ITWS III Projects, 2007

Name of the Project	Faculty Name	Project Details	Centre	Number of Students (max.)
DB mobile link	Dr. Kamalakar Karlapalem	How do I provide access to a DBMS data through mobile -- in particular to students data through sms	CDE	2
Computer Program animation DUEX	Dr. Kamalakar Karlapalem	Continuation of last year project -- check with Mohd Asrar. Need to extend his code.	CDE	2
Wiki CDE	Dr. Kamalakar Karlapalem	Wiki driven website for CDE with individual management of the site with global policies.	CDE	2
Project 4	Dr. P.J.Narayanan	Details not mentioned	CVIT	2
Data Mining	Dr. Vikram Pudi	Data mining on SPOJ (Sphere Online Judge)	CDE	2
Widgets	Dr. Kamalakar Karlapalem	Making a web page like igoogle where one can drag and make his own home page .	CDE	2
Powerpoint Clone	Dr. Vikram Pudi	It's making a PowerPoint Clone	CDE	3
Media Management portal	Dr. Vikram Pudi	Python based localhost media managemet portal	CDE	4
FYI	Dr. Maj.Gen.Dr.R.K.Bagga	Mentor:Vijay	LTRC	2
Website Development for the PSRC	Dr. Amit Jain	Project involves the development of a new website for the Power System Research Center. The website should also host the projects done at the PSRC. The center specific details will be provided to the students	LTRC	2
Word Search Interface	Dr. Dipti Misra Sharma	Mentor:Bhargava and Karteek The project involves creating a GUI for searching a word in one language and its corresponding word in another using exsisting morph-analyzers and a word generator.	LTRC	2

Sentence Extractor	Dr. Dipti Misra Sharma	Mentor:Samar The tool will search for sentence/words based on user specified patterns. The user will give the query using a predefined GUI.	LTRC	3
Discourse Annotation Tool	Dr. Dipti Misra Sharma	The tool will annotate a story (collection of sentence) for discourse level information. The tool allows the user to mark certain words and their corresponding dependencies in the text using GUI.	LTRC	2
Dictionary Handling Interface	Dr. Soma Paul	No. of Students: 2 Skills: Java Description: The interface will allow the user to do various tasks related to the dictionaries. Such tasks could be read, write etc. Such a setup will also allow us to extend the task for various other tasks such as word sense disambiguation annotation. Deliverable: A GUI with above functionality. Ongoing: No Mentor: Samar and Manohar	LTRC	2
Re-designing LTRC website	Dr. Soma Paul	Students required: 1 Skills Needed : Perl /C , CGI Description: The project is to re-design LTRC external website. Simple-Informative-Original Design Better organization of projects Improving lookup interfaces Better access of internal resources and links to external tools Links to courses the lab is offering Office hours of faculty Facility to update the contents of the webpage easily such as list of people, projects etc. Continuation of Earlier Project : No Mentor: Sriram V / samar	LTRC	1
Building a GUI for Spanning Tree in a Network Graph	Dr. Amit Jain	Spanning tree is a tree connecting all nodes of a network graph without making any loop. Project involves the development of a GUI for the visualization of the spanning tree in a network graph. This has to be web enabled as well as a tool	LTRC	2

		for downloading.		
GUI for Modal Analysis of Structures	Dr. Pradeep Kumar Ramancharla	Mentor: P.V. Dilip Kumar (Ph.D, CASE) A lumped spring mass system will be given -User extracts mass matrix and stiffness matrix from the system which becomes input for the program -Program evaluates frequency and mode shapes (I shall give the algorithm) -Plot the mode shape and animate them. Student must be good in writing program in Matlab	EERC	2
GUI for Producing Sine curve from a given video	Dr. Pradeep Kumar Ramancharla	Mentor: P.V. Dilip Kumar (Ph.D, CASE) -Video to be converted to 25 pics per second -Read a color from a given image. -Program should show the sin curve according to the reading of a point from an image Student must be good in Maths and graphics	EERC	2
Website Development for EERC	Dr. Pradeep Kumar Ramancharla	Mentor: P.V. Dilip Kumar (Ph.D, CASE) -html pages will be given -convert them into dynamic textlinks -create user loginid -attach given zip files for download -some other additional features Note: Student must be good in html and perl	EERC	3
Wave Transcription	Dr. S.P.Kishore	Mentor: Raghavendra E (raghavendra@iiit.ac.in) Tool which can play, pause, stop, back, forward and transcribe the wav file with user friendly and faster in performance. This is a tool needed to transcribe the wave files (speech data in wav format). You need to design an interface using c# whose requirements are as below. 1. Buttons to play, pause, stop, etc,. 2. A box where you could type the speech being played.	LTRC	2
Voice Collection over Skype	Dr. S.P.Kishore	Mentor: Raghavendra E (raghavendra@iiit.ac.in) Module which can record the speech from Skype and save in a server This project is to build an	LTRC	2

