SGI NEWSLETTER

NNSS'SAMALKHA GROUP OF INSTITUTIONS
AN ISO 9001:2008 CERTIFIED INSTITUTE
(APPROVED BY AICTE & AFFILIATED TO KURUKSHETRA UNIVERSITY)

Project Exhibition of ECE & EEE Department

A Project Exhibition was organized in Samalkha Group of Institutions on 10th December 2012 for B.Tech Final year students for both ECE and EEE streams. On this occasion, Dr. Rajesh Goel, Director, SGI and Mr. Parveen Singla, HOD(ECE), TERRI who was the chief guest motivated the students for having a bright future ahead.

Around 49 students took part in the exhibition and displayed their projects. Each student had to describe their work with the help of charts and power-point presentations. Mr. Parveen Singla who was the external in the project viva went to each desk and querried about the concept they wanted to highlight. During this, the students'team which satisfied the external were declared as winners and rest were awarded with certificate of participation. This event was planned for the whole day. The students were found very excited during the event. This event was a source of motivation to the students who are in 2nd and 3rd year of B.Tech.

On this occasion, Mr. Vikas Uttreja, H.O.D (ECE&EEE),Mr. Vishal Dora, Mr. Sagar Bhosle, Mr. Pankaj Kakkar, Mr. Ankur Saini and other Faculty members were present.

December 2012

Samalkha Faculty of Engineering

B.Tech

- Computer Science & Engineering
- Mechanical Engineering
- Electronics & Comm. Engineering
- Electrical & Electronics Engineering
- Civil Engineering
- Mechanical (Automobile) Engineering
- Aeronautical Engineering

M.Tech

- Electronics & Comm. Engineering
- Computer Science & Engineering
- Mechanical Engineering

Samalkha Faculty of Management

- BBA
- MBA

Samalkha Faculty of PGDM

- PGDM

Project Exhibition organized by Mechanical Engineering Department at Samalkha Group of Institutions

A Project Exhibition was organized in Samalkha Group of Institutions on 10th December 2012 by B.tech Final year students of Mechanical Engineering stream. On this occasion, Dr. Rajesh Goel, Director, SGI, Mr. Kapil Chopra, HOD (ME), and Prof. B.N. Kukreja were present to motivate the students.

Many Students took part in the exhibition and displayed their projects. Each student described the work with the help of charts and power point presentations. Visitors went to each desk and queried about the concept they wished to highlight. During this, the students'team who satisfied the guests were announced as winners. This event was planned for the whole day. The students were found very excited during the event. This event was a source of motivation for the students of 3rd year and 2nd year of Btech.

Many projects as mentioned below were displayed on that day:-

Power produced by Jet Boat – It is the newly concept of developing power in Jet Boat. For this the resistance produced by the water is utilized in revolving the propeller. This energy can be utilize directly or can be stored in a battery, which can be used in emergent conditions.

Energy Park- This project is about the generation of electricity from children's swings. The dynamos are attached with the swing arms, which generate electricity with movements of swing.

Electromagnetic Anti-Lock Braking System– This electro-magnetic Anti-lock Braking System is being generated by using an electromagnet and tyre as flywheel. In this an alternator is used to convert the mechanical energy into electrical energy. This energy stored in battery can be used when the instrument is in idle condition.

Hybrid Capsule Lift- This is a lift system combined with energy produced by the wind mill and solar panel. In this project a wind mill and solar panel is connected at the roof of the building, which produce electrical energy by using wind power and solar radiation respectively. This energy can be stored in a battery which can use to operate the lift in emergency condition when the power is suddenly shut off.

Advancement in high R.P.M. Machine based on PMM- This project is based on the concept of centrifugal force used for increase the R.P.M. of a machine. In this project the two parent gears are loaded with dead weights. Due to this the torque of the machine decreased and correspondingly the speed of the gears increases.

