paturkar
Sr. Manager –HR & Admin

Principal
Jagadambha College of Engineering & Technology Anil Road,Kinhi,Yavatmal

REGISTERED OFFICE
Tel: +91 22 6668 6000
Fax: +91 22 2497 0002

Balaji Construction

Er.Santosh Sapate
Cell - 9726330460
9960109681

Consulting Civil Engineer
& Approved Valuer
• Plan • Estimate • Valuation
• 3D Elevation • R.C.C.Design

Office: Bharti Complex, in front Of Gramin Police Station Darwha Road, Yavatmal
Email- sapate_san@rediffmail.com

TO WHOM IT MAY CONCERN

This is certify that, Mr. Shlok Deepak Zanwar student of JAGADAMBHA COLLEGE OF ENGINEERING AND TECHNOLOGY, YAVATMAL had successfully completed the industrial training at Balaji construction Yavatmal from 20/06/2020 to 25/07/2020.

Sapate

ESTD 2009

Principal
Jagadambha College of Engineering &
Technology Arni Road,Kinhi,Yavatmal

HARIKRUPA BUILDERS

Head Office – 509, Picasso Plaza, NIBM Chowk, Above Jyoti Restaurant, Pune, Maharashtra - 411048.
+91 7395964208 / +91 8378886856
info.harbuilders@gmail.com / krishokare@ymail.com

Date: 15/07/2020

TO WHOM IT MAY CONCERN

This is to certify that Mr. Sananand Vivek Unhale (Dept. Of Civil Engg.) has successfully completed one month (From 15th June 2020 to 15th July 2020) long internship program at this Company during the period of his/her internship program with us, it was found punctual, hardworking we wish you every success in life.

From,

H.R. (HARIKRUPA BUILDERS)

ESTD 2009

Principal
Jagadambha College of Engineering & Technology Ami Road,Kinhi,Yavatmal

Shree Shakti Builders & Developers

Plot no. 255/4, Naer Costal Highway & Akara Maroti Mandir,
Town Road Umbergaon (W)
shree.shaktid&v@gmail.com

tDate: 15/07/2020

TO WHOM IT MAY CONCERN

This is to certify that Miss Shweta V. Nehare has done his/her internship in Site Engineer at Shree Shakti Builders & Developers, Umbergoan from 01/07/2020 to 01/08/2020. This project was aimed at Tall Rised Building As part of the project. During his/her internship he/she has demonstrated his/her skills with self-motivation to learn new skills. His/Her performance exceeded our expectations and he/she was able to complete the given tasks on time.

We wish him/her all the best for his/her upcoming career.

From,

Shree Shakti Builders & Developers, Umbergoan

ESTD 2009

Principal
Jagadambha College of Engineering & Technology Ami Road,Kinhi,Yavatmal

PFCC

Prajapati Nagar, Arni Road, Near Ganpati Mandir, Yavatmal
+91-9423652909
pravin.faste9@gmail.com

TO WHOM IT MAY CONCERN

This is to certify that Mr. Devashish Shrikant Gulhane Jagadambha College of Engineering & Technology, Yavatmal student from Civil Engineering Department has successfully completed one month (From 15th June 2020 to 15th July 2020) long internship program at this Company during the period of his internship program with us, it was found punctual, hardworking. All the best for future success.

From,

PFCC

ESTD 2009

Principal
Jagadambha College of Engineering & Technology Arni Road, Kinhi, Yavatmal

PTPS/TSC/VT-W/2019/Batch 03

MAHAGENCO

Maharashtra State Power Gen. Co. Ltd.

THERMAL POWER STATION, PARAS

Dist. Akola 444 109

ISO 50001 : 2011 Certified

Certificate

Vacation Industrial Training

This is to certify that Mr./Miss Pratik Shriram Kale Student of Jagadamba College of Engineering & Technology, Yavatmal has Successfully undergone Winter in Plant Industrial Training at Training Sub Centre, TPS Paras, from Dt.16/12/2019 to 11/01/2020

During the period of training his/her performance has been found to be very good.

Wish the very best his future endeavors.

CHIEF ENGINEER
MSPGCL TPS, PARAS.

Place : Paras
Date :11.01.2020

ESTD 2009

Dr.Hemant M. Baradkar
Principal
Jagadamba College of Engineering & Technology,Arni Road,Kinhi,Yavatmal

AUTOMATE ENGINEERING

Office Address 1st Floor, Malhar Pride, Shree Control Chowk, Narhe Industrial Area, Pune 43
Phone No: +91 7768999669
E-mail: connect.automate@gmail.com
Website: www.automateengg.com

INTERNSHIP CERTIFICATE

Name: Mr. Shubham Rameshrao Langade

College: Jagadambha college of engineering and technology, yavatmal

Department: Electrical Engineering

Domain of Internship: Factory Automation

Training date from: 10th June to 10th July2020

During the period of Training Program at AUTOMATE ENGINEERING, the Candidate was found punctual, hardworking and inquisitive.

For AUTOMATE ENGINEERING,

Authorized Signature

ESTD 2009

Dr.Hemant M. Baradkar
Principal
Jagadambha College of Engineering & Technology,Ami Road,Kinhi,Yavatmal

GLOBAL YES
TECHNOLOGY

CERTIFICATE OF TRAINING

The certificate is presented to

MAHAVIR RAJENDRA SISODIYA

For successfully completing 15 days "Solar Industrial Training" as part of the industrial training in our company for year June 2019.

ESTD 2009

Dr.Hemant M. Baradkar
Principal
Jagdambha College of Engineering &

Managing Director

GSTIN - 27AAXPD6861F1ZA

Vinit Transformers

Repairer of Distribution Transformers & CT/PT units

W-2, MIDC, Lohara, Yavatmal - 445001

Date: 28-07-2019

TO WHOM IT MAY CONCERN

This is to certify that Ku.Rachita Gajanan Amolekar under (Department of Electrical Engineering) has successfully completed 30 days (From 27-06-2019 to 28-07-2019) long internship program at this Branch/Company. During the period of her internship program with us, they were found punctual, hardworking and inquisitive.

We wish her every success in life.

VINIT TRANSFORMERS YAVATMAL

For, M/S Vinit Transformer, MIDC, Lohara , Yavatmal.

ESTD 2009

Dr.Hemant M. Baradkar
Principal
Jagadambha College of Engineering & Technology,Arni Road,Kinhi,Yavatmal

PRISTINE AQUATICS
Plot No. A-15, M.I.D.C., Lohara, Dist. Yavatmal 445001

Bisleri
CO - PACKER

Certificate of Internship

This is to certify that Ku.Sonali Raju Chavhan under (Department of Electrical Engineering) has successfully completed 30 days (From 20-05-2019 to 21-06-2019) long internship program at this Branch/Company. During the period of her internship program with us, they were found punctual, hardworking and inquisitive.

We wish her every success in life.

For, M/S Pristine Aquatics, MIDC, Lohara , Yavatmal.

PRISTINE AQUATICS YAVATMAL

M/S Pristine Aquatics

ESTD 2009

Dr.Hemant M. Baradkar
Principal
Jagadambha College of Engineering & Technology,Arni Road,Kinhi,Yavatmal

M/S. PACHKAWADE AGRO ENGINEERING CORPORATION

Deals in : •All Types of Pumps & Generators •HDPE/PVC Pipes and Cables •Raingun and Sprinkler Sets
• Solar and Agricultural Equipment • Oilmill / Ginning Spares Reconditioning and Fabrication Work

OFFICE : - Opposite S. T. Stand, Yavatmal, FACTORY / GODOWN : - Plot A-74, MIDC Lohara, Yavatmal
CONTACT : - 9422866992, 8975128153, E-MAIL - pachkawadeengineering@gmail.com

Date: 05/01/2020

TO WHOM IT MAY CONCERN

This is to certify that Ku. Vaibhavi Ramesh Pabale under (Dept of Electrical Engg.) has successfully completed 15 days (From 19 Dec, 2019 to 05 Jan, 2020) long internship program at this Branch/Company. During the period of her internship program with us, they were found punctual, hardworking and inquisitive.

We wish her every success in life.

For, M/S Pachkawde Agro Engineering Corporation.

Aurthorised Sugnature

ESTD 2009

Dr.Hemant M. Baradkar
Principal
Jagadamba College of Engineering & Technology,Arni Road,Kinhi,Yavatmal

GeeksLAB
C-7/233, Sector-7, Rohini, Delhi, 110085

Internship Certificate

This is to certify that Ku. Roshani Rathod student of Jagadamcha College of engineering and Technology, Yavatmal has successfully completed his/her online internship as **Android Application Developer**. He/she was involved in all the activities related to mobile app development. He was dedicated and desciplined during the entire duration. Internshiup details are as below

Start Date: 15th June 2019

End Date: 15th April 2020

We wish him/her all the very best for future endeavours.

Head Training
Geekslab Technogies Pvt. Ltd.

ESTD 2009

Dr.Hemant M. Baradkar
Principal
Jagadambha College of Engineering & Technology,Arni Road,Ninai,Yavatmal

GANDHAM TOW
NEW BOWENPALLY, SO
HYDERABAD, TELANG
info@betabluefoundatio
www.betabluefoundatio

BBF

BELIEVE IN EXCELLENCE

INTERNSHIP COMPLETION LETTER

This is to certify that Ku. Ashwini Manohar Bhele has completed online internship project at beta Blue Foundation in development from 10/10/2019 to 04/04/2020. During the internship period he/she worked in Following Technologies:

- C# language
- ASP.Net Technology
- SQL server Database

During his/her internship we found very respective , intellegent,motivated and hard-working person.

We wish him/her very best in future endeavors.

Regards,
HEAD HR MANAGER

AVINASH CHAUHAN

BETA BLUE FOUNDATION

ESTD 2006

Dr.Hemant M. Baradkar
Principal
Jagadambha College of Engineering &
Technology Yavatmal (M.S.)

Thetechintern
PARMANAND APARTMENT, 4TH FLOOR, INDORA
SQUARE, NAGPUR, MAHARASHTRA 440017

+91 9112233473 /2/1
HELLO@THETECHINTERN.COM

INTERNSHIP LETTER

July 17, 2019

TO WHOM IT MAY CONCERN

This is to certify that **Rushikesh Nachane** has undergone his Internship with TheTechintern, Nagpur from **17th june 2019** to **17th July 2019**.

During the internship he worked on different modules of company projects and demonstrated good skills in **Data Science and Machine learning, Python, Web Penetration and Ethical Hacking.** He was diligent and enthusiastic with zeal to do best on his Project.He also assisted in technical documentation and modification.

He demonstrated good designing and coding skills.He has excellent written and verbal communication skills, is well organised can work independently and is able to effectively multi task to ensure that the assignments are looked after and completed in a professional and timely manner.

We wish **Rushikesh Nachane** the very best for his career and future endeavours.

Authorised Signatory
Mahesh Rakhoja, Director, TheTechintern

ESTD 2009

Dr.Hemant M. Baradkar
Principal
Jagadambha College of Engineering & Technology,Arni Road,Yavatmal

e: Off : 2nd Floor, Above
Janata Bank,
arvenagar, Pune, 411052
mail: hr1@ssptechnosys.com
ww.ssptechnosys.com

SSP TECHNOLOGY

REF: INT-SSP/1063-2019

Date: 26/07/2019

TO WHOM IT MAY CONCERN

This is to certify that **Ms. Ashwini Manohar Bhele** student of has completed a Two Month internship on **"Web development Technology"** as a partial fulfillment of requirement towards of her Internship program.

