



# Vivekananda College of Engineering & Technology

[Sponsored by Vivekananda Vidyavardhaka Sangha, Puttur ®]

Affiliated to Visvesvaraya Technological University

Approved by AICTE New Delhi & Govt of Karnataka

PRJ-
Projects
List
15/06/2016

## List of Projects: 2015-16

SNo	Dept	Guide	USNs	Title	Status	Abstract (100 words)
1	CSE	Prof. Ramakrishna	4vp12cs008 4vp12cs034 4vp12cs015 4vp12cs013	Digitizing Kids Literacy And Healthcare Via E-Alert	Functional	In this busy world people often fail to remember some important commitments such as kids next polio date , age of joining to certain schools and other vaccination dates. Hence it is necessary to provide alert messages to their respective cell phones and avoid dilemmas. The main purpose of this project is to provide alert messages to the parents regarding kids literacy and healthcare. The project mainly consists of three modules; Doctor, Taluk office, School. The doctor uploads the details of the newly born baby for registration. The baby is provided with a number by which he can retrieve details of the baby as per the requirements. As per the registration details, the doctor will upload the test details of the baby and next polio date will be sent via SMS. As per the reference number given by the doctor, the registration form is completed in the taluk office and system generated random ID is created to generate the birth certificate and will be sent to the parents via SMS. This unique ID is used by the parents to register the baby to school. Thus the system will ensure that the registration has been successfully done and it sends alert message to the parents. Different schools are interconnected through blog.
2	CSE	Prof.Mahesh Prasanna	4vp13cs003 4vp13cs018 4vp12cs049 4vp12cs047	Image Retrieval System	Functional	The CBIR tends to index and retrieve images based on their visual content. CBIR avoid many evils connected with conservative ways of retrieve images by keywords. Thus, a rising interest in the area of CBIR has been known in current years. The arrangement of a CBIR system mainly depends on the particular image illustration and similarity matching

Nehru Nagar, Puttur - 574 203, DK, Karnataka State – INDIA.

Phone :+91-8251-235955, 234555 Fax : 236444, Web: [www.vcetputtur.ac.in](http://www.vcetputtur.ac.in), E-Mail: [principal@vcetputtur.ac.in](mailto:principal@vcetputtur.ac.in)

Page: 1



# Vivekananda College of Engineering & Technology

[Sponsored by Vivekananda Vidyavardhaka Sangha, Puttur ®]

Affiliated to Visvesvaraya Technological University

Approved by AICTE New Delhi & Govt of Karnataka

PRJ-
Projects
List
15/06/2016

## List of Projects: 2015-16

						function working. The CBIR tends to index and retrieve images based on their visual content. CBIR avoids many problems associated with traditional ways of retrieving images by keywords. Thus, a growing interest in the area of CBIR has been established in recent years. The performance of a CBIR system mainly depends on the particular image representation and similarity matching function employed. So a new CBIR system is proposed which will provide accurate results as compare to previous developed systems. Soft system will be used in this system. Based Image recovery system which evaluates the similarity of each image in its data accumulate to a query image in terms of various visual features and return the image with desired range of similarity.
3	CSE	Prof.Nithin Kurup	4vp12cs007 4vp12cs006 4vp12cs023 4VP12cs03 8	Wireless Sensor Networks: Protocols And Security Issues	Functional	Evaluation of the vulnerabilities of existing protocols to battery depletion attack. Show simulation results of AODV and DSR in the presence of single vampire. Illustration of two attacks namely: First attack is Carousel attack and second attack is Stretch attack. Here we are implementing PLGP algorithm to prevent Vampire attack.
4	CSE	Prof. Sharath	4vp12cs022 4vp12cs030 4vp12cs050 4vp12cs024	Secure Storage Of Data Through Encryption And Splitting Over Cloud	Functional	User need to create an account in this application. He can use this application by giving username and password in login phase. After the successful login, he can upload files such as text,image, audio or video's. He can choose the file from his drive. After uploading,the uploaded file is split into constituent parts. Texts are split based on its length of its characters. Files are split based on file size. Each split part is encrypted using AES algorithm and stored randomly in different cloud databases. When the user want to retrieve the

Nehru Nagar, Puttur - 574 203, DK, Karnataka State – INDIA.

