


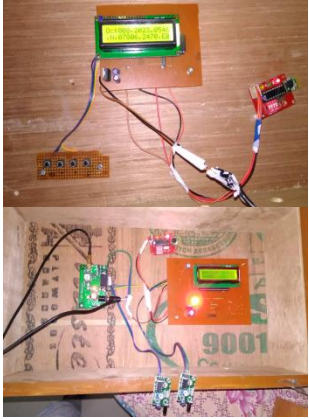

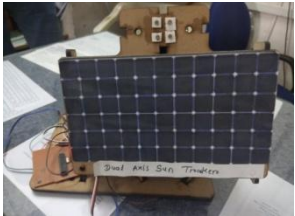






Electronics & Telecommunication Department




Session: 2016-17



Department	Project Title	Abstract	Photo	Thrust Area	Project Guide
Electronics and Telecommunication Engineering	Zigbee based alerting system for mine workers	This system is useful for mine workers with basic alerts to base stations		Wireless Communication and Embedded System	Dr. S. M. Gulhane
	Brain tumor extraction from MRI images using Matlab	The principle of our task is to recognize a tumor and its quantifications from a particular MRI scan of a brain image using digital image processing techniques and compute the area of the tumor by fully automated process and its symmetry analysis. Despite the undisputed usefulness of automatic tumor segmentation, this is not yet a widespread clinical practice, therefore the automatic brain tumor segmentation is still a widely studied research topic		Biomedical Imaging	Prof. A. R. M. Khan
	Wireless earth quake alarm system using Atmega 328p, ADXL 335 and GSM	One can't ignore natural laws in spite of many developments in science and technology. Nature has forced the scientific community to think or predict some natural warnings. Earthquake and flood are two of		Wireless Communication and Embedded System	Prof. P. D. Pawar

		the most damaging natural activities which offer serious threat to areas near major active faults on land or seduction zones offshore			
	Smart class room	In today world, there is a continuous need for automatic appliances. Due to increase in standard of living, there is a sense of urgency for developing circuits that would ease the complexity of life. The objective of this project is to overcome this problem		Embedded System for Automation	Prof. A. N. Shire
Electronics and Telecommunication Engineering					Prof. B. M. Faruk
	Bus position monitoring system to facilitate the passenger	The main aim of our project is to design a wireless communication based bus position monitoring system, which is much resourceful in operation. System utilize wireless communication (GPS technology) to provide the information about number of seats available in the bus and location of the bus.		Embedded System for Automation	Prof. S.A. Mishra
	Smart parking for smart city	This project is useful for secure car parking and reservation system using wireless technology		Embedded System for automation	Dr. S.M. Gulhane



	DUAL AXIS SUN TRACKER USING ATMEGA328	This project is a construction of 2 axis solar tracker which can track the sun throughout the day to obtain the maximum efficiency		Non-conventional Energy Recourses and Embedded System	Prof. P. M. Pandit
	IOT localization in smart buildings by enhanced finger printing and trajectory prediction	This project useful for finding the location in smart building using wifi module		Wireless Communication and Embedded System	Prof. U.W. Kaware
	Robot control using Arduino and RF module	This project developed 'AVR Microcontroller based wireless Robot for Uneven Surface.' This robot is controlled by radio frequency (RF) signal, which gives added advantage of free mobility as the communication between transmitter and receiver is wireless. AVR microcontroller ATmega16 is used for monitoring and controlling for various functions such as left or right movement of motors.		Mechatronics	Prof. A. R. M. Khan
	Intelligent window control and alcohol detection for safety on road	This project use is alcohol detection system with vehicle		Embedded System for Road Safety	Prof. P. G. Kaushik



		controlling technique			
	Hybrid power generation	The purpose of this project use to design a portable and low cost power system that combine both wind and electric and solar technique		Non-conventional energy resource	Prof. A. B. Rathod
	Real time health monitoring system	In this project, we intend to develop prototype for a miniature real time healthcare monitoring system which can monitor heart rate, body temperature and EMG. Here we are using microcontroller ATmega16		Biomedical healthcare using Embedded System	Prof. N. S. Gawai
	My JDIET android application	The main aim of this project is to build an Android application that helps the users to know about our college and whole campus		Android Application Development	Prof. A. N. Shire
	Intelligent street lighting system using Arduino uno	In this project, sensors used are, Light Dependent Resistor (LDR) to indicate a day/night time and the photoelectric sensors to detect the movement on the street		Optimized use of conventional energy resources	