Duration- 24th May 2019 to 25th July 2019

During the period of internship with us she was found punctual, hardworking and inquisitive. As abided by intellectual property and confidentiality policy of SSP Technology Pune. She is unable to produce the source code of above mentioned project.

We wish her every success in life.

AUTHORIZED PERSON SIGN

SSP TECHNOLOGY PUNE

SSP TECHNOLOGY PUNE

ESTD 2009

Dr. Hemant M. Gaikwad
Principal
Jagadambha College of Engineering & Technology, Airoli Road, Pune 411044

Raymond UCO
Denim Private Limited
India . Romania . Belgium
Raymond UCO Denim Pvt. Ltd.
Plot E 1/4 C1, MIDC, Lohara, Yavatmal - 445 001.
Maharashtra, India
Tel: 91-7232-304500 / 304545
Fax: 91-7232-249231
www.raymond.in

RUDPL/HR&A/YTML/2019

27/09/2019

To Whomsoever It May Concern

This is to certify that Mr .Pawan G. Butke student of Jagdambha college of Engineering,Yavtmal has successfully completed his implant training at Raymond UCO Denim Pvt. Limited, Yavatmal for the period from to 07/07/2019 to 07/08/2019.

He was found to be hardworking, enthusiastic and cooperative in his approach and completed his implant training satisfactorily.

For Raymond UCO Denim Pvt. Limited

C.M. Paturkar
Sr. Manager-HR& Admin

ESTD 2009

Dr.Hemant M. Garadkar
Principal
Jagadambha College of Engineering & Technology,Amt Road,Kinhi,Yavatmal

प्रति

दिनांक

15/12/2015

जगदंबा अभियांत्रिकी

महाविद्यालय यवतमाळ

विषय : Handed Report Engineer या प्रशिक्षण करीता.

महोदय,

प्रशासनाची कौशल्य विकास योजनेचा शैक्षणिक अभ्यास
हे MRE प्रशिक्षण संस्था व त्यांचा कार्यालयी
दिनांक 25/12/15 ते 2./01/2016 पर्यंत
उपस्थित. राहणे आवश्यक आहे. MRE प्रशिक्षण
होण्याचा आग्रह आहे. तरिही शैक्षणिक विद्यार्थी
चा कार्यालयीमधे प्रशिक्षण होणार आहे. व प्रमाणित

विद्यार्थ्यांचे नावे

1) कु. [illegible]
2) कु. [illegible]
3) कु. [illegible]

Dr.Hemant M. Baradkar
Principal
Jagadambha College of Engineering &
Technology, Amt Road, Ninhi, Yavatmal

HONDA

Date: 05/01/2020

To Whom So Ever IT May Concern

This is to certify that Pavan Vishnu Patwekar has completed apprenticeship in Raajiv Honda Workshop from 19/12/2019 till 05/01/2020.

During this period her work was found satisfactory.

We wish her luck for future endeavors.

For Raajiv Autoworld (P) Ltd

HR Manager

RAAJVI AUTOWORLD PVT. LTD. HONDA

ESTD 2009

Dr.Hemant M. Baradkar
Principal
Jagadambha College of Engineering & Technology,Arni Road,Kinhi,Yavatmal

Raajvi Honda Plot-1B, Wadgaon, Arni Road, Yavatmal- 445001
Tel: 07232-244910,242420

M/S. PACHKAWADE AGRO ENGINEERING CORPORATION

Deals in : •All Types of Pumps & Generators •HDPE/PVC Pipes and Cables •Raingun and Sprinkler Sets
• Solar and Agricultural Equipment • Oilmill / Ginning Spares Reconditioning and Fabrication Work

OFFICE : - Opposite S. T. Stand, Yavatmal. FACTORY / GODOWN : - Plot A-74, MIDC Lohara, Yavatmal
CONTACT: - 9422866992, 8975128153, E-MAIL:- pachkawadeengineering@gmail.com

Date: 16/06/2019

TO WHOM IT MAY CONCERN

This is to certify that Pranav Vijay Satpute under (Dept of Mechanical Engg.) has successfully completed 15 days (From 2-06-2019 to 16-06-2019) long internship program at this Branch/Company. During the period of her internship program with us, they were found punctual, hardworking and inquisitive.

We wish her every success in life.

For, M/S Pachkawde Agro Engineering Corporation.

Aurthorised Sugnature

Dr.Hemant M. Baradkar
Principal
Jagadambha College of Engineering & Technology,Amil Road,Kinhi,Yavatmal

ESTD 2009

HARIKRUPA BUILDERS

Ph.: 020-26836868, 020-26837868 • E-mail : krishnalohokare@ymail.com

Ref :

Date :

Date: 15/07/2019

TO WHOM IT MAY CONCERN

This is to certify that Ms. Shivani Sanjayraolumde (Dept. of Civil Engg.) has successfully completed one month (From 15th June, 2019 to 15th July, 2019) long internship programme at this Branch/Company. During the period of her internship programme with us, she was found punctual, hardworking and inquisitive.

We wish her every success in life.

For, HARIKRUPA BUILDERS

HARIKRUPA BUILDERS NIBM PUNE-48

Authorized Signature

ESTD 2009

Dr.Hemant M. Baradkar
Principal
Jagadambha College of Engineering & Technology,Amsi Road,Kimbi,Yavatmal

Balaji Construction

Er.Santosh Sapate
Cell - 9726330460
9960109681

Consulting Civil Engineer
& Approved Valuer
• Plan • Estimate • Valuation
• 3D Elevation • R.C.C. Design

Office: Bharti Complex, in front Of Gramin Police Station Darwha Road, Yavatmal
Email- sapate_san@rediffmail.com

TO WHOM IT MAY CONCERN

This is certify that, Mr./Miss **Mangesh S. Navghare** students of JAGADAMBHA COLLEGE OF ENGINEERING AND TECHNOLOGY, YAVATMAL had successfully completed the industrial training at Balaji construction Yavatmal from 02/12/2019 to 30/12/2019.

From, Balaji Construction

Dr.Hemant M. Baradkar
Principal
Jagadambha College of Engineering &
Technology,Ami Road,Kinhi,Yavatmal

SP Interiors & Construction Work

Dhamangaon Bypass,Lohara, Yavatmal-445001
+91 8149424278
shyam.Prajapati90@gmail.com

Date: 30/12/2019

TO WHOM IT MAY CONCERN

This is to certify that Mr. /Miss **Abhishek V.Gughane** (Dept. Of Civil Engg.) has successfully completed one month (From 1st Dec 2019 to 30th Dec 2019) long internship program at this Branch/ Company during the period of his/her internship program with us, it was found punctual, hardworking and inquisitive.

We wish you every success in life.

From, SP Interiors & Construction works

ESTD 2009

Dr.Hemant M. Baradkar
Principal
Jagadambha College of Engineering & Technology,Arni Road,Kinhi,Yavatmal

ISO 9001 : 2015 CERTIFIED
DB ROSOFT

MDB Electrosoft
Reg. No. 27-007-21-00050

Ref. No. :- MDBES/301218/19

Date :- 30/12/2018

This is to certify that

Ms. *Sayli Prashantrao Bhalme*

has done her Full Time internship of 18 Days (13th Dec 2018 - 30th Dec 2018) at MDB Electrosoft.

During Internship she has gone through

1. Basics of Electronics
2. PCB Designing
3. Embedded System Design using Arduino
4. Embedded System Design using Raspberry Pi
5. IoT (Internet of Things)

During the Internship she demonstrated good development skills with a self motivated attitude to learn new things. Her performance exceeded expectations and was able to complete the projects successfully on time.

We wish her all the best for her future endeavours.

MDB ELECTROSOFT Reg No 27-007-21-00050 INDIA

M.D.Bharati
Director
MDB Electrosoft

ESTD 2009

Dr.Hemant R. Baradkar
Principal
Jagadambha College of Engineering &

Add :- Rajapeth - Ambadevi Road,
near Oswal Bhavan,Amravati
444601 MH-INDIA

www.mdbelectrosoft.in
mdbelectrosoft@gmail.com
Cont. :- 9604922180,9552811988

ISO 9001:2015 CERTIFIED

MDB Electrosoft

REG. NO. 27-007-21-00050

Date :- 30/12/2018

Ref. No. :- MDBES/3012/18/11

This is to certify that

Mis. Prachi Ramesh Bhongade

has done her Full Time internship of 18 Days (13th Dec 2018 - 30th Dec 2018) at MDB Electrosoft.

During Internship she has gone through

1. Basics of Electronics
2. PCB Designing
3. Embedded System Design using Arduino
4. Embedded System Design using Raspberry Pi
5. IoT (Internet of Things)

During the Internship she demonstrated good development skills with a self motivated attitude to learn new things. Her performance exceeded expectations and was able to complete the projects successfully on time.

We wish her all the best for her future endeavours.

MDB ELECTROSOFT Reg. No. 27-007-21-00050 PUNE

30/12/18

M.D.Bharati
Director
MDB Electrosoft

ESTD 2009

Dr.Hemant M. Baradkar
Principal
Jagadambha College of Engineering & Technology, Yavatmal

Add :- Rajapeth - Ambadevi Road,
near Oswal Bhavan,Amravati
444601 MH-INDIA

www.mdbelectrosoft.in
mdbelectrosoft@gmail.com
Cont :- 9604922180,9552811930

GSTIN - 27AAXPD6861F1ZA

Vinit Transformers

Repairer of Distribution Transformers & CT/PT units

W-2, MIDC, Lohara, Yavatmal - 445001

Date: 19-12-2018

TO WHOM IT MAY CONCERN

This is to certify that Mr. Nilesh Chandrakant Bodhale under (Department of Electrical Engineering) has successfully completed 15 days (From 03-12-2018 to 19-12-2018) long internship program at this Branch/Company. During the period of him internship program with us, they were found punctual, hardworking and inquisitive.

We wish him every success in life.

YAVATMAL

For, M/S Vinit Transformer, MIDC, Lohara , Yavatmal.

ESTD 2009

Dr.Hemant M. Baradkar
Principal
Jagadambha College of Engineering & Technology,Arni Road,Kinhi,Yavatmal

Balaji Construction

Er.Santosh Sapate
Cell - 9726330460
9960109681

Consulting Civil Engineer
& Approved Valuer
• Plan • Estimate • Valuation
• 3D Elevation • R.C.C.Design

Office: Bharti Complex, in front Of Gramin Police Station Darwha Road, Yavatmal
Email- sapate_san@rediffmail.com

TO WHOM IT MAY CONCERN

This is certify that, Mr./Miss **Snehal M. Kherde** students of JAGADAMBHA COLLEGE OF ENGINEERING AND TECHNOLOGY, YAVATMAL had successfully completed the industrial training at Balaji construction Yavatmal from 01/12/2018 to 30 /12/2018.

Sapate

From, Balaji Construction

ESI 2005

Dr.Hemant M. Baradkar
Principal
Jagadambha College of Engineering & Technology,Ajni Road,Kinhi,Yavatmal

A C S
AUTOMATION & CONTROL SYSTEMS
House of Industrial Automation
PLC, Drives, Scada Software & Training

Certificate

Dt 30.6.2018

This is to certify that MR/Ms **Swapnil Digambar Kale** has completed a 4 week internship on PLC , SCADA , ABB Robot .

