



## **Army Institute Of Technology (AIT), Dighi Camp, Pune - 15.**

Director : 7249250115, Joint Director : 7249250117, Principal : 7249250186

Exch : 7249250183, 7249250184, 7249250185

Website : [www.aitpune.com](http://www.aitpune.com) Email : [ait@aitpune.edu.in](mailto:ait@aitpune.edu.in)

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### **Department of Information Technology**

#### **Laboratories:**

The department is equipped with state of art, Ultra-modern and sophisticated programming labs and classrooms with fully updated faculty. The department has a well-established LAN of 140 IBM and HP machines. The ambience and the ergonomic design of the labs enhance students' appetite for acquiring programming skills. The internet facility with 500Mbps leased line and Wi-Fi is available to the students.

The department has following

#### **Laboratories:**

- Machine Learning Lab equipped with high configuration PCs with 1 HPC server used for R&D and projects.
- Programming Lab I & Lab II equipped with latest PCs used for programming in C & C++.
- Lab III equipped with high configuration PCs with 2 servers used for .NET, Networking Labs etc.
- All systems are dual boot.
- An ultra modern lecture hall equipped with video projection systems and class room for conventional as well as e-learning needs of the student.

#### **Software :**

- Oracle 10g - 100 user
- IBM Rational Software Architect - 30 user
- IBM Rational Suite Enterprise – 30 user
- Packet Tracer 5.3
- Network Simulator 2 and 3
- Visual Studio 2015



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### Software Lab-I



**Area of Laboratory :** 67.87 Sq. Mtr

#### Laboratory Resources

**Hardware :** HP EliteDesk 800 G1 TWR, HP i7, LCD Projector, HP EliteDesk 800 G1 TWR, HP i7, LCD Projector, Workstation Hardware: 1 x Intel Xeon 16 Core CPU, 4 x 16GB DDR4 ECC RAM, 1 x 2TB 2.5" SATA 6Gb/s 7.2K RPM HDD's, 1 x 240 GB 2.5" SATA 6Gb/s, SSD's, 1 x 800W SMPS Power supply , Tower Mount Cabinet chassis, 18" Display compatible for workstation, USB Mouse & Keyboard, GPU: 1x 24GB NVIDIA GeForce RTX 3090 (Ampere Architecture), Inference/Deployment Embedded Platform, Camera Setup: Thermal camera, 3D- Stereo camera, Night vision camera, IP camera – wireless, USB camera, AIOT Lab Setup

**Software :** Operating System : Windows 8.1/ Ubuntu 14, Oracle 10g, IBM Rational Software Architect, IBM Rational Suite Enterprise, Visual Studio 6.0, JDK1.6, Eclipse, Turbo C,C++, Visual Studio 10, SQL Server 2008, Office 2007/2013

**Practicals Conducted :** Computer Lab-VIII, Information Storage & Retrieval lab, Computer Lab-X

**Utilization of Laboratory :** For BE



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### Machine Learning Lab



**Area of Laboratory :** 81.00 Sq. Mtr

#### Laboratory Resources

**Hardware :** HP Elite Desk 800 G1 TWR, Intel Core i5, HP 6300 i5 Promicro Tower ,Cisco SRW 2024 (24 Port), 10 KVA UPS & Battery 12 V SMF 26AH, DL-P Projector Panasonic, HP-280 G3M I7 Dos HP-i7, Intel Core i7-6700 (3.4Ghz, 8MB Cache, 4 Cores), HP Core i5-4570, 3.2 GHz, Cisco Access Point WAP 321, Logitech R800 Professional Presenter, LG Splitter Air Conditioner 2T, Web Cam Zebronic USB, Head Phones Zebronic

#### HPC SERVER:

- Computer System Part No. Esc-Gpu-Sys3u Server Machine Up to 8 GPU/3600w Power Supply/2x Intel Xeon CPU/128 Ddr4 ECC Ram/ 2x Seagate Enterprise Class 2TB HDD 2.5'' 6gb/S 512GB M.2 SSD For Operating System
- NVIDIA Quad Rtx6000 24GB Ddr6 Turing
- NVIDIA Tx2 Development Kit With 1 TB Hard Disk and SSD Drive

