

Criteria 6

<https://docs.google.com/document/d/1iIYI81Yj8v7fubOrV2maX-wew8JJ5LWSPe8NGZip8Z8/edit>

6.1.1 Mention two practices of decentralization and participative management during the last year (maximum 500 words)

1. Software Development Centre (KJSCE SDC)

1. K J Somaiya College of Engineering Software Development Centre (KJSCE SDC) has been initiated with an ambition to discover and explore multidimensional skill set of students. KJSCE SDC would conceive and mentor development of new projects, thus providing an opportunity to students to work in an organized team within the constraints of delivery timelines. Within a project team, a student member would have the advantage of working as an engineer, in different verticals and thus can have an exposure to the complete life cycle of software development project. Method of Operation:
 - a. Provide training and/or internship to students.
 - b. Promote faculty members and students to work on multidisciplinary projects.
 - c. Stimulate and expedite technical and entrepreneurial skills of the students.
2. Objectives:
 - To bridge the gap between industry and academia by providing opportunity to students to innovate and develop solutions for real-time problems.
 - a. To provide platform to students to enable becoming responsive developers.
 - b. To encourage faculty members and students to extend the innovations upto Patents and Intellectual Property Rights (IPR).
3. Opportunities: Students will get following opportunities:
 - a. Development of real time software/ application based projects.
 - b. Consultancy with outside world.
 - c. Paid/In-house internship.
 - d. Workshop /hands-on training.

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Sr. No.	Details of activity/Software development etc.	The organisation for whom the activity/Software development etc. is initiated	Names of faculty member with department involved	Names of the students with roll no and department involved	Starting date	Month of starting date	Year of starting date	Date of Completion	Month of completion	Year of completion	Financial details if any	Remarks
1	LMS using Moodle	K J Somaiya College of Engineering	Prof. Babaso Aldar, Dr. Manish Potey Dr. Deepak Sharma		15	July	2018	30	August	2018		Continuous process
2	LMS using Moodle	Bharathi Vidyapeeth College of Engineering, Kharghar	Prof. Babaso Aldar, Dr. Manish Potey		12	December	2018	12	December	2018		Continuous process
3	Development of Web Application for NGO	Educate NGO	Prof. Swapnil Pawar, Prof. Babaso Aldar	Murtuz a, Kankrol iwala, Keval Gangar, Gaurav Khandekar	15	July	2018	30	Nov	2018		Continuous
4	Development of Web and Mobile Application for NGO	Sahabnag NGO	Prof. Swapnil Pawar, Prof. Babaso Aldar	Ayush Suri, Simran Koul	15	July	2018	30	Nov	2018		continuous

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5	Development of Website for NGO https://sahabhag.org	Sahabhag NGO	Prof. Suchita Patil, Prof. Jyoti Rao, Prof. Bharathi HN, Dr. Manish Potey	Priyal Thakka, Bhairavi, Showandraya Madhavan, Bhairavi Dave	1	July	2017	31	March	2018		Website being maintained by SDC

2. Online Grievance registration and redressal

<https://lms-kjsce.somaiya.edu/grievance/>

6.1.2 Does the institution have a Management Information System (MIS)?

Partial

6.2.1 Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Curriculum Development

- Being autonomous institute, UG syllabus will be updated after every 4 years. The first autonomous curriculum was released in 2014-15 and implemented in subsequent years for FY,SY ,TY and LY completing one cycle . Hence revised curriculum will be implemented from 2018-19 for FY.
- A core committee is formed at college level representing all departments which defines the general skeleton of curriculum refereeing to AICTE guidelines. This ensures uniformity of scheme and credits

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across all departments.

- Every department has formed syllabus committee who designs department level syllabus as per guidelines from core committee.
- Feedback about curriculum is recruiters designed and collected from stakeholders like students, alumni, parents, recruiters
- Referring to present syllabus, gaps found by faculty members and stakeholders are incorporated in new syllabus designed
- The syllabus will be presented to departmental subject boards and then to academic board for final approval
- Minor interim modifications in syllabus are approved by syllabus committee at department level. For Major changes the approval from Subject Board and Academic Board is required

Teaching and Learning

College has sponsored around 40 faculty members for two FDPs conducted by I.I.T. Bombay on “Foundation Program on ICT in Education (FDP101x)’ and “Pedagogy for Online and Blended Teaching-Learning Process (FDP201x)”

- Around 8 papers in Engineering Education Research were presented in conferences like ICTIEE 2018.
- This has led to increase in usage of course specific Internal Assessment tools, Active learning, Project based learning, Usage of ICT tools, etc.
- There are Online submissions for laboratory for all courses in some departments.