Six Stroke Engine- The six-stroke engine is a type of internal combustion engine based on the four-stroke engine, but with additional complexity intended to make it more efficient and reduce emissions. Two types of six -stroke engine have been developed since the 1990s: n the first approach, the engine captures the heat lost from the four-stroke Otto cycle or Diesel cycle and uses it to power an additional power and exhaust stroke of the piston in the same cylinder. Designs use either steam or air as the working fluid for the additional power stroke. The pistons in this type of six-stroke engine go up and down three times for each injection of fuel. There are two power strokes: one with fuel, the other with steam or air.

Modernization in Safety Techniques in Railways - Presently in india railway barriers are operated by the human beings. This project automatically senses the arrivals of train and closes the gate and open the gate after the train passes.

Multi-PurposeWheat Milling Machine- This project shows the complete process of wheat milling from begining to end. During first stage the cleaning of wheat is done in which all dust and other impurities are removed. In the second stage the grinding process in done. In the last stage packing of wheat flour is done and it moves to the prominent place with the help of conveyer.

Motorized Lifting Jack- The motorized lifting jack is a modified form of conventional screw jack that helps to lift the load using motor as a source of energy and gear box to control the lift of the jack.

On this occasion, Mr. Kapil Chopra, H.O.D (ME), Mr. Dinesh Jain, Mr. Rohit Rawat, Mr. Sandeep Socal, Mr. Anil and other Faculty members were present.

One Day Project Exhibition of CSE Department

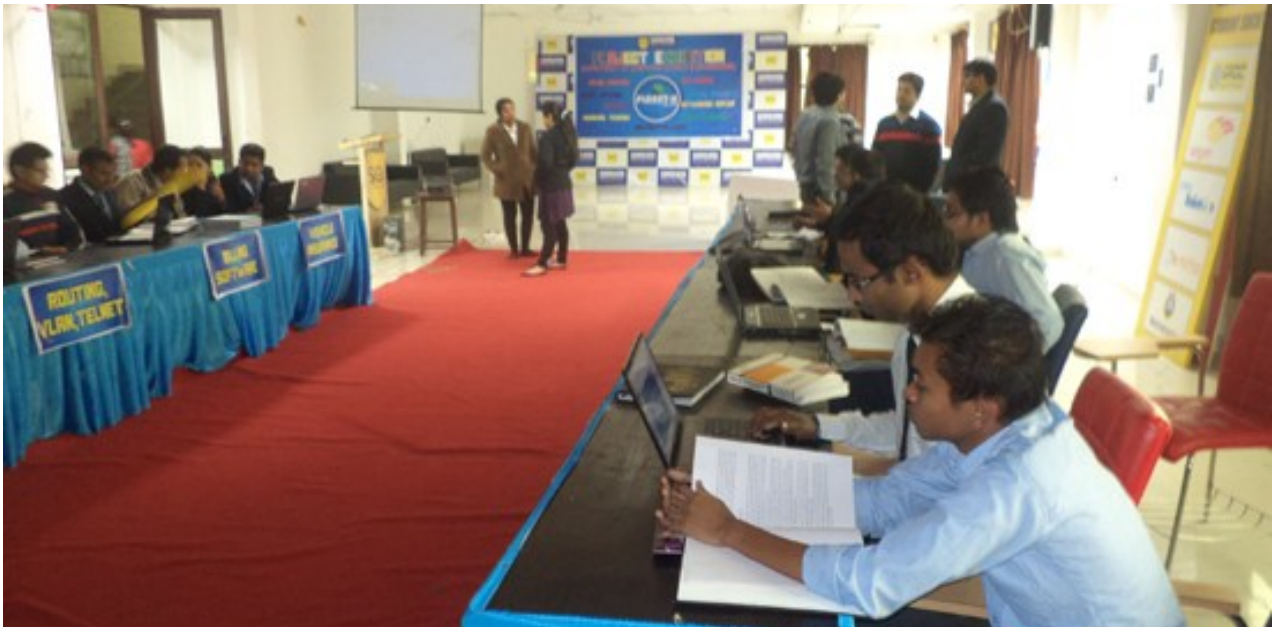
A Project Exhibition was organized in Samalkha Group of Institutions on 11th December 2012 for B.tech Final year students for CSE stream. On this occasion, Dr. Rajesh Goel, Director, SGI and Mr. Manoj Sharma, HOD (CSE), and Assoc. Prof. Sunil Kaushik were present to motivate the students

