

5) EVENT NAME: One Day Workshop on embedded System

AIM OF EVENT: To provide a clear understanding of design methods and tools of Embedded One System from basics to advance level

PARTICIPATION: No. of Students: 37 (B. Tech. ECE, B. Tech. CSE , and M.T ech. ECE), No.of faculty members: 14

DEPARTMENT: ECE, CSE

DATE: 31 /01/2018

VENUE: SMART CLASS ROOM (C-214)

ORGANISED BY: ECE Department, ASET, AUH

FACULTY COORDINATORS: Ms. Jagandeep Kaur , Ms Shruti Karkra

OUTCOMES RELATED TO ACADEMICA CONNECT

An *EMBEDDED SYSTEM* is a computer system with a dedicated function within a larger mechanical or electrical system, often with real-time computing constraints. The workshop comprised:

- Protocols used for embedded systems
- Languages used in embedded systems
- Different input and output sensors
- Internet of Things (IoT)
- Microcontrollers
- Automation Systems

OUTCOME RELATED TO INDUSTRY CONNECT

Real time embedded systems are widespread in consumer, industrial, medical and military application. Embedded systems are used in navigation tools, like global positioning system (GPS), automated teller machines (ATMs), networking equipment, digital video cameras, mobile phones, aerospace applications, telecom applications, etc.

OUTCOME RELATED TO STUDENT LEARNING AND GROOMING

In our day-to-day life we frequently use many electrical and electronic circuits and kits which are designed using embedded systems technology. The electrical and electronics engineering students and electronics and communications engineering students design final year electronics projects to gain hands on experience with the real time embedded systems and also to fulfill the engineering graduation criteria. The engineering final year electronics projects are designed using embedded systems and applications. The computers, mobile phones, tablets, laptops, digital electronic systems, and other electrical and electronic gadgets are designed using embedded systems.

OUTCOMES RELATED TO SOCIETY OUTREACH

Application of Embedded can be noticed in almost all the appliances that we use at home in a daily basis. In society, embedded system has the following applications.

- Internet (IoT) of Things based underground cable fault distance display using GSM
- Electronic passport system using smart card
- Patient body temperature monitoring remotely using Internet of Things (IoT)
- Power saver for street light using high sensitive LDR managed by Arduino
- GSM based prepaid energy meter
- Automatic meter reading system using Zigbee

- A notice board display system using voice commands using an Android phone
- Home automation using voice commands
- Solar based electric fencing system to deter cattle

Overall the workshop was very effective and informative. We had the hands-on-session also which helped us to understand the concepts of embedded system more explicitly

GLIMPSES OF THE EVENTS



PRESENTING THE SAPLING BY DR. JANAK KUMAR B. PATEL TO THE GUEST



LECTURE RENDERED BY MR.CHANDAN (EMBEDDED ENGINEER)



VALEDICTORY SPEECH GIVEN BY DR. JANAK KUMAR B. PATEL

List of the students for the one day workshopn on Embedded system on 31st October, 2018 in C-214

S. No.	Enrollment number	Name of the student	Programme/Sem.	Sec.
1	A51405215006	LALIT KUMAR MALIK	B. Tech CSE /VI	B
2	A50105215091	TARUN REDDY BANTARAM	B. Tech CSE /VI	B
3	A51405215004	ARNAV SINGH	B. Tech CSE /VI	B
4	A51405215012	KUNAL NEELAM	B. Tech CSE /VI	B
5	A51405215014	NABHDEEP CHOUDHARY	B. Tech CSE /VI	B
6	A50105215075	YOGESH SINGH KATOCH	B. Tech CSE /VI	B
7	A50105215017	ABHINAV SINGH	B. Tech CSE /VI	B
8	A50105215073	JITENDER SINGH	B. Tech CSE /VI	B
9	A50105215063	SAIFULLAH	B. Tech CSE /VI	B
10	A50105215077	SAURAV KUMAR	B. Tech CSE /VI	B
11	A50105215030	ABHISHEK SHARMA	B. Tech CSE /VI	A
12	A50105215090	AVANTIKA SHARMA	B. Tech CSE /VI	A
13	A50105215095	PRIYA CHAUHAN	B. Tech CSE /VI	A
14	A50105215049	SHOBHIT MITTAL	B. Tech CSE /VI	A
15	A50105215052	TARUN SINGH CHAUHAN	B. Tech CSE /VI	A
16	A50105215106	PRASHANT KUMAR SINGH	B. Tech CSE /VI	A
17	A50105116002	PARVEEN THAKRAN	B. Tech. ECE /IV	
18	A50105116003	AMIT	B. Tech. ECE /IV	
19	A50105116004	PANKAJ YADAV	B. Tech. ECE /IV	
20	A51405116001	AVIRAL DADLANI	B.Tech.ECE/ECE AIEEE/IV	
21	A50122616001	MALLA SAINAD RAM NARSIMHA	B. Tech. ECE+MBA/IV	
22	A50105115004	MUOMB KASONG LAURENS	B. Tech. ECE/VI	
23	A50105115005	DEEPAK KUMAR	B. Tech. ECE/VI	
24	A50105115006	KRITIKA JHANKRA	B. Tech. ECE/VI	
25	A50105115008	ASHISH	B. Tech. ECE/VI	
26	A50105115009	AYUSHI SHARMA	B. Tech. ECE/VI	
27	A51405115001	REESHANT YADAV	B.Tech. ECE AIEEE/ VI	
28	A50172115001	PRITHVI JIT SINGH	B. Tech. ECE-3C/ VI	

29	A50105114010	DIVYANJALI VERMA	B. tech. ECE/ VIII	
30	A50105114014	HARISH KUMAR	B. tech. ECE/ VIII	
31	A50105217097	APRESH AGGARWAL	B. tech. CSE/ II	
32	A51405216009	SAURABH SHARMA	B. tech. CSE/ IV	
33	A51405216020	SHUBHAM GHANGHAS	B. tech. CSE/ IV	
34	A50105216007	MANAN JAHMOLA	B. tech. CSE/ IV	
35	A50105216087	AYUSHDEEP	B. tech. CSE/ IV	
36	A51424616002	ANASUA ROY BORMAN	B. Tech. EEE/IV	