During this period we have found him / her to be sincere and very hardworking and result oriented student.

We wish him Best Wishes for his future.

For Automation & Control Systems

Saurabh Ahelleya
Project Manager

Dr. Hemant M. Baradkar
Principal
Jagadambha College of Engineering & Technology, Ami Road Khola, Yavatmal

ESTD 2009

Dr.Hemant M. Baradkar
Principal
Jagadambha College of Engineering & Technology,Ami Road Khola,Yavatmal

Head Office : "ACS" Plot No 144-A, Sector 7, PCNDTA, MIDC, Bhosari, Pune 411026 (India)
Tel. / Fax : +91-20-27119405 / 505 / 27129361 • E-mail : sales@pictrg.com • Website : www.acs-india.com : www.pictrg.com
Branches At : Mumbai, Delhi, Chennai, Pinjore, Nagpur, Nashik, Solapur, Surat, Rajkot, Bhopal

JAGADAMBHA BAHUUDDESHIYA GRAMIN VIKAS SANSTH'S

JAGADAMBHA

COLLEGE OF ENGINEERING & TECHNOLOGY, YAVATMAL

COLLEGE CODE EN-1127

Approved by A.I.C.T.E. & Government of Maharashtra. Affiliated to S.G.B. Amravati University, Amravati.

Dr. Hemant M. Baradkar
M.Tech. (Electronics), Ph.D. (E & TC. Engg.)
Principal

Dr. Shital A. Watile
M.Sc., Ph.D.
Secretary

JCET/17-18/1272

Date: 25/05/2018

To,
The HR Manager,
Mahindra and Mahindra Ltd.
Nagpur

Subject: Request Letter for Industrial Training.

Respected Sir/Mam,

The Students of **Second Year Mechanical Engineering** of Jagadambha College of Engineering & Technology, Yavatmal are interested to undertake Vocational Education and Training at your prestigious organization from **10th June to 10th July 2018.** This training will help them to pursue and learn the practical aspects of theory learnt in the classroom.

Following is the list of interested candidate.

1. **Piyush Dawale**
2. **Dhiraj Sonkusre**
3. **Vaibhav Mainde**
4. **Ram Eklare**
5. **Siddhant Gajbhiye**

Hence, we humbly request you to permit them to undergo the Industrial Training.

Thanking you!

Dr. Hemant M. Baradkar
Principal
Jagadambha College of Engineering & Technology, Arni Road, Karla, Yavatmal

ESTD 2009

Principal
Jagadambha College of Engineering & Technology, Yavatmal

ARNI ROAD, YAVATMAL - 445001 (M.S) INDIA
Tel. / Fax : 07232-297444 Mob. : 9011583249

MAHATRANSCO
Maharashtra State Electricity Transmission Co. Ltd.

MAHARASHTRA STATE ELECTRICITY TRANSMISSION CO. LTD.

PRAKASHGANGA, PLOT NO. C-19, E-BLOCK, BANDRA KURLA COMPLEX,
BANDRA (EAST), MUMBAI - 400
RECOGNIZED BY CENTRAL ELECTRICITY AUTHORITY (CEA)

Certificate

This Certificate is awarded

To

Ku./Mrs./Shri Vaishnavi B. Shende

On successfully completion of

"INDUSTRIAL TRAINING COURSE"

w.e.f. 04/06/2018 *to* 22/06/2018

at

"DNYANDEEP REGIONAL TRAINING CENTRE"
CHANDRAPUR

Under EHV PC (O&M) Zone, Nagpur.

Dr. Hemant M. Baradkar
Principal
Jagadambha College of Engineering & Technology, Amt Road, Kondi, Yavatmal

ESTD 2009

Superintending Engineer &
Training Incharge
HVDC RS O&M CIRCLE
CHANDRAPUR

Date : 22 - June - 2018

MAHATMA GANDHI INSTITUTE FOR RURAL INDUSTRIALISATION

(A National Institute under Ministry of MSME, Govt. of India)

महात्मा गांधी ग्रामीण औद्योगीकरण संस्थान

(सूक्ष्म, लघु और मध्यम उद्यम मंत्रालय, भारत सरकार के अंतर्गत राष्ट्रीय संस्थान)

मगनवाडी, वर्धा. ४४२००१, महाराष्ट्र

MGIRI/REI/TC/76/2018-19

प्रमाण-पत्र

CERTIFICATE

कु. अंकिता कि. देविकर ने महात्मा गांधी ग्रामीण औद्योगीकरण संस्थान, वर्धा के ग्रामिण ऊर्जा एवं अवसंरचना विभाग में दिनाँक 11 जून से 25 जून 2018 तक " सौर चलित एल. ई. डी लाईट उत्पादक" का उद्यमिता प्रशिक्षण सफलतापूर्वक प्राप्त किया ।

Ms. Ankita K. Devikar has successfully completed entrepreneurial training programme during the period from 11th June to 25th June 2018 on " **Solar Based LED Light Manufacturing System**" organized by Rural Energy and Infrastructure Division, Mahatma Gandhi Institute for Rural Industrialization, Wardha.

वरिष्ठ वैज्ञानिक अधिकारी
ऊर्जा एवं अवसंरचना विभाग,एमगिरि, वर्धा
SENIOR SCIENTIFIC OFFICER (REI)
MGIRI, Wardha

उप निदेशक
ऊर्जा एवं अवसंरचना विभाग,एमगिरि, वर्धा
DY. DIRECTOR (REI)
MGIRI, Wardha

Dr. Hemant M. Sarauthar
Principal

Deputy Director
Energy and Infrastructure
Mahatma Gandhi Institute for
Rural Industrialisation
Maganwadi, WARDHA-442001

ESTD 2009

BSNL
Corporate Office

REGIONAL TELECOM TRAINING CENTRE, NAGPUR

Opp. TV Tower, Seminary Hills, Nagpur - 440006
Website: www.rttcnagpur.bsnl.co.in Email: rttcnagpur.ho@bsnl.co.in

CERTIFICATE

Internship In Telecommunication

This is to certify that SHUBHAM SAHEBRAOJI JAYAPURKAR has successfully Completed INTERNSHIP IN TELECOMMUNICATION w. e. f. 11/06/2018 to 22/06/2018 at Regional Telecom Training Centre, Nagpur.

RTTC Nagpur wishes him/her a bright future.

Certificate No. RNGMGNB681-2018-2078010 [redacted]

Course Code : RNGMGNB681 Course Schedule Code : RNGMGNB681-2018-2078

Date: 22/06/2018

Divisional Engineer(Admn)
RTTC Nagpur

Dr. Hemant M. Bandkar
Principal
Jagadambha College of Engineering & Technology, Ami Road, Kinhi, Yavatmal

ESTD 2009

Registered and Corporate Office : Bharat Sanchar Bhawan , H.C. Mathur Lane, Janpath, New Delhi-110001
Corporate Identity Number (CIN): U74899DL2000GOI107739

Dr. Hemant M. Bandkar
Principal
Jagadambha College of Engineering & Technology, Ami Road, Kinhi, Yavatmal

ESTD

YOGIRAJ

YOGIRAJ [illegible]
Gajanan Nagar,
Arvi Road Plot No. 7
Wardha 442001
E-mail: -pankaj.warghane@gmail.com
Contact No:- +91-9975762175

PO No: YC/CPO/004

Date: 22/06/2018

CERTIFICATE

This is to certify that Vaishnavi R. Deshmukh Student of J.C.O.E.T Branch EXTC successfully completed one Day industrial training in our organization, on 21st of June 2018.

We found her/him active and competent in executing all assigned task. She/he is hard-working, and a devoted and motivated Trainee whose dedication in taking initiative and contribution for the realization of organizational goals and objectives has proven helpful in the advancement of our establishment repeatedly.

During her training she/he was rated as follows –

Attributes	Excellent	Good	Average
Punctuality		✓	
Conduct		✓	
Intitative		✓	

We wish her/him good luck.

Signature:-

Name : Mr. Pankaj Warghane

Director Yogiraj Controls Wardha

Dr. Hemant M. Tayde
Principal
Jawaharlal Darda College of Engineering & Technology
Yavatmal (M.S.)

ESTD 2009

MAHAGENCO
ISO 9001:2000
ISO 14001:2004

Maharashtra State Power Generation Co Ltd
Thermal Power Station, Parli – Vaijanath
Parli-Vaijanath, Pin 431520, Dist Beed (MS)
Phone: 02446-222537, 38, 39, Fax: 02446-222492
email: ...

Ref: CE/ GEN/ PRL/In Plant Trg/ 004674 Date: 20 JUL 2017

CERTIFICATE

This is to certify that ***Mr. Revenwar Onkar Manish,*** **Electrical Engineering (Second Year)** student of **Jagdambha College of Engineering & Tech, Yavatmal.** Has successfully undergone the **In Plant Training** at **BM -250 MW Section** in Thermal Power Station, Maharashtra State Power Generation Company Ltd, Parli during the period **19.06.2017 to 25.06.2017** .

Dr. Hemant M. Bandbar
Principal
Jagdambha College of Engineering & Technology, Yavatmal

ESTD 2009

Dy.Chief Engineer (Admn.)
Mahagenco, T.P.S., Parli-V

F.No. J-11013/6/2018-IA-I(M)
Government of India
Ministry of Environment, Forest and Climate Change
IA Division
*****

Indira Paryavaran Bhawan,
Jor Bagh Road, Aliganj
New Delhi-110 003

Dated 10th July, 2018

OFFICE MEMORANDUM

Subject: Summer Internship Scheme for 2018-19 nomination of candidates.

The undersigned is directed to refer to letter no A-33015/1/2016-P I dated 5.07.2018 on the above subject and to say that the following candidates have been selected for internship programme by IA Division and attached to the officers as mentioned below-

S.no	Name of Candidates	Name of Officers/ Sectors	Contact no. of Candidates
1	Sh. Kamlesh S. Padhen	Dr. S.K. Kerketta, Director (Hydro)	7972767593
2	Sh. Rasheed Ullah Khan	Sh. Kushal Vashist, Director (Infra- II)	8605612454
3	Sh. Sandeep Yadav	Dr. S.K. Kerketta, Director (Thermal)	9806746751
4	Ms. Shivani Verma	Sh. S.K. Palleria, Director (Industry I)	9599250312
5	Ms. Simran	Sh. R.K. Kodali, Director (Infra -I)	9560409388
6	Sh. Vaibhavkumar P. Jaswal	Dr. R.B. Lal , AD (Non- Coal)	9503208851
7	Sh. Ashutosh Dwivedi	Sh. Amit Vashisth, Scientist- D (Non-Coal)	9009731269
8	Ms. Nikita Yadav	Sh. S.K. Srivastav, AD. (Industry II)	8448048087
9	Sh. Alok Meena	Sh. Satyendra Kumar, DS. (CP)	7023775199

All the Above 9 candidates have joined in IA Division on 10.07.2018 (FN) for the Internship Programme.

(S.D. Tiwari)
Under Secretary (IA)

To

Shri S R Amin
Under Secretary (P-I)

Dr. Hemant M. Baradkar
Principal
Jaywantrao College of Engineering & Technology, Amt Road, Kirti, Yavatmal

Copy to :-

1. Officers concerned.
2. All the Above Candidates.

DREAMS
MEDIA SOLUTIONS

Regd. No. 1892/2009

408, Nilgiri Block, Aditya Enclave, Ameerpet, Hyderabad-38. Ph: 09985943539

Certificate of Merit

This is to certify that

Mr. / Ms. / Mrs. SHRIKANT N.GELEWAR

has successfully completed ELECTRICAL CAL CAD

from 18-01-2016 *to* 18-02-2016

and has obtained "A" *Grade*

DREAMS MEDIA SOLUTIONS DIRECTOR HYD.

