CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)
HYDERABAD - 500 075

DETAILS OF LABORATORY FACILITIES FOR POST GRADUATE COURSES

Name of the Department : Civil Engineering

Title of the Course :M.E (Structural Engineering)

S. No.	Name of the Laboratory exclusive to the PG Course	Details of the Facilities
1	Concrete Laboratory	• 3000 kN Digital Compression Testing machine • Concrete Permeability Apparatus • Concrete mixer pan • Digital R.C.P.T. 6 cell • Core Cutting Machine • Ultrasonic Pulse Velocity Apparatus(UPV) • Rebound hammer • Accelerated Curing Tank • Vibrating Table (1mx2m) • Hot Air oven
2	Advanced Structural Engineering Lab	• Reaction frame with servo-controlled hydraulic Jack (500 kN) • LVDT (200 mm capacity; LC = 0.1 mm) • Digital Universal Testing machine (UTM-1000kN)
3	PG Computer Lab	• HP 3330 Desktop Core i7 – 9 No's • HP 3330 Desktop Core i5 – 12 No's • 10 KVA online UPS • STAAD.Pro software • ETABS Software • ANSYS Software • Midas Civil Software • MATLAB Software • HP LaserJet 1020 Plus printer – 1 No

20/1/26

HEAD OF THE DEPARTMENT

PROFESSOR & HEAD
DEPARTMENT OF CIVIL ENGINEERING
CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY
GANDIPET, HYDERABAD - 500 075

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)
HYDERABAD - 500 075

DETAILS OF LABORATORY FACILITIES FOR POST GRADUATE COURSES

Name of the Department : Mechanical Engineering

Title of the Course : ME (CAD/CAM) **Date: 06-01-2026**

S. No.	Name of the Laboratory exclusive to the PG Course	Details of the Facilities
1	CFD LAB (ACAD Lab, CAE LAB , CAMDA Lab)	1. HP Work Stations HPZ220 25No's 2. Solidworks Education Edition 2025 -500 users(UG & PG) 3. ANSYS 2025 -50 users (UG & PG) 4. MATLAB-14no's(for entire College) ,
2	DF LAB & CAD/CAM LAB (Digital Manufacturing Lab)	DF LAB 1. Akar 3D printers (Fused Deposition Modeling (FDM) , Print Size 250×200×300 mm No. of Extruders -Single) 2. DELL I7computers 12no's(3060MT,8GB RAM,2GB Graphic Card) 3. Next Engine HD 3D Scanner 4. Flash Forge Inventor 3D Printers, Build Volume: 230 X 150 X 160 mm3 CAD/CAM LAB 5. MTAB - CNC TURNING CENTRE (XL TURN) No of axes=2, dimensions=800(L)X620(W)X290(H)mm 6. CNC XL Mill-Fanuc Controller dimensions=1000(L)X575(W)X650(H)mm Travel: X-axis-225mm, Y-axis-150mm, X-axis-115mm

6/1/26

HEAD OF THE DEPARTMENT

PROFESSOR & HEAD
Department of Mechanical Engineering
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Gandipet, Hyderabad-500 075. Telangana

6/1/26

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)
HYDERABAD - 500 075

DETAILS OF LABORATORY FACILITIES FOR POST GRADUATE COURSES

Name of the Department : ELECTRONICS AND COMMUNICATION ENGINEERING

Title of the Course : M.E (COMMUNICATION ENGINEERING)

S. No.	Name of the Laboratory exclusive to the PG Course	Details of the Facilities
1	Computer Center & IOT Lab (Room No: N-005)	LabVIEW • National Instruments • LabVIEW software with all toolboxes • 30 Users NI MYDAQ • National Instruments- • 4 differential, 12 bits at up to 200 kS/s • 15 Units NI MYRIO • National Instruments- • 1900 Xilinx Zynq-7010 All Programmable SoC • 667 MHz dual-core ARM Cortex-A9 • Xilinx 7-series FPGA • 15 Units NI Starter Kit • National Instruments - 01 Unit Ni Mechatronics Kit • National Instruments – 01 Unit NI Embedded Kit • National Instruments - 01 Unit Universal IoT Trainer Kit • Physitech Electronics- • Universal IoT Trainer Kit