Phone :+91-8251-235955, 234555 Fax : 236444, Web: [www.vcetputtur.ac.in](http://www.vcetputtur.ac.in), E-Mail: [principal@vcetputtur.ac.in](mailto:principal@vcetputtur.ac.in)

Page: 2



# Vivekananda College of Engineering & Technology

[Sponsored by Vivekananda Vidyavardhaka Sangha, Puttur ®]

Affiliated to Visvesvaraya Technological University

Approved by AICTE New Delhi & Govt of Karnataka

PRJ-
Projects
List
15/06/2016

## List of Projects: 2015-16

					file,he specifies the file by its name. The specified file is decrypted and merged into original file during download phase.
5	CSE	Prof.Nithin Kurup	4vp12cs004 4vp12cs040 4vp12cs033 4vp12cs005	Effectively Balancing Energy In Wireless Sensor Networks With Non Uniform Node Distribution	Functional Clustering is an efficient method for increasing the lifetime of wireless sensor network systems. The energy consumption associated with the cluster based wireless sensor network systems is more inconsistent. This imbalance in the energy consumption is due to the non-uniform node distribution. To avoid this problem, introduce a cluster based routing protocol with non-uniform node distribution. In clustering algorithm, the cluster head can choose their next node which has higher residual energy and lesser number of member nodes. These helps in achieving load balance among cluster heads. The main concern in our project is to reduce the energy consumption and extend the network lifetime.
6	CSE	Prof.Pramod Kumar PM	4vp12cs009 4vp12cs019 4vp12cs020 4vp12cs036	Ensuring Data Storage Security In Cloud Computing	Functional Cloud computing is a trending technology in the field of information technology as it allows sharing of resources over a network .The reason cloud computing gained traction so rapidly was because of its performance, availability and low cost among other features. The focus of this project is on the problem of data storage security in cloud. The first phase consists of data encryption using Caesar Cipher and modular Arithmetic algorithm before storing the data. Second phase consist of data retrial by the client. As per the concept of OTP, users who want access their data need to be authenticated to avoid data from being compromised. Whenever the user wants to view or download his file he is



# Vivekananda College of Engineering & Technology

[Sponsored by Vivekananda Vidyavardhaka Sangha, Puttur ®]

Affiliated to Visvesvaraya Technological University

Approved by AICTE New Delhi & Govt of Karnataka

PRJ-
Projects
List
15/06/2016

## List of Projects: 2015-16

					requested to enter the one time password sent to his mobile.
7	CSE	Prof. Harivinod	4vp12cs017 4vp12cs039 4vp12cs027 4vp12cs043	Video-Synopsis – An Automatic Surveillance Video Abstracting System	Functional The power of video over still images is the ability to represent dynamic activities. But video browsing and retrieval are inconvenient due to inherent spatiotemporal redundancies, where some time intervals may have no activity, or have activities that occur in a small image region. Video synopsis aims to provide a compact video representation, while preserving the essential activities of the original video.
8	CSE	Prof. Nischay Hegde	4vp12cs010 4vp12cs042 4vp12cs032 4vp12cs044	Wild Life Monitoring Using Wireless Sensor Network	Functional Wireless Sensor Network is one of the real time network that can be constructed using tiny devices called sensor nodes. It consists of a large population of sensor nodes, capable of computation, communication and sensing. Most routing algorithms for sensor network focus only on energy efficient paths. In wireless sensor networks, unreliability of the links and the limited resources create considerable obstacles to routing. Routing algorithm should consider not only energy efficient path but also the robustness of path. Using metrics, we introduce a new algorithm called Distributed Link Quality Aware Routing (DLQAR). It is designed to generate routing paths in a decentralized manner, while considering the energy efficiency and robustness of paths. In proposed protocol, sensor node makes decision of routing based on robustness of received link, thereby reducing the frequency of possible node failure and ultimately minimizing the energy consumption. Comparative analysis of DLQAR with the widely used AODV shows that energy cost along with link quality should be considered to minimize energy



# Vivekananda College of Engineering & Technology

[Sponsored by Vivekananda Vidyavardhaka Sangha, Puttur ®]