		application to record speech remotely through Skype and save the recorded files in a server with the possible metadata like the time of call, duration of call etc Programming Language: VC++ / Skype APIs		2
Spoken Dialog Systems using Voice XML	Dr. S.P.Kishore	Mentor: Venkatesh K (venkateshk@students.iiit.ac.in) Voice XML based script for IIIT Information System Building a Speech based Dialogue System for building IIIT Information systems using Voice XML. Once the System is deployed a number will be given to the application using which a user can call the system and interact with the system for the required information Programming Language: Voice XML	LTRC	3
GUI for Omega eta, Omega theta torsion tool.	Dr. Abhijit Mitra	Mentor :Swati Jain RNA molecules consist of a connected chain of nucleotide bases of four different types. Each nucleotide is associated with structure, sequential connectivity and interaction data. An existing tool built in house in C++, takes atomic coordinates of RNA molecules as input and computes parameters defining certain structural features. The idea is to build a GUI for this in house tool with enhanced interactivity and visualization. The GUI should have the facility for uploading a new RNA file and doing the computations, and should also be able to parse the already computed results according to given parameters for enhanced visualization. Technical environment: Qt, C++ Deliverables: 1. Implementation of enhancements for better visualization and interactivity. 2. Implementation of the parser according to given parameters.	LTRC	1
Building an	Dr. Amit Jain	Mentor: Mr. B. Satish Forecasting	LTRC	2

interface (GUI) for Load Forecasting of an electrical Load		of an electrical Load is an important and primary task in the Electrical Industry. Various conventional techniques like time series, regression and modern techniques like Artificial Neural Networks, Fuzzy logic, Genetic Algorithms are used for forecasting the load ranging from 1 day to 1 week. A database of hourly or half-hourly load and temperature for a period of 2 to 3 years is available. This data has to be stored into the database. Conventional techniques or Modern techniques use this data to forecast the load for the given amount of time. A GUI has to be developed which connects the database and retrieve the data, given as input to the program and produce the results which are shown on the screen. This has to be web enabled as well as a tool for downloading		
TA ship Portal	Dr. V.Ch.Venkaiah	Upliftment of TAship Portal	LTRC	2
Text Editor for Indian languages	Dr. Vasudeva Verma	Mentor:VbSowmya It should perform as an easy to use tool for Data entry in Indian languages	LTRC	2
HR Management	Dr. Vikram Pudi	Mentor:Ms.Shyamala Current System ==============They are maintaining all records with files, for single information also they need to refer files, Like that employee also come and query about their available leave details. Proposed System ===============Through portal Admin can able to a. get all employee details, like exp, joining date, available leaves, salary, their qualification b. Separate track for previous employees & current employees c. Separate login for Employee to know the leave details.	CDE	2

Jobs in IIIT	Dr. Vikram Pudi	Mentor:Ms Shyamala Current system =============== Applicants Sending their resumes to office, after that admin need to go through all applications and short list those Proposed System ================ a. Through portal outsiders able to submit their details for the post. b. Admin can able to 1. add the jobs, 2. view the submitted applications 3. Short list those applications 4. Automatic mail system for short listed candidates	CDE	2
Requesting Certificates	Dr. Vikram Pudi	Mentor: Ms Shyamala Current System =============== For mark sheets, bonofide certificates & ID cards, students are filling the forms in academic office. Proposed system ================ a.Students can able to submit their request through portal b.Admin can view those & send response	CDE	2
Printer Management	Dr. Vikram Pudi	Mentor:Ms Shyamala Who is taking print outs, how many papers, they paid or not To monitor printing a. Separate Track for staff , students. b. details of Who is accessing the printer	CDE	2
CDE Portal	Dr. Vikram Pudi	Mentor : Raghunath Reddy This portal should have links to most of links related to data mining, database and datawarehousing. It should contain free journal ,Proceedings,Archives,Magazines etc.It should have the facility of updation from user by requesting to site administrator. Also it should constantly rank the most frequently accesed	CDE	2

		links and delete the links which are less useful.		2
Stock Market	Dr. Vikram Pudi	Mentor: Hanuma A good Web interface displaying the stock values(on that day),analysing the stock value based on its past performance(through Graphs)etc	CDE	2
Hostel Room Allocation system development	Dr. Vikram Pudi	Mentor:Abhilash Requirements to be met by the portal are as follows: --- *Should be able to tell about Availability of rooms in each hostel. Availability of Guest rooms also. Is it single room or double room. Rent for stying in it. Rooms should be catogerised according to Floors. *Tell the status of each room in Hostel Who is staying in the room. *Should be able to allocate rooms to students on FCFS. This algorithm should take care of rooms preferred by user. *information reg room infrastructure may also be given.	CDE	2
New Student Registration Portal1	Dr. Harjinder Singh	1. As a student is admitted, all charges including **Mess fee** should be taken along with annual fees and all receipts should be given right away. 2. Instantly on registration, (a) Email IDs (based on first name with option to change user id later) and (b) ID cards should be issued and (c) room allotment should be done. Mess portal should be activated the same day; (d) Privilege to borrow books from the library should begin immediately. Anything else that is relevant and done subsequent to registration should be integrated into the admission process.	CCNSB	4
Games & Games1	Dr. Kamalakar Karlapalem	This will be done by multiple teams of two students each --	CDE	2

