GTU INNOVATION COUNCIL

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UDISHA Club activities of Bhagwan Mahavir Polytechnic, Surat has taken lead role in inculcating innovation spirit amongst the polytechnic students and empowering Surat Sankul.

Activities Performed During one Year:

1. In September 2011 Mechanical Department had organized an industrial visit for their final year students at **"Utran Power House, Surat"** for Thermal Engg. Subject.
2. During 5th semester Computer Department & Tops Technology, Surat had organized a seminar on ASP.NET.
   Report on ASP.NET Seminar.
- Expert faculties from tops Technology had conducted the Seminar on ASP.NET.
- Around 120 students had attended the Seminar.
- Faculty Members had also attended the Seminar.

PROJECT DETAILS & STATISTICS (Morning Shift)

Serial No	Branch	No of IDPs/UDPs	No of Students
1.	Mechanical	25	117
2.	Computer	27	83
3.	Electrical	10	47
4.	Electronics & Communication	13	48
5.	Information Technology	19	48
	TOTAL	**94**	**343**

Computer Engineering Innovative Projects

Project Title	E-Tutor(Online Tutor)
Team Members	Gheewala Rinkal(096080307002)
	Shaikh Rubina(096080307044)
	Surati Komal(096080307081)
Company Name	Pragma Infotech
External Guide	Yash Agarwal(Mob:8866339896)
Internal Guide	Kania Vipul S.(Mob:9723914842)

Online Tutor describes too many different things at the same time. (see also, here)

1. The **e** has become virtually meaningless because we expect things to be *electronic* by default.

2. It does not distinguish between technology-aided self-study and *live lessons conducted via technology*

But back to our question:

If online learning is so great, as I frequently like to claim, why haven't we seen a startup or existing company take advantage of it?

With a bit of research, excuse me – goggling – you can find a huge variety of startups that are definitely trying. As usual I won't give names because of their ever-changing nature and sometimes very complicated description. Instead I will group them together:

These are generally

1. Online Tutor directories: pick a teacher/tutor, schedule a lesson, learn in private or in groups

2. Interactive Community Platforms: solve quizzes, drill vocabulary and exchange information in a social network

3. Knowledge-Bases: Collections of video, texts or other materials, imagine it like an online textbook

(Note: The term *e-learning* would include all three of them while *online classes* normally would only refer to number one.)

   All of the online learning startups that I can think of fit in either of this category. Correct me if I'm wrong. Also, often they mix different aspects of online learning like communities around knowledge-bases that *also* offer listings of tutors/teachers. There are many of them. But none of them has managed to "*dominate* the market", yet. A tutor provides expertise, experience, and encouragement.: They do not provide "answers," but rather assist in problem solving answer.

Project Title	**Enterprise Tracking System**
Team Members	Vala Kinjal(096080307139)
	Jenish Vaidya(096080307138)
	Shinde Vishnu(096080307140)
Company Name	Pragma Infotech
External Guide	Yash Agarwal(Mob:8866339896)
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ETS is Combination of Website and Application.
1) Desktop Application.
2) Web Portal.

1) Desktop Application:-
1. Keep tracking which System is on and which is off.
2. Keep tracking System Start up time and off time.
3. Keep tracking of all resource changes.
4. Hardware master entry form.
5. Edit hardware information form.
6. Software master entry form.
7. Edit Software information form.
8. Network master entry form.
9. Edit Network information form.

2) Web Portal:-
   This includes details of the web portal part of ETS, i.e. details of the implementation of the web forms. To enter the system the user of the system has to authenticate him first.

For that he has to do login. Here the implementation is divided into five sub parts of menu; each subpart will have its own sub menu. All the categories shown below, has number of web forms. And all are of similar kind. All the categories having a function of report generation. So for each category we will give two to three snap shots

Project Title	Randomized Paper Generator(RPG)
Team Members	Patel Riddhi D.(096080307132)
	Patel Gargi D.(096080307023)
	Patel Bhavini V.(096080307024)
Company Name	Pragma Infotech
External Guide	Yash Agarwal(Mob:8866339896)
Internal Guide	Kajal Surani

A **random number generator (RNG)**) is a computational or physical device designed to generate a sequence of numbers or symbols that lack any pattern, i.e. appear random. Randomized Paper Generator is mostly used for online tests. This application used to automate the test taking process. Random Test Generator-PRO is designed for educators at any level to develop TestBanks of test items from which randomly selected test items are then extracted to create student tests. Each TestBank acts as a repository to house a wide range of test items for specific topics.

There are no limits to the amount of test items which can be stored in each TestBank and no limit to the number of TestBanks which may be created. Test Items may comprise of multiple choice, True/False, Fill-in and/or essay types.

The Test Builder option can be set to identify exactly how many questions to select from each TestBank to create a single test. Random Test Generator-PRO will then randomly select test items within each TestBank requested without selecting the exact same question twice. These tests may be administered on the computer with an optional timer, printed on paper or administered via the Internet.