	Computer Center & IOT Lab (Room No: N-005)	• Raspberry pi4/4GB, Arduino mega 2560 with Wi-Fi, Node MCU, 8-Micro Switches, 8-LEDs general purpose, 4x4 matrix keypad, Micro SD card Module, 20x4 LCD,Potentiometer 10k ohms, Potentiometer 1k ohms,RGB LED,5vBuzzer,Stepper Motor with driver,RF transmitter / receiver,Rpi 7" touch display, AD8232/ Pulse Ox meter Heart Rate, 8- Channel cap Touch Module, RF ID card reader module with tags, 4 channel relay module, Bi direction Bridge IC (L293)Driver, Rotary encoder, BH1750 Light Sensor, RTC Clock – DS 3231, CAN Module, ZigBee module, Servo motor, Gas sensor mq2, Sim 800/900a module, Hall effect sensor, PIR Motion Sensor, LM35 Module, Thermistor module, LDR3MM,Laser Diode, IR Sensor, DHT 11 Humidity/ Temperature, Ultra-Sonic Sensor, Bluetooth Module HC – 05, Flex Sensor 2.2 inch, breadboard (Big),Pi camera, Power supply for above Kit 5V/ 5Amps +/ - 12V/5V)24V/2A. • 12 Units
2	Computer Networks Lab (Room No: N-105)	NetSim-13 • TETCOS-(25Users) Software version 13 Understanding CDMA-DSSS communication system with BER • Scien Tech – CDMA-Direct sequence spread-spectrum Modulator, demodulator. Base band modulation : BPSK/QPSK/OQPSK with output spectral shaping SDR Kit • National Instruments • SDR Hardware Bundle for Digital • Communication With Courseware. a) USRP 2900 hardware b) Antennas **c)** Communication System Design Software
3	SSP Lab (Room No: N-101)	MATLAB -2022b &2021b • Capricot technologies Math Works – Campus Wide suite, includes • All tool boxes, MATLAB Academic Online Training Suite MATLAB Grader DSP Kits • Vi-Microsystems, TMS320C6748LCDK Development Board

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DETAILS OF LABORATORY FACILITIES FOR POST GRADUATE COURSES

Name of the Department : ELECTRONICS AND COMMUNICATION ENGINEERING

Title of the Course : M.E (ES&VLSID)

S. No.	Name of the Laboratory exclusive to the PG Course	Details of the Facilities
1	ES & VLSID LAB (Room No: N-005)	• Cadence Bundle 3: University Bundle Analog & Digital FE & BE Software • Mentor Software Backend Tools HEP1 • Vivado System Edition Software • Atlys Spartan 6 FPGA Boards • Zed Boards (Zynq-7000 EPP Development kit) • Zed Boards Digilent
2	HDL Lab / SSP Lab (Room No: N-101)	MATLAB -2022b &2021b • Capricot technologies Math Works – Campus Wide suite, includes • All tool boxes, MATLAB Academic Online Training Suite MATLAB Grader DSP Kits • Vi-Microsystems, TMS320C6748LCDK Development Board
3	Microcontrollers Lab (Room No: N-106)	• 8086 MP kit • Interfacing boards • Traffic Control Board • Microprocessors kits(13) • (8085 (04), 8086/8088 (08), 8031, 31/51(01)) • Microprocessors kits (8051 (10), 8086 (06), 8085 (06)) • Sensor interface (2 sets) • Micro-controller evaluation boards v1.0 • Windrever vxworks software • Arm7 trainner kits (10) • Embedded 8051 mc kits • Arm board8538 (stM32F401 -Nos: 04), LPC 2148 DEV Board(8517 - Nos: 02) • ARM cortex M3/M4Development boards with on board interface modules & sensors • Armcortex M3/M4 development boards with on board interface modules & sensors • Proteus VSM Simulation Sofware with ARM7 & 8051