		each of the group takes one game and implements it.		
project 1	Dr. P.J.Narayanan	Contact Dr.Pjn for Details	CVIT	2
Project- 2	Dr. P.J.Narayanan	Contact Dr Pjn for details	CVIT	2
A GUI for a Word Game in Indian Languages	Dr. Dipti Misra Sharma	Skills Needed : Java GUI Number of Students : 2 Description : There are many word games like Scrabble or Literati in English. Numerous online version are also available. This project aim at building one such game for Hindi. The focus will be on building the GUI. Continuation of Earlier Project : No Mentor: Anil Singh	LTRC	2
To manage/coordinate English-to-Indian Language Project	Dr. Dipti Misra Sharma	Number of students: 1 Skills Needed : Perl /C , CGI Description: Portal to manage and coordinate English-to-Indian Language consortia project Continuation of Earlier Project : No Mentor: Sriram V	LTRC	1
UG Admin Processing1	Dr. Kamalakar Karlapalem	This is a project to be done bt three or four groups of two students each -- looking at various admin aspects of institute	CDE	2
IJCNLP--08	Dr. Maj.Gen.Dr.R.K.Bagga	Preparation of online Registration portal for the 3rd International Joint Conference on NLP	LTRC	2
IJCNLP--08 Accommodation requests website	Dr. Maj.Gen.Dr.R.K.Bagga	Accommodations online website portal for IJCNLP-08 participants	LTRC	2
Project 1: Project Sync	Dr. C.V. Jawahar	Requires: scripting, svn, rsync Description: To synchronize code, writeups and reading material of students and provide presentation.	CVIT	2
Project 2: Digital Book Viewer	Dr. C.V. Jawahar	Requires: Some image processing, mysql, Qt Description:To browse/view/read books scanned as images and stroed in a specific form.	CVIT	2
Project 3: Indian Classical Music and Dance on the Web	Dr. C.V. Jawahar	Requires: scripting, mysql, good-UI Description: Design of a Digital	CVIT	2

		Library for Carnatic Music and Kathakali. This portal should be informative, interesting		2
Project 4: Image Annotation	Dr. C.V. Jawahar	Requires: Some image processing, GUI, Qt Description: An image manipulation tool to annotate the content in the image and store the information in a database.	CVIT	2
Project 5: External project application management	Dr. C.V. Jawahar	Requires: Some php, mysql Description: To manage the external student project applications (to iiit) and make this facility available on the internet.	CVIT	2
Project 6: Visualization and Presentation of Local Language News	Dr. C.V. Jawahar	Requires: Some image processing, GUI, Qt Description: In the previous phase of this project, IL news papers were crawled and locally mirrored in UNICODE (for reading without advt. and minimal bandwidth usage). In this phase, provide better visualization and easy navigation.	CVIT	2
Project 7: Secure Video Transfer on an Intranet	Dr. C.V. Jawahar	Requires: Socket programming, C/C++ Description: Encrypy and transfer video (and any other multimedia content) and communicate on an intranet environment.	CVIT	2
Games & Games2	Dr. Kamalakar Karlapalem	This will be done by multiple teams of two students each -- each of the group takes one game and implements it.	CDE	2
UG Admin Processing2	Dr. Kamalakar Karlapalem	This is a project to be done bt three or four groups of two students each -- looking at various admin aspects of institute	CDE	2
UG Admin Processing3	Dr. Kamalakar Karlapalem	This is a project to be done bt three or four groups of two students each -- looking at various admin aspects of institute	CDE	2
Project Number 1	Dr. Anoop M.	Details not provided	CVIT	2

	Namboodiri			
Project No 2	Dr. Anoop M. Namboodiri	Details Not given	CVIT	3
Email Client	Dr. Vikram Pudi	Making an email client like microsoft	CDE	4
Wave Transcription1	Dr. S.P.Kishore	Mentor: Raghavendra E (raghavendra@iiit.ac.in) Tool which can play, pause, stop, back, forward and transcribe the wav file with user friendly and faster in performance. This is a tool needed to transcribe the wave files (speech data in wav format). You need to design an interface using c# whose requirements are as below. 1. Buttons to play, pause, stop, etc,. 2. A box where you could type the speech being played.	LTRC	2
Web Portal	Dr. Ajit Boparidikar	Web Portal to control Electrical appliances remotely	VLSI	2
Teleconferencing tool	Dr. Vikram Pudi	Tool for teleconferencing(voice only) which can be used inside IIIT.	CDE	2