Examination and Evaluation

- Examination Committee meets regularly to address different issues such as PWD students malpractices, etc and resolves them.
- Valuable inputs / suggestions are given by the various committees e.g examination, Result Moderation and Approval, Subject Board, Academic Board, Board of management .
- There is Centralised allotment of Examiners for UG and PG programmes for Project evaluation
- There is uniformity in the test paper evaluation for both the divisions of every class. One faculty member evaluated test papers of both the divisions
- There is mid-term evaluation of final year UG projects.

Research and Development

- The college provides the eco-system to felicitate the good researcher and the Best Research award to teaching faculty in every two years. The award constitutes the certificate and cash price of Rs 10,000.
- Somaiya Trust also provides the S. K Somaiya Excellence in Research Award. The award constitutes the certificate and cash price of Rs 15,000. The award is conformed on those who are working in the Somaiya Group of Institutions. In 2017-18 this award was given to Dr. Santosh Mani, faculty of KJSCE. This helps in development of the faculty and provides sense of achievement to motivate the

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other faculty members with in the institute.

- Well-defined FDC policy with separate budget per faculty member for R&D activities, study leave for faculty pursuing higher studies under higher studies policy, recognition and awards for R&D activities, etc. has motivated the faculty member greatly to undertake the R&D activities. This is more evident from the points below.
- More faculty members have joined to submit the Minor proposals as compared to academic year 2016-17 to 2017-18. The total proposals submitted during 2016-17 were 15 whereas total proposals submitted in academic year 2017-18 was 33. The faculty members involved in increases to 39 as against to 18 in the previous year.
- The funding which is additionally required for the funded projects is bore by the college. The college also funds the projects which are not accepted by the funding agencies.
- The new funding agencies college approached is DRDO, Bill and Milinda Gates Foundation, KAIR, DST-RFBR, RESEARCH SCHEME ON POWER (RSOP), CPRI, Bangalore and Rajiv Gandhi Technology Mission Maharashtra. Total faculty strength who is working with various research projects has been increased as compared to the last academic Year. Total 59 proposals are submitted to various funding agencies as mentioned above with total buget is Rs 4,90,81,893/- with more than 50 faculty members contributed in the proposal submissions.
- The motivation among the faculty towards the research leads to filing of one patent and six copyrights during last academic year.

Library, ICT and Physical Infrastructure / Instrumentation

A 204 sqm dedicated Training and Placement cell with computational facility of 60 computers was created. This includes 4 interview rooms, 1 sitting room for group discussion

Human Resource Management

- Transparent Higher Study Policy for faculty – Deputation for Ph.D, Attending workshop/ conference/ workshop.
- Incentive on acquiring higher qualification for faculty
- Incentive on acquiring higher qualification for supporting staff
- There is appointment of full time IAI Incharge and TPO
- Non-teaching staff is sent for skillset improvement training

Industry Interaction / Collaboration

- A dedicated appointment of Mr. Sandeep Parmar was appointed as an in-charge of Industry Academia Interface.
- The interaction/collaboration comprises of guest lectures from industry experts, Industry internships for students, Industry sponsored for M.Tech projects , Feedback from recruiters and industry , FDP for faculty members from industry, design and delivery of elective courses, members in Board of Studies, etc.
- FY B. Tech semester II syllabus Industry application course is introduced in which Industry visits and industry expert lectures are included

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Industrial Visits

Sr. No	Visited Industry / Organization	Place	Date of visit	Organized by	Report / Remarks
1	Tata Consultancy Services (Industrial Application - FY B.TECH IT)	Thane	18/02/2019	IAI	
2	CitiusTech (Industrial Application – FY B.TECH COMP)	Navi Mumbai	14/02/2019	IAI	
3	Godrej & Boyce Mfg. Co. Ltd (Industrial Application – FY B.TECH MECH)	Mumbai	30/01/2019	IAI	
4	Raviraj Industries	Navi Mumbai	23/01/2019	Prof. Nilesh Lakade (Dept of ETRX)	
5	APLAB India Ltd (Industrial Application – FY B.TECH EXTC)	Thane	19/01/2019	Prof. Sangeet Kulkarni (Dept. of EXTC)	

Internship Statistics

Year	2015-16		2016-17		2017-18		2018-19		Branch wise total
Branch	In-house	External	In-house	External	In-house	External	In-house	External	
COMP	2	43	6	15	42	47	12	9	176
ETRX	11	52	1	49	26	64	10	4	217
EXTC	5	24	4	46	28	84	17	12	220
IT	11	24	0	23	8	52	42	9	169
MECH	6	59	8	34	12	113	25	13	270
Year wise total	35	202	19	167	116	360	106	47	1052

Admission of Students

Admissions in the college are based on the rules laid by the admitting authority. As per the rules, domicile of Maharashtra seats are by allotment. KJSCE is a 51% Gujarati Linguistic Minority College. The minority seats and the management seats (institute level seats) are surrender to DTE, Maharashtra as to get good quality students. The admission process is very transparent. All the admissions are merit basis only.

