



We Make You Shine
St. JOSEPH'S INSTITUTE OF TECHNOLOGY
(An Autonomous Institution)
St. Joseph's Group of Institutions
OMR, Chennai - 119



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CENTRE FOR EXCELLENCE

CENTRE OF EXCELLENCE FOR IoT AND ARTIFICIAL INTELLIGENCE

PANTECH PROLABS INDIA PVT. LTD.

Total Area of the Lab : 50 Sq.m

Cost of Establishment: Rs.20,00,000 (Twenty Lakhs Rupees)

The Center of Excellence for Internet of Things (IoT) was established through Memorandum of Understanding signed on 03rd June 2016 between Our College and Pantech ProLabs, represented by **Mr.M.Maliappan**, Managing Director, Pantech ProLabs to explore the development of technologies, improve capabilities of common interest and engage in Industrial Research initiatives pertaining to the Internet of Things (IoT), Wireless Sensor Networks, VLSI and Specialization in Embedded Domain.

Name of the Lab	Facility available in Lab for Project	Key Outcomes
Centre of Excellence for IoT and Artificial Intelligence	Node MCU, ESP 8266 Wifi Module, Arduino Uno, Raspberry Pi 3, Interface & Relay Boards Different Sensors, WSN Device, HP 280 G2MT	Smart Kitchen with inventory managing and monitoring using IoT (IEEE Student Project Funding)
		Smart Bag (INAE Youth Conclave Award)
		Versatile Insole Monitoring (TSCST Award)

CENTRE FOR EXCELLENCE - ACTIVITIES

2022-2023

S.No	Name of Centre	Activity	Topic / Objectives	No of Students participated	Duration
1	Center of Excellence for Internet of Things (IoT)	Workshop	IoT and its applications	61	2 Days
		Consultancy	Internet of Things for Medical & Smart City Application and Autonomous Vehicle		

2021-2022

S.No	Name of Centre	Activity	Topic / Objectives	No of Students participated	Duration
1	Center of Excellence for Internet of Things (IoT)	Value Added Course	Embedded using Raspberry Pi	162	6 Days
		Workshop	Internet of Things Machine Learning with AI	126	2 Days
		Consultancy	Computer Vision and RoS Integrated Driverless Vehicle		
		TNSCST-STP	Women Safety Night Patrolling Robot		

2019-2020

S.No	Name of Centre	Activity	Topic / Objectives	No of Students participated	Duration
1	Center of Excellence for Internet of Things (IoT)	Value Added Course	Embedded with Raspberry Pi	44	6 Days
		Workshop	Python/ Augmented Reality/ Biped Robot/	146	2 Days

			Brain Controlled Robot/ Gesture Controlled Robot	93	2 Days
				72	2 Days
		Consultancy	Firmware development for 4 Axle Cleaning Robot Total Cost: Rs.2,06,750		
		TNSCST-STP	Versatile Insole Monitoring		

2018-2019

S.No	Name of Centre	Activity	Topic/ Objectives	No of Students participated	Duration
1	Center of Excellence for Internet of Things (IoT)	Value Added Course	IOT with RaspberryPi	55	3 days
			Network Simulator with application	41	3 days
			LabView for Electronics Automation	28	3 days
		Workshop	Matlab for Image Processing / IOT with Raspberry Pi	112	1 day

2017-2018

S.No	Name of Centre	Activity	Topic/ Objectives	No of Students participated	Duration
1	Center of Excellence for Internet of Things (IoT)	Value Added Course	Network Simulator for Communication	36	6 Days

2016-2017

S.No	Name of Centre	Activity	Topic / Objectives	No of Students participated	Duration
1	Centre of Excellence for Factory Automation and Robotics	Value Added Course	To Explore Sensors and PLC	109	2 Days
2	Center of Excellence for Internet of Things (IoT)	Value Added Course	Network Simulator for Communication	133	2 Days

2015-2016

S.No	Name of Centre	Activity	Topic / Objectives	No of Students participated	Duration
1	Centre of Excellence for Factory Automation and Robotics	Value Added Course	Factory Automation and Robotics	64	6 Days
		Consultancy	Design of Fool Proof Centralized Voting Machine Total Cost: Rs 3,50,000		
2	Center of Excellence for Internet of Things (IoT)	Guest Lecture	Simulation tool in Electronics	121	1 Day



IRONMAN ROBOT



FOOL PROOF CENTRALIZED VOTING MACHINE



INAE AWARD



Smart Kitchen with inventory managing and monitoring using IoT (IEEE Student Project Funding)



INAE Youth Conclave Award