ECOSYSTEM & INCUBATION CENTRE

Institution has created an eco system for innovations including Incubation centre and other initiatives for creation and transfer of knowledge

Institute is having separate R&D cell. The R&D cell comprises of faculty members from various departments of the institute. This committee oversees the smooth and efficient coordination of research and development activities in the institute, thus fostering overall growth. A senior faculty heads this cell in the capacity of Dean (R&D), with the principal presiding over. To promoting An Entrepreneurial Mindset, institution has an entrepreneurship development cell, that encourage forging a relationship between the industry and the institution. Individual department interacts with industry to ascertain its needs to fill the gap in curriculum. The gap is filled by arranging workshops addressed by industry personals. Industry institution relationship works in the following areas: Industrial visits for students and faculties, field and site visits of students. Consultancy and sponsored projects. Faculty members regularly interact with the industry to understand functional challenges through applied research or student projects. Project conceived by the students are used as case study in few industry. Expert lectures by industry personals for students. Conducting joint technical programs & events with industry:

Activities Envisaged

1. To provide common facilities to incubate viz. office support, equipment support and technology support.
2. To give Training, counsel, guide and mentor for setting up of the enterprise
3. To support and promote rural entrepreneurship in the region through training, demonstration and dissemination of technologies and opportunities to the grass root people.
4. To assist for setting up of technology exhibition, awareness camps and product development plans.
5. To provide support in documentation, publication and patenting of innovations.

6. To facilitate and provide the tools for technology development and implementation in the labs.

7. Incubation centre conducts entrepreneurship programs such as workshops, Seminars on entrepreneurship development.

8. To provide training by experts for marketing the products developed.

9. To provide information about the financial Institutions for establishment and running of the industry.

The following projects are being carried out by the University in the Incubation centre.

1. **Rain Water Harvesting For Residential Building. (Tulip Apartments, Bareilly) (2018-19)**

Seven students (Himanshu Chakravarti, Aman Goel, Rukhsan Hussain, Sanjit Singh, Sushant Singh, Mohammad Tariz and Deepak Verma) from B.Tech Final Year performed a one year long (2018-2019) live project on Tulip apartment Bareilly under the guidance of Assistant professor Mr. Awdhesh Kumar, The building is situated at the northern end of Bareilly the bans city, over an area of 2630.4567 m2 of land provided by the Tulip Infra-tower Group of Gurugram, Haryana.

The building is at the center of the city and it is surrounded by other residential areas. The residential building covers an area of the 1223 m2. Students work on the project in four

different phases for one year and design an efficient rainwater harvesting system for the building, apart from designing on AUTO CADD & STAD PRO software students also submit the working model of the Tulip Apartment's Rainwater harvesting System, as the extension of the project they also demonstrate the lateral water harvesting plan in urban colonies.

2. Invertis Meet App
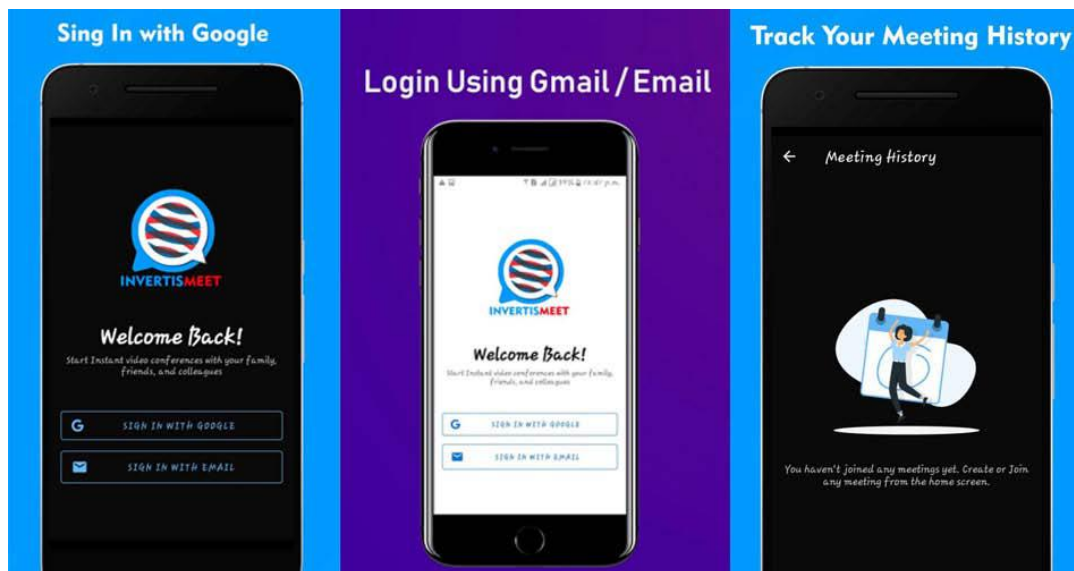
Saif Malik, a second year student from Diploma in Computer Science & Engineering of Invertis University, Bareilly developed an online video conferencing app using APIs. The main features of the App are that anyone can join the meeting using a unique password each time. Anyone can also schedule meeting as per requirement. This app is very useful in the scenario when online teaching and meetings are required. There are so many security features in the app that no one can join without proper login. Also, there is an important feature that meeting host can take the online attendance of the attendees in this app.

3. **Green Energy Initiative:** Solar Panel Installation

Invertis University is contributing to the larger picture of effective energy management and conservation as we have a massive number of solar panels on every building and most of the requirement of the electricity we are collecting from there only. Here we have some specification of our solar plant agreement:

Solar Plant Agreement: Uttaranchal Welfare Society and Siddhesh Multi Commodities LLP.

Capacity: 800 kW

Commissioned date: 30 March 2017
The Plant consists of 29 inverters and 13 meters for reading. Solar panels are from Vikram Solar and the panel model number is 320. Extra Solar power generated is exported to Madhayanchal Vidhut Nigam through Net Metering system.

We also ensures the regular maintenance and working of the solar plant and highly committed to contributing to save energy and its resources to which we as one nation can allocate the saved resources in the development of our country.

4. **Biomass Plant:** (Department of Agriculture)

Biomass is organic material that comes from plants and animals, and it is a renewable source of energy. Biomass contains stored energy from the sun. Plants absorb the sun's energy in a process called photosynthesis. When biomass is burned, the chemical energy in biomass is released as heat. Biomass can be burned directly or converted to liquid biofuels or biogas that can be burned as fuels.

Examples of biomass and their uses for energy

- Wood and wood processing wastes—burned to heat buildings, to produce process heat in industry, and to generate electricity

- Agricultural crops and waste materials—burned as a fuel or converted to liquid biofuels

- Food, yard, and wood waste in garbage—burned to generate electricity in power plants or converted to biogas in landfills

- Animal manure and human sewage—converted to biogas, which can be burned as a fuel