4	Computer Center & IOT Lab (Room No: N-005)	LabVIEW • National Instruments • LabVIEW software with all toolboxes • 30 Users NI MYDAQ • National Instruments- • 4 differential, 12 bits at up to 200 kS/s • 15 Units NI MYRIO • National Instruments- • 1900 Xilinx Zynq-7010 All Programmable SoC • 667 MHz dual-core ARM Cortex-A9 • Xilinx 7-series FPGA • 15 Units NI Starter Kit • National Instruments - 01 Unit Ni Mechatronics Kit • National Instruments – 01 Unit NI Embedded Kit • National Instruments - 01 Unit Universal IoT Trainer Kit • Physitech Electronics- • Universal IoT Trainer Kit • Raspberry pi4/4GB, Arduino mega 2560 with Wi-Fi, Node MCU, 8-Micro Switches, 8-LEDs general purpose, 4x4 matrix keypad, Micro SD card Module, 20x4 LCD,Potentiometer 10k ohms, Potentiometer 1k ohms,RGB LED,5vBuzzer,Stepper Motor with driver,RF transmitter / receiver,Rpi 7" touch display, AD8232/ Pulse Ox meter • Heart Rate, 8- Channel cap Touch Module, RF ID card reader module with tags, 4 channel relay module, Bi direction Bridge IC (L293)Driver, Rotary encoder, BH1750 Light Sensor, RTC Clock – DS 3231, CAN Module, ZigBee module, Servo motor, Gas sensor mq2, Sim 800/900a module, Hall effect sensor, PIR Motion Sensor, LM35 Module, Thermistor module, LDR3MM,Laser Diode, IR Sensor, DHT 11 Humidity/ Temperature, Ultra-Sonic Sensor, Bluetooth Module HC – 05, Flex Sensor 2.2 inch, breadboard (Big),Pi camera, Power supply for above Kit 5V/ 5Amps +/ - 12V/5V)24V/2A. • 12 Units

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DETAILS OF LABORATORY FACILITIES FOR POST GRADUATE COURSES

Name of the Department : Computer Science and Engineering

Title of the Course : M.Tech (CSE)

S. No.	Name of the Laboratory exclusive to the PG Course- Lab -4 (M.Tech Lab)	Details of the Facilities
1	**Desktops**	Dell OptiPlex 3060 Core i7 Processor, 32/16 GB Ram, 1TB HDD, 20" LCD Monitor, Keyboard, Mouse **(No:33)** HP Intel Core i7, 8 GB RAM, 1 TB HDD, 18.5" LED Monitor, Keyboard and Monitor. **(No:7)**
	Projector	LCD Projector with Screen **(No:01)**
	UPS	30 KVA UPS Online with ½ hour backup Sharing withlab5 & lab6 **(No:01)**
	Printer	HP Laser 1020Plus **(No:01)**
	ACs	3.5 Ton Cassette AC **(No:2)**
	Switches	24 Port CISCO Manageable Switch **(No:01)** 24 Port D-Link Switch **(No:01)**
	Racks	6 U Wall Mounted Rack **(No:01)**
	Almirah	Metal Amirah **(No.1)**

HEAD OF THE DEPARTMENT

Professor and Head Department
Department of Computer Science & Engineering
Chaitanya Bharathi Institute of Technology (A)
Gandipet, Hyderabad-500 075.(T.S.)

