

## Department of Computer Science & IT

### List of Equipments in COMPUTER LABS for B.TECH (CS)

S.NO	ITEM	DETAILS
1.	Number of Desktop PCs with configuration of Core i-7 CPU, 4GB RAM, 500GB/1TB HDD, DVD Writer, KB, Mouse, LCD/LED Monitor	120 HP Compaq brand
2.	Computer - Student Ratio	1:1
3.	Dedicated Computing Facilities with UPS	04 computer labs
4.	Wi-Max	35 Pro ST
5.	Wi-Fi	150 Antenna
6.	Campus –LAN	Campus Network on 10km OFC backbone spanning 50 buildings and more to be connected.
7.	Proprietary Software	Oracle 11i(Limited 40 Users), Visual Stdio2012(Limited 40 Users), MS- office (Limited 40 Users), IBM Rational Rose Enterprise Edition, Borland C++.(Embarcadero RAD studio xe) Microsoft Window 7 OS(Built in System), Adobe Suite (Photoshop, PageMaker, Dreamweaver, Acrobat Professional) Corel Draw suite.
9.	Servers	10 (IBM,HP, Dell etc)
10.	Networking Lab	Cisco Lab
11.	Internet Connection through National	1Gbps (1:1) dedicated

	Knowledge Network(NKN)	
12.	Kaspersky Antivirus	400 users
13.	Internet Facility at Computer Centre	120 nodes
14.	Number of Nodes/Computers With Internet Facility at University Campus	04 computer labs
15.	24x7 support services to Wired/Wi-Fi Internet Connection	Campus LAN and Wi-Fi
16.	UPS dedicated server room with Generator backup (24x7 working)	10KVA
17.	AC's for computing facilities	15(each AC is two ton capacity)
18.	Printers	05 HP Laser Jet P1108

**Faculty in-charge**  
**Mr. Omar Mohammed**

مولانا آزاد نیشنل اردو یونیورسٹی

MAULANA AZAD NATIONAL URDU UNIVERSITY

(A Central University established by an Act of Parliament in 1998)

(Accredited with 'A' Grade by NAAC)



## Department of Computer Science & IT

### List of Equipments in Chemistry Lab

S.NO	ITEMS	QUANTITY
1	Digital pH meter	5
2	Platinum Electrode	4
3	Reference Electrode	4
4	Digital Electronic Balance (0.10mg - 300 mg)	1
5	Digital Conductivity Meter	4

Faculty in-charge

Dr. Alimuddin

## Department of Computer Science & IT

### List of Equipments in Language Lab for Communication Skills

The **Department of CS and IT** has established a **Language Lab** which focuses on the production and practice of sounds of language and acquaints the students with the use of English in everyday situations and contexts.

#### OBJECTIVES

1. To expose the students to a variety of self-instructional, learner-friendly modes of language learning.
2. To help the students cultivate the habit of reading passages from the computer monitor, thus providing them with the required facility to face computer-based competitive exams.
3. To enable them to learn better pronunciation through stress on word accent, intonation and rhythm.
4. To train them to use language effectively to face interviews, group discussions, public speaking.
5. To initiate them into greater use of the computer in resume preparation, report writing, format-making etc.
6. To promote use of Technology for Teaching Literature.
7. To assist the scholars use of technology in their research.

## **EQUIPMENTS USED**

Computer network with LAN connection with minimum **30+1** multimedia systems with the following specifications:

- i) P – IV Processor
  - a) Speed – 2.8 GHZ
  - b) RAM – 512 MB Minimum
  - c) Hard Disk – 80 GB
- ii) Headphones of High quality with Micro Phone

## **SOFTWARES**

- Young India
- Globarena
- K-Van Solutions
- Walden

**Faculty in-charge**  
**Dr. Naseer Ahmad Naseer**

Department of Computer Science & IT

LIST OF NON CONSUMABLE ITEMS FOR ENGINEERING WORKSHOP

S.NO	NAME OF THE TOOLS AND SPECIFICATION	QUANTITY
1	HEACY DUTY PILLAR DRILL MACHINE WITH ALL STANDARD ACCESSORIES. 1HP 3PHASE 1440 RPM ELECTRIC MOTOR	01
2	BALL PEEN HAMMER WITH HANDLE	03
3	CROSS PEEN HAMMER WITH HANDLE	03
4	500GMS BALL PEEN HAMMER WITH HANDLE.	03
5	14"HACKSAW FRAME WITH TABULAR WITH PLASTIC HANDLE	16
6	OIL CAN 0.25 LITRE	01
7	6-32MM SIZE DOUBLE ENDED SPANNER SET WITH TOMMY BAR	01
8	12" L.C VERNIER CALLIPER	03
9	MACHINE VICE 100MM	01
10	12" STAINLESS STEEL RULE	05
11	18"×18"SURFACE PLATE	01
12	ANGLE PLATE (10×20) CM	01
13	5MM LETTER PUNCH SET	01
14	5MM NUMBER PUNCH SET	01
15	4" CENTER PUNCH	05
16	6"SIZE HEAVY DUTY BENCH VICE	15
17	1KG CAPACITY DOUBLE FACE HAMMER	02
18	3 METER STEEL TAPE	01
19	0-25MM MICRO METER	02
20	0-25MM DIGITEL MICROMETER	01
21	200MM DIGITAL VERNIER CALLIPER	01
22	12" BEVAL SQUARE PROTECTOR	01
23	8MM DIAMETER 250MMLLENGTH SCREW DRIVER	02
24	10MM DIAMETER 300MM LENGTH SCREW DRIVER	02

