



**K.S. INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

**ECE R & D CENTER
(Affiliated by VTU)**

FACILITIES

The ECE department has an R & D Centre affiliated to Visveswaraya Technological University (VTU). The R & D Centre is empowered with **6 Research Guides** and **13 Research Scholars**, actively engaged in research in the areas of Electronics and Communication Engineering, Signal Processing, Cryptography, Machine Learning and VLSI Technologies.

- R & D Laboratory is well equipped with Wi-Fi facility, uninterrupted power supply of 40KVA, capacity, internet connectivity of 50Mbps speed and D-Link router.
- The Lab also has Xilinx FPGA Evaluation kit, DSP Starter kit, which helps students to carry out the project work.

Specifications of Computers and Workstations in ECE R & D Laboratory

Total No. of Computers-10	
Computer Specification (5)	
Company Name	HP
CPU Model	HP 280 G2MT
Processor	Intel Core i5
Speed	3.2 GHz
RAM	4 G B
Hard Disk	500GB
Monitor	LED 18.5 inches
Computer Specification (5)	
Company Name	Lenovo
CPU Model	M81
Processor	Intel Core i5
Speed	3.1 GHz
RAM	4 GB
Hard Disk	320GB
Monitor	LED 18.5 inches
Workstation 1- VGST GRD-608	
Company Name	Dell
CPU Model	Dell workstation T430
Processor	Intel Xeon
Speed	1.7Ghz
RAM	8GB
Workstation 2 - VGST GRD-907	
Company Name	Dell
CPU Model	Dell Precision 3640 Workstation
Processor	Intel Core i7
Speed	2.9GHz
RAM	16GB

Hardware in R&D Laboratory:

Sl. No.	Hardware	Quantity
1	Raspberry Pi kit	1
2	Spectrum Analyzer	1
3	Microcontroller 8051 kit	2
4	Arduino UNO	1
5	Function Generator	2
6	CRO	2
7	Galileo board	100
8	DSP Starter Kit	5
9	XILNX Zynq-7000	2
10	FLIR C5 Thermal Camera	1

Software in R&D and Project Laboratories

Sl. No.	Software / OS used	Open source/Licensed
1	Windows 8.1 / 10	Licensed
2	Cadence	Licensed
3	MATLAB -2019-B	Licensed
4	LabVIEW	Licensed
5	MASM	Open source
6	Ubuntu	Open source
7	Arduino	Open source
8	Proteus	Open source
9	Raspberry Pi	Open source
10	Keil	Open source
11	NS2-Simulator	Open Source
12	Spice	Open Source
13	Multisim	Open Source
14	Code Block	Open Source
15	EDA	Open Source
16	VMware	Open source

E-Resources (2021-22)

E-RESOURCES SUBSRIBED FOR THE YEAR 2021-22		
Sl. No.	Publishers	No. of E- Resources
<u>E-Journals</u>		
1.	Science Direct https://www.sciencedirect.com/	296 Journals
2.	IEEE Proceedings Order Plan (POP) https://ieeexplore.ieee.org/Xplore/home.jsp	5,30,000 papers - from 100 core IEEE conference titles in POP
3.	Springer https://link.springer.com/	690 Journals
4.	Taylor and Francis https://www.tandfonline.com/	555 Journals
5.	Pro-Quest https://www.proquest.com/	Full text:3900 Journals 7800 Abstract
6.	Emerald https://www.emerald.com/	120 Journals
<u>E-Books</u>		
6.	Springer (Perpetual Access From 2014) https://link.springer.com/	12,125 e-Books
7.	Taylor and Francis (Perpetual Access From 2019-20) https://www.tandfonline.com/	4,950 e-Books
8.	Science Direct (Perpetual Access From 2019-20) https://www.sciencedirect.com/	436 e-Books
9.	McGraw Hill Education (Four Year Subscription From 2019-20) https://www.expresslibrary.mheducation.com/	505 e-Books
10.	New Age International (Perpetual Access From 2019-20) https://digital.elib4u.com/	220 e-Books
11.	Packt (Perpetual Access From 2019-20) https://ksitb.knimbus.com/	5002 e-Books
<u>Technology Platform</u>		
12.	Knimbus: Digital Library Platform https://ksitb.knimbus.com/	E-Books: 10000+ E-Journals: 5700+
13.	Net Analytiks/ Sententia https://lanquill.com/	Formal Writing Analysis
14.	Turnitin https://www.turnitin.com/	Similarity check tool
Total E-Journals: 5561		
Total E-Books: 23238		