Date: 18-02-2016

E - Excellence (96% - 99%) A - Very Good (76% - 95%) B - Good (61% - 75%) C - Satisfactory (46% - 60%)

Dr. Hemant M. Baradkar
Principal
Jagadambha College of Engineering & Technology, Yavatmal

C.No. 2078

Date : 25 JUN 2016

MAHA GENCO

Maharashtra State Power Generation Co. LTD.

Certificate

This is to certify that

Mr.Gaurav Kisan Pawar, has undergone In-Plant Summer Training 2016

at Bhusawal Thermal Power Station, Deepnagar.

From 30th May 2016 to 25th June 2016.

The learning progress during the training has been assessed to be Excellent.

Course Director
BTPS,Deepnagar

Dr.Hemant M. Baradkar
Chief Engineer
BTPS,Deepnagar

MAHAGENCO

Maharashtra State Power Genration Co. Ltd.

Thermal Power Station Paras

Dist Akola 444 109

ISO 9001 : 2008 & 14001 : 2004 Certified

Certificate

This is certify that Mr./Mrs. Prawesh Rajesh Meshram

student of Jagadambha College of Engineering & Technology, Yavatmal

Year / Semister Third Year has undergaon Four Weeks in plant

industrial practical training at TPS Paras, Tq. Balapur Dist: Akola during

summer vacation training from date 1-Jun-16 to 30-Jun-16

Place: Paras
Date: 30 Jun 2016

Chief Engineer
MSPGCL TPS PARAS

Dr.Hemant M. Baradkar
Principal
Jagadambha College of Engineering &
Sum Road, Kinhi, Yavatmal

Ref. No. HR/ Training/ 16-17/ 031

Date: July 08, 2016

To whom so ever it may concern

This is to certify that **Ms. Aishwarya Gajanan Karnewar** student of Final Year B.E (Electrical Engineering) from Jagdambha College of Engineering & Technology, Yavatmal, has satisfactorily completed her summer internship with us, as per following details:

Name of the Department	: Operations & Maintenance (Electrical)
Duration	: 10th June' 2016 to 07th July' 2016

During her internship period we found her sincere.

We wish her all the success in her future endeavor.

For RattanIndia Power Limited

Authorized Signatory

Dr.Hemant M. Baradkar
Principal
Jagadambha College of Engineering & Technology,Arni Road,Kiran, Yavatmal

प्रमाण पत्र संख्या 45948
Certificate No.

Skill India

प्रशिक्षण महानिदेशालय

Directorate General of Training

कौशल विकास एवं उद्यमिता मंत्रालय

Ministry of Skill Development and Entrepreneurship

भारत सरकार

Government of India

CERTIFICATE OF PROFICIENCY

Certified that: प्रमाणित किया जाता है

Shri/Smt/Kumari श्री / श्रीमती / कुमारी SNEHA NARAYAN KHARKAR

Son/Daughter/Wife of Shri सुपुत्र / सुपुत्री / पत्नी श्री NARAYAN KHARKAR

has successfully completed the training programme as per details given below and awarded this certificate/ ने सफलतापूर्वक नीचे दिए गए विवरण के अनुसार प्रशिक्षण प्राप्त किया जिसके तहत इस प्रमाण पत्र से सम्मानित किये जाते है

Name of the course / पाठ्यक्रम का नाम "AC ELECTRIC MOTORS- TESTING, OPERATION & MAINTENANCE"

Course conducted at / पर पाठ्यक्रम का आयोजन ADVANCED TRAINING INSTITUTE

Duration of the course / पाठ्यक्रम की अवधि TWO WEEKS

From / से 11.07.2016 To / तक 22.07.2016

Deputed / Private / प्रतिनियुक्त / निजी PRIVATE

GOVT. OF INDIA
ADVANCED TRAINING INSTITUTE
V.N. PURAV MARG, SION,
MUMBAI-400 022
MINISTRY OF SKILL DEVELOPMENT & ENTREPRENEURSHIP

Place/स्थान : MUMBAI

Date/दिनांक : JULY 22, 2016

निदेशक
DIRECTOR

(ISO 29990 - 2010 CERTIFIED)

Dr. Hemant M. Baradkar
Jagdambha College of Engineering &
Technology, Arni Road, Kirti, Yavatmal

MAHAGENCO

MAHARASHTRA STATE POWER GENERATION COMPANY LIMITED

CHANDRAPUR SUPER THERMAL POWER STATION, CHANDRAPUR - 442 404

AN ISO 9001. 14001 & OHSAS 18001 UNIT

Certificate

INDUSTRIAL TRAINING COURSE

This is to certify that,

Mr. / Mrs. / Miss Madhuri Wasudeo Wadekar

Student from Jagadambha College of Engineering and Technology, Yavatmal *of* 7th *sem.*

Has successfully completed Industrial Training Course at

Chandrapur Super Thermal Power Station,

Chandrapur.

From 15th dec. 2016 *to* 7th Jan. 2017.

This certificate is issued to him / her for successfully completion of Industrial Training with satisfactory performance.

Dr.Hemant M. Baradkar
Principal
Jagadambha College of Engineering & Technology, Ashti Road, Kinhi, Yavatmal

ESTD 2009

Date : 7 JAN 2017
Place : CSTPS, CHANDRAPUR

CHIEF ENGINEER
CSTPS : CHANDRAPUR

MAHAGENCO

Maharashtra State Power Generation Co. Ltd.

Thermal Power Station Paras

Dist. Akola 444 109

ISO 9001 : 2008 & 14001 : 2004 Certified

Certificate

This is to certify that Mr./ Mrs. Hemant V. Chunarkar

Student Of Jagadambhia College of Engineering & Technology, Yavatmal

Year/ Semister Final Year has successfully undergaon Three Weeks

In Plant Industial Practical Training at TPS Paras, Tq. Balapur Dist. Akola

during Winter Vacation Training from date 19 Dec.16 To 07 Jan. 17

During the period of training his/ her performance has been found to be very good.

We wish the very best for his/ her future endeavors.

Chief Engineer

MSPGCL TPS PARAS

Place : Paras

Date: 07 Jan. 2017

Dr.Hemant M. Baradkar

Principal

Jagadambha College of Engineering & Technology,Adrl Road,Kinhi, Yavatmal

Date: 18.07.2016

To Whom so ever it may concern

This is to certify that **Miss Shirin R. Sheikh** has been successfully completed the industrial training at Protelegra IT Solutions Pvt. Ltd., Nagpur from 13th June 2016 to 16 July 2016. She has relieved from the organization on the closure of 16th July 2016.

Miss Shirin R. Sheikh is an effective and assiduous individual with exemplary conduct and has an unblemished career record with us. We always appreciated her sincere work, dedication and quest for professional excellence.

We wish her all the best in future endeavors.

For Protelegra IT Solutions Pvt. Ltd. Nagpur

Mr. Vijay Thakare
Director

Dr. Hemant M. Baradkar
Principal
Jagadambika College of Engineering & Technology, Amt Road, Hanuman Nagar, Yavatmal

3DOT Technologies

3DOT Technologies CERTIFIED

CERTIFICATE

3DOT Technologies Awards this Certificate to

Mrunali Kawalkar

and verifies that the above has successfully completed :
One-Month Internship in Web Development.

Issued on: 04 July 2017

3DOT Technologies

Dr. Hemant M. Baradkar
Principal
Issuing Authority

MANIKGARH CEMENT

[illegible]

CIN [illegible]

Date: [illegible] 2015

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. Shivam R. Ingole**, a [illegible] year student of [illegible] Jagadambha College of Engineering & Technology, Yavatmal [illegible] has done "**Industrial Training**" in the [illegible] of [illegible] Organization from 08.06.2015 to 19.06.2015.

He has successfully completed his Industrial Training.

For MANIKGARH CEMENT

(Avinash Sapre)
Dy General Manager (HRD)

Dr. Hemant M. Baradkar
Principal
Jagadambha College of Engineering & Technology, Arni Road, Kinhi, Yavatmal

ESTD [illegible]

[illegible]

Mumbai Office: [illegible]

Regd. Office: [illegible] Century Bhavan, Dr. Annie Besant Road, Worli, MUMBAI - 400 030

Phone: [illegible] • Fax: [illegible] • Email: [illegible]

महाराष्ट्र राज्य मार्ग परिवहन महामंडळ, यवतमाळ विभाग, यवतमाळ

जा.क्र. रापं/यवत/विनि/प्रशा/ 3675
विभाग नियंत्रक यांचे कार्यालय
म.रा.मा.प. महामंडळ यवतमाळ विभाग
दि. 24/12/2016

प्रति,

मा. प्राचार्य
जगदंबा कॉलेज ऑफ इंजिनिअरिंग
ॲन्ड टेक्नॉलॉजी, यवतमाळ

विषय :- औद्योगिक प्रशिक्षण पूर्ण झाल्याबाबत.
संदर्भ :- JCET -16-17/420 Dt. 15/11/2016

महोदय,

उपरोक्त संदर्भीय विषयान्वये आपणास कळविण्यात येते की, आपल्या जगदंबा कॉलेज ऑफ इंजिनिअरिंग ॲन्ड टेक्नॉलॉजी, यवतमाळ मधील खालील विद्यार्थ्यांनी दि. 22/12/2016 ते दि. 24/12/2016 पर्यंत विभागीय कार्यशाळा रा.प. यवतमाळ येथे 03 दिवसाचे औद्योगिक प्रशिक्षण पूर्ण केलेले आहे. त्यांचे नाव खालील प्रमाणे.

अ.क्र.	विद्यार्थ्यांचे नांव
1.	मनमोहन दिलीपराव इंगोले
2.	जितेंद्र मनोहरराव पायघन
3.	रामकृष्ण महादेव ढेंगाळे

आपले माहितीकरिता.

विभाग नियंत्रक
राज्य परिवहन यवतमाळ

Dr.Hemant M. Baradkar
Principal
Jagadamba College of Engineering & Technology, Amt Road, Yavatmal

T.A.P.
26.12.16

MAHAGENCO

MAHARASHTRA STATE POWER GENERATION CO. LTD.

KORADI TRAINING CENTRE , KORADI, NAGPUR. 441111

(INTEGRATED MANAGEMENT SYSTEM CERTIFIED UNIT)

Certificate

VACATION TRAINING

Batch VT- 88

This is to certify that,

Mr. / Miss Shubham P. Duddalwar

Student from Jagadambha CoET Yavatmal

of VII sem. Mechanical branch

Has successfully completed Industrial Training Conducted at

Koradi Training Centre, Koradi

From 19-12-16 to 7-1-17 (20 days)

Date : 7-1-2017

COURSE DIRECTOR
KTC, MAHAGENCO, KORADI

S.E. (TRG.)
KTC, MAHAGENCO, KORADI

CHIEF ENGINEER (TRG.)
KTC, MAHAGENCO, KORADI

Dr. Baradkar
Principal

Raymond UCO

Denim Private Limited

RUDPL/HR&A/YTML/2015 06/07/2016

To Whomsoever It May Concern

This is to certify that Mr. Atique R. Sheikh student of Jagadambha College Of Engineering & Technology, Yavatmal has successfully completed his inplant training at Raymond UCO Denim Pvt. Limited, Yavatmal for the period from to 21/06/2016 to 05/07/2016.