Affiliated to Visvesvaraya Technological University

Approved by AICTE New Delhi & Govt of Karnataka

PRJ-
Projects
List
15/06/2016

## List of Projects: 2015-16

						consumption. Minimum energy consumption across the network thereby extending the network lifetime.	
9	CSE	Prof. Bharathi k	4vp12cs002 4vp12cs014 4vp12cs045 4vp12cs025	Farmer Friendly Information System	Android	Functional	The soul of India resides in the work of farmers. Farmers make up about 24.8 per cent of India's total workforce, with over 118.9 million farmers spread across the length and breadth of the country. Agriculture is the largest livelihood provider in India contributing a significant percentage to its GDP. But Farmers are facing lack of information about market, machineries, diseases and their control and harvesting methods. Our mobile application” Farmer Friendly Android Information System “is intended to give informations about several fields in order to get a proper yield and gain sustainable profit
10	CSE	Prof. Roopa G.K	4vp13cs026 4vp12cs046 4vp12cs031 4vp12cs029	Destination Alert Application	Android	Functional	This application is used for tracing the destination of the user to which he want to reach and alert him with a notification and an alert tone. The given input destination is searched in Google maps using Google maps API and if the position is not present in the map then that destination will be rejected with a pop-up message. The user must always input a destination which is present in the Google map. Based on the destination provided by the user the distance from the current position to the destination is calculated and the time required to reach the destination is shown to the user
11	CSE	Prof.Mahesh Prasanna	4vp12cs032 4vp12cs048 4vp12cs021	Interfacing The Pc Using Android Mobile	Pc	Functional	The PC can be controlled from remote place with your Smartphone device with the help of WIFI. It means common function of computer controlled using wireless network. This application can performed on android based mobile. It requires server application for

Nehru Nagar, Puttur - 574 203, DK, Karnataka State – INDIA.

Phone :+91-8251-235955, 234555 Fax : 236444, Web: [www.vcetputtur.ac.in](http://www.vcetputtur.ac.in), E-Mail: [principal@vcetputtur.ac.in](mailto:principal@vcetputtur.ac.in)

Page: 5



# Vivekananda College of Engineering & Technology

[Sponsored by Vivekananda Vidyavardhaka Sangha, Puttur ®]

Affiliated to Visvesvaraya Technological University

Approved by AICTE New Delhi & Govt of Karnataka

PRJ-
Projects
List
15/06/2016

## List of Projects: 2015-16

						your computer. It requires device running on the Android operating system with some sort of wireless connection between them. By getting IP address from the PC and directly browse it on mobile phone. The PC function can be accessed using mobile. Mobile user can access information from PC on remote place due to the internet connection. Access the PC directly from mobile by using mobile keys and inbuilt keyboard.
12	CSE	Prof. Nagaraj	4vp12cs079 4vp12cs070 4vp12cs072 4vp12cs066	Online Library Management System	Functional	This paper proposes and implements a computerized system to maintain all the daily work of library. This paper has many features which are generally not available in normal library management systems like facility of user login. It also has a facility of admin login through which the admin can monitor the whole system.
13	CSE	Prof. Santhosh M	4vp13cs402 4vp13cs401 4vp12cs405 4vp12cs071	A Hybrid Cloud Approach For Securing Data With Authorized Deduplication	Functional	Data deduplication is a technique for reducing the amount of storage space an organization needs to save its data. In most organizations, the storage systems contain duplicate copies of many pieces of data. For example, the same file may be saved in several different places by different users, or two or more files that aren't identical may still include much of the same data. Deduplication eliminates these extra copies by saving just one copy of the data and replacing the other copies with pointers that lead back to the original copy. Companies frequently use deduplication in backup and disaster recovery applications, but it can be used to free up space in primary storage as well. To avoid this duplication of data and to maintain the confidentiality in the cloud we using the concept of Hybrid cloud. To protect the confidentiality of sensitive data while supporting deduplication, the convergent



# Vivekananda College of Engineering & Technology

[Sponsored by Vivekananda Vidyavardhaka Sangha, Puttur ®]

