



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

THRUST AREA RESEARCH ACTIVITIES

S.No	Department	Thrust Area	Activities		Year
			Infrastructure	Results of the Progress made	
1	ECE	Hardware Security	<p>Project Title :Insertion of Trojan in the sequential circuits and detecting the same through Functional Testing</p> <p>Infrastructure: Hardware Security Research Lab</p>  	<ul style="list-style-type: none"> ➤ This project has received grants of about “Rs.9.9475 Lakhs” from DRDO. ➤ In this project, we propose the Development of a system to detect possible hardware Trojans via VeriTrust methodology. ➤ In 2019-20, beyond the syllabus experiments have been conducted for students of 3rd year ECE. <p>Extension Activities:</p> <ul style="list-style-type: none"> ➤ As extension activities outside the organization, Dr.L.K.Hema ,Professor&HOD, ECE Department has participated as a panelists of the session “Hardware Trojans...Technology Stack, Instruments, & Strategies” conducted by Data Security Council of India(DSCI). ➤ She also conducted 1 Day National workshop on “Hardware Security-Technology Stack and Strategies” organized by ECE Department, Vels Institute of Science, Technology & Advanced studies on 4-2-2021. ➤ She also conducted a webinar on “Hardware Trojans- Implications and Solutions” at Panimalar Engineering College on 7-1-2021. 	2020



Track Session

Hardware Trojans


... Technology Stack, Instruments, & Strategies



17 Dec, 2020 | 1:45 PM - 2:30 PM

<https://www.dsci.in/events/aiss-2020/>



			   <p>Panimalar Institute of Technology & Institution's Innovation Council</p> <p><i>Honoring the Speaker</i></p>  <p><i>Dr. L.K. Hema</i> Professor & Head, ECE Aarupadai Veedu Institute of Technology Chennai</p> <p><i>Topic: Hardware Trojans- Implications and solutions on 7 Jan 2021</i></p>		
2	ECE	Internet of Things	<p>Project Title:</p> <ul style="list-style-type: none"> ➤ IOT Based Real Time Monitoring & Controlling System for Food Grain Procurement and Storage ➤ INTEL FICE Project : Development of Driver's Drowsiness Detection using Machine Learning <p>Ongoing:</p> <ul style="list-style-type: none"> ➤ A Wearable Device for continuous health monitoring of Pregnant woman and Fetus <p>Infrastructure: INTEL IOT Lab</p>	<ul style="list-style-type: none"> ➤ This project has received a Certificate and a Cash Award of Rs.5000/- from IEEE Madras Section under Student Project funding. ➤ In this project, deep learning method is used to detect sleep states of the drivers in the driving environment to minimize accidents to the self and others on the road. ➤ This project has received a grant of Rs. 2 Lakhs from VMRF which is due for completion on 31/1/2022. 	2019