He was found to be hardworking, enthusiastic and cooperative in his approach and completed his inplant training satisfactorily.

For Raymond UCO Denim Pvt. Limited

Prashant Dighe
Head-HR & Admin

Dr.Hemant M. Baradkar
Principal
Jagadambha College of Engineering & Technology, Arni Road, Kirha, Yavatmal

Jagadambha Bahuuddeshiya Gramin Vikas Sanstha's

JAGADAMBHA

COLLEGE OF ENGINEERING & TECHNOLOGY, YAVATMAL

Reg. No. F - 7596 (Ytl.)

Date: 23/11/2016

To,
The HR,
Central Institute Of Tool Design,
Hydrabad

Subject: Request Letter for Industrial Training.

Respected Sir,

The Students of **Third year MechanicalEngineering**of Jagadambha College of Engineering & Technology, Yavatmal is interested to undertake an Industrial Training at your prestigious organization from 30th Dec to 29th Jan 2017. This training will helphimto pursue and learn the practical aspects of theory learnt in the classroom.

Following is the list of interested candidate.

1. **Shivam Ingole**

Hence,we humbly request you to permit him to undergo the Industrial Training.

Thanking you!

Principal,
Jagadambha College of Engineering &Technology,

Principal
Jagadambha College of Engineering & Technology, Arni Road, Yavatmal

ESTD 2000

Dr.Hemant D. Baradkar
Principal
Jagadambha College of Engineering & Arni Road, Yavatmal

ARNI ROAD, YAVATMAL - 445 001 (M.S.) INDIA
Tel : (07232) 244226, Fax : (07232) 244226 Mob. 9096548670
Website : www.jcoet.org E-mail : principal@jcoet.org

Jagadambha Bahuuddeshiya Gramin Vikas Sanstha's

JAGADAMBHA

COLLEGE OF ENGINEERING & TECHNOLOGY, YAVATMAL

Reg. No. F - 7596 (Ytl.)

Date: 23/05/2016

To,
The HR,
Bhusawal Thermal Power Station,
Deepnagar, Maharashtra

Subject: Request Letter for Industrial Training.

Respected Sir,

The Students of **Third year Electrical Engineering**of Jagadambha College of Engineering & Technology, Yavatmal is interested to undertake an Industrial Training at your prestigious organization from 30th **May 2016 to 25th June 2016.**This training will help him to pursue and learn the practical aspects of theory learnt in the classroom.

– Following is the list of interested candidate.

1. **Gaurav K Pawar**

Hence,we humbly request you to permit him to undergo the Industrial Training.

Thanking you!

Principal,
Jagadambha College of Engineering & Technology,
Yavatmal

Dr.Hemant H. Sarodkar
Principal
Jagadambha College of Engineering & Technology, Arni Road, Nikki,Yavatmal

ARNI ROAD, YAVATMAL - 445 001 (M.S.) INDIA
Tel : (07232) 244226, Fax : (07232) 244226 Mob. 8086548670
Website : www.jcoet.org E-mail : principal@jcoet.org

Jagadambha Bahuuddeshiya Gramin Vikas Sanstha's

JAGADAMBHA

COLLEGE OF ENGINEERING & TECHNOLOGY, YAVATMAL

Reg. No. F - 7596 (Ytl.)

Date: 23/12/2015

To,
The HR,
Dream Media Solution
Hydrabad

Subject: Request Letter for Industrial Training.

Respected Sir,

The Students of **Third year Electrical Engineering** of Jagadambha College of Engineering & Technology, Yavatmal is interested to undertake an Industrial Training at your prestigious organization from 18th Jan to 18th Feb 2016.This training will help him to pursue and learn the practical aspects of theory learnt in the classroom.

Following is the list of interested candidate.

1. **Shrikant Gelewar**

Hence, we humbly request you to permit him to undergo the Industrial Training.

Thanking you!

Principal,
Jagadambha College of Engineering & Technology.

Principal
Jagadambha College of Engineering & Technology, Arni Road, Yavatmal

ESTD 2010

Dr.Hemant P. Sarodkar
Principal
Jagadambha College of Engineering & Technology

ARNI ROAD, YAVATMAL - 445 001 (M.S.) INDIA
Tel : (07232) 244226, Fax : (07232) 244226 Mob. 9096546670
Website : www.jcoet.org E-mail : principal@jcoet.org

Jagadambha Bahuuddeshiya Gramin Vikas Sanstha's

JAGADAMBHA

COLLEGE OF ENGINEERING & TECHNOLOGY, YAVATMAL

Reg. No. F - 7596 (Ytl.)

JCET/15-16/1068

Date: 23/05/2016

To,
The HR,
Thermal Power Plant,
Paras, Maharashtra

Subject: Request Letter for Industrial Training.

Respected Sir,

The Students of Third year Electrical Engineering of Jagadambha College of Engineering & Technology, Yavatmal are interested to undertake an Industrial Training at your prestigious organization from 1st Jun to 30th June 2016.This training will help them to pursue and learn the practical aspects of theory learnt in the classroom.

Following is the list of interested candidates.

1. **Prawesh Meshram**
2. **Sumit Dikundwar**

Hence, we humbly request you to permit them to undergo the Industrial Training.

Thanking you!

Principal,
Jagadambha College of Engineering &Technology,

ESTD 2008

ARNI ROAD, YAVATMAL - 445 001 (M.S.) INDIA
Tel : (07232) 244226, Fax : (07232) 244226 Mob. 9096548670
Website : www.jcoet.org E-mail : principal@jcoet.org

Jagadambha Bahuuddeshiya Gramin Vikas Sanstha's

JAGADAMBHA

COLLEGE OF ENGINEERING & TECHNOLOGY, YAVATMAL

Reg. No. F - 7596 (Ytl.)

JCET/15-16/1150

Date: 18/05/2016

To,
The HR,
Rattan Indin Power Plant,
NandgaonPeth,
Amravati

Subject: Request Letter for Industrial Training.

Respected Sir,

The Students of Third year Electrical Engineeringof Jagadambha College of Engineering & Technology, Yavatmal are interested to undertake an Industrial Training at your prestigious organization from 10th Jun to 07th July 2016.This training will help them to pursue and learn the practical aspects of theory learnt in the classroom.

Following is the list of interested candidates.

1. Aishwarya Karnewar
2. Pratibaya Meshram
3. Sonali Dhoke

Hence,we inumbly request you to permit them to undergo the Industrial Training.

Thanking you!

Principal
Jagadambha College of Engineering &Technology.

Principal

Dr.Hemant S. Sarodkar
Principal
Jagadambha College of Engineering &

ARNI ROAD, YAVATMAL - 445 001 (M.S.) INDIA
Tel : (07232) 244226, Fax : (07232) 244226 Mob. 9096548670
Website : www.jcoet.org E-mail : principal@jcoet.org

Jagadambha Bahuuddeshiya Gramin Vikas Sanstha's

JAGADAMBHA

COLLEGE OF ENGINEERING & TECHNOLOGY, YAVATMAL

Reg. No. F - 7596 (Ytl.)

JCET/15-16/1120

Date: 02/06/2016

To,
The HR,
Ratan India Power Plant,
Nandgaonpeth
Amravati, Maharashtra

Subject: Request Letter for Industrial Training.

Respected Sir,

The Students of Third year Electrical Engineeringof Jagadambha College of Engineering & Technology, Yavatmal are interested to undertake an Industrial Training at your prestigious organization from 10th jun to 5th july 2016.This training will helpthemto pursue and learn the practical aspects of theory-learnt in the classroom.

Following is the list of interested candidates.

1. Akash Parekar
2. Sayali Urkude
3. Adarsh Gawai
4. Kaneha Khasale
5. Ankita Giratkar

Hence,we humbly request you to permit them to undergo the Industrial Training.

Thanking you!

Principal
Jagadambha College of Engineering & Technology,
Yavatmal

Dr.Hemant P. Bandekar

ARNI ROAD, YAVATMAL - 445 001 (M.S.) INDIA
Tel : (07232) 244226, Fax : (07232) 244226 Mob. 9096546670
Website : www.jcoet.org E-mail : principal@jcoet.org

Jagadambha Bahuuddeshiya Gramin Vikas Sanstha's

JAGADAMBHA

COLLEGE OF ENGINEERING & TECHNOLOGY, YAVATMAL

Reg. No. F - 7596 (Yil.)

JCET/15-16/1374

Date: 10/06/2016

To,
The HR.
Prointegra It Solution Limited,
Nagpur

Subject: Request Letter for Industrial Training.

Respected Sir,

The Students of Third year Electrical Engineeringof Jagadambha College of Engineering & Technology, Yavatmal is interested to undertake an Industrial Training at your prestigious organization from 13th jun to 16th july 2016.This training will helpherto pursue and learn the practical aspects of theory learnt in the classroom.

Following is the list of interested candidate.

1. Shirin Sheikh

Hence,we humbly request you to permit her to undergo the Industrial Training.

Thanking you!

Principal 10-6-16
Jagadambha College of Engineering &Technology,
Yavatmal

Principal
Jagadambha College of Engineering & Technology, Arni Road, Yavatmal

ESTD 2009

Dr.Hemant M. Baradkar
Principal

ARNI ROAD, YAVATMAL - 445 001 (M.S.) INDIA
Tel : (07232) 244226, Fax : (07232) 244226 Mob. 9096548670
Website : www.jcoet.org E-mail : principal@jcoet.org

Jagadambha Bahuuddeshiya Gramin Vikas Sanstha's

JAGADAMBHA

COLLEGE OF ENGINEERING & TECHNOLOGY, YAVATMAL

Reg. No. F - 7596 (Ytl.)

Date: 01/07/2016

To,
The Head,
Advance Training Institute,
Mumbai

Subject: Request Letter for Industrial Training.

Respected Sir,

The Students of Third year Electrical Engineeringof Jagadambha College of Engineering & Technology, Yavatmal are interested to undertake an Industrial Training at your prestigious organization from 11th July to 22nd July 2016. This training will help them to pursue and learn the practical aspects of theory learnt in the classroom.

Following is the list of interested candidates.

1. Ankit Titirmare
2. Sneha Kharkar
3. Pallavi Dambhare

Hence,we humbly request you to permit them to undergo the Industrial Training.

Thanking you!

Principal,
Jagadambha College of Engineering & Technology,
Yavatmal

Principal
Jagadambha College of Engineering & Technology's Arni Road, Yavatmal

Dr.Hemant N. Gharkar
Principal
Jagadambha College of Engineering & Technology, Arni Road, Yavatmal

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Jagadambha Bahuuddeshiya Gramin Vikas Sanstha's

JAGADAMBHA

COLLEGE OF ENGINEERING & TECHNOLOGY, YAVATMAL

Reg. No. F - 7596 (Yvl.)

JCET - 16-17/420

Date: 15/11/2016

To,
The D.C.
MSRTC,
Yavatmal

Subject: Request Letter for Industrial Training.

Respected Sir,

The Students of **Third year Mechanical Engineering**of Jagadambha College of Engineering & Technology, Yavatmal are interested to undertake an Industrial Training at your prestigious organization from **22nd Dec to 24th Dec 2016**.This training will help them to pursue and learn the practical aspects of theory learnt in the classroom.