Affiliated to Visvesvaraya Technological University

Approved by AICTE New Delhi & Govt of Karnataka

PRJ-
Projects
List
15/06/2016

## List of Projects: 2015-16

					encryption technique has been proposed to encrypt the data before outsourcing. To better protect data security, this paper makes the first attempt to formally address the problem of authorized data deduplication	
14	CSE	Prof.Harivinod N	4vp12cs055 4vp12cs052 4vp12cs060 4vp12cs012	Automatic Leaf Identification System	Functional	Regardless of its vast usefulness, many important species of plants are facing extinction. It is estimated that around 27,000 species become extinct each year, which amounts to an alarming number of about 3 per hour. Botanists need to identify near extinct plants, before climate change and development erase their living record. Reasons for extinction include global warming, introduction of exotic and hybrid species, habitat loss, disease, pollution, lack of knowledge and over exploitation. Out of these reasons, lack of knowledge contribute more, which necessitates the need for auto-mated tools that can help botanists, researchers and students to identify plants from leaf images.
15	CSE	Prof.Roopa G.K	4vp12cs061 4vp12cs059 4vp12cs078 4vp12cs062	Online Streaming	Functional	The traditional network can only provide best-effort services for real-time, continuous, interactive and large amounts of data with features, such as video transmission, which cannot guarantee its quality. The Real-time Transport Protocol (RTP) is used more and more widely in the streaming media services such as real-time video in the internet. The algorithm of RTP adaptive transmission control is an important factor to guarantee the quality of video transmission services. The algorithm can enhance the stabilization of RTP flow, decrease the jitter, and utilize network bandwidth efficiently.
16	CSE	Prof. Nischay Hegde	4vp12cs067	Ciphersym	Functional	Cryptography is the science of using mathematics to encrypt

Nehru Nagar, Puttur - 574 203, DK, Karnataka State – INDIA.

Phone : +91-8251-235955, 234555 Fax : 236444, Web: [www.vcetputtur.ac.in](http://www.vcetputtur.ac.in), E-Mail: [principal@vcetputtur.ac.in](mailto:principal@vcetputtur.ac.in)

Page: 7



# Vivekananda College of Engineering & Technology

[Sponsored by Vivekananda Vidyavardhaka Sangha, Puttur ®]

Affiliated to Visvesvaraya Technological University

Approved by AICTE New Delhi & Govt of Karnataka

PRJ-
Projects
List
15/06/2016

## List of Projects: 2015-16

			4vp12cs056 4vp12cs076 4vp11cs400			and decrypt data. Cryptography enables you to store sensitive information or transmit it across insecure networks so that it cannot be read by anyone except the intended recipient. A cryptosystem (Cipher) is pair of algorithms that convert plaintext to cipher text and back. A cryptographic algorithm works with a key – a word, number, or phrase- to encrypt the plaintext. There are two types of cryptography, symmetric (secret key) and asymmetric (public key). This project focuses on symmetric key cipher system. These systems use shared secret information called key to perform basic operations i.e., Encryption and Decryption. This work aims at providing an IDE (Integrated Development Environment) for the technocrats in the area of cryptography to design and analyze key generator. This platform assists to design key generators taking Linear Feedback Shift Registers (LFSRs). This work also provides tools for assessing the performance of the designed key generator. The proposed work also reduces the complexity in configuring the overall setup. Configuration includes deciding number and size of participating registers, primitive polynomials, tapping and clocking bits and majority function.
17	CSE	Prof. Ramakrishna	4vp12cs053 4vp12cs054 4vp12cs051 4vp12cs064	V-Care.Net	Functional	Healthcare is a field in which accurate record keeping and communication are critical and yet in which the use of computing and networking technology lags behind other fields. Healthcare professionals and patients are often uncomfortable with computers, and feel that computers are not central to their healthcare mission, even though they agree that accurate record keeping and communication are essential to good healthcare. In the current digital era, technology is nulling mankind. The evolution of technology

Nehru Nagar, Puttur - 574 203, DK, Karnataka State – INDIA.

Phone : +91-8251-235955, 234555 Fax : 236444, Web: [www.vcetputtur.ac.in](http://www.vcetputtur.ac.in), E-Mail: [principal@vcetputtur.ac.in](mailto:principal@vcetputtur.ac.in)

Page: 8



# Vivekananda College of Engineering & Technology

[Sponsored by Vivekananda Vidyavardhaka Sangha, Puttur ®]

Affiliated to Visvesvaraya Technological University

Approved by AICTE New Delhi & Govt of Karnataka

PRJ-
Projects
List
15/06/2016

## List of Projects: 2015-16

					comforts all classes of people to access many such services almost within no time. Medical field is also in its path towards upgradation. An online medical service Vcare.net is provided for this purpose. Vcare.net is a web application enables people to the available quick, better, safe and secure medical service. Effective and timely communication between patients, physicians, pharmacists, and other healthcare professionals is vital to good healthcare. This services helps doctors, receptionist, doctor to record day-to-day services provided to the people which would be stored for many years. Vcare.net is also available as an android application for ease of access and use.
18	CSE	Prof. Savitha	4vp12cs080 4vp12cs077 4vp12cs063 4vp12cs082	Collabarative Data Publishing Using M-Privacy	Functional In any application if any documents need to be sent to the other person, that data will first store in the server then it will send to the other person. Multiple storage of same data is known as non-collaboration of data. If the received person downloads the document or file and then directly forwards it from his inbox, there is no need to store it once again to the server. There occurs transfer of data with high data rate. This is known as collaboration of data. Another possibility is that the received person downloads the file and composes it and then transfers to the third party which takes more time to transfer the file than the direct forward. A new technology of applying m-privacy between the sender and receiver is studied in the paper. This application tells about the change in the ownership. If the file has been modified by the second party which is being received by the first party then the third party will get to know that the file has been modified and it's not the original data content of the second party.