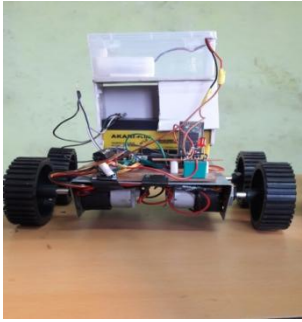

	<p>air pollution monitoring using arduino</p>	<p>The level of pollution has increased with times by lot of factors like the increase in population, increased vehicle use, industrialization and urbanization which results in harmful effects on human-being by directly affecting health of population exposed to it. The parameters of the environment to be monitored are chosen as temperature, humidity, volume of CO, volume of CO2, detection of leakage of any gas</p>		<p>Environmental Pollution Monitoring using Embedded System</p>	
	<p>AN ADVANCED MODEL FOR BIOMETRIC BASED SMART VOTING MACHINE</p>	<p>A voting system provides rules and regulations to ensure valid selection of leader by people. During the past decade, many governments have begun to introduce modern technology into their voting procedures. Electronic voting (e-voting) is one of the most significant parts of e-democracy, which refers to the use of computers or computerized voting equipment to cast votes in an election.</p>		<p>Embedded System</p>	
	<p>DRONE</p>	<p>The application of pesticides and fertilizers in agricultural areas is of prime importance for crop yields. The use of air crafts is becoming increasingly common in carrying out this task mainly</p>		<p>Embedded System for Agriculture</p>	



		because of its speed and effectiveness in the spraying operation. This project is based on concept which describes an architecture based on unmanned aerial vehicles (UAVs) which responsible for spraying chemicals on crops.			
	HOME AUTOMATION USING RASPBERRY PI	Home automation is an important milestone and ever exciting field that has exploded over the past few years. Advancement in technologies have made home more convenient and even more secure. Introducing Raspberry Pi to the world of home automation provides numerous customizations to turn a regular home into a smart home		Home Automation using Embedded System	
	Intelligence of automobile using Arduino board	In “Intelligence of automobiles using arduino board” project, we developed automatic wiper system and dipper module for four wheelers except tractor. The automatic wiper system used to detect rainfall and activate automobile windshield wipers without driver interaction. The system was developed to reduce driving distractions and allow drivers to focus on main task of driving		Mechatronics and Embedded System	
	MULTI PURPOSE VENDING MACHINE	This System proposes a Arduino based vending machine that dispatches the stationary items, once the coin is inserted		Automation and Embedded System	

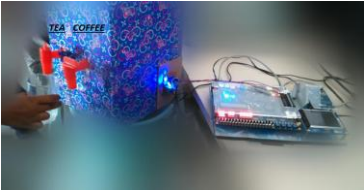
Session: 2015-16


Department	Project Title	Abstract	Photo	Thrust Area	Project Guide
Electronics and Telecommunication Engineering	Implementation and monitoring of PLC SCADA based elevator controller	The project report mainly focuses on programmable logic controller used for implementing the elevator. Here the four floor elevator model is designed and controlled through the PLC and SCADA. In this project there is also focus on upward and downward movement with of cabin using proximity sensors.		Industrial Automation	Dr. S. M. Gulhane
	Android controlled multibot for voice and video surveillance	In last few years Robots have become parts of human life. With the increasing automation need of robots is also increasing rapidly for various applications. One such application is for surveillance purpose. Bots used for surveillance are operated in various types such as manually controlled, Line follower, Obstacle avoiding, etc. Generally surveillance bot uses any one of these features. This make them bounded to work only in particular circumstances		Mechatronics	Prof. A. R. M. Khan
	Auto irrigation	Automatic		Embedded	Prof. P. D.