Following is the list of interested candidates.

1. **Manmohan Ingole**
2. **Jitendra Payghan**
3. **Ramkrushna Denghale**

Hence,we humbly request you to permit them to undergo the Industrial Training.

Thanking you!

Principal,
Jagadambha College of Engineering & Technology,

Principal
Jagadambha College of Engineering & Technology, Arni Road, Yavatmal

Dr.Hemant G. Ganorkar
Principal

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Jagadambha Bahuuddeshiya Gramin Vikas Sanstha's

JAGADAMBHA

COLLEGE OF ENGINEERING & TECHNOLOGY, YAVATMAL

Reg. No. F - 7596 (YIL)

JCeT 16-17/278

Date: 06/12/2016

To,
The HR,
Thermal Power Station,
Chandrapur

Subject: Request Letter for Industrial Training.

Respected Sir,

The Students of **Third year Electrical Engineering**of Jagadambha College of Engineering & Technology, Yavatmal are interested to undertake an Industrial Training at your prestigious organization from 15th **Dec to 7th Jan 2017**.This training will helpthemto pursue and learn the practical aspects of theory learnt in the classroom.

Following is the list of interested candidates:

1. **Madhuri Wadekar**
2. **ShreyaJunanakar**
3. **Rupesh Datey**

Hence,we humbly request you to permit them to undergo the Industrial Training.

Thanking you!

Principal
Jagadambha College of Engineering &Technology,
Yavatmal

Principal
Jagadambha College of Engineering &
Technology, Arni Road,Dists. Yavatmal

Dr.Hemant M. Baradkar
Principal

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Jagadambha Bahuuddeshiya Gramin Vikas Sanstha's

JAGADAMBHA

COLLEGE OF ENGINEERING & TECHNOLOGY, YAVATMAL

Reg. No. F - 7596 (YtL)

JCET/16-17/413

Date: 11/11/2016

To,
The HR,
Thermal Power Station,
Paras.

Subject: Request Letter for Industrial Training.

Respected Sir,

The Students of Third year Electrical Engineeringof Jagadambha College of Engineering & Technology, Yavatmal are interested to undertake an Industrial Training at your prestigious organization from 19th Dec to 7th Jan 2017.This training will help them to pursue and learn the practical aspects of theory learnt in the classroom.

Following is the list of interested candidates.

1. Suraj Wadhai
2. Hemant Chaudarkar
3. Vaibhav Durkewar

Hence,we humbly request you to permit them to undergo the Industrial Training.

Thanking you!

Principal,
Jagadambha College of Engineering &Technology,

Principal
Jagadambha College of Engineering & Technology, Arni Road, Yavatmal

Dr.Hemant G. Baradkar
Principal
Jagadambha College of Engineering &

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Jagadambha Bahuuddeshiya Gramin Vikas Sanstha's

JAGADAMBHA

COLLEGE OF ENGINEERING & TECHNOLOGY, YAVATMAL

Reg. No. F - 7596 (Ytl.)

JCET/16-17/574

Date: 18/04/2017

To,
The HR.
3DOT Technologies,
Pune

Subject: Request Letter for Industrial Training.

Respected Sir,

The Students of **Third year Computer Science Engineering** of Jagadambha College of Engineering & Technology, Yavatmal are interested to undertake an Industrial Training at your prestigious organization from **10th June to 19th June 2017.** This training will help them to pursue and learn the practical aspects of theory learnt in the classroom.

Following is the list of interested candidate.

1. **Mrunali P. Kawalkar**
2. **Bhagyashri S. Thete**
3. **Namrata D. Rekwar**
4. **Ashwini R. Ghoderao**

Hence, we humbly request you to permit them to undergo the Industrial Training.

Thanking you!

18.4.17

Principal,
Jagadambha College of Engineering & Technology,
Yavatmal

Dr.Hemant M. Baradkar
Principal
Jagadambha College of Engineering &
Technology, Arni Road, Yavatmal

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JAGADAMBHA COLLEGE OF ENGINEERING & TECHNOLOGY,

YAVATMAL - 445001

DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that the thesis entitled **"ANALYSIS AND DESIGN OF MULTISTOREY (G+6) RESIDENTIAL BUILDING USING STAAD PRO"**, which is being submitted to Sant Gadge Baba Amravati University, Amravati for the award of degree of **Master of Engineering** in **Civil Engineering (Structural Engineering)** is the result of bonafied research work completed by **Mr. Shrishkumar Diliprao Takwale** under my supervision and guidance. The matter embodies in this thesis is original and has not been submitted for the award of any other degree or diploma.

Enrollment No: _____

Uni. Roll No: _____

Prof. H. D. Mishra
Guide
Department of Civil Engineering

Prof. S. S. Kendhe
H.O.D.
Department of Civil Engineering

Dr. H. M. Baradkar
Principal
Jagadambha College of Engineering & Technology, Yavatmal.

Dr.Hemant M. Baradkar
Principal
Jagadambha College of Engineering & Technology,Anni Road,Kinhi,Yavatmal

Abstract

In order to compete in the ever growing competent market it is very important for a structural engineer to save time. as a sequel to this an attempt is made to analyze and design a Multistoried building by using a software package staad pro.

For analyzing a multi storied.building one has to consider all the possible loadings and see that the structure is safe against all possible loading conditions.

There are several methods for analysis of different frames like kani's method, cantilever method, portal method, Matrix method.

The present project deals with the analysis of a multi storeyed residential building of G+6 consisting of 5 apartments in each floor. The dead load &live loads are applied and the design for beams, columns, footing is obtained

STAAD Pro with its new features surpassed its predecessors, and compotators with its data sharing capabilities with other major software like AutoCAD, and MS Excel.

We conclude that staad pro is a very powerful tool which can save much time and is very accurate in Designs.

Thus it is concluded that staad pro package is suitable for the design of a multistoried building.

ESTD 2009

Dr.Hemant M. Baradkar
Principal
Jagadambha College of Engineering &
Technology,Amti Road,

JAGADAMBHA COLLEGE OF ENGINEERING & TECHNOLOGY,

YAVATMAL - 445001

DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that the thesis entitled **"PREDICTION OF BLAST LOADING AND ITS IMPACT ON BUILDINGS"**, which is being submitted to Sant Gadge Baba Amravati University, Amravati for the award of degree of **Master of Engineering in Civil Engineering (Structural Engineering)** is the result of bonafied research work completed by **MR. CHETAN S. AGRAWAL** under my supervision and guidance. The matter embodies in this thesis is original and has not been submitted for the award of any other degree or diploma.

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Uni. Roll No: _____

Prof. H. D. Mishra
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Dr.Hemant M. Baradkar
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PREDICTION OF BLAST LOADING AND ITS IMPACT ON BUILDINGS

Abstract

Dynamic responses of structure are been a major concern in design analysis. Passive control techniques are introduced in order to enhance the performance of structure. The first phase of the work is to evaluate the performance of moment resisting RC frame equipped with metallic damper i.e., X-plate damper. Second phase of this work is to evaluate the efficiency of passive systems for a 2D frame and to enhance performance of structure which are subjected to seismic ground excitations and blast induced ground vibrations. Two moment resisting RC frames were analysed and performance of (Lead/rubber Bearing) isolator and the damping device (Fluid Viscous Damper) in alleviating responses of structure is observed. Non-linear dynamic analysis is carried out in SAP2000 for both regular and irregular moment-resisting frames and structural responses are been compared for with and without passive control techniques. Isolators are designed based on isolation period and FVD's used are of M/s Taylor devices. Alleviation of structural responses by passive control techniques are evaluated and comparative study is performed. Introducing of passive control system is influential in mitigating the structural retaliation.

Keywords SAP2000, Ground accelerations, Peak particle velocity, Passive control systems, Fluid viscous damper, and Base isolation, X-Plate Damper, Blast Loads and Seismic Loads.

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JAGADAMBHA COLLEGE OF ENGINEERING & TECHNOLOGY,
YAVATMAL - 445001

DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the project report entitled **"Performance Analysis of Heavy Duty Vehicle King-Pin Using CAD Tool"** has been successfully completed by **Miss. Trupti Yogeshwar Galat** under the guidance of **Prof. A. M. Shende** in recognition to the partial fulfillment for the award of the degree of Master of Engineering in Mechanical Engineering at "Jagadambha College of Engineering & Technology, Yavatmal – 445001. (An institution affiliated to Sant Gadge Baba Amravati University, Amravati).

Prof. A. M. Shende
Assistant Professor
Department of Mechanical Engineering

Dr. V. L. Bhambere
HOD, Mechanical Engg. Dept.
Jagadambha College of Engineering & Technology, Yavatmal.

Dr. H. M. Baradkar
Principal
Jagadambha College of Engineering & Technology, Yavatmal.

Dr.Hemant M. Baradkar
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Jagadambha College of Engineering & Technology,Arni Road,Kirhi,Yavatmal

ESTD 2009

Abstract

King-Pin plays an important role in steering, suspension and stability mechanism of any heavy duty vehicle like truck, bus, containers etc. Tyre inclination angles are set with respect to King-Pin only, which directly affect tyre life. King-Pin is a connecting media between excel and wheel. Turning of wheels, balancing etc. are the important functions of King-Pin.

As it needs to work in tough conditions hence it is made up with tough metals like high carbon steel, chromium steel etc. Still there are few issues with the life of pin and improper lubrication of King-Pin bushings can cause King-Pin contact points to begin to wear at the steering knuckle. You will notice signs of King-Pin and bushing failure from incorrect vehicle alignment, premature and uneven front tire wear, and rough handling. Experiencing these symptoms while driving may result in a shaking cab or steering wheel. Because of the potential for further damage and operator safety risks, properly diagnosing and repairing worn King-Pins, bushings and tie rods needs to be addressed promptly.

In this project the King-Pin is to be redesigned and strength performance is to be carried out by using manual calculation method and CAD/CAE tools. In manual calculation method the all design parameters are inspected and redesign of King-Pin is done with proper designing formulas. CAD model is developed by using reverse engineering process and further strength performance is carried out on CAD model in CAE tool like ANSYS 14.5. Also the role of vibration is to be checked. By studying all generated results conclusion will be drawn.

Index Terms- Strength performance, CAD/CAE Tool, ANSYS 14.5, King-Pin

JAGADAMBHA COLLEGE OF ENGINEERING & TECHNOLOGY, YAVATMAL - 445001

DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to Certify that the project report entitled **"Air Flow Analysis of Solar Air Heater Using CFD Tool"** has been successfully completed by **Mr. Abhiraj Shantaram Chavhan** under the guidance of **Prof. A. B. Dhumne** in recognition to the partial fulfillment for the award of the degree of Master of Engineering in Mechanical (CAD/CAM) at "Jagadambha College of Engineering & Technology, Yavatmal – 445001. (An institution affiliated to Sant Gadge Baba Amravati University, Amravati).

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ESTD 2009

Abstract

In Solar Air Heater, collector plate is the important component which is mainly responsible for heat transfer through convection. Attached ribs to the collector plate will also improve the thermal efficiency of the solar air heater. It is also proved with an experiment that the rate of heat transfer can be also increased by using variety of ribs. Perforated ribs can give better heat transfer rate as compared with flat collector plate. But the limitation of solar energy i.e. fluctuation in intensity and availability in days only narrows the use of solar air heater. A better solution of use of solar panel to charge battery and use it further in night for heating of collector plate could be done. This arrangement will give hot air in night also. Performance of solar air heater is same as we got in day condition if we maintain required collector plate temperature.