Around 21 students took part in the exhibition and displayed their projects. Each student had to describe their work with the help of charts and PowerPoint presentations. Mr. Sunil Kaushik, who was the external examiner in the project viva, went to each desk and querried about the concept they wanted to highlight. This event was planned for the whole day. The students were found very excited during the event. This event was a source of motivation regarding their technical knowledge, confidence and communication skills with the aim of helping to face various phases of placement activities. The nature of the activity was kept flexible so that any faculty member or student can attend this activity.

Many projects were displayed on this day, Description of some projects is as follows:-

Developing Linux Distro – There are many Linux distributions existing today, each specifically designed for a specific purpose. Here, students create their own Linux system that would fully confirm to their personal preference. They built a custom built Linux system which was fully operational and perfectly usable like any Linux system. The main objective of students was to learn and understand how operating system works and carries out such rigorous task and calculations.

Galetica- It is the process of creating a video game, development is undertaken by game developer which may range from single person to a large business. The tool used in this project is HGE (Haff's Game Engine) . It is a full featured middle ware for all who want to develop commercial quality 2D games rapidly and easily.



Networking Servers- It can be used to create a LAN network. In this project, three main servers are defined that are DHCP, DNS, and DFS. DHCP is used to configure network devices so that they can communicate on an IP network. DFS allows access to files from multiple hosts sharing via computer network.

Smart Solution- The purpose is to make the complaining procedure simple, fast and effective against the corrupt employees of public sector. Along with this it may aware the people of India about the scenario of public sector and the public sectors would also get a platform by which they can easily solve the problems of the public without doing much effort.

Online Shopping- It is the process where consumers directly buy goods or services from a seller in real time without an intermediately services over the network. Online shoppers commonly use a credit card to make payments. However system enables users to create accounts and pay cash on delivery.

IP Networking- It includes several routers and two ISP's connected to each other in such a way that we can communicate from one location to another without facing any problem, no matters that how far these locations are situated from one another. The ISP uses two protocols OSPF and EIGRP.

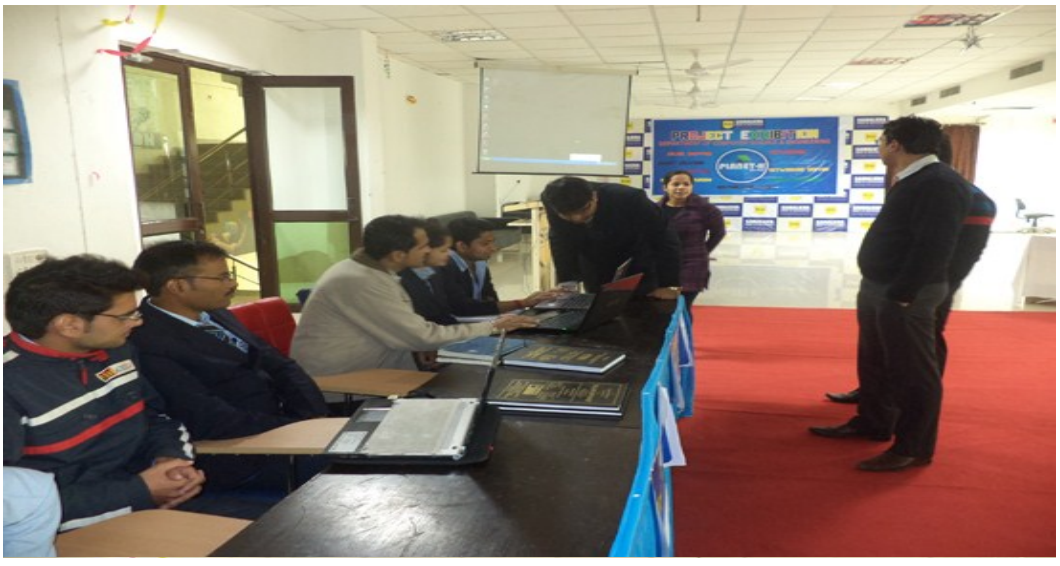
Online Vehicle Insurance Tracking and Management system- The proposed system stores and maintains all vehicle details. The authority can add vehicle details whether it has any accidental or stolen or challan details.

