P.E.S. College of Engineering, Mandya

An Autonomous Institution affiliated to VTU, Belagavi, Aided by Govt. of Karanataka, Accredited by NAAC & NBA (6 UG Programmes), New Delhi.

139th Rank in nirf

IT Service Management

- The College has IT service management team leading by department of Computer Science and Engineering (DCSE). The common servers, networking infrastructure and licensed software and hardware are maintained by the DCSE group.

The DCSE team members are:

Sl. No.	Committee Members	Designation
1	Dr. H V Ravindra	Chairman
2	Dr. M.C Padma	Member
3	Dr. Minavathi	Member
2	Sri. Sreedhar Prasad	System Administrator
3	Sri. M. Balaji	System Engineer

Each department HODS gives the requirements for up gradation of computers and the annual budget for networking and maintenance is given by DCSE team. Separate provision is made in the budget in the overall college budget every year

- Utilization in budget for maintenance of computers for the past four years

Academic Year	Annual Budget for the maintenance of computers	
	Sanctioned Amount (Rs)	Utilized Amount (Rs)
2020-21	1,50,000	1,05,000
	1,00,000	23,000
	50,000	10,000

- Utilization in budget for purchasing computers for the past four years

Academic Year	Annual Expenses for purchasing computers	
	Utilized Amount (Rs)	
Academic Year	Sanctioned Amount (Rs)	Utilized Amount (Rs)
2020-21	45,00,000	12,00,000
	800000	3,36,000

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The PESCE System Purchase and Maintenance Committee has been framed to enhance the efficiency and effectiveness in decision making. The Committee Activities are reference with Academic and Administrative needs.

Purchase Committee

Sl. No.	Committee Members	Designation
1	Sri. K S Vijay Anand	Chairman
2	Sri. S L Shivaprasad Secretary	Member
3	Sri. H P Ravishankar Treasurer	Member
4	Deputy Director (Planning)	Member
5	Concerned department HODs	Member
6	Dr. H V Ravindra	Principal

Maintenance Committee consisting of following members:

Sl. No.	Committee Members	Designation
1	Dr. H V Ravindra	Chairman
2	Dr. M. C. Padma	Coordinator
3	Sri. Sreedhar Prasad	System Administrator
4	Sri. M. Balaji	System Engineer

The IT services make use in the college for certain functionalities are
- ✓ Continuous mark assessment
- ✓ Academic record maintenance by ECAP (Engineering College Automation Package) software
- ✓ Student attendance maintenance
- ✓ PESCE Feedback Console for faculty feedback from students

Risk Management
- The Risk management is done using backup procedure. The college IT infrastructure/management team provides proper infrastructure like dedicated space, air conditioners and servers to handle the risk of information loss

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- Regularly monitored and carried out the security updates and vulnerability patches to the servers and other critical systems
- The DCSE team, monitor the vulnerability by providing firewalls on the network
- The security aspects are considered to block the insecure contents to prevent the risk of accessing untrusted websites.

Green Computing

The following policies are incorporated by reduce the electronic hazards and enhance the energy efficiency

- By replacing CRT monitors with LED monitors
- Wherever is necessary thin clients/computing are used instead of Desktops

Software Asset Management

The purchase committee is acting authority to purchase the computers, software's and network related equipments for the college on the basis of the recommendations of DCSE.

Open Source Resources

- The opportunities given to students and staff to learn free and open source software's with proprietary software

a) Number of systems with configuration

The college provides good computing facilities and new software according to academic needs. In the college totally around 1350 computers with latest configuration are available for students, scholars and faculty members in various departments and laboratories, Principal office, admission section, account section, autonomous examination section, placement and training cell, Physical education department and library.

The colleges have hardware facilities like

- As per AICTE regulations most of the department have separate computer center with upgraded software and hardware with internet connectivity.
- In the campus internet connectivity is provided at the speed of 500 Mbps

b) **Computer student ratio**: 1:3(UG) and 1:2(PG)

c) **Dedicated computing facility:**

❖ Computer Aided Engineering Drawing Laboratory, Diagnostic Maintenance Laboratory, CAD/CAM Laboratory, High Voltage Testing Laboratory, Computing Laboratories, Networking Laboratory, VLSI Laboratory, Metrology Laboratory, Tribology Laboratory, Metrology Laboratory, Wind Tunnel Laboratory, Language Laboratory, and Digital

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139th in Rank

Ranked 2nd

Atal Ranking 2020

Library for e-Books, e-Papers, e-Journals and Curricular related facility and Online examination facility at Placement and Training Centre.

❖ Internet facilities are provided to all the employees of the institution and Boys hostel and Girl's hostel to enrich learning skill and encourage to do research work.

In total the whole campus equipped with Wi-Fi facility with 100 Mbps.

d) Server facilities

- Autonomous Examination Server
- Cloud server
- College Automation Server(ECAP)
- DHCP server
- Web portal server
- Wireless authentication server
- Digital Library Server(E-Vidya)
- D-space Server
- CATIA Server
- QualNet Server
- CADENCE Server

e) LAN facility

In the entire campus 1G backbone wired and wireless network is available for all the departments, administrative blocks, Examination Section, Placement and Training cell, hostels (both boys and girls).

The active network components includes

Sl. No.	Name of the Component	Quantity in Numbers
1	Distribution Switches	38
2	Wireless Indoor and Outdoor AP's	48
3	Wi-Fi Controller	1
4	Sophos Firewall	1
5	Layer 3 Core Switches	1

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Any other

We have connectivity for all the laboratories with internet facility and all the staff machines are connected to internet

The college periodically upgrades or deploy IT infrastructure and associated facilities.

- ✓ The regular developments in technologies, it is necessary to update IT infrastructure
- ✓ The IT infrastructure replacement prevent the nature of losses
  - o The hardware up gradations done in every five years
  - o The hardware up gradations includes Processor, RAM, Graphics Card and Hard disk drivers
- ✓ Based on demand of IT services, IT infrastructures are extending regularly.

The deployment and upgrading the IT infrastructures are done by departments. The department will submit a proposal to principal office. The proposals are discussed and approved based on the scrutiny by the DCSE team. The approved proposals, purchase and deployment are carried out by the DCSE team and concerned department respectively.

All Servers, Desktops, Laptops, Laser/ Dot matrix Printers, Scanners, LCD Projectors, CCTV Cameras and other related equipments are available in the college are maintained by DCSE team

Each department technical staff maintained the systems available in the department laboratories

The UPS deployed in the college are maintained by DCSE team.