In this project, the phenomenon of air heating is studied and well described by computational fluid dynamic method (CFD). For this purpose the ideal solar air heated chamber is modeled in CAD software like CATIA V5R19 and then further imported into CFD tool like ANSYS Fluent 14.5. The inlet and outlet boundary conditions are given in such a way that, it will simulate actual physical conditions. The rate of heat exchange, Temperature contours, Pressure and velocity counters are observed well to generate proper conclusion.

Index Terms – Solar Air Heater, Perforated Ribs, Collector Plate, CATIA V5R19, CFD Tool

ESTD 2009

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JAGADAMBHA COLLEGE OF ENGINEERING & TECHNOLOGY,

YAVATMAL, - 445001

DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to Certify that the project report entitled **"Vibration Analysis of Windmill Blade By Using CAD And FEA Tool"** has been successfully completed by **Mr. Kamlesh Hemant Pendle** under the guidance of **Dr. V. L. Bhambere** in recognition to the partial fulfillment for the award of the degree of Master of Engineering in Mechanical Engineering at "Jagadambha College of Engineering & Technology, Yavatmal – 445001. (An institution affiliated to Sant Gadge Baba Amravati University, Amravati)

Prof. A. M. Shende
ME Coordinator
Department of Mechanical Engineering

Dr. V. L. Bhambere
HOD, Mechanical Engg. Dept.
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Dr. H. M. Baradkar
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Jagadambha College of Engineering & Technology, Yavatmal.

Dr.Hemant M. Baradkar
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Jagadambha College of Engineering & Technology,Amt Road,Kinhi,Yavatmal

EST 2009

Abstract

Windmill blades are very important energy generation point of view. They are totally responsible for the rotational movement which produces electricity. The failure of any windmill blade leads to drop in energy generation and malfunction in windmill. Hence proper care, maintenance, and regular checkup of windmill blades are always carried out. These blades are also subjected to vibrations due to the unbalancing, failure from any edge or high speed rotation. Some windmills are having three blades and some may have more than five. Depending on the location, wind speed and energy requirement, type of windmill along with blades is selected.

Normally windmill fails due to the high speed wind flow. This high speed wind creates pressure on windmill which is beyond sustainable range some times. Hence failure occurse. In fact vibrations will be generated. Vibrations are counted in the form of frequency (Hz). As we know that, more the frequency, safer the object. Therefore the value of frequency in case of windmill blade must be greater. Natural frequency value must be greater with possible deformation.

In this project the windmill blades are examined vibrating point of view. The entire study is concentrated on the effect of vibrations on the windmill blade and its behavior due to vibrations. For that reason the windmill with 18 blades is taken into consideration. Entire windmill blade geometry is modeled on CATIA software which is further imported into ANSYS 14.5 FEA package to perform vibration analysis. Based on generated results, conclusion is drawn.

Index Terms- CAD, CAE Tool, Vibration Analysis, Shape Optimization

ESTD 2009

Dr.Hemant M. Baradkar
Principal
Jagadambha College of Engineering & Technology,Arni Road,Kinhi,Yavat

JAGADAMBHA COLLEGE OF ENGG. & TECHNOLOGY, YAVATMAL

DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that the thesis entitled **EXPERTIMENTAL STUDY OF SEISMIC EFFECTS ON THE RCC FRAMED STRCTURE BY PROVIDING SHEAR WALL & TUBE SYSTEMS**, which is being submitted to Sant Gadge Baba Amravati University, Amravati for the award of degree of **Master of Engineering in Civil Engineering (Structural Engineering)** is the result of bonafied research work completed by **Rasheed Ullah Khan Sharique Ullah Khan** under my supervision and guidance. The matter embodies in this thesis is original and has not been submitted for the award of any other degree or diploma.

Prof. Sagar R. Raut

Guide
Asst. Prof. of Civil Engg. Dept
Jagadambha College of Engineering & Technology, Yavatmal

Prof. S. S. Kendhe

Head of Civil Engg. Department
Jagadambha College of Engineering & Technology, Yavatmal

Dr. H. M. Baradkar

Principal
Jagadambha College of Engineering And Technology, Yavatmal

ESTD 2009

Dr.Hemant M. Baradkar
Principal
Jagadambha College of Engineering & Technology ...

ABSTRACT

As the rate of growth of population is increasing day by day, the requirement of land is increasing for different purposes. To accommodate this increased population, the height of building is increasing thereby subsequently increasing the importance of lateral load resisting system which provide adequate strength against lateral loading arising due to earthquake and wind. In present study various lateral load resisting system have been introduced which can resist the lateral forces and safely transfer them to soil thereby improving the strength and stiffness of column structures. The lateral load resisting systems that are widely used are conventional beam column system, shear wall system, tube system, outrigger system, tubular system etc. An exhaustive study has been performed on the performance beam column system, shear wall system and tube system of 12 storey RCC building with plan size 18 m × 18 m using ETAB software. All structural members are designed as per IS 456:2000 and all the load combinations of seismic forces are considered as per IS 1893(Part 1): 2002. Finally, Parameter such as storey displacement, storey drift, storey stiffness and time period are compared and obtained results were presented in both graphically and tabular format.

Keywords - Shear wall system, Tube system, Beam Column System, High rise building, Storey displacement, storey drift storey stiffness and Time period.

ESTD 2009

Dr.Hemant M. Baradkar
Principal
Jagadambha College of Engineering & Technology,Arni Road,Kinhi,Yavatmal

JAGADAMBHA COLLEGE OF ENGINEERING & TECHNOLOGY,
YAVATMAL - 445001

DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that the thesis entitled **"Experimental Investigation On Masonry Wall To Construct Earthquake Resisting Structure"**, which is being submitted to Sant Gadge Baba Amravati University, Amravati for the award of degree of **Master of Engineering** in **Civil Engineering (Structural Engineering)** is the result of bonafied research work completed by **Mr. Sagar B. Bhong** under my supervision and guidance. The matter embodies in this thesis is original and has not been submitted for the award of any other degree or diploma.

Enrollment No: 17482334

Uni. Roll No: 20352

Prof. S. R. Raut
Guide
Department of Civil Engineering

Prof. S. S. Kendhe
H.O.D.
Department of Civil Engineering

Dr. H. M. Baradkar
Principal
Jagadambha College of Engineering & Technology, Yavatmal.

Dr.Hemant M. Baradkar
Principal
Jagadambha College of Engineering & Technology Arni Road Kinhi Yavatmal

ABSTRACT

Natural calamities such as tsunami, landslide, and earthquake etc, various structures get disturbed and lead to loss of life and property damage. So to overcome these damages we are studying earthquake resisting masonry wall structure.

Half scale clay bricks are produce in same manner as a large scale bricks to investigate the suitability of the masonry wall using half scale clay bricks. Binding wire used holds the structure in place and provides strength and ductility to structure. Binding wire resist vibration during earthquake.

Experimental work is carried out by using different models on instrument which is known as shake table for vibration effect and behavior of models up to failure under compressive load .this study plays important role in construction of earthquake resisting structure .this technique will be revolutionary in construction technology.

***(Key Words**: Brick Masonry, Shake Table, Compression Test Machine, Half Scale Bricks.)*

ESTD 2009

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hnology,Arni Road,Kinhi,Yavatmal

JAGADAMBHA COLLEGE OF ENGINEERING & TECHNOLOGY,

YAVATMAL - 445001

DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to Certify that the dissertation report entitled **"DESIGN OPTIMIZATION AND VIBRATION ANALYSIS OF HEAVY DUTY LEAF SPRING BY USING CAD TOOL"** has been successfully completed by **MR. SHREEVATSA VIVEK BELGAONKAR** under the guidance of **DR. V. L. BHAMBERE** in recognition to the partial fulfillment for the award of the degree of Master of Engineering in Mechanical Engineering at "Jagadambha College of Engineering & Technology, Yavatmal – 445001. (An institution affiliated to Sant Gadge Baba Amravati University, Amravati)

Prof. A. M. Shende
M.E. Coordinator
Department of Mechanical Engineering

Dr. V. L. Bhambere
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Dr. H. M. Baradkar
Principal
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Dr.Hemant M. Baradkar
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ESTD 2009

Abstract

Heavy duty leaf spring set always undergoes large number of loadings and vibrations. Hence the chances of failure of leaf spring set are always maximum. Leafs attached in a set are often breaks while working. Sometimes entire spring set needs to be repaired as more than two leafs is braked. The major cause of failure is road conditions and driving. In India road conditions are not much better; hence the failure of leaf spring set always accurse.

Hence there is a need of design optimization of a leaf spring set also its performance testing. But the cost of entire leaf set is relatively high. Hence we adopted the virtual method of design optimization and its performance testing. Also the vibrations during running of vehicle may affect the durability and effectiveness of leaf sets. Hence the vibrations generated are also needs to be studied well.

In this project the existing front left leaf spring set with three different materials of TATA 1512 Bus is considered to analyze. The CAD model of leaf spring set is generated with the help of CATIA V5R19 Software. Further it is imported into ANSYS Software and structural and vibration analysis are performed for considered three different materials. Based on the results generated design changes will be suggested. Also the best material for leaf spring set manufacturing is proposed. Further conclusion is drawn as per the results generated.

Index Terms- Leaf Spring Set, Virtual Design, CAD Model, Structural Analysis, Vibration Analysis

Dr.Hemant M. Baradka.
Principal
Jagadambha College of Engineering &
Technology,Arni Road,Kinhi Yavat

CERTIFICATE

This is to certify that the Dissertation report entitled

"PERFORMANCE BASED DESIGN OF SYMMETRICAL AND UNSYMMETRICAL BUILDING"

Is a bonafide work and it is submitted to the Sant Gadge Baba Amravati University, Amravati.

By

Umesh B. Borkar

In the fulfillment of the requirement for the degree of ***Master of Engineering*** *in* ***Civil - Structural Engineering,*** *during the academic year 2018-2019 under my guidance.*

Prof. P.K.PARDAKHE

Guide

Prof.A.R.Rode

HOD

Dr.H.M.Baradkar

Principal

Department of civil Engineering,
Jagadambha college of Engineering & Technology,
Yavatmal
2018-2019

ESTD 2009

Dr.Hemant M. Baradkar
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Jagadambha College of Engineering &
chnology,Anni Road,Kiran, Yavatmal

ABSTRACT

In the past couple of years, India has seen a series of disasters- Uttarakhand, Kashmir, Vishakhapatnam, Bhuj, Chennai and now recently in Manipur as well as Nepal which realize our serious attention towards the safety prevention and protection of life structure from such disaster, which influence further discussion.

A performance-based design is aimed at controlling the structural damage based on precise estimations of proper response parameters. Over the past 25 years there has been a gradual shift from this position with the realization that increasing strength may not enhance safety, nor necessarily reduce damage. The development of capacity design principles in New Zealand in the 1970's (Park and Paulay, 1976) was an expression of the realization that the distribution of strength through a building was more important than the absolute value of the design base shear. It was recognized that a frame building would perform better under seismic attack if it could be assured that plastic hinges would occur in beams rather than in column (weak beam/strong column mechanism), and if the shear strength of members exceeded the shear corresponding to flexural strength. This can be identified as the true start to performance based seismic design, where the overall performance of the building is controlled as a function of the design process. The static pushover analysis is becoming a popular tool for seismic performance evaluation of existing and new structures. The expectation is that the pushover analysis will provide adequate information on seismic demands imposed by the design ground motion on the structural system and its components.