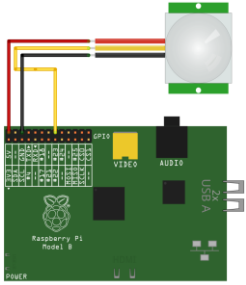
	<p>project with dam gate control using Microcontroller</p>	<p>irrigation is a form of irrigation system that incorporates the theory of digital control and feedback system with irrigation. The use of Programmable Logic Controller (PLC) and Microcontroller (μC) along with various sensors can prove a milestone in increasing the productivity of land, reducing water and soil infertility, reducing use of electricity and making the irrigation system smart and user friendly, with considerable reduction in labor work and time of farmers.</p>		<p>System for Agriculture</p>	<p>Pawar</p>
	<p>Design and implementation of GSM based automatic irrigation system using PLC and microcontroller</p>	<p>Compared with traditional irrigation system, the proposed system overcomes the loss due to excessive use of electricity and water and reduces the human efforts with the help of interfaced sensors. Automatic irrigation is a form of irrigation system that incorporates the theory of digital control and feedback system with irrigation</p>		<p>Embedded System for agriculture</p>	<p>Prof. A. N. Shire</p>


	<p>Digital clock with Alarm and Message</p>	<p>This project display date and time and tell us about the important events like birthdays of staff members, hours schedule of lectures, etc. with the help of alarm and text message. For the purpose of making this system we have used Arduino Uno Board, RTC DS1307, LCD and Buzzer.</p>		<p>Embedded System</p>	<p>Prof. B. M. Faruk</p>
<p>Electronics and Telecommunication Engineering</p>	<p>Voice operated intelligent fire extinguisher</p>	<p>The project aims at designing an intelligent voice operated fire extinguishing robotic vehicle which can be controlled wirelessly through Aurdino and bluetooth module. The Project has a water jet spray which is capable of sprinkling water</p>		<p>Mechatronics</p>	<p>Prof. S.A. Mishra</p>
	<p>Zigbee based multihop communication for automatic multitank water pump controller.</p>	<p>In this project, water tank monitoring system for spatially placed tanks is developed by using ZigBee based wireless sensor network. It is a common problem which is faced by the buildings spread over large area, that when one tank is empty one has to switch on the motor and switch off when it is full</p>		<p>Wireless Communication and Embedded System</p>	<p>Dr. S.M. Gulhane</p>

	<p>Real time display for temperature, humidity and Co gas level in environment</p>	<p>The purpose of this project is to explore the possibility to continuously monitor temperature & humidity and display them wirelessly at a remote station. This Project consists of temperature & humidity monitoring and controlling.</p>		<p>Environmental Monitoring and Embedded System</p>	<p>Prof. P. M. Pandit</p>
	<p>Electronic Automatic Toll Collection Using RFID</p>	<p>Automated toll gate system using RFID is new technology where time and efficiency are the matter of priority in toll collection system</p>		<p>Embedded System</p>	<p>Prof. U.W. Kaware</p>
	<p>Design of FPGA based controller for elevator system.</p>	<p>This project presents a design of controller for elevator system using VHDL, after simulation for specific operation of elevator system the controller is synthesized in EP2C35F672C6 Cyclone-II FPGA in DE2 board using Altera Quartus-II platform. The controller is able to control a lift motion, can indicate the direction of motion and different floor level, it also control the motion of door</p>		<p>VLSI</p>	<p>Prof. A. R. M. Khan</p>


		and fan inside the lift. The device control the lift motion by means of accepting the floor level as input and generate control signals for the lift motion as output.			
FPGA based implementation of vending machine	In this project implementation of vending machine using Finite State Machine (FSM) Model is proposed using VHDL.FSM modeling is the most important part in developing proposed vending machine model as this reduces the required hardware. In this project MEALY Machine Model is used to model the process for state i.e. user selection, waiting for money insertion		VLSI	Prof. P. G. Kaushik	
A parallel approach to develop in Multicore Environment	The main aim of this project is to increase the speed and reduced the excitation time using parallel computation		Parallel Computing	Prof. A. B. Rathod	
License plate recognition system using Raspberry Pi	This project aims at designing a system which capture the image of		Embedded System	Prof. N. S. Gawai	


