Yearly Status Report - 2019-2020

Part A	
Data of the Institution	
1. Name of the Institution	**K. J. SOMAIYA COLLEGE OF SCIENCE AND COMMERCE**
Name of the head of the Institution	**Dr. Pradnya Prabhu**
Designation	**Principal**
Does the Institution function from own campus	**Yes**
Phone no/Alternate Phone no.	**02221020718**
Mobile no.	**9820009267**
Registered Email	**principal.kjssc@somaiya.edu**
Alternate Email	**pradnya.prabhu@somaiya.edu**
Address	**K. J. Somaiya College of Science and Commerce, Vidyanagar, Vidyavihar, Mumbai – 400077**
City/Town	**Vidyavihar**
State/UT	**Maharashtra**

Pincode	**400077**

2. Institutional Status

Autonomous Status (Provide date of Conformant of Autonomous Status)	**04-Oct-2012**
Type of Institution	**Co-education**
Location	**Urban**
Financial Status	**Self financed and grant-in-aid**
Name of the IQAC co-ordinator/Director	**Dr. Lolly Jain**
Phone no/Alternate Phone no.	**02221020615**
Mobile no.	**9819914206**
Registered Email	**lolly@somaiya.edu**
Alternate Email	**iqac.kjssc2003@somaiya.edu**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	https://kjssc-sr.s3.ap-south-1.amazonaws.com/IQAC/AQAR+2018-19+Final+PDF+report.pdf

4. Whether Academic Calendar prepared during the year	**Yes**
if yes,whether it is uploaded in the institutional website: Weblink :	https://kjssc-sr.s3.ap-south-1.amazonaws.com/IQAC/Academic+Calendar/Academic+Calendar+2019-2020+.pdf

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity	
				Period From	Period To
2	**A**	**3.21**	**2010**	**04-Sep-2010**	**03-Sep-2015**
3	**A**	**3.24**	**2016**	**25-May-2016**	**25-May-2023**

6. Date of Establishment of IQAC	**10-Sep-2003**

7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
Learn from Stalwarts	11-Feb-2020 2	90
Parent-Teacher meeting	10-Aug-2019 1	125
Regular meeting of Internal Quality Assurance Cell (IQAC)	14-Dec-2019 1	17
Regular meeting of Internal Quality Assurance Cell (IQAC)	13-Jul-2019 1	18
Submission of Annual Quality Assurance Report (AQAR 2018-2019) to NAAC	23-Oct-2020 1	143
Feedback from students and parents analyzed and used for improvements	01-Aug-2019 1	1898
Examination Processes Audit	04-Dec-2019 1	17
Academic Audit (AA)	12-Jun-2019 1	143
Academic Audit (AA)	08-Jun-2019 1	143
Active Learning Centre status for NPTEL Courses	31-Dec-2019 153	44
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8. Provide the list of Special Status conferred by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Institution	Autonomy	UGC	2012 1825	2000000
Institution	College with Potential for Excellence	UGC	2016 1825	15000000
Department	DBT STAR Scheme	DBT	2014 365	6900000
Department	DBT STAR Scheme	DBT	2018 730	2600000
Department	DBT STAR Scheme	DBT	2017 1095	10400000

Institution	FIST	DST	2013 1825	9000000
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9. Whether composition of IQAC as per latest NAAC guidelines:	**Yes**
Upload latest notification of formation of IQAC	View File
10. Number of IQAC meetings held during the year :	**3**
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	**Yes**
Upload the minutes of meeting and action taken report	View File
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	**No**

12. Significant contributions made by IQAC during the current year(maximum five bullets)

Admission for 20192020 was online. Major focus on training the faculty for implementation of new pedagogies in teachinglearning, and evaluation. Initiation of one new postgraduate program M.Sc. Mathematics

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13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year

Plan of Action	Achivements/Outcomes
Collaboration with RiiDL (Research Innovation Incubation Design Laboratory) for innovation-At least 2 start ups	**Two start-ups initiated MOSS – App developed for digitally linking college with all students at all times Quickfoodzz- Digitalized Canteen Service 30-32 students did Internship**
RST-GIS Centre-September, 2019	**It is functional. Beneficiaries: Certificate Course 10 (02 outsiders). Diploma course-22 (07 outsiders). PG Diploma course-02 (02 outsiders)**
Collaboration and linkages-around five	**Two**
Enhancement of MoUs	**Eleven MoUs**
Projects for Commerce faculty and students -July to December	**Three minor research projects sanctioned by University of Mumbai to the commerce faculty and applied for**