In this present study two R.C buildings, one symmetrical and one unsymmetrical in plan (designed according to IS 456:2000) are analyzed using Pushover Analysis and redesigning by changing the main reinforcement of various frame elements and again analyzing. The pushover analysis has been carried out using SAP2000, a product of Computers and Structures International. Various cases for a particular five storey building located in Zone-IV have been analyzed, changing reinforcement of different structural elements, i.e. Beams and Columns, in different combinations as well as at different storey levels. The results of analysis are compared in terms of base shear, storey drift, spectral acceleration, and spectral displacement and storey displacements.

ESTD 2009

Dr.Hemant M. Saradkar
Principal
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Jagadambha College of Engineering & Technology, Yavatmal
Department of Civil Engineering

Certificate

This is to certify that the project titled

"SEISMIC ANALYSIS OF SHEAR WALL AT DIFFERENT LOCATION ON MULTISTOREY RCC BUILDING"

has been successfully completed in session 2017-2018

by **MISS.GOURAVI M. MUNDE** *in recognition to the partial fulfillment for the degree of Master of Engineering (Structural Engineering), Sant Gadge Baba Amravati University, Amravati.*

Prof. N. K. Meshram
Guide

Prof. A. R. Rode
H. O. D.

Dr. H. M. Baradkar
Principal

Dr.Hemant M. Baradka.
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ABSTRACT

Looking to the past records of earthquake, there is increase in the demand of earthquake resisting building which can be fulfilled by providing the shear wall systems in the building. Also due to the major earthquakes in the recent pats the codal provisions revised and implementing more weightage on earthquake design of structure. Generally shear wall can be defined as structural vertical member that is able to resist combination of shear, moment and axial load induced by lateral load and gravity load transfer to the wall from other structural member. Reinforced concrete walls, which include lift wells or shear walls, are the usual requirements of Multi Storey Buildings. Design by coinciding centroid and mass center of the building is the ideal for a Structure. An introduction of shear wall represents a structurally efficient solution to stiffen a building structural system because the main function of a shear wall is to increase the rigidity for lateral load resistance.

Shear wall systems are one of the most commonly used lateral load resisting systems in high-rise buildings. Shear walls are incorporated in building to resist lateral Forces and support the gravity loads. RCC shear wall has high in plane stiffness, which can be ,used to simultaneously resist large horizontal loads and support gravity loads, making them quite advantageous in many structural engineering applications. There are lots of literatures available to design and analyze the shear wall. However, the decision about the location of shear wall in multi-storey building is not much discussed in any literatures. Positioning of shear wall has influence on the overall behavior of the building. For effective and efficient performance of building it is essential to position shear wall in an ideal location.

The main aim of the project is to determine the solution for shear wall location in multi-storey building (G+9). It is carried out to determine the strength of RC shear wall of a multistoried building by changing shear wall location. Three different cases of shear wall position for a building are to be analyzed. An earthquake load is calculated by the Response Spectrum method using IS 1893 (PART–I): 2002.STAAD Pro V8i software is used for the analysis of structures. Earthquake zone is III. The structures are compared on four different parameters namely joint displacement, axial force, bending moment and base shear

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This is to certify that **Ms. Laxmi N. Pawar** has satisfactorily completed the project work towards the **Master of Engineering** Degree of Sant Gadge Baba Amravati University, Amravati in **Electronics and Telecommunication Engineering** discipline on the topic entitled **"Performance Improvisation for Longevity Maximization with Ant Colony Optimization in Wireless Sensor Network "**. This work has been completed under my supervision and guidance.

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Abstract

Wireless sensor network (WSN) technologies are increasingly employed in recent years for monitoring purposes in various fields ranging from the engineering industry to our immediate home environments due to their ability to intelligently monitor remote locations at low cost. Maximization of longevity of wireless sensor networks is possible by using effective transmission strategy. An optimal-distance-based transmission strategy based on ant colony optimization is put forward to fulfill such a maximization aim. Clustering mechanism is one of the popular wireless sensor networks routing mechanisms, and it has proven to be an effective approach for organizing the network into a connected hierarchy .In proposed work, we have proposed a algorithm in order to increase the longevity of wireless sensor network . The simulations using MATLAB results shows that the network longevity have improved.

Keywords: Longevity maximization, Sensor nodes, Wireless sensor network, Clustering.

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This is to certify that **Ms. Pallavi R. Partani** has satisfactorily completed the project work towards the **Master of Engineering** Degree of Sant Gadge Baba Amravati University, Amravati in **Electronics and Telecommunication Engineering** discipline on the topic entitled **"CLASSIFICATION AND FEATURE EXTRACTION OF SONAR IMAGES USING NEURAL NETWORK"**. This work has been completed under my supervision and guidance.

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ABSTRACT

In many research areas, intelligent recognition and classification systems gained an important role. The reliability and the success of these systems depends on the effectiveness of applied data pre-processing techniques and neural networks which can be used for efficient modelling of human's visual system during the recognition or classification of patterns. Neural networks have an important part in the modelling of human experience and decision making process into computers. In this purposed work, Sonar Image Classification and Recognition System which was developed to simulate human experience in the recognition of underwater shapes by using Back Propagation Learning Algorithm, will be presented, using Multilayer perceptron and Generalized Feed forward network. Experimental results suggest that automatic intelligent classification of these sonar images may provide more effective researches in oceanic engineering.

There are three main phases involved in the system. They are Feature and Coefficient extraction of Side Scan Sonar Images, Designing a network for classifying five different types of under waterside scan sonar images and finally recognizing the same. For classification, neural classifiers in FFT, WHT and DCT transformations are used. The main aim of the method is to improve the performance in classifying the side scan sonar images using neural network algorithm.

Keywords: NeuroSolutions5, Neural network, Transformed domain techniques, MATLAB.

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Certificate

This is to certify that the Dissertation entitled

Personalized Web Based B2B Services Using Fuzzy Approach

is a bonafide work and it is submitted to the Sant Gadge Baba Amravati University, Amravati

by

Ms. Snehal D. Mahanur

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ABSTRACT

In real world applications, Internet plays a vital role on B2B e-services. B2B e-services in the sense and user can purchase or gaining services through online it could be achieved by giving such recommendations to generate personalized suggestions on product services to customer but it is complex to handle because of the data in the format of tree structure and also for fuzzy user preference. To handle these problems, we propose a technique to model the fuzzy tree-structured user preferences. And also a recommendation approach is developed for recommending tree-structured items. Our proposed approach is applied to various datasets like "Australian business dataset" and the "MovieLens dataset". Our proposed approach shows the effectiveness on user preference profile and excellent performance on our proposed recommendation approach for tree structured items. The main objective of our framework on making recommendations to personal users. Our proposed framework solves the problem on complicated tree structures data in business applications.

E-service intelligence is a new research field that deals with fundamental roles, social impacts and practical applications of various intelligent technologies on the Internet based e-service applications that are provided by e-government, e-business, e-commerce, e-market, e-finance, and e-learning systems, to name a few. This study offers a thorough introduction and systematic overview of the new field e-service intelligence mainly based on computational intelligence techniques.

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Certificate

This is to certify that the project titled

Implementation of Web Based Application to Teach Students Earned Value Management Concepts

has been successfully completed in session 2016-2017

by ***MR. SHAILESH U. SAMBHE*** *in recognition to the partial fulfillment for the degree of Master of Engineering(Computer Science & Engineering),Sant Gadge Baba Amravati University, Amravati.*

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ABSTRACT

Web Based Application for Student is the computer and network enabled transfer of skills and knowledge. It includes out-of classroom & in-classroom educational experiences via technology. It is naturally suited to distance Learning and flexible learning. It is available anywhere, anytime. It is a self paced interactive instructive presented over the Internet to browser equipped learners. The E-Learning solution is empowering, engaging, effective and economical. Once developed, the system will then be evaluated for effectiveness in enhancing learning experience of students with regards to Earned Value Management in any discipline.

Keywords: Web based application; Project management; Students; Earned value management; EVM

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CERTIFICATE

This is to certify that the Dissertation report entitled

"PERFORMANCE BASED SEISMIC DESIGN OF RCC BUILDING"

Is a bonafide work and it is submitted to the Sant Gadge Baba Amravati University, Amravati.

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ABSTRACT

Every Civil Engineering structure or building is unique in nature unlike other engineering products which are in a massive scale using the same technique again and again. The present Project is an effort to understand Performance Based Design Approach. The performance-based seismic design approach enables us to design new structures more efficiently and to assess existing structures more realistically. The promise of performance-based seismic engineering is to produce structures with predictable seismic performance. Performance based seismic design exactly evaluates how building is likely to perform in given potential hazard. In performance based design identifying and assessing performance capability of building in an integral part of design process, and guide the many decisions that must be made. Present study based on performance based seismic design and non-linear analysis of multi-storey RCC building. Performance based seismic design is an iterative process, begins with selection of performance objective followed by development of preliminary design, an assessment as to whether or not the design meets the performance objective and finally redesign and reassessment, if required until desired performance level is achieved. In this project, work will be carried out for performance based seismic design of multi-storey (G+5) RCC building. Once design is completed, non-linear analysis is carried out to study seismic performance of building and found out whether selected objective is satisfied or not. In this work (G+5) RCC building is designed as per IS code (IS 1893 (Part 1): 2002, IS 456: 2000) for zone 5 and a nonlinear static analysis is carried out using auto plastic hinges. After the building is designed it is imported to ETABS platform in order to carry out Pushover Analysis. The Displacement controlled Pushover Analysis was carried out and the Pushover Curve were obtained for the building in both the direction i.e. X and Y as per guidelines mentioned in ATC 40. The Capacity Spectrum, Demand Spectrum and Performance point of the building was found in both the direction using the analysis carried out in ETABS 2015. From the Performance point it was found that the Building designed as per Indian standards was found to be well above Life safety performance level considering Designed Based Earthquake.

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CERTIFICATE

This is to certify that the dissertation work entitled

"A COMPARATIVE STUDY OF RCC BUILDING WITH AND WITHOUT CONCRETE AND STEEL PLATE SHEAR WALL"

is a bonafide work and it is submitted to the Sant Gadge Baba Amravati University, Amravati,

by

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ABSTRACT

In recent years construction of high rise buildings is widely increased due to highly increasing cost of land and scarcity of land in metropolitan cities. These structures are sensitive to wind and earthquake forces.Behaviour of such structures can be controlled by effective lateral structural systems, which increases stiffness of building. Although in present day's computer technology allows for precise analysis and design of different systems for high rise buildings, it does not readily insight for choosing among the alternatives of these systems to arrive at the best overall design. While studying uncontrolled response it was observed that response in terms of displacement and acceleration was exceeding IS code limits. The enhancement in the performance of the building is studied under earthquake loads by installing lateral force resisting systems, such as Special Moment Resisting Frame (SMRF), Concrete Shear Wall and Steel Plate Shear Wall. These systems were applied at various positions with different cross-sectional properties. Modeling and analysis is carried out using ETAB.

It is evident from the observations that all proposed arrangements improve the performance of the building in controlling story displacement, acceleration. The present work is expected to compare effectiveness of various lateral forces resisting system to earthquake excited on G+20 building.

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