Internet of Things Center of Excellence

With the objective of accelerate innovation among the students and faculty in the emerging technology involving Sensors, Cloud, Analytics and mobile application development, Shri Vishnu Engineering College for Women in association with ThingsMesh and InfinityNext, took the initiative to launch Center of Excellence - IoT. The CoE initiative is a program on innovation focusing on solutions in various sectors like Healthcare, Energy, Agriculture, Automotive etc.

Activities of COE

1. Conduct workshop/training for the students/ faculty in emerging technologies.

2. Organize Competitions in the campus

3. Encourage students to participate in various technical competitions / Hackathons outside the campus

4. Invite industry experts to mentor the students

Faculty Incharge:

 Dr. D. V. Naga Raju, Dept. of IT

Mr. G. Tej Varma, Dept. of IT

A glimpse of projects recognized

Event: Smart India Hackathon :: 2019

Venue: Sri Sivasubramaniya Nadar College of Engineering(SSN), Chennai, Tamilnadu.

Dates: 2-3 March 2019

Department: Ministry of Water Resources, River Development & Ganga Rejuvenation, Govt. of India

Problem Statement:

How to monitor the live status of sewage treatment plant and inlet/outlet water quality monitoring to dashboard and app using1) Quantity of treated/untreated water 2) Time of open and close STP functions

Abstract

Our proposed system collects the data automatically through sensors and give timely reports to the management. We would like to develop a Web Interface, Mobile Interface (Android & IOS) to check the water quality parameters in real time. Along with the above-mentioned water quality parameters of both untreated and treated water, we also maintain functioning timings of the plant as well as the volume of the raw and treated water.

Students Involved.

S. No.	Student Name	Class	Branch
1	S. Greeshma	II. B.Tech	ECE
2	P. Hema Pavani	II. B.Tech	ECE
3	P. Lakshmi Sruthi	II. B.Tech	ECE
4	G. Sai Roja	III. B.Tech	IT
5	P. Sree Ramya	III. B.Tech	IT
6	Anjali Madhavi	III. B.Tech	CSE

Faculty Mentors:

Dr. D. V. Naga Raju, Dept. of IT

Mr. P. Ravi Kumar, Dept. of ECE

2016-20 Batch

Real time water quality monitoring and alerting system for aqua culture in association with Department of fisheries Andhra Pradesh.

S. No.	Student Name	Class	Branch
1	G. Sai Roja	III. B.Tech	IT
2	G.Vishnu Priya	III. B.Tech	IT
3	M.Sushma	III. B.Tech	IT
4	Tejaswi	III. B.Tech	CSE
5	Saranya	III. B.Tech	ECE

Faculty Mentors

Dr. D. V. Naga Raju, Dept. of IT

Mr. G. Tej Varma, Dept. of IT

Authenticate the driver through the biometric fingerprint device.(Won Best innovative design in e-BAJA competition held in Hyderabad)

S. No.	Student Name	Class	Branch
1	Penta Nikhila Jyothi	III. B.Tech	IT
2	Parimi Satya Saranya	III. B.Tech	IT
3	Tejaswi	III. B.Tech	CSE

Faculty Mentors

Dr. D. V. Naga Raju, Dept. of IT

Mr. G. Tej Varma, Dept. of IT

Mr. Kiran, Dept. of EEE

Hostel Room Allotment (Web Application)

S. No.	Student Name	Class	Branch
1	T. Pavani	III. B.Tech	IT
2	V. Nitisha	III. B.Tech	IT

Faculty Mentor

Dr. D. V. Naga Raju, Dept. of IT

Auto Booking (Mobile Application)

S. No.	Student Name	Class	Branch
1	Vineela	III. B.Tech	IT
2	P. Ramya	III. B.Tech	IT
3	Anjali Devi	III. B.Tech	IT

Faculty Mentor

Dr. D. V. Naga Raju, Dept. of IT

2015-19 Batch

A Blockchain based system for transparent and tamperproof organ donation (Won First prize in Hackathon conducted by Consensus at IIT Delhi)

