K. J. Somaiya College of Engineering, Mumbai-77

(Autonomous College Affiliated to University of Mumbai)

Criteria 4

https://docs.google.com/document/d/17Q7VB8W5GtcNpNzrovu5v_sGTQuql5wIIXczplVi8Yk/edit#heading=h.gjdgxs

4.1.1 Budget allocation, excluding salary for infrastructure augmentation during the year
Annexure 1

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
525.18 Lacs	352.15 Lacs

4.1.2 Details of augmentation in infrastructure facilities during the year Annexure 2

Facilities	Existing	Newly added
Campus area	4.25	--
Class rooms	36 Ug +6 PG	--
Laboratories	66	Drawing hall converted to Engineering Graphics
Seminar Halls	5Ug+6PG	Room No. A 202 is added as additional seminar hall of capacity 70 for college
Classrooms with LCD facilities	36 Ug +6 PG	--
Classrooms with Wi-Fi/ LAN	36 Ug +6 PG Only LAN	--
Seminar halls with ICT facilities	5Ug+6PG	Room No. A 202 is added as additional seminar hall of capacity 70 for college
Video Centre	--	A202 is added as additional seminar hall of capacity 70 for college
No. of important equipments purchased (≥ 1-0 lakh) during the current year.	--	--
Value of the equipment purchased during the year (Rs. in Lakhs)	--	214.61
Others	--	--

4.2.1 Library is automated {Integrated Library Management System (ILMS)} Annexure 3

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
Bookworm	Fully	--	1998

4.2.1 Library Services: Annexure 4

	Existing 2017-18		Newly added 2018-19		Total 2018-19	
	No.	**Value**	**No.**	**Value**	**No.**	**Value**
Text Books	27966	106 lakhs	1079	9.47 lakhs	29045	115.47 lakhs
Reference Books	13825	104 lakhs	294	6.96 lakhs	14119	110.96 lakhs
e-Books	153	6.3 lakhs	0	0	153	6.3 lakhs
Journals	458+	100.26 Lakhs	116	2.89 Lakhs	574	103.15 lakhs
e-Journals	1404	364.25 lakhs	1304	53.63 Lakhs	1304	417.88 lakhs
Digital Database	7 dbs	364.25 lakhs	6 dbs	53.63 Lakhs	6 dbs	417.88 lakhs
CD & Video	3497	-	62	-	3559	-
Library automation	YES		YES		YES	
Weeding (Hard & Soft)	7117	11.12 lakhs	0	0	7117	11.12 lakhs
Others (specify)	--	--	--	--	--	--

4.2.2 E-content developed by teachers such as: e-PG-Pathshala, CEC (under e-PG-Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc Annexure 5

Name of the teacher	Name of the module	Platform on which module is developed	Date of launching e - content

4.3.1 Technology Upgradation (overall) Annexure 6

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Available band width (M/GBPS)	Others
Existing	1541							155 MBPS	
Added									
Total									

4.3.2 Bandwidth available of internet connection in the Institution (Leased line) Annexure 7

Backbone Network: comprising of 10 Gbps optical fiber connectivity from Core to Distribution Level.
Entire network is based on Cisco Switches; high speed Nexus as the Core switch and Cisco Catalyst switches at the distribution.

155 MBPS

4.3.3 Facility for e-content **Annexure 8**

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility

4.4.1 Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year **Annexure 9**

Year 2017-18

Assigned budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
424.14 Lacs	368.20 Lacs	10.10 Lacs	21.40 lacs

4.4.2 Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website) **Annexure 10**

The college has a full-fledged Project Office which takes care of civil maintenance works and repairs.

- The laboratory equipment are repaired and maintained by the laboratory staff with the help of vendors, if required.
- The college has the posts of electrician and carpenter. So small repair works are handled by them.
- For most of the maintenance and repair works, AMCs are given to different vendors.

Continuous Monitoring and Improvement System
The Course Information Sheet (CIS) prepared at the end of the semester reflects the attainment of the course outcomes which indicates the quality of teaching. If this average attainment is low, the reasons are analyzed critically.
Academic:
- A feedback is collected for students at the end of each semester for each course, which covers questions about teaching mechanism & tools used for teaching. The students' comments about teaching is given due consideration.
- Academic Audits are conducted inviting experts from other prestigious colleges/ institutes to review the processes.
- The internal test papers are reviewed on sample basis for coverage of syllabus, level of difficulty or questions and adhering to Blooms' Taxonomy and CO mapping.
- These feedbacks are analyzed and deliberated in Meetings of Heads of the Departments, Academic Boards and Board of Management.
- Audit of Test and ESE papers is conducted every year.

Support systems:
- Laboratory audit committee checks the repair, maintenance of equipment/ furniture in the laboratories
- The cleanliness in the classrooms and laboratory is assured through an outsourced housekeeping agency.
- Register is maintained in the office to ensure that all the classrooms and laboratories in the college have sufficient lighting and ventilation.
- Separate feedback is collected about infrastructure and facilities.

Information Security:

Desktop and Laptop:
- Sharing of Folders should be discouraged,

- Every desktop should have administrator user with password security and is available only with Administrator/Lab In charge.

- Use the campus computer systems only for approved purposes.

- Do not provide access codes to any unauthorized user.

- Do not use IT resources to damage other campus resources or systems.

- AMC of every hardware device is placed.

- Make regular backups of information and files as appropriate and store it in different Storage.

- Detail IT asset register to be maintained in every Department.

Software
- Do not load Pirated Software or free unknown software.
- Do not make copies of legal software.

Network Security

Antivirus
- Install, use, and regularly update virus protection software.
- OS Patches will be updated on every computer via WSUS (Windows Server Update Service).
- Block USB storage Device and discourage drive and folder sharing to protect IT Infrastructure from virus attack.
- Do not introduce, create, or propagate computer viruses, worms, Trojan Horses, or other malicious code using campus IT resources.
- Inform immediately administrator/ lab in charge for any virus found.

Authentication
- Fortinet Firewall integrated with ADS (Active Directory Services) is used for authentication, more security and effective manageability

Network

- Do not connect devices (such as, switches, routers, hubs, computer systems, and wireless access points) to the network that are not approved by the central campus or institutional IT organization.
- Network Diagram of respective college should be maintained with IT Head.
- Do not intercept others files and folders.

Switch and Firewall
- Cisco Nexus 3548 P-10G as local core switch with VLANs at KJSCE datacenter.
- Cisco 4500 Catalyst Switch and Cisco Catalyst 2960 switch with access control list and VLANs at SVV datacenter.
- Fortinet 3040 B Firewall with all the critical services such as IPS, Antivirus, Web Filtering, DLP and Application Control at SVV datacenter.

4.1.3 Does the College provide all departments with facilities like office room, common room, and separate rest rooms for women students and staff?

- Each faculty member is provided with a specific room / sitting arrangement, a cupboard, table & chair. Recently, all the regular faculty members of the college have been given a laptop for professional / personal use; to be maintained till they are employees of the college.

- Each department head is provided with a cabin and department office is adjacent to it.

- Separate common room is provided for girl students

4.1.4 How does the College ensure that the infrastructure facilities meet the requirements of students/staff with disabilities?

- Ramps are constructed at the entrances of both the college buildings as well as one classroom

- The multi-storied structure of college buildings has lifts which can accommodate a wheel chair bound person.

- College plans to procure a wheel chair to facilitate movement of the students inside the buildings

- The departments where the visually challenged students have enrolled also have additional teaching aid for supporting their teaching-learning.

- Medical room is on ground floor and is equipped with a bed. So it is used during examination period by students who are sick and need to take rest while writing the exam