25	12" PLEIR INSULATED	02
26	12" SIZE BOTH SIDE PRINTED DEPTH GAUGE	01
27	VERNEIR HEIGHT GAUGE 300MM	01
28	CARPENTRY BENCH VICE, SIZE 175MM, APEX MAKE	16
29	METAL JACK PLANE, 200MM, ANAND MAKE	10
30	METAL JACK PLANE, 350MM, ANAND MAKE	10
31	TENON SAW, 12", CAST STEEL	20
32	WOOD FIRMER CHISEL (BLADE WIDTH 25MM) WITH HANDLE, EAGLE MAKE	10
33	MORTISE CHISEL (BLADE WIDTH 12MM) WITH HANDLE, EAGLE MAKE	15
34	PVC Mallet, FACE DIAMETER 2"	16
35	CLAW HAMMER, 200GM, TAPARIA MAKE	10
36	BALL PANE HAMMER, 200 GM, TAPARIA MAKE	10
37	METAL MARKING GAUGE, 150MM	15
38	CENTRE PUNCH, 3", SAMRAT MAKE	10
39	STARTER, 3-PHASE MACHINE	1
40	STEEL PIPE VICE SQUARE PILLAR, 50MM, APEX MAKE	16
41	THREADING DIE 1"/2 TO 1" (ADJUSTABLE SPLIT DIE HOLDER), HUMMA MAKE	12
42	PIPE WRENCH, 12", TAPARIA MAKE	10
43	HACKSAW FRAME, 12", JOLLY	16
44	COUPLING (1"/2), G.I	25
45	ELBOW (1"/2), G.I	25
46	TEE (PLUG) (1"/2), G.I	15
47	UNION JOINT (1"/2), G.I	10
48	BRASS BIB COCK (TAP), 1"/2	10
49	BRASS SHOWER (1"/2)	5
50	GATE VALVE, 1"/2, G.I	5

**Faculty in-charge**  
**Mr. Rafeeq Mohammed**

Department of Computer Science & IT

LIST OF NON CONSUMABLE ITEMS FOR ENGINEERING WORKSHOP

S.No	Description	Quantity
1	DRAWING TABLES  32"×23"×18MM THICK THE TABLE IS TO BE 1" SQUARE PIPE 16 GAUGE SHEET. THE FRONT IS TO BE 36" HEIGHT AND THE BACKSIDE IS TO BE 41" HEIGHT FOR AN INCLINATION. PROVISION FOR REPLACEMENT OF ARTICLE SHOULD BE MADE.	51
2	STOOLS 28" HEIGHT FOR THE PURPOSE OF DRAWING MADE A 16 GAUGE 1"×1" SQUARE WOODEN BENDING	51
3	GEOMETRIC BOX (WOODEN)	1
4	GEOMETRIC MODEL BOX (WOODEN)	1
5	MINI DRAFTER	1

Faculty in-charge  
Mr. Rafeeq Mohammed



Department of Computer Science & IT

LIST OF PHYSICS LABORATORY EQUIPMENTS FOR B.TECH (CS)

1. **Torsional Pendulum:** Disc (2), brackets (2)
2. **Newtons Rings:** Travelling microscope (2), plano convex lens + glass plate setup(2), sodium vapour lamp 35W (2)
3. **Optical Fibre:** Jig, screen, He-Ne laser, adaptor
3. **P N Junction Diode:** Diode kit
4. **Planks Constant:** Planks const kit, Bulb, filters (4)
5. **Thermister:** Thermometer kit, thermometer
6. **RBC:** Laser, tripod stand,
7. **Energy Gap:** Thermometer, kit
8. **Polarimeter:** Polarimeter, bulb, tube (1)
9. **Dielectric Const:** kit
10. **Spectrometer:** Spectrometer, grating,

Faculty in-charge  
Dr. Priya Hasan

Department of Computer Science & IT

LIST OF MICROPROCESSOR LABORATORY EQUIPMENTS

S.No.	Items	Quantity
1.	8085 based microprocessor trainer on board keyboard, on-board USB port, provision for optional pc keyboard and Led display.	15
2.	8086 based microprocessor trainer on board keyboard, on-board USB port, provision for optional pc keyboard and Led display.	15
3.	Power supply required for kit and interfaces	30
4.	Battery backup for RAM	30
5.	PC Keyboard	30
6.	RS 232c to USB converter with USB(A-B) Cable	10
7.	8255 study card interface	1
8.	8279 study card interface	1
9.	8251 study card interface	1
10.	16 channel 8 bit ADC interface	1
11.	Dual DAC Interface	1
12.	Elevator interface	1
13.	Traffic lights Interface	1
14.	Stepper Motor control	1
15.	DAC for ADC and Temperature Sensor Interface	1
16.	4 Digit, 7 Segment LED Display Interface	1
17.	6 Digit, 7 Segment with calculator KBD Interface	1

**Faculty in-charge**  
**Mr. Jameel Ahmed**

Department of Computer Science & IT

LIST OF DIGITAL LOGIC DESIGN LABORATORY EQUIPMENTS

S.No.	Items	Quantity
1.	GATES: AND, OR, NOT, NOR, XOR, XNOR, XOR, NAND	10
2.	Half Adder and Full Adder	10
3.	Half Subtractor and Full Subtractor	10
4.	Flip-Flop (S-R, JK, T, )	10
5.	K-map	10
6.	Timer (IC-555)	10
7.	Multiplexer and Demultiplexer	10
8.	7-Seven Segment Display	10

Faculty in-charge  
Ms. Khaleda Afroaz