		number plate automatically and this details are verified using Raspberry Pi			
	Automatic rationing system using GSM and RFID technology	RFID based automatic ration shop is new approach in public distribution system		Embedded System	Prof. A. N. Shire
	Threshold visual cryptography for finger print based authentication	The main idea of this project is efficiently apply the visual cryptography technique on to the area of authentication using finger prints		Biometric signal processing	Prof. V. R. Pandit
	Hand gesture to text translator tools for impaired people using matlab	In this project MATLAB software plays the major roll in a process of evolving this method to ease the communication between dump and normal peoples		Bio-signal processing	Prof. P. M. Pandit
	GSM Modem based home Security with auto dialing and energy optimization	This project is aims at integrating the futures of home automation with security system		Home automation and Embedded System	Prof. U. W. Kaware
Electronics and Telecommunication Engineering	Smart card based electronic voting system	A voting system provides rules and regulations to ensure valid selection of leader by people. During the past decade, many governments have begun to introduce modern technology into their voting procedures. Electronic voting (e-voting) is one of the most significant parts of e-democracy, which		Embedded System	Prof. P.D. Pawar


		refers to the use of computers or computerized voting equipment to cast votes in an election			
	Prepaid water box for water distribution	The main aim of this project is to provide effective water supply to each consumer		Embedded System	Prof. P. G. Kaushik
	Serial and Parallel permutation operation in Multicore environment	We are living in the era of technological growth and today's world is much concerned with speed. When we are talking about communication, speed is the most important parameter. Most programs that people write and run day to day are serial programs. A serial program runs on a single computer, typically on a single processor. Parallel computing is a form of computation that allows many instructions in a program to run simultaneously, in parallel. The main aim of this project is to increase the speed and to reduce the execution time using parallel computation		Parallel Computing	Prof. A. B. Rathod
	Surveillance system for home / office using ARM processor and Android phone	Raspberry pi is a small credit card sized computer that includes ports such as HDMI, Ethernet, 2 USB's version 2.0, Audio, and RCA Video. In addition, Raspberry Pi includes a SanDisk card slot which is used as the Pi's storage and GPIO (general purpose input output) pins which can be programmed using python		Home automation and Embedded System	Prof. N. S. Gawai
	Advanced automatic electric bill display system.	This systems is useful for wireless electric bill to customer		Industrial automation and Embedded	Prof. B. M. Faruk

		using GSM		System	
	ARM based smart power saving system for home automation	This system use three analogue inputs in which one can be used for sensing the temperature and humidity, the other two can be used for sensing light intensity and motion. The microcontroller unit with analogue inputs controls temperature, humidity and light intensity. This system uses AVR microcontroller ATmega328 with arm processor.		Optimization of conventional energy recourses	Prof. S. A. Mishra
	Dictionary learning based super resolution reconstruction of Biomedical images.	The project will exploit the data redundancy present in biomedical image sequences without the need of registration		Biomedical signal processing	Prof. V. R. Pandit


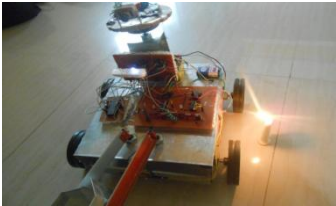
Session: 2014-15



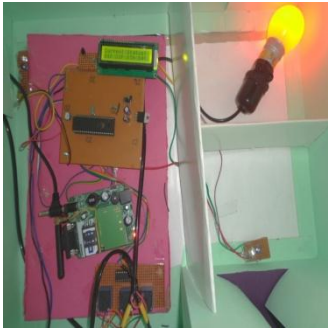
Department	Project Title	Abstract	Photo	Thrust Area	Project Guide
Electronics and Telecommunication Engineering	Wireless monitoring and speed controlling of 3-phase induction motor	This project is designed to control the speed of induction motor using android application where the remotely controlling speed of induction motor is achieved. Android mobile act as a transmitter		Wireless Communication and Embedded System	Prof. A. R. M. Khan


		through bluetooth, which is then received by Bluetooth receiver interfaced to AVR microcontroller of 8051 family.			
					Prof. P. D. Pawar
	Military Robot system	The system proposed will include robust assembly with wireless operation and control using RF module		Wireless Communication and Embedded System	Prof. S. A. Mishra
	Face recognition using local binary pattern	This project empirically evaluate face recognition which considers both shape and texture information to represent face images based on Local Binary Patterns (LBP), for person independent face recognition. The face area is first divided into small regions from which Local Binary Patterns histogram are extracted and concatenated into a single feature vector.		Bio-metric signal processing	Prof. N. S. Gawai
	Microcontroller based fire and theft detection by using GSM module	Security is the main concern for everyone. Everyone wants to live securely in his/her house. Everybody wants them to keep safe or secure from various incidents like theft in their house or accidents caused due to LPG gas leakage or accidents due to fire in their		Automation using Embedded System	Prof. A. N. Shire