# Vivekananda College of Engineering & Technology

[Sponsored by Vivekananda Vidyavardhaka Sangha, Puttur ®]

Affiliated to Visvesvaraya Technological University

Approved by AICTE New Delhi & Govt of Karnataka

PRJ-
Projects
List
15/06/2016

## List of Projects: 2015-16

19	CSE	Prof. Nagaraj	4vp12cs069 4vp12cs081 4vp12cs065 4vp11cs057	User Search Goal Prediction Algorithm Based On Feedback Session	Functional	<p>Identifying or inferring user's search goal from given query is a difficult job as search engines allow users to specify queries simply as a list of keywords which may refer to broad topics, to technical terminology, or even to proper nouns that can be used to guide the search process to the relevant collection of documents. Information needs of users are rep-presented by queries submitted to search engines and different users have different search goals for a broad topic. Some-times queries may not exactly represent the user's information needs due to the use of short queries with ambiguous terms.</p> <p>Hence to get the best results it is necessary to capture different user search goals. These user goals are nothing but information on different aspects of a query that different users want to obtain. The judgment and analysis of user search goals can be improved by the relevant result obtained from search engine and user's feedback. Here, feedback sessions are used to discover different user search goals based on series of both clicked and unclicked URL's. The pseu-do-documents are generated to better represent feedback sessions which can reflect the information need of user. With this the original search results are restructured and to evaluate the performance of restructured search results, classified average precision (CAP) is used. This evaluation is used as feedback to select the optimal user search goals</p>
20	CSE	Prof. Bharathi k	4vp13cs400 4vp12cs057	City Community Portal	Functional	The modern IT society is based on Internet access, and many corporations, organizations and persons take advantage of

Nehru Nagar, Puttur - 574 203, DK, Karnataka State – INDIA.

Phone : +91-8251-235955, 234555 Fax : 236444, Web: [www.vcetputtur.ac.in](http://www.vcetputtur.ac.in), E-Mail: [principal@vcetputtur.ac.in](mailto:principal@vcetputtur.ac.in)

Page: 10



## Vivekananda College of Engineering & Technology

[Sponsored by Vivekananda Vidyavardhaka Sangha, Puttur ®]

Affiliated to Visvesvaraya Technological University

Approved by AICTE New Delhi & Govt of Karnataka

PRJ-
Projects
List
15/06/2016

### List of Projects: 2015-16

			4vp12cs073 4vp12cs409			the increased accessibility and flexibility that the Internet provides for products, services and information. The growth of a city depends on the people who live there, places which are located there and events which happen there. A City will have businesses run by people who live there. Businesses thrive when people buy things and services. These businesses are run from places such as Shops, Malls and Offices. A City will have places of interest like temples or place of tourist attraction. Some people might recognize the city through those places, which make that city well known among other places.
21	CSE	Prof. Raghavendra T.K	4vp12cs074 4vp12cs404 4vp12cs084	Number Plate Recognition Using Matlab	Functional	This paper proposes an algorithm that automatically reads license plate from videos that has taken from personal devices. Unlike commonly used license plate reader in toll payment or road control system, video from personal devices usually has more variation in viewing angle, resolution, shutter speed and so on. This work read single frame from video first, then extract the license plate by detecting high-density vertical edge areas and filtered by color and boundary features. Then the preprocessing step automatically correct the rotation of the image, remove the background noise and segment the character portion of the license plate. Lastly, this algorithm recognizes plate with template matching and filters the peaks by peak intensity and coordinates. Based on these, videos with multiple frames can improve the overall accuracy and reliability.



## Vivekananda College of Engineering & Technology

[Sponsored by Vivekananda Vidyavardhaka Sangha, Puttur ®]

Affiliated to Visvesvaraya Technological University

Approved by AICTE New Delhi & Govt of Karnataka

PRJ-
Projects
List
15/06/2016

### **List of Projects: 2015-16**