

Laboratory and Workshop

List of Major Equipment/Facilities in each Laboratory/Workshop

S.No	Programme Name	Department	Level	Course	Name of the Laboratory	Lab / Major Equipments
1	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	UNDER GRADUATE	COMPUTER SCIENCE AND ENGINEERING	"NEGCES LAB - NEXT GENERATION COMPUTING AND EXPERIMENTAL SYSTEM LABORATORY" BOTH UG AND PG	Windows 11 Pro, 11th Generation Intel® Core™ i7 processor, RAM 32 GB memory; 1 TB M.2 SSD storage, 2
2	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	UNDER GRADUATE	COMPUTER SCIENCE AND ENGINEERING	AI- DISC (ARTIFICIAL INTELLIGENCE & DATA SCIENCE INNOVATION CENTER)	"Softwares installed like, Java SE kit 18.0.1, Dev C++, Visual Studio Code, Mango DB, Cisco Packet Tra
3	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	UNDER GRADUATE	COMPUTER SCIENCE AND ENGINEERING	AMRITA INNOVATION LAB	HP Pro Tower 400 G7 Micro Tower PC Computers with Specifications - Intel i5-10500 CPU@3.10 GHz/16 GB
4	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	UNDER GRADUATE	COMPUTER SCIENCE AND ENGINEERING	ASTRA: ADVANCED SECURITY AND TESTING RESEARCH ARENA	Intel i5-10500 CPU@3.10GHz/8GB RAM/512GB SSD/19.5" HD Monitor, Burp Suite, Autopsy, MatLab (LICENCED)
5	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	UNDER GRADUATE	COMPUTER SCIENCE AND ENGINEERING	CALC LAB - ALGORITHMS AND COMPUTING LABORATORY	"Intel®Core™i5-10500 CPU @3.10GHz, Windows 10 Pro 64-bit, 8.00 GB RAM, 512 GB SSD, 19.5 HD monitor
6	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	UNDER GRADUATE	COMPUTER SCIENCE AND ENGINEERING	CNET LAB - NETWORKING LABORATORY	"Intel®Core™i5-10500 CPU @3.10GHz, Windows 10 Pro 64-bit, 8.00 GB RAM, 512 GB SSD, 19.5 HD monitor
7	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	UNDER GRADUATE	COMPUTER SCIENCE AND ENGINEERING	CODEX LAB - COMPUTER PROGRAMMING LABORATORY	"Intel®Core™i5-10500 CPU @3.10GHz, Windows 10 Pro 64-bit, 8.00 GB RAM, 512 GB SSD, 19.5 HD monitor
8	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	UNDER GRADUATE	COMPUTER SCIENCE AND ENGINEERING	DATA LAB - DATA ANALYTICS AND INTELLIGENCE LABORATORY	"Intel®Core™i5-10500 CPU @3.10GHz, Windows 10 Pro 64-bit, 8.00 GB RAM, 512 GB SSD, 19.5 HD monitor
9	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	UNDER GRADUATE	COMPUTER SCIENCE AND ENGINEERING	SHIELD: STRATEGIC HUB FOR INTELLIGENT CYBER DEFENCE	"Intel i7-12700 cpu@3700 MHZ, 16GB RAM 512 GB SSD, NVIDIA T400 4 GB, 27 Inch UHD Monitor Burp Suite
10	ENGINEERING AND TECHNOLOGY	ELECTRONICS AND COMMUNICATIONS ENGINEERING	UNDER GRADUATE	ELECTRONICS AND COMMUNICATION ENGINEERING	ANNTENNAS AND RADIO SYSTEMS COMMUNICATION LABORATORY ARC LAB)	COMMUNICATION SYSTEM LAB: CRO, PAM, PPM, PWM, ASK, PSK, FSK, QPSK TRAINER KIT, PLL AND FREQUENCY SY
11	ENGINEERING AND TECHNOLOGY	ELECTRONICS AND COMMUNICATIONS ENGINEERING	UNDER GRADUATE	ELECTRONICS AND COMMUNICATION ENGINEERING	APPLIED CIRCUITS AND ELECTRONICS LABORATORY(ACE LAB)	CRO 0-30 Mhz, Function generator 3 MHz,DUAL REGULATED POWER SUPPLY(0-30)V,2A, FIXED POWER SUPPLY 5V,
12	ENGINEERING AND TECHNOLOGY	ELECTRONICS AND COMMUNICATIONS ENGINEERING	POST GRADUATE	VLSI	CENTRE OF EXCELLENCE IN NANOTECHNOLOGY	ELECTROSPINNING,DIP COATING UNIT,SPIN COATING UNIT,ELECTROCHEMICAL