S. No.	Student Name	Class	Branch	Placement
1	B. RagaMoyni	IV B.Tech	IT	TIVO, Banaglore
2	A.Vyshnavi	III B.Tech	CSE	*

Faculty Mentor

Dr. D. V. Naga Raju, Dept. of IT
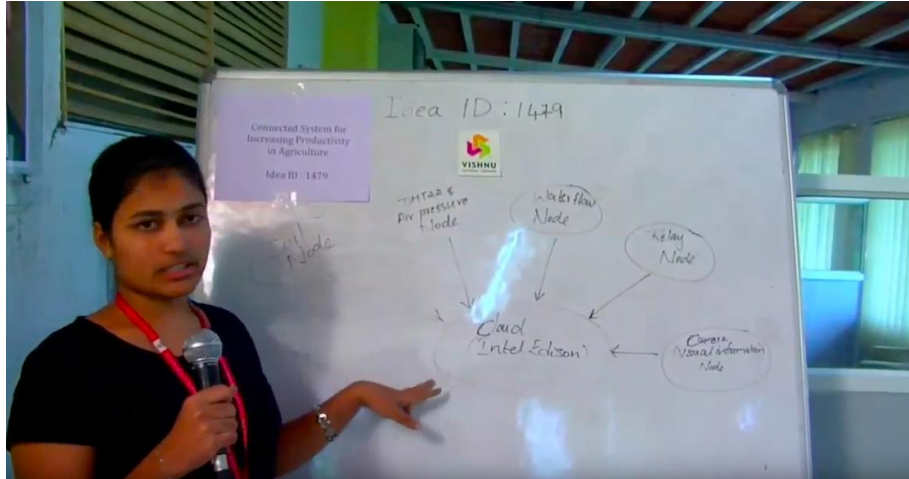
Mr. V. Pavan Kumar

Mr. G. Tej Varma

Connected System for Increasing Productivity in Agriculture(Selected for Final round of Intel Highe Education Challenge, Bangalore)

S. No.	Student Name	Class	Branch	Placement
1	Eedupuganti Gowthami	IV. B.Tech	IT	TCS
2	Chopperla Surya Rasajna	IV. B.Tech	IT	Infosys
3	Bhupathiraju S .l Chandhini	IV. B.Tech	CSE	Infosys

Faculty Mentors

Dr. D. V. Naga Raju, Dept. of IT

Mr. G. Tej Varma

Controlled Environment for Aqua Farming with Real Time Predictions Using Tensorflow

S. No.	Student Name	Class	Branch	Placement
1	P. Vijaya Deepika	IV. B.Tech	IT	Value Labs
2	P. Sai Renuka	IV. B.Tech	IT	Value Labs,IBM
3	S. Sai Sreeja	IV. B.Tech	IT	Infosys,TCS,IBM

Faculty Mentors

Dr. D. V. Naga Raju, Dept. of IT

Mr. G. Tej Varma

Network of water taps to understand water quality

S. No.	Student Name	Class	Branch	Placement
1	K. Dhana Lakshmi	IV. B.Tech	IT	Infosys,HCL
2	G. Sai Vasavi	IV. B.Tech	IT	IBM
3	D. Navya	IV. B.Tech	IT	IBM,HCL

Faculty Mentors

Dr. D. V. Naga Raju, Dept. of IT

Mr. G. Tej Varma

Smart-dustbins for smart-cities

S. No.	Student Name	Class	Branch	Placement
1	A. Yerusha	IV. B.Tech	IT	Value Labs
2	A.S.L.B. Sukanya	IV. B.Tech	IT	Infosys
3	K . Sai Harika	IV. B.Tech	IT	IBM

Faculty Mentor

Dr. D. V. Naga Raju, Dept. of IT

Mr. G. Tej Varma

2014-18 Batch

A Transparent blockchain based application for corporate donations (Won most popular choice award in Accenture innovation challenge conducted by Accenture, Bangalore)

Faculty Mentor

Dr. D. V. Naga Raju, Dept. of IT

Mr. G. Tej Varma

S. No.	Student Name	Class	Branch	Placement
1	M. Mounika	IV B.Tech (14 Batch Passed out)	IT	Accenture, Banaglore
2	A.Vyshnavi	IV B.Tech (14 Batch Passed out)	IT	IBM, Pune