

Name of Department: Dept. of Electronics & Communication Engineering

Simulation /CAD softwares-

Circuit/logic/system level- CADENCE, SYNOPSIS, MAGMA, Mentor Graphics CAD suites; KIEL (ARM), VxWorks (RTOS), Agilent- ADS/GoldenGate; Optical Comm., IE3D, ANsys

Computing facilities-

High end 6-core Dual processor (Intel Xeon processor) based graphics workstations (20); high performance HP desktops (120)

ICT- We use Facebook, LinkedIn etc. for assignment declaration, solution (exam) & marks/grades announcement, and course material sharing; we are using PIYAZA MOOC (free web site) for course content management;

Infrastructure information

<i>S.no</i>	<i>Place</i>	<i>Nos</i>	<i>Area(sq. m)</i>
1	Laboratories	08 each of ~1000 ft ²	8000 ft ²
2	Faculty rooms	24 each of ~150 ft ²	3600 ft ²
3	Students Activity space	Institute	-
4	Office space	01 of 150 ft ²	150 ft ²
	Office space- committee room	~500 ft ²	~500 ft ²
5	Deptt. library	Hosted in one of laboratory place	-

<i>S. No.</i>	<i>Lab</i>	<i>Systems for computing</i>
		Computing Systems
1	VLSI lab	60 Machines (high performance intel i7, WIPRO i3/i5, HCL workstations)
2	Computing lab	40 Machines HP make i7 workstations, WIPRO make desktops
3	Micro-Processor lab	20 Machines (high performance intel i7)
4	Embedded systems lab	40 high end workstations (Xeon multicore)
5	Faculty	latest Desktops/Laptops (20)
6	PhD Scholar	Individual desktops (35)

**Details of equipments/instruments added in the department during the past 3 years with
breakup of funding**

S. no	Equipments	Overall Cost
	Embedded & SoC Lab	
1	Keil MCBSTR9-ED- Single Board Computer / Evaluation Board for STM STR91x Series	122,700.00
2	Keil MCB2929-ED Single Board Computer / Evaluation Board for NXP LPC2929 Series	156,500.00
3	Keil ULINK2 –ED-- USB/JTAG Interface Adapter	198,800.00
	Sub-total	05, 04,290.00
	VLSI Design Lab	
1	XUP Xilinx Vertex-6 Board	150,000
2	XUP Xilinx Vertex-5 Board	100,000
3	Xilinx Zynq-7000 SoC Video and Imaging Kit	250,000
4	Agilent ADS for RF Circuit Design (5 Licences)	500,000
5	Agilent Golden Gate (5 Licences)	500,000
	Sub-total	15,00,000.00
	Communication Lab	
1	OTDR	383,250.00
2	Optical Fiber Fusion Splicer	409,500.00
3	Optical Communication Labkit	798,000.00
4	Synopsis R-Soft Software Single User Network Academic License	1,695,750.00
5	Digital Multimeters, Agilent	20,947.00
6	Microwave Testbench X band	294,000.00
7	Microwave Testbench C band	583,800.00
8	Microwave Testbench S band	722,400.00
9	Power meter	682,500.00
10	Training systems (Antenna)	756,000.00
11	Digital Communication Training System	157,500.00
12	Advanced Digital Communication Training System	105,000.00
13	Noise power spectral density kit	69,300.00
14	Fourier synthesis kit	69,300.00
15	OPAMP trainer	34,650.00
16	Discrete component trainer	57,750.00
17	Agilent Multipurpose Labstation (Advanced)	1,199,700.00
18	Agilent Handheld Spectrum Analyzer N9342C	581,697.00
19	VSWR Meter	32,400.00
20	Microwave Test Bench	189,200.00
21	Advance Microstrip Trainer Kit	250,000.00
	Sub-total	1,10,92,644.00
	Grand-Total	1,25,92,644.00

S. No.	Equipments added recently, 2013-14	Quantity	Date
Embedded Systems Lab			
1	Discrete component trainer	5	
2	HP workstations, Xeon multicore architecture	20	2014
3	Agilent make power supplies	15	2014
4	Handheld multimeter, Agilent make	15	2014
5	DSO, 4 channel, with multimeter, functiongenerator buit-in, Agilent make	10	2014
6	KEIL SW, ARM Boards	20	2014
7	HP i7 based workstations	20	2014
VLSI Design Lab			
1	XUP Xilinx Vertex-6 Board	1	26/3/2013
2	XUP Xilinx Vertex-5 Board	2	26/3/2013
3	Xilinx Zynq-7000 SoC Video and Imaging Kit	1	26/3/2013
4	Agilent ADS for RF Circuit Design (5 Licences)	5 Licences	26/2/2013
5	Agilent Golden Gate (5 Licences)	5 Licences	26/2/2013
6	HP i7 based workstations	30	2014
7	Agilent make Logic Analyzer, 136 channel	1	2014
Communication/electromagnetics Lab			
1	OTDR	1	9/1/2013
2	Optical Fiber Fusion Splicer	1	9/1/2013
3	Optical Communication Labkit	1	9/1/2013
4	Microwave Testbench X band	4	14/3/2013
5	Microwave Testbench C band	4	14/3/2013
6	Microwave Testbench S band	4	14/3/2013
7	Power meter	5	21/3/2013
8	Training systems (Antenna)	6	21/3/2013
9	VSWR Meter	4	10/5/2013
10	Microwave Test Bench	1	10/5/2013
11	Agilent Multipurpose Lab Station	6	21/5/2013
12	Agilent Handheld Spectrum Analyser N9342C	1	21/5/2013
13	Advance Microstrip Trainer Kit	1	13/7/2013
14	Synopsis R-Soft Software Single User Network Academic License	1	9/1/2013
15	Digital Multimeters, Agilent	15	11/2/2013
16	OPAMP trainer	3	
Analog Ckts. & Signals Lab			
1	Agilent make power supplies, Agilent make	16	2014
2	High end signal generator, 6 GHz, Agilent make	1	2014
3	DSO, 4 channel, with multimeter, functiongenerator buit-in, Agilent make	12	2014
4	MSO, 4 channel, with multimeter, functiongenerator buit-in, 8-channel digital input, Agilent make	5	2014
5	High end Frequency counter, Agilent make	1	2014
Microprocessor/microcontrollers Lab			
1	DSO, 4 channel, with multimeter, functiongenerator buit-in, Agilent make	12	2014
2	HP i7 based workstations	20	2014
Computing (IMPACT) Lab			
1	HP i7 based workstations	20	2014