(Dr. K. Narayana Reddy)

(Dr. K. Narayana)

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)
HYDERABAD - 500 075

DETAILS OF LABORATORY FACILITIES FOR POST GRADUATE COURSES

Name of the Department : EEE

Title of the Course :ME(PSPE)

S. No.	Name of the Laboratory exclusive to the PG Course	Details of the Facilities
1	Advanced Power Systems Lab	MG Sets (Benn Electricals). PLC Kit. Current Relay. Differential Relay. Electrical Panel board. Vector Control 3HP Squirrel cage Induction Motor. MG Set. Rectifier Unit. Rheostats. M.I.M.C.Watt Meters. Rectifier for power systems (ASC). Distribution Panel (Chaya). Directional over current relay (Frase Electron Sys (JVS))
2	Advanced Power Electronics Circuits And Drives Lab	Digital C.R.O. C.R.Os. 1 Phase Dual converter. 3 Phase step down cyclo converter. Speed control of SRIM Motor using static Krammer. 3Phase Half Controlled Bridge Rectifier. 3 Phase IGBT invertors. Closed loop control of PMDC Motor. 3 phase fully controlled bridge coveter. 3 Phase Mc-Murray Bed - Ford inverter. Slip Powre Recovery System. Powe Angle Measurment of 3-Phase Alternator. Radial and Ring main Power Distribution System. Solar PV Emulator
3	Computer Lab-II/Power systems& power electronics computation Lab	**54236294 HP Pro tower 280G9 Desktop** ER Intel core i7-14700.5.40G 33MB.20 cores 16GB. DDR4 3200 DIMM memory Dell optiplex 3050 MT .i7 model .intel core i7.7700. 3.6 GHz.7th gen DELL Optiplex 3060 i5 processor. Monitor. Keyboard. Mouse. **Softwares:** MATLAB Version 2024b Altair flux

HEAD OF THE DEPARTMENT

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Dept. of EEE, CBIT (A)
Gandipet, Hyderabad-75

NO. CBIT/AI&DS/2026/024

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HYDERABAD - 500 075

DETAILS OF LABORATORY FACILITIES FOR POST GRADUATE COURSES

Name of the Department : **Artificial Intelligence & Data Science**

Title of the Course : **M. Tech (AI&DS)**

S. No.	Name of the Laboratory exclusive to the PG Course	Details of the Facilities
1	AI&DS Lab 1 - A	**No. of Desktops : 25** Dell Vostro 3020 SFF/ I7-13700/16GB DDR4 RAM/512GB SSD/ Intel UHD Graphics, Wi-Fi, Bluetooth, Windows 11Pro, Key Board & Mouse. Dell 20" Monitor D2020H **Licensed Software :** Office 365, MS Office 2010, 2013, MAT Lab, Turnitin and Webex
		Network components: (LAN / WAN): CISCO Network : 24 Port Switch
		Internet Bandwidth : 1.5 GBPS
		Other equipment/Printers : Air Conditioners - 01 LCD Projectors - 01 UPS (20-KVA) - 01 White Boards - 01 Printers- 01

23/1/26

HEAD OF THE DEPARTMENT

HEAD OF THE DEPARTMENT
Department of AI&DS,
CHAITANYA BHARATHI
INSTITUTE OF TECHNOLOGY,
Hyderabad-500075, Telangana, India.

NO: CBIT/IT/21/2026

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HYDERABAD - 500 075

DETAILS OF LABORATORY FACILITIES FOR POST GRADUATE COURSES

Name of the Department : **Information Technology**

Title of the Course : **M.TECH - IT (ARTIFICIAL INTELLIGENCE AND ROBOTICS)**

S. No.	Name of the Laboratory exclusive to the PG Course	Details of the Facilities
1	ARTIFICIAL INTELLIGENCE AND ROBOTICS LAB (L-403 Room)	Hp Pro Tower 280G9er Desktop i7,16Gb Ram,512 SSD – 40 Systems

M.Venugopal 29/1/26

HEAD OF THE DEPARTMENT

PROFESSOR & HEAD
Department of Information Technology
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Gandipet, Hyderabad-500 075. Telangana