Several computational methods for random number generation exist, but often fall short of the goal of true randomness — though they may meet, with varying success, some of the statistical tests for randomness intended to measure how unpredictable their results are (that is, to what degree their patterns are discernible).

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Electronics & Communication Projects

Project Title	**Smartcard based Security System**
Team Members	Lakhtariya Shailesh L.(09608011005)
	Pandya Radhika H.(096080311028)
	Joshi Vikash P.(096080311034)
	Desai Sumukh T.(096080311041)
Company Name	Pasupati Print Ltd.
Internal Guide	Jaimish Patel

In recent days, Peoples are so much scared because of Terrorism & also Many Industries have their own privacy concern and to deal with those, some of them use **"Smart card based security system".** This system is used where accessing of a door or any other electrical device using smart card to avoid unwanted employee or person from entering in that particular Industry. This card is same like plastic payment card which has a chip inside it for accessing. This system simplifies security design and Improve Safety.

Information Technology Projects

Project Title	**Non Governmental Organization Website**
Team Members	Vinay Ghayel(096080316037)
	Priyank Soni(096080316049)
	Pankti Waghwala(096080316068)
Company Name	Tech Ascender
Internal Guide	Kesha Vora(Mob:9824335075)

• Non-governmental organizations (NGOs) are non-profit making organizations. There are many different types of NGO including development organizations (e.g. Action Aid), religious groups (e.g. Church of England), charities (e.g. Marie Curie), and environmental agencies (e.g. Greenpeace) etc. NGO's education work focuses on primary education and adult literacy.

• Reflect is an innovative approach to adult literacy and empowerment, whilst Access provides informal primary education for children who can't attend school due to the cost, distance or a need to work or help with household chores. NGO also initiated the Elimu campaign to put pressure on governments to live up to their promises and provide free, quality, primary education to all children. NGO Schools and Youth team produces educational materials for use in any classrooms.

• We will provide you with the teacher training and the necessary materials. All you have to do is spend two hours with the children you are assigned to and make use of the

inputs we provide to teach them conversational English. Our syllabus is the Cambridge English for Schools Syllabus and we have experienced teacher trainers coming in to prepare you for class. All it takes a bit of time investment!

• Computers are as important as anything else in today's world. NGO's Computer volunteers spend two hours a week teaching children the basics of computer usage, and helping them use Language Learning Software such as Tell Me More or Comprise. The computers are there, the kids are there, and so is the syllabus and training.

Project Title	**My Mobile Earning**
Team Members	Patel Bhargavi(096080316042)
	Kanthariya Sneha(096080316044)
	Padalia Neha(096080316060)
Company Name	WITS
Internal Guide	Sangita Patel

My Mobile Earning is a website that gives you opportunity to earn money from your Mobile Phone. There are three ways to earn with MYME. One way is that you can earn by creating a sub panelist under your tree. Another way is also based on creating sub panelist but it is calculated in a month only once with fixed amount and will be added in your particular amount type every month. Last but not the least is that the SMS`s you receive on your Mobile Phone. You will be rewarded some fixed amount per SMS.The company which becomes part of MYME will be authorized to create campaign and send SMS to our panelists. Companies have to pay to Admin to send SMS for advertisement to panelists.

Project Title	**Matrimonial Website**
Team Members	Anant Patel(096080316036)
	Mahajan Kavita V.(096080316014)
	Padhiyar Ruchi N.(096080316004)
Company Name	Softstore Infotech
Internal Guide	Chaitsi Desai

The main objective of Matrimonial Web Application is to provide Grooms and Brides with excellent matchmaking experience by exploring the opportunities and resources to meet true potential partner. Keeping our objective in mind, we have created world renewed online matchmaking services that will touch the souls of millions of people all over the globe. The main purpose of this application is to facilitate matchmaking business by

applying the information in the field. It helps the user by providing profiles of perspective "Bride" or "Groom" and other information regarding them online. User can get information regarding their dream life partner at his / her home at his / her convenience. This application also provides a search utility which helps those users who have a certain criteria of qualities in mind to make online matrimonial easier. Since internet is a pivot for modern business, our project which is based on internet gives a path for modernization in trade.

Proposed Activities to be carried out in 2012-13:

1. Planning to organize extra lectures for the students of pre-final year to give them general idea regarding IDPs, so that they can have enough time to get good IDPs & can have enough time for the analysis work in advanced.

2. In upcoming days planning to arrange at least 2 workshops/seminars from each departments to achieve fruitful result from the students and to give them knowledge of the modern technologies.

3. Also planning for at least one industrial visit from each department for the final year/pre-final year students.

4. We are going to arrange the meeting with the Executive committee members (Staff & Students) periodically so that we can have student's as well as staff's views regarding the improvement of this concept.

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