

The opening of Structural Engineering Research Laboratory, Cloud & Android App Development lab, App Development and Research Lab, CM's Skill Excellence and especially Bio-gas plant was the major thing of the day successfully. The foundation stones was laid by the Chairman Dr.L. Rathaiah.

With a goal to make a clean, green and eco-friendly campus, the department of Biotechnology with the immense support of the administration, have procured and commissioned Biogas Plant, *BioUrja-1000 KPD* at a total cost of Rs.29,15,823 which was supplied by M/s GPS Renewables, Bangalore. The varsity caters about 3000 residential students. The food for Students is being served 4 times a day. The food waste and the organic kitchen waste generated in three hostel kitchens will be completely converted into bio-energy using the Biogas plant. The capacity of the installed Biogas plant is to digest 1000 Kg of food waste per day. The gas yield is will be ~70 kg of LPG equivalent per day.

The process includes: Primary screening of food waste – Pulverization - Mixing with microbial consortium – Hydrolysis – pH analysis - Digestion – Biogas generation - Methane gas production - Scrubbing CO₂ – Compression of methane at 5.0 bar – Store the gas in pressure vessel – Regulate the gas at 1.5 bar for cooking. Each of these steps will be monitored online and via mobile applications. By implementing the project, students will know about the importance of renewable and bio energy, solid waste management, green energy and the concept of waste to wealth.

CM's Skill Excellence Center

Andhra Pradesh State Skill Development Corporation (APSSDC), in the form of establishing Information and Communication Technology (ICT) lab with 37 high configuration laptops and licensed softer funded with Rs. 50,4337 to VFSTR.

The CM's Skill Excellence Center provides rare and most important software training would be provided by experts. This will facilitate students to get employment opportunities. This is useful to various departments in the college to organize python, Internet of Things (IOT), Cloud Architects, Fusion 360 professional, CATIA part design etc.

Animal House Facility

Animal House Facility of VFSTR is registered with the Ministry of Environment and Forests, Government of India, New Delhi and funded with Rs.19,24,097.

All activities associated to laboratory animal research at Animal House Facility (AHF) away from noise and pollution, providing an excellent environment for animals. The facility is equipped for small animal experimentation with quarantine and experimental rooms for ginny pigs, hens and rabbits. The Animal House in the campus is a conventional type of animal house with each species housed in individual rooms, in which the temperature, humidity, dark and light cycles are monitored. The animal species are being used for various research projects approved

by the Institutional Animal Ethics Committee (IAEC). Health status of the animals is being monitored by a Veterinary Doctor.

SERL (Structural Engineering Research Laboratory)

The SERL of the varsity is funded with Rs.18,47,793 supplied by M/s Sofeel Marketing and Technical Services pvt ltd, Chennai. The SERL will serve a wide spectrum of activities covering those related to teaching, research ,development and consultancy. It is unique of its kind as it improves the research and development in the field of structural engineering. The loading frame has a capacity of 100 Tonnes. It may be used to perform the Flexural Testing of RCC Beam and Steel Beam, Shear Testing of RCC Beam, Testing of RCC Column, Testing of RCC Slab, Testing of Shell Elements, Testing of Beam Column Joints, Testing of Portal Frame.The loading frames with 100 Tonn capacity are provided in the laboratory for conducting model study on structural elements.

“Cloud Computing And Mobile App Development Lab”

“Cloud Computing And Mobile App Development Lab” will be helpful for the faculty and students of the department to carry out research activities on Cloud Computing and Android Application Development domains.

Vice Chancellor Dr.M.Y.S Prasad, Chancellor Dr. Ramanurthy Naidu and Rector Dr. Kodati Satya Prasad, Deans of various departments, HoD's were participated in the event.