



NETAJI SUBHASH ENGINEERING COLLEGE

Techno City, Garia, Kolkata – 700 152

IT Facilities: Laboratories

A. Computer Science related programs

Lab Name	Hardware & Internet	software
DSA & Programming Lab-I	<u>Projector:-</u> Epson X4HP8Y01332 , <u>Lamp Type:</u> ELPLP96 <u>UPS:-</u> Emerson - 6KVA EMERSON20064922270 , RESQ6KLB – 6KVA, 4800W (RESQ83621905100390) <u>Internet :</u> Alliance 1 GBPS, Meghbela 60 MBPS, Tata 50 MBPS <u>Hardware-</u> Access Point- 2 D-Link 1024C Switch - 2	OS: Windows 10/Linux Software:- VS Code, JDK, TCC Compiler, Dev C++, Python 3.9
DAA & Programming Lab-II	<u>Projector:-</u> Epson EB-E01 , Lamp Type: ELPLP96 <u>UPS:-</u> Emerson - 6KVA EMERSON20064922270 , AVO – 6KVA, 5.4 KW <u>Internet :</u> Alliance 1 GBPS, Meghbela 60 MBPS, Tata 50 MBPS <u>Hardware-</u> Access Point- 2 D-Link 1024C Switch - 2	OS: Windows 10/Linux Software:- VS Code, JDK, TCC Compiler, Dev C++, Python 3.9
Database Management system & S/W Engg. Lab	<u>Projector:-</u> Epson <u>UPS:-</u> XP 14KL, 14KVA, 83922112100002 <u>Internet :</u> Alliance 1 GBPS, Meghbela 60 MBPS, Tata 50 MBPS <u>Hardware-</u> Access Point- 2	OS: Windows 10/Linux Software:- Oracle, JAVA, Python, DEV Python Dev C++ Jupiter notebook ,
CA & CO Lab	<u>Projector:-</u> Epson <u>Internet :</u> Alliance 1 GBPS, Meghbela 60 MBPS, Tata 50 MBPS <u>Hardware-</u> Access Point- 2	OS: Windows 10/Linux Software:- Xilings, JAVA, Logisim, Dev C++
Operating System & Network Lab	<u>Projector:-</u> Epson	OS: Windows 10/Linux Linux Server

	<u>Internet : Alliance 1 GBPS, Meghbela 60 MBPS, Tata 50 MBPS</u> <u>Hardware- Access Point- 2</u>	Software:- NetBeans Eclipse Java Python Dev C++ Jupyter notebook ,
CSE Project Lab		OS: Windows 10 Software:- NetBeans, Eclipse , Java, Python, Dev C++ Prolog, Raspberry Pi Office, PHP/mySQL Jupyter notebook ,
OOP and Python Lab		OS: Windows 10 Software:- NetBeans , Eclipse Java, Python Dev C++ PHP/mySQL Jupyter notebook ,
Research Lab		OS: Windows 10/Linux Software:- NetBeans, Eclipse Java, Python Dev C++ Prolog Raspberry Pi Office PHP/mySQL Jupyter notebook ,

B. Computing facilities: Electrical Engineering

Computing Facilities	Details/ Overview
PSim	Psim Software- Psim Pro, 4 user, Perpetual PSIM is an Electronic circuit simulation software package, designed specifically for use in power electronics and motor drive simulations.
Matlab	Version: 2008a, 10 users MATLAB is a proprietary multi-paradigm programming language and numeric computing environment developed by MathWorks.
TinkerCad(Inter net Based)	Open Source Simulation platform(https://www.tinkercad.com/projects/Basics-of-Arduino-TINKERCAD)
EMTP Software	Student Version

	EMTP® is the most complete and technically advanced software for simulation and analysis of power systems
4-bit Johnson Counter	Design of 4-bit Johnson Counter (spare components (ICs, clock circuit, pot., capacitor, etc.), bread board, power supply)
ETAP	Version:12, ETAP , 10 user
MiPower™	Version -8, 10 user

C. Computing facilities: Electronics & Communication Engineering

Computing Facilities	Details/ Overview
Multisim 2014 (10 users)	For electronics circuit design in analog electronics laboratory and device laboratory
Tanner 2015 (5 users)	For back-end design of VLSI system.
Lab View 2015 (5 Users)	For design and analysis of advanced communication system.
MatLab 2018 (9 users)	For design and analysis of digital signal processing, control and communication system.
Vivado 2015 system edition 25users	For design and analysis of digital circuits.
Xilinx	For design and analysis of digital circuits
Qualnet	For design and analysis of virtual mobilenetwork model

D. Computing facilities: Electronics & Communication Engineering

Computing Facilities	Details/ Overview
Multisim software, Version 2000	Designing of circuits, Electronics circuits
EMG signals analysis with PCinterface., Pathway™, MR-15,USA	Project & Research work, Import real-time EMG data in MATLAB & advanced analysis
MATLAB, Version 14	Interpret biosignals for diagnostic purposes eg PR interval, HRV for ECG signal
Lab-View, Evaluation version13	Virtual Instrumentation for development of new system