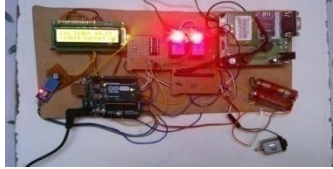
		house			
	Hand talk glove	In general, deaf people have difficulty in communicating with others who do not understand sign language. Even those who do speak aloud typically have a “deaf voice” of which they are self-conscious and that can make them reticent. The Hand Talk glove is a normal, cloth driving glove fitted with flex sensors		Bio-metric signal processing	Prof. B. M. Faruk
	Accident detection and released for air bag using GSM, GPS and MEMS	The main aim of the project is to design an ARM based GSM and GPS accident detection system and release of air bags. In this project ARM processor is used. Electromechanical sensors are used to sense vibration or shocks to vehicles. The location is identified using GPS.		Road safety using Embedded System	Prof. S. A. Mishra
	Automatic water level controller using solenoid valves	The aim of this project is to design and implantation of multitank monitoring systems which is based on low power zigbee wireless communication		Wireless communication and Embedded System	Dr. S.M. Gulhane
	An autonomous Quadrotor Flying Robot	The motivation behind this project is to present a new, better solution to		Mechatronics	Prof. U.W. Kaware

Electronics and Telecommunication Engineering		an existing set of ecological problems specifically in the context of data acquisition. This can be achieved by bringing the invaluable help of cutting-edge sensing devices and recent drone development into the efforts of conservation, with the goal of eventually solving the predicament that the environment is currently in.			
					Prof. U.W. Kaware
	Texture based identification and characterization of Interstitial Pneumonia Patterns in Lung multidetector CT	In this project, an automated scheme for volumetric quantification of interstitial pneumonia (IP) patterns, a subset of DPLD, is presented, utilizing a Multidetector CT (MDCT) dataset.		Biomedical imaging	Prof. P. D. Pawar
	Design and implementation of a real time traffic light controlled system based on FPGA	The traffic light control system is designed with VHDL and its function will be verified with simulation		VHDL	Prof. P. G. Kaushik


	<p>Patient monitoring system</p>	<p>Real Time Patients health monitoring system with wireless sensor network using soft computing is an innovative idea. The main objective of the project is to design and develop a monitoring system to measure patient's parameters such as temperature of the body, heartbeat and oxygen</p>		<p>Embedded System</p>	<p>Prof. A. B. Rathod</p>
	<p>Multifunctional robotic vehicle for industrial and security application</p>	<p>This model include, fire sensor and theft detection system that gives output on the LED, which is placed in front of continuous monitoring wireless camera. It will also buzz the alarm at the same time of detection. Hence it will provide total security in the night time or when the workplace is off. The total functions will be built around AVR microcontroller with obstacle and metal detection also. Hence the vehicle will have total of five applications right from mechanical work, monitoring to the security and alarming.</p>		<p>Embedded System</p>	<p>Prof. B. M. Faruk</p>

	<p>GSM and Microcontroller based warehouse monitoring system</p>	<p>In this project, the automatic monitoring of the grain storage is the main objective which improves the operation levels of grain storage, reduces the grain losses during stored procedure and reduces the labor intensity</p>		<p>Embedded System</p>	<p>Dr. S.M. Gulhane</p>
	<p>Intelligent solar tracker system implemented on 8051 microcontroller</p>	<p>This system can achieve the maximum illumination and energy concentration and cut the cost of electricity by requiring fewer solar panels, therefore, it has great significance for research and development. The main use of this report is to utilize the maximum power from the sun</p>		<p>Embedded System</p>	<p>Prof. P. M. Pandit</p>
	<p>Home Appliances indication and Control using Global System for Mobile communication</p>	<p>The main objective of the project is to create a system which uses GSM to control the home appliances such as lamp, fan, air condition, DC motor, Stepper motor, Temperature sensor and Solid State Relay and many more by sending a message through GSM modem</p>		<p>Embedded System</p>	<p>Prof. A. R. M. Khan</p>
	<p>Embedded based ringing free electronic voting system with instant</p>	<p>This project is based on embedded c language programming</p>		<p>Embedded System</p>	<p>Prof. P. G. Kaushik</p>

