

Softwares and Hardwares requirements for MCA course

1. **Lab Requirements:** At least two fully AC computer labs (for sanctioned intake of 60 students the no of labs must be increased or decreased accordingly) with wired LAN connectivity and Server. Lab must have internet facility (at least 8 mbps lease line connection for both the labs). All the computer terminals must be connected with UPS (at least 4 hours backup capacity)
2. Student computer ratio must be 1:1 for Lab work.
3. No of computer terminals can be weary in accordance with sanctioned intake, but student computer ration must not be less than 1:1 for lab work.
4. All the computer terminal must be connected with UPS (minimum 4 hours backup capacity).
5. Labs must be connected with Generator in case of long power failure.
6. Minimum 16 port switch(s), hub(s), router(s), crimping tool, RJ 45 and other necessary material for networking demonstration.
7. **Minimum Computer System Configuration:**
 - a) Core i3 second generation (3.2 MHz) processor.
 - b) 4 GB RAM
 - c) 500 GB HDD
 - d) DVD R/W
 - e) Sound card
 - f) LAN card
8. **Software Requirements:**
 - a) **Operating Systems:** WIN 8 or higher version, Linux or Unix operating system with latest version.
 - b) **Document editor:** MS Office 2010 or higher version, Notepad ++, Office Libre or any other additional editing tool for Linux or Unix operating system.
 - c) **Virtualization tools:** Virtual Box and VMware.
 - d) **Programming Tools:** Turbo C++ latest Version, JDK 8.1 or latest version, Perl latest version , Python latest version.
 - e) **Database System:** MySQL, Oracle (Latest Version)
 - f) **Scripting Tools:** Dreamweaver CS6 or higher version.
 - g) **Image Processing tools:** Photoshop CS4 or higher version, Coral Draw latest version, AutoCAD latest version.
 - h) **Web Servers:** Apache, Tomcat, Glassfish, IIS
 - i) **CMS Systems:** WordPress, Joomla, Magento, Drupal, Bootstrap tools (any).
 - j) **Mobile OS:** Window CE, Palm OS, Symbian OS, J2ME, iOS and android (Latest version of all the operating systems)
 - k) **IDE:** JGrasp, NetBeans, Eclipse (Latest Version of all the IDE(s))