



## **IT Maintenance and Support, Technology in college**

### **1. Computer Network Server Maintenance**

Server maintenance is process of keeping server software updated and running so that a computer network can operate smoothly and avoid downtime or loss of data. Regular maintenance will keep the server running as expected and will help avoid a total or partial network failure. It includes tasks like reviewing the server's performance, ensuring that automated system monitoring utilities are properly installed and configured, identifying potential security risks and backing up data at regular intervals.

#### **Types of Servers:**

- **File Server:** A central storage for files, which can be accessed by client computers
- **Domain Controller:** A server that responds to security authentication requests (logging in, checking permissions, etc.) within the network. A domain is a concept where a user may be granted access to a number of files, folders, network locations with the use of a single username and password combination and can prevent certain users from accessing other private files.
- **Remote Desktop (Terminal) Server:** A Remote Desktop Server (or Terminal Server) provides secure remote access to office and line of business applications to employees or contractors from one centralized server, instead of having each client computer running software. This makes deploying software and adding more employees very scalable and cost-effective.
- **Web Server:** Stores and shares websites over the Internet; many individuals and small companies rent web server space from other companies, but for large companies that experience a lot of traffic, a dedicated web server makes sense.

## 2. Website development & maintenance for our college

Developing a **Web** page involves **designing** and implementing the part that your readers see and interact with, known as the front end, as well as the programming and database elements of the page, known as the back end. **Maintenance** includes hosting your **Web** page and updating it so that the content remains current. Faculty members from college are involved in website development of school and colleges working under the roof of Maratha Vidya Prasarak Sanstha.

- The basic information about the **Sanstha, College** and its various Departments.
- To share the information about activities conducted in college.
- To provide updates about recent happenings in the college like Sports, Cultural activities (**past** as well as **upcoming events** also).
- To have a public platform through which any information about Admission procedure, Students verification, Alumni, etc can obtained from respective in charges.
- Website: [www.kbtcoe.org](http://www.kbtcoe.org)

## 3. FTP Server

FTP is a standard network protocol used for the transfer of files between a client and server on a computer network.

Features of an FTP server:

- In order for the client to establish connection to the FTP server, the username and password are sent over using USER and PASS commands. Once accepted by the FTP server, an acknowledgement is sent across to the client and the session can start.
- In the case of an FTP connection, it is possible to resume the download if it was not successfully completed earlier. In other words, checkpoint restart support is provided.
- The FTP server allows the downloading and uploading files. There could be access restrictions as determined by the FTP server administrator for downloading different files and from different folders residing in the FTP server.
- The FTP server can provide connection to users without need of login credentials; however, the FTP server can authorize these to have only limited access.
- FTP servers can provide anonymous access. This access allows users to download files from the servers anonymously, but prohibits uploading files to FTP servers.
- All file transfer protocol site addresses begin with <ftp://10.65.0.25>

#### **4. Development of e-contents by faculty and uploaded on SPPU website also**

The goal of this scheme is to encourage individual teachers, groups of teachers in colleges and universities in content development and multimedia production to develop educational content in electronic format, suitable for use in various teaching and learning programmes in engineering education.

##### **The objectives of the e-contents are to**

- Promote generation of e-Content in all subjects.
- Develop teachers' and experts' resources in e-Content creation.
- Make available the e-Content to teachers and students through various delivery modes for formal and non-formal education, for supplementing and complementing the process of teaching and learning in engineering education.

#### **5. Moodle for Students Interaction**

Every staff member has developed Moodle for the respective subjects for students where students are enrolled. Moodle is used to share the subject related study material. Students appear for different tests and activities allotted by subject teacher and teacher are able to assess the performance of individual and group of students. Staff members are having *YouTube* channels where they share the videos related to subject topics