					AND ADVANCED MATERIALS (CENTAM)	WORKSTATION,UV VISIBLE SPECTROPHO
13	ENGINEERING AND TECHNOLOGY	ELECTRONICS AND COMMUNICATIONS ENGINEERING	UNDER GRADUATE	ELECTRONICS AND COMMUNICATION ENGINEERING	DIGITAL INNOVATION AND ADVANCED LOGIC LABORATORY (DIAL LAB)	Digital IC Trainer kit ,Digital cum Analog Trainer Kit,Digital IC Tester ,Analog IC tester,Analog&Di
14	ENGINEERING AND TECHNOLOGY	ELECTRONICS AND COMMUNICATIONS ENGINEERING	UNDER GRADUATE	ELECTRONICS AND COMMUNICATION ENGINEERING	ELECTRICAL MACHINES AND CORE CIRCUITS LABORATRY(EMC ²)	ELECTRIAL MACHINES LAB : DC SERIES MOTO
15	ENGINEERING AND TECHNOLOGY	ELECTRONICS AND COMMUNICATIONS ENGINEERING	UNDER GRADUATE	ELECTRONICS AND COMMUNICATION ENGINEERING	RHISC: RESEARCH HUB FOR INTELLIGENT SYSTEM AND EMBEDDED COMPUTING	Intel Upsquired Board, Grover Kit, Rasperry pi, Ardiuno Uno and Mega Kits, Proteus Licensed Software
16	ENGINEERING AND TECHNOLOGY	ELECTRONICS AND COMMUNICATIONS ENGINEERING	UNDER GRADUATE	ELECTRONICS AND COMMUNICATION ENGINEERING	SIGNAL, IMAGE, AND NETWORK ENGINEERING LABORATORY (SINE LAB)	SKU:4032976 Desc:LEARNING MODULE PLUTOSDR 3.8GHZ CP: Brand:ANALOG DEVICES,MPN:ADALM-PLUTO HSN:8538
17	ENGINEERING AND TECHNOLOGY	ELECTRONICS AND COMMUNICATIONS ENGINEERING	POST GRADUATE	VLSI	VLSI AND INTEGRATED EMBEDDED SYSTEMS LABORATORY (VIBES LAB)	FPGA trainer kit with free version or xilinx software with all accessories, Embedded trainer kits wi
18	ENGINEERING AND TECHNOLOGY	FIRST YEAR/OTHER	UNDER GRADUATE	Others	CHEMISTRY LAB	POTENTIO METER,SPECTRO METER,FLAME METER,PH METER, CONDUCTIVITY METER
19	ENGINEERING AND TECHNOLOGY	FIRST YEAR/OTHER	UNDER GRADUATE	Others	ENGLISH LAB	COMPUTERS,ENGLISH LANGUAGE SOFTWARE - SANAKO
20	ENGINEERING AND TECHNOLOGY	FIRST YEAR/OTHER	UNDER GRADUATE	Others	MATERIALS CHEMISTRY RESEARCH LAB (MCRL)	GLOVE BOX, COIN CELL FABRICATION ACESSORIES, FUME HOOD, ELECTROCHEMICAL WORK STATION, INCONEL MUFFLE
21	ENGINEERING AND TECHNOLOGY	FIRST YEAR/OTHER	UNDER GRADUATE	Others	PHYSICS LAB	LEE DISC APPARATUS,TRAVELLING MICROSCOPE,SPECTRO METER,TELESCOPIC METER,ULTROSONIC MEASUREMENT
22	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	UNDER GRADUATE	MECHANICAL ENGINEERING	3D PRINTING - ADDITIVE MANUFACTURING LABORATORY	FDM MACHINES , SLA MACHINE, 3D SCANNER
23	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	UNDER GRADUATE	MECHANICAL ENGINEERING	ADVANCED MACHINING CENTRE	VERTICAL MACHINING CENTER
24	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	UNDER GRADUATE	MECHANICAL ENGINEERING	CAE STUDIO COMPUTER AIDDED ENGINEERING	PLOTTER, 3D MODELLING SOFTWARES, COMPUTERS
25	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	UNDER GRADUATE	MECHANICAL ENGINEERING	FLOW - FLUID MECHANICS AND MACHINERY LABORATORY	VENTURI METER, ORFIC METER, PUMPS, LOSSES IN PIPES, TURBINES, ROTA METER, GEAR PUMP
26	ENGINEERING AND	MECHANICAL ENGINEERING	UNDER GRADUATE	MECHANICAL ENGINEERING	IACT - INDUSTRIAL AUTOMATION &	DC SERVO MOTOR, DATA ACQUISITION SYSTEM, DEAD