	result				
	Parallel routing : A multicore CPU approach in OpenMP environment	Aim of this project is increase the speed and reduce the execution time using parallel computation			Parallel Computing Prof. A. B. Rathod
Electronics and Telecommunication Engineering	Mobile phone signal isolator for GSM and CDMA networks with prescheduled time duration(mobile Jammer using Arduino platform)	In this project Mobile jammer is developed to prevent mobile phones from receiving or transmitting signals from the base station(s). It is intended to effectively disable mobile phones within the defined regulated zones without causing any interference to other communication devices.			Embedded System Prof. N. S. Gawai
	User Controlled low power home Surveillance system	In this project, the alerting sensors with low-power consumption are placed near those home windows and doors where an intruder must pass through. Also project used a PIR sensor based low cost security system for home applications in which Passive Infrared (PIR) sensor has been implemented to sense the motion of human through the detection of infrared radiated from that human body.			Embedded System Prof. A. N. Shire


	Automatic plant irrigation system with dry /weight soil sense and controlling 230 volt water pump for agricultural application	The objective of this work is to provide an approach that helps farmers to easily access, manage and regulate their irrigation systems for the water needs of crops using SMS technology for data transportation. This project uses Arduino board, which consists of ATmega328 Microcontroller.		Embedded System	Prof. P. M. Pandit


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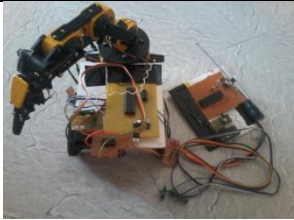

Department	Project Title	Abstract	Photo	Thrust Area	Project Guide
Electronics and Telecommunication Engineering	Indexing and Matching for 2D Object Recognition Using Shock Graph	In this project, a novel shock graph computation algorithm is used for shape matching and retrieval, using one of the skeleton-based methods called "shock graphs".		Matlab	Prof. P.M. Pandit
	RFID and Digital Password Based Vehicle Locking and Ignition System	This system uses microcontroller to control the unlocking of the vehicle with digital password		Embedded System	Prof. U.W. Kaware


	<p>BER Performance Comparison of OFDM and OVDN system in AWGN channel</p>	<p>Orthogonal frequency division multiplexing (OFDM) system is one of the most promising technologies for current and future wireless communications. It is a form of multi-carrier modulation (MCM) technologies where data bits are encoded to multiple sub-carriers, while being sent simultaneously</p>		<p>Matlab</p>	<p>Prof. A. R. M. Khan</p>
	<p>Smart Interactive Display Using AVR</p>	<p>Wireless communication has announced its arrival on big stage and the world is going mobile. We want to control everything and without moving an inch. This remote control of appliances is possible through Embedded Systems. The use of "Embedded System in Communication" has given rise to many interesting applications that ensures comfort and safety to human life. The main aim of the project is to design a SMS</p>		<p>Embedded System</p>	<p>Prof. A. B. Rathod</p>

		driven automatic display toolkit which can replace the currently used programmable electronic display			
Electronics and Telecommunication Engineering	Real Time FPGA Envyng and Controlling Application of Automated Wheel Chair for Handicapped	The work describes, design of automated wheelchair for physically disabled person based on eye motion detection and joystick. IR sensor is used for Obstacle Detection, this Module makes use of IR pair Tx/Rx for Detecting Obstacle in front and takes preventive measure and intimate user by means of Vibrators.		Embedded System	Prof. N. S. Gawai
	GSM Based Vehicle Position, Accident Place Detection and Alcohol Detection with Auto Braking System	The GPS based vehicle accident identification module contains a vibrating sensor and a GPS modem connected to the microcontroller. When an accident occurs, the vibration sensor gives the signal to the microcontroller, which sends the information to the LCD display through GSM network.		Embedded System	Prof. B. M. Faruk