6.2.2 : Implementation of e-governance in areas of operations:

Planning and Development

- Well defined purchase system
- FDC – all MOMs are available on intranet

Administration

- Online railway concession
- Online grievances system

Finance and Accounts

- Formation of digital payment committee
- Uploading digital payment gateway details for various payments on website

Student Admission and Support

- Students download – various formats and applications are made available

Examination

- All the results are uploaded on intranet
- All rules and regulations of examinations uploaded on intranet

6.3.1 Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

FDC data is being updated in excel sheet

Year	Name of teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support

6.3.2 Number of professional development / administrative training programmes organized by the Colleges for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Dates (from-to)	No. of participants (Teaching staff)

Year	Title of the administrative training programme organised for non-teaching staff	Dates (from-to)	No. of participants (Non-teaching staff)

Visit

https://kjsce.somaiya.edu/media/pdf/KJSCE_Faculty%20Activity%20All%20Dept%2026%20Dec%202018_DAP.pdf

6.3.3 No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty

Title of the professional development programme	Number of teachers who attended	Date and Duration (from – to)

<https://kjsce.somaiya.edu/kjsce/academics/Publications>

locations / STTP	Department				
STTP, WS, Training Programs etc. Attended by Faculty	COMP	ETRX	EXTC	IT	MECH

6.3.4 Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Fulltime	Permanent	Fulltime
179	179	141	141

6.3.5 Welfare schemes for

Teaching	<ol style="list-style-type: none"> 1. Career Advancement Scheme (CAS) 2. LTA Facility for going to home town once in two years 3. Book Allowance of Rs.1000/- per year 4. “K. J. Somaiya College of Engineering Employee’s Co-operative Credit Society Ltd.” managed by the teaching and support staff, which provides loan facility on a short term and long term basis 5. On duty leave for higher studies, attending conferences/STTPs/workshops, delivering expert talks etc. 6. Doctor on campus for medical assistance
Non teaching	<ol style="list-style-type: none"> 1. Time Bound Promotion for NT who worked on the same scale & Grade Pay for continuous 12 years 2. Medical Insurance for the tune of Rs. 2 Lakhs for self, spouse, 2 children and parents OR 3. Rs.3500/- Medical reimbursement per employee. 4. LTA facility for going to home town once in two years OR Maharashtra Darshan 5. “K. J. Somaiya College of Engineering Employee’s Co-operative Credit Society Ltd.” managed by the teaching and support staff, which provides loan facility on a short term and long term basis 6. Uniform for Class IV employees 7. Apron for Workshop Instructors & Chemistry Lab supporting staff 8. Safety shoes for workshop staff 9. Doctor on campus for medical assistance
Students	<ol style="list-style-type: none"> 1. Group Insurance for the tune of Rs. 1.00 Lakh for all the students 2. Financial support from College – PUSH Scholarship for financially weaker students 3. Proctorial System for all the students 4. Psychological counsellor on campus 5. Doctor on campus for medical assistance

6.4.1 Institution conducts internal and external financial audits regularly

Yes. Internal financial audit is done every six month and the external financial audit is done annually for each financial year.

6.4.2 Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non-government funding agencies/ individuals	Funds/ Grants received in Rs.	Purpose

6.4.2 Total corpus fund generated	
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6.5.1 Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	YES	A committee of auditors having 5 members outside Mumbai University	NO	
Administrative	NO	--	--	--

6.5.2 Activities and support from the Parent – Teacher Association (at least three)

The college does not have presently Parent – Teacher Association. College has Proctorial system in which a group of students is allotted to a faculty member in FY to care of all the issues related to the allotted students. A proctor acts as a surrogate parent to the students. The communication with the parents regarding the attendance and other issues is taken care by the proctor. The meeting with the parents are also scheduled once a six months. Dean SA is the chief proctor to coordinate the activities of proctorial system.

6.5.3 Development programmes for support staff (at least three)

Various technical training programs in the domain are arranged by departments for their technical support staff to improve their competency levels.

- The few staff members are also sent outside for the training
- Additional NCB increments are given to staff for additional qualifications acquired

6.5.4 Post Accreditation initiative(s) (mention at least three)

1. SDC
2. Online grievance redressal
3. Application to various rankings
4. Upkeep of website for data management

a. Submission of Data for AISHE portal : (Yes /No)	YES
b. Participation in NIRF : (Yes /No)	YES
c. ISO Certification : (Yes /No)	NO
d. NBA or any other quality audit : (Yes /No)	YES MECH UG NBA application submitted and committee is expected to visit in April 2019

6.5.6 Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting activity	Duration (from----- to-----)	Number of participants
2018-19	Exam Cell Audit	13/03/2019	One day	Two external experts and exam cell staff