Routing VLAN and Telnet- This project describes how to create network and how to provide communication between two networks.

Billing Software- This project serves the following objectives like add and maintain records of available products, add and maintain customer details, add and maintain description of new products, provides economic and financial report to the owners monthly or weekly.

A panel of Judges which includes Mr. Sunil Kaushik from HCTM, Kaithal Mr. Manoj Sharma, Ms. Silky Makkar and Ms Garima Garg awarded marks to various teams on the basis of technical questions asked by them. Rest of the faculty members of Department of CSE, who had played a great a great role in organizing the event graced the occasion. In addition, number of students and faculty members participated as Audience.

On the basis of marks awarded by judges certificates were given to the winners. 1st position was hold by Adiya Srivastav, 2nd position was hold by Rahul kaushik and 3rd position was hold by Kundan, Sushil and Garima.



Microsoft Education Advantage Program

Students of Samalkha Group of Institutions, Samalkha participated in the Expert Lecture by Ms. Pulkita Chauhan on17th December 2012 at 1:30 PM to 3:30 PM. The topic of Debate is "Microsoft Education Advantage Program". This was an expert lecture organized by Microsoft for students on latest Microsoft technologies along with their career prospects.

Focus of this expert lecture on spreading the products and usability of Microsoft products that mainly concentrates on instilling the spark of learning technologies. Pulkita gave brief introduction about Microsoft company profile and their services like cloud computing and products like MS windows, MS office (application tool) etc. The expert lecture followed with introduction of Microsoft Education Advantage Program for students which has following steps: How to become a member of Microsoft student partner by visiting the site www.microsoftstudentpartner.com. There are three ways for enrollment such as video, application development and optional. These process further associates' steps like Provide free licensed software for development and educational purposes. Free App Development training.
Free student internships thru programs like Microsoft student to business. DreamSpark Access offering free DreamSpark keys to students along with enrolment program for institutions. Offer students a hand on training on the latest Microsoft technologies like Windows8, Kinect, Cloud, and Windows Phone etc. Student and faculty invitations to Microsoft app festivals etc. Student and faculty counseling to choose and go after the right certifications.

Later for the interest of students Pulkita make them aware with the latest version of Microsoft windows which is window 8 and also discussed its latest features and applications considering following points Introduction of Microsoft products and their Usability. (Win 8, Kinect, Cloud, Win mobile etc).About the enterprise and its strength in different fields like entertainment, services, tools and so on. Awareness on Microsoft student program, which give them access to free tutorials and software. It's not just learning technologies, how to use them and how to project them is what matters; Microsoft has different varied programs running for maximum student participation. Empowering them about Microsoft led activities and various portals that are of use to student community. Building focused student communities in colleges/across colleges in a territory. Certifications- A mode to validate your skills, this carries a large verticals for different functionality. MS IT Acad Programs for students and faculty for continuous involvement into learning and sharing technology. I Spark center- A 24/7 365 day learning lab that focuses on teaching and learning all about the technology exclusive for students. We also want to drive adoption of Genuine Microsoft Software while the students are continuously working on Microsoft Technologies and getting benefits from the programs. Again requires continuous engagement with strong (but careful) guidance.

All faculty members and students of CSE Department actively participated in this event. A vote of thanks was given by the Head of Department Mr. Manoj Sharma and memento symbol of honor to the team of Microsoft.

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