	Embedded Based Conveyance Authentication and Notification System	This system uses microcontroller and GSM with Notification on LED display		Embedded System	Dr. S.M. Gulhane
	Discovering Shape Classes Using Tree Edit-Distance and Pairwise Clustering	In this project, implementation of an algorithm for comparing shapes by computing the edit distance between their shock trees.		Matlab	Prof. P.M. Pandit
	RFID Based Attendance System For Students	This project reviews some of the monitoring systems and developed an RFID based student attendance system. The reports can be generated in real-time processing, thus, provides valuable information about the students commitments in attending the classes.		Embedded System	Prof. A.R.M.Khan
	FPGA Based Edge Detection	Most hardware implementations are faster than its corresponding software implementations. So implementing edge detection (for tumor detection) in hardware will be more efficient. Since FPGA have got the added feature of		Embedded System	Prof. P. D. Pawar


		parallelism, the edge detection can be effectively implemented			
	Synthesis of Active-Mode Power Gating Circuits	The physical design of AMPG circuits is also difficult due to large number of virtual ground that must be isolated. The project addresses this issue by integrating placement with power network synthesis.		Embedded System	Prof. P. G. Kaushik
	Matrix Multiplication Using Cannon and Fox Algorithm	A number of parallel formulations of dense matrix multiplication algorithm have been developed. For arbitrarily large number of processors, any of these algorithms or their variants provides nearly linear speedup for sufficiently large matrix sizes.		Parallel Computing	Prof. A. B. Rathod
	Authenticated GSM based display toolkit using LED dot matrix.	In this project, GSM based led scrolling display board using microcontroller AT89C52 is made.		Embedded System	Dr. S.M. Gulhane

	Gesture Controlled Pick and Place Robot	The main objective of the project is to design and develop the Pick and place Robot controlled by natural arm movements whose data is acquired through the use of accelerometers. The development of this project is based on ATmega16 platform.		Embedded System	Prof. U.W. Kaware
	Image Processing Based Feature Extraction of Indian Currency Notes	The main object of this project is to use NEURAL NETWORKS for detection of the counterfeit Indian Paper Currency by matlab.		Matlab	Prof. P. D. Pawar
Electronics and Telecommunication Engineering	Implementation of System Probabilistic Model Using Simu-link	In this project we develop Probabilistic model of the clock gating network that allows as to quantify the expected power saving and the implied overhead			Prof. P. G. Kaushik
	GPS Enabled Emergent Tracing and Nearest Facility System Based on DVR Algorithm	This work is an attempt to design a tracking unit for the emergency situations that uses the global positioning system (GPS) to determine the precise location of a person and to provide		Embedded System	Prof. N. S. Gawai

		emergency facilities that are most nearby to the affected person. In this project, Atmega32 Microcontroller with Sim300 GSM module is used.			
	Touch Screen Based Advanced Ordering System for Restaurant	In this Project, a fully automated ordering system in which the conventional paper based menu is replaced by a more user friendly touch screen based menu card. The system consists of microcontroller which is interfaced with the input and output modules. The input module is the touch screen sensor which is placed on GLCD to have graphical image display, which takes the input from the user and provides the same to the microcontroller. The output module is a RF module which is used for communication between system at table and system at ordering department.		Embedded System	Prof. B. M. Faruk