**Software :** Operating System : Windows 10/ Ubuntu 16.04 , IBM Rational Seed Program RSA, IBM Rational Seed Program RSA, NetSim Component -5 & 6 (Sensor Netsim), NetSim etc. Office 2007/2013

**Practicals Conducted :** Computer lab-VIII, Information Storage & Retrieval Lab, Data Structure & File Lab, Programming Lab, Software lab-II, Computer lab-X

**Utilization of Laboratory :** SE, TE & BE



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### IT Programming Lab 1



**Area of Laboratory :** 81.38 Sq.Mtr

#### Laboratory Resources

**Hardware :** HP i5 6300 Pro Micro Tower, HP i5 6200 Pro Micro Tower, Lenovo D2C, IBM Think Center, HP LaserJet Printer 1020, HP - 7400 Scanner, 7.5 KVA UPS

**Software :** Windows 7/Windows 8/Fedora 19, Oracle 10g, IBM Rational Software Architect, IBM Rational Suite Enterprise, Visual Studio 6.0, JDK1.6, Eclipse, Turbo C,C++, Visual Studio 10, SQL Server 2008, Office 2007

**Practicals Conducted :** Computer Lab-VII, Computer lab-IX, Software lab-V

**Utilization of Laboratory :** For SE, BE & FE



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### IT Programming Lab 2



**Area of Laboratory :** 81.38 Sq.Mtr

Laboratory Resources

**Hardware :** HP i5 6300 Pro Micro Tower, HP Compaq Elite 8300 Micro Tower, Lenovo D2C , Think Center, IBM Think Center, LCD Projector Sharp Model, 7.5 KVA UPS

**Software :** Windows 7/Windows 8/Fedora 19, Oracle 10g,, Visual Studio 6.0, JDK1.6, Eclipse, Turbo C,C++, Visual Studio 10, SQL Server 2008, Office 2007

**Practicals Conducted :** Computer Lab-VII, Computer lab-IX, Software lab-V, Computer Graphics lab, Object oriented Programming lab, Software lab-I

**Utilization of Laboratory :** For TE, BE & FE



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### IT Programming Lab 3



**Area of Laboratory :** 90.58 Sq.Mtr

Laboratory Resources

**Hardware :** IBM PC Think Center DC, i3 Workstation, HP Scanner G2410, LCD Projector, 11KVA UPS, PA System , HDMI to USB Video Bridge (Osprey video capture)

**Software :** Windows 8.1 /Ubuntu 14, JDK1.6, Eclipse, Turbo C,C++, Packet Tracer, NS2.34, AutoCad 2004, Visual Studio 10, SQL Server 2012, Office 2010/2013

**Practicals Conducted :** Software Lab - IV, Processor Interfacing lab and Digital Electronics & Logic design lab

**Utilization of Laboratory :** TE& SE



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### Hardware Lab



**Area of Laboratory :** 81.38 Sq.Mtr

Laboratory Resources

**Hardware :** Microcontroller 8051 Kit, Digital kits, Microprocessor Kit

**Software :** VHDL, Xilinx, Keil, TASM

**Practicals Conducted :** Processor interfacing lab, Digital Electronics & Logic design lab

**Utilization of Laboratory :** For SE

Project Lab

**Area of Laboratory :** 53.76 Sq.Mtr

Laboratory Resources

**Hardware :** HP i5 6300 Pro Micro Tower, HP i5 6200 Pro Micro Tower, Lenovo D2C, IBM Think Center, HP LaserJet Printer 1020, HP - 7400 Scanner

**Software :** Windows 10 /Ubuntu 16.04, JDK1.6, Eclipse, Turbo C,C++, Packet Tracer, NS2.34, AutoCad 2004, Visual Studio 10, Office 2010/2013, IBM Rational Seed Program RSA, IBM Rational Seed Program RSA, NetSim Component -5 & 6 (Sensor Netsim), NetSim

**Practicals Conducted :** Project work

**Utilization of Laboratory :** For BE