Vice Principal
30.1.26

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HYDERABAD - 500 075

DETAILS OF LABORATORY FACILITIES FOR POST GRADUATE COURSES

Dt. 27-01-2026

Name of the Department : **SCHOOL OF MANAGEMENT STUDIES**

Title of the Course : **Masters in Business Administration (M.B.A.)**

S. No.	Name of the Laboratory exclusive to the PG Course	Details of the Facilities
1	**Computer Lab-2 (SMS-002)**	Dell Optiplex-3020, Intel Core i5 4570-3.2 GHz (4th Gen) Quad Core Processor, 6 MB Cache Memory, H 81 Intel Chipset motherboard, 8 GB DDR3 RAM, 1 TB ATA HDD, 16x DVD Writer, 18.5" Led Monitor, Dell Keyboard/Optical Scroll Mouse, Windows7 Operating System **(32 No.)**
2	**Computer Lab-1 (SMS-003)**	HP 3330 Desktop (Without Graphic Card) Core-15-347/8 GB RAM/1TBHDD/DVD-RW/DOS **(32 No)**

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SCHOOL OF MANAGEMENT STUDIES ★ CBIT

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A), HYDERABAD - 500 075

DETAILS OF LABORATORY FACILITIES FOR POST GRADUATE COURSES

Name of the Department : MCA

Title of the Course : MASTER OF COMPUTER APPLICATIONS

S. No	Name of the Laboratory Exclusive to the PG Course	Details of the facilities
1	**MCA LAB - I**	Hardware / Systems: 1. HP Pro Tower 280 G9 E R Desktop Windows 11 Pro 64m Intel core i7-14700 5.4G 33 MB 20 cores 65W CPU, 16GB DDR4 3200 DIMM Memory 512 GB PC, 2280NVMe Value Solid state Drive, HP 280 G9E NT260W RCTO Chasis, HP 125 BLK Wired keyboard, 125 Wired mouse HP P204v 49.53 cm(19.5) Monitor - 22 2. HP 3330 Desktop Core i5-34701, 8GB RAM, I TB HDD, GRAPHIC Card, TFT Color Monitor, DVD RW, 10/100/1000 Mbps Ethernet Card, Keyboard and mouse. – 06 Nos. 3. K4Q81AV-HP 400G2 Desktop core 17-4770/3, 64ghz / 890/1 TB/DVD RW, USB/KB and mouse/005/333 G9/W86AA-HP V193, LED 18.5", Monitor – 02 Nos. 4. Dello Optiplex-3060, Core i5, 8GB RAM, I TB HDD, 20" Monitor -02 Nos. 5. HP – 280 GB Desktop, Core i7, Model No: 11700, 16GB/256 GB SSD, HP P204 V 19.5" Monitor – 04 Nos
		Network accessories and peripherals: 24 Port D Link Switch -02, HP LaserJet 1005 – 01, 6-U Communication Rack-1, HP 3 in one printer cum scanner cum Xerox machine, HP Laser jet P1007 - 01
		Electrical equipment: Cassette Air conditioners -02, Ceiling fans -04, Panasonic LCD Projector -01
		List of experimental setup in the laboratory: i) Data Structures Lab using C++ , ii) Database Management Systems Lab iii) Machine Learning Lab using Python, iv) Web Technologies Lab
2	**MCA LAB - II**	**Hardware / Systems:** 1. VASTRO 3020 SFF, Intel i7 Processor, 13 Gen, 8 GB RAM, 512 GB SSD-HDD, 20" Monitor – 17 Nos. 2. K4Q81AV-HP 400G2 Desktop core 17-4770/3, 64ghz / 890/1 TB/DVD RW, USB/KB and mouse/005/333 G9/W86AA-HP V193, LED 18.5" Monitor – 13 Nos 3. HP – 280 GB Desktop, Core i7, Model No: 11700, 16GB/256 GB SSD, HP P204 V 19.5" Monitor – 05 Nos.

S. No	Name of the Laboratory Exclusive to the PG Course	Details of the facilities
		Network accessories and peripherals: 24 Port D Link 10/100 Switch -02, HP Laser jet P1020 plus printer-01, 6-U Communication Rack -01
		Electrical equipment: Cassette Air conditioners -02, Ceiling fans -04, Panasonic LCD Projector -01
		List of Experimental setup in the laboratory: i) Java Lab, ii) Database Management Systems Lab, iii) Object Oriented System Development Lab iv) Web Technologies Lab

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