Session: 2012-13

Department	Project Title	Abstract	Photo	Thrust Area	Project Guide
Electronics and Telecommunication Engineering	Advanced Authenticated Wireless Notice board Display	This systems uses microcontroller with GSM module with SMS based LED display		Embedd ed System	Prof. S. M. Gulhane
	The group wise medical axis transform for fuzzy skeletonization and Pruning	In this project, we propose a novel shock graph computation algorithm. Object recognition and shape matching are important issues in the field of image processing. Extraction and application of skeleton of a shape is widely used in these fields.		Matlab	Prof. P.M. Pandit
	GSM Based Vehicle Accident Information System	The GPS based vehicle accident identification module contains a vibrating sensor and a GPS modem connected to the microcontroller. When an accident occurs, the vibration sensor gives the signal to the microcontroller, which sends the information to the LCD display through GSM network.		Embedd ed System	Prof. U.W. Kaware
	Intelligent bath water temperature controller :an anfis approach	In this project two important aspects: design & simulation of Adaptive Neuro Fuzzy Inference System based controller is done. This is used for the regulation of bath water temperature and effective use of LPG.		Matalb	Prof. A.R.M. Khan
	Tumor Recognition in Wireless capsule endoscopy images using textural features and SVM based feature selection	Cancer is a very common disease and it is threatening human life now a days. It has been reported that GI-tract-related cancers of colon, stomach, and rectum have been ranked the third, fourth, and fifth cause of cancer deaths, respectively, in Hong		Matlab	Prof. P.D. Pawar

		<p>Kong.</p> <p>One of the major requirements in such analysis is availability of images of concerned part. The images that can be used for studying patient's condition may come from various sources</p>			
	<p>Improve Clock Gating through Power optimal enable function selection</p>	<p>Clock gating technology can reduce the consumption of clock signals' switching power of flip-flops. The experimental results show that the algorithm will get as much power saving as 3 times of that of the original clock gating circuits, and all benchmarks can run in tens of seconds.</p>		<p>Embedded System</p>	<p>Prof. P.G. Kaushik</p>
	<p>Advance Home Automation With Non Humid Cooling</p>	<p>The aim of project is to bring out a novel evaporative air cooling system which can be installed in the existing evaporative air coolers to improve its effectiveness using microcontroller.</p>		<p>Embedded System</p>	<p>Prof. A.B. Rathod</p>
	<p>Development of Data acquisition and green house control system based on GSM</p>	<p>This project explains the design and implementation of electronic system based on GSM (Global System for Mobile communication) for controlling the climate parameters by SMS (Short Message Service) in greenhouse. The main purpose of this system conception is the remote control of the climatic parameters (Temperature, Relative humidity of air, Light and Soil moisture)</p>		<p>Embedded System</p>	<p>Prof. N.S. Gawai</p>
	<p>GSM Operated Microcontroller Based Visitor Counter and Power Controller</p>	<p>Project "GSM Operated Microcontroller Based Visitor Counter and Load Control" is a reliable circuit that takes over the task of controlling the</p>		<p>Embedded System</p>	<p>Prof. S. M. Gulhane</p>

		room lights as well us counting number of persons/ visitors in the room very accurately.			
	Skeletonization of Sparse Shapes Using Dynamic Competitive Neural Networks	In this project, we propose a novel shock graph computation algorithm. Object recognition and shape matching are important issues in the field of image processing. Extraction and application of skeleton of a shape is widely used in these fields.		Matlab	Prof. P.M. Pandit
	Wavelet based Iris recognition system	This systems based on MATLAB with eyes recognition system		Matlab	Prof. U.W. Kaware
	Implementation and BER analysis of MB-OFDM system in IEEE channel	The software project addresses issues in the design of a communications system over a wireless link is to deal with multi-path fading which causes a significant degradation in terms of both the reliability of the link and the data rate.		Matlab	Prof. A.R.M. Khan
	Adaptive power line Interference canceller for Electrocardiography	The project presents the removal of power line interference and other single frequency from ECG signal using the advanced adaptive filter. The report is based on digital signal processing (DSP) techniques with MATLAB package, with the emphases on design of adaptive algorithm.			Prof. P.D. Pawar
	Reduction of dynamic and static power reduction in digital CMOS circuit	One of the major dynamic power consumers is the system's clock signal, typically responsible for up to 50% of the total dynamic power consumption. Clock		Embedded System	Prof. P.G. Kaushik

		network design is a delicate procedure, and is therefore done in a very conservative manner under worst case assumptions.			
	Parallel matrix algorithm and application in multicore processor.	This is software based project which uses the multicore processor in parallel computing to increase the the computing speed of sequential program.		Parallel Computing	Prof. A.B. Rathod
	GSM based LPG leakage alarm automatic blocking system.	This project is useful for LPG gas leakage		Embedded System	Prof. N.S. Gawai