	TECHNOLOGY				CONTROL TECHNOLOGIES LABORATORY	WEIGHT PRESSURE GAUGE, PIEZO ELECTRIC MEASUREMENT TRAI
27	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	UNDER GRADUATE	MECHANICAL ENGINEERING	MAN - MANUFACTURING LABORATORY	CENTER LATHE, MILLING MACHINE, DRILLING MACHINE, GEAR HOBBING MACHINE, SLOTTER, SHAPER, SURFACE GRIN
28	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	UNDER GRADUATE	MECHANICAL ENGINEERING	META - METALLURGY AND MATERIALS TESTING LABORATORY	MUFFLE FURNACE, UNIVERSAL TESTING, SPRING TESTING, HARDNESS TESTING, MATALLURGICAL MICROSCOPE
29	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	UNDER GRADUATE	MECHANICAL ENGINEERING	MFAB - MECHANICAL WORKSHOP & PRODUCT REALIZATION LABORATORY	CENTER LATHE, MILLING MACHINE, DRILLING MACHINE, GEAR HOBBING MACHINE, SLOTTER, SHAPER, SURFACE GRIN
30	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	UNDER GRADUATE	MECHANICAL ENGINEERING	MOVE - KINEMATICS AND DYNAMICS OF MACHINES LABORATORY	GYRASCOPE, CAMANALYZER, GOVERNOR, BALANCING MACHINE VIBRATING TABLE.
31	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	UNDER GRADUATE	MECHANICAL ENGINEERING	RACE(ROBOTICS & AUTOMATION CENTER)	6-AXIS ARTICULATED ROBOTS, MOBILE ROBOTS, SMART BOARD, COMPUTERS, MAZE, BASIC PNEUMATIC CIRCUITARY K
32	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	UNDER GRADUATE	MECHANICAL ENGINEERING	THERM - THERMAL SCIENCES & HEAT AND MASS TRANSFER LABORATORY	IC Engine,Viscosmeter,Lagged pipe appartus, fin-pin apparatus convection apparatus, vapour compress
33	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	UNDER GRADUATE	MECHANICAL ENGINEERING	TRISUL(TRIBOLOGY & INTERACTIVE SURFACES RESEARCH LABORATORY)	TORSOIN TESTING MACHINE, HARDNESS TESTING MACHINE, BEAM DEFLECTION TESTING, COMPRESSO METER,IMPACT TE

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