	one major project. 2 Paper presentations in International conference (Dr. Bharathi M) Projects as Internal evaluation for students could not be initiated.
Molecular Biology workshop in July, 2019	9th July to 13th July, 2019. Beneficiaries-28 T. Y. B. Sc. students. 23rd July to 27th July, 2019. Beneficiaries-25 M.Sc. students
Faculty Conclave in April, 2020	Could not be held due to lockdown.
Faculty induction: On use of ICT tools in teaching, learning and evaluation from August 2019 onwards.	1] Two days induction program on communication skills conducted in association with Rambhau Malgi Prabodhini, Knowledge excellence centre on 13th-14th July 2019. Beneficiaries: 80 2] Attended by faculty Orientation programs – 02 Induction program by IISER Pune-02 Refresher Course – 10 Online refresher course - 01 3] Workshop on E-content development conducted on 28-29th February, 2020. Beneficiaries-59. Participants learnt different online tools for the creation of e-content.
Workshop on Schrodinger software training (Under CPE) on 12th and 16th July, 2019	Beneficiaries:14 faculties. This training has helped in planning a certificate course on drug designing.
M.Sc. Mathematics to be introduced by July, 2019	Program initiated. No of Admissions: 25 in 201920 and 24 in 202021
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14. Whether AQAR was placed before statutory body ?	**Yes**

Name of Statutory Body	Meeting Date
Governing body	30-Jul-2020

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	**Yes**
Date of Visit	23-Sep-2019
16. Whether institutional data submitted to AISHE:	**Yes**
Year of Submission	2021
Date of Submission	13-Jan-2021

17. Does the Institution have Management Information System ?	Yes
If yes, give a brief descripiton and a list of modules currently operational (maximum 500 words)	A. Online Initiatives for Office Activities Hands on Training of Lab Attendants for online Laboratory Breakages conducted on 17th June 2019) 1. Online Generation of Students Register: The student general register contains class wise details of the students. Writing of students register for one academic year involves data entry of approximately 2500 students. The approximate time required per entry is 12 to 15 minutes. By capturing the necessary fields at the time of admission helps to generate the Students Register directly from the software and ensures ease in maintaining the record. 2. Use of online recruitment module: Postage charges are saved for each recruitment process made under the unaided section as the applications and the entire correspondence towards the recruitment has been made through email and the official web portal. This initiative facilitated speedy and timely recruitment and helps to reduce paper based correspondence. 3. HR software has served office staff members in the following domains a. Integration of Biometric attendance to HR software has reduced the time required for salary processing as there is no need of referring attendance musters at the time of salary disbursement b. No need to print and distribute salary slips every month c. Leave registers can be generated from software every year so no need to maintain Leave registers manually for CL PL. It is maintained for Medical leave, Duty leave, Paternity leave, Child care leave, extraordinary leave d. Salary registers can be generated from software every year so no need to write salary registers manually. e. Updation of HR software as per requirements of fixation done under 7th pay commission has been done. B. Online initiatives for students 1. Online railway concessions: Students can now apply for railway concession through the online link and can collect the concessions directly from the concerned counter for which student has to wait not more than

2 to 3 minutes at the counter. Earlier the student used to submit the application form at the window and collect the same at the same time which used to take 10 minutes per student. Number of applications received 4,891 Number of concession issued 4,192 2. End to end Online admission for inhouse students of S.Y/T.Y.B.Sc and S.Y./T.Y.B. Com. From the academic year 2019 to 2020, the college has initiated end to end online admission for inhouse students of S.Y/T.Y.B.Sc and S.Y./T.Y.B. Com. This system ensures the hassle free process of online filling of admission form, selection of subject, and payment of fees through payment gateways. C. Online initiatives for Staff: Implementation of new HR software has enabled us to offer Individual Log In account to all employees to avail following services: 1. Online submission of leave application 2. Online Leave record available for easy reference 3. Online salary slip 4. Online view of daily / monthly / yearly attendance In and Out 5. Duly signed Form no 16 for all employees were sent in pdf format to each employee separately

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Design and Development

1.1.1 – Programmes for which syllabus revision was carried out during the Academic year

Name of Programme	Programme Code	Programme Specialization	Date of Revision
MSc	19PS3BT	Biotechnology	06/06/2019
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1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
MSc	Biochemistry	06/06/2019	19PS4BCP	11/11/2019
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1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
MSc	Mathematics	06/06/2019
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the College level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BSc	Chemistry, Biochemistry, Physics, Microbiology, Mathematics, Botany, Zoology, Biotechnology, Geology	06/06/2019
BSc	Statistics, IT, Computer Science	06/06/2019
BCom	BCom, BAF,BFM,BMS	06/06/2019
MSc	Chemistry, Biochemistry, Physics, Microbiology, Mathematics, Botany, Zoology, Biotechnology, Geology	06/06/2019
MSc	Applied Statistics, IT, Polymer Science, Nutraceuticals, Environmental Science,	06/06/2019
MCom	Accountancy, Business Management	06/06/2019

1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
IYPT 2019 India program	03/10/2019	16
Certification and training in Manufacturing(level-2) -Food safety supervisor	29/07/2019	19
Certification and training in Catering(level-2) -Food safety supervisor	30/07/2019	19
Certificate course in Nanotechnology	21/11/2019	20
Certificate course in Python	07/06/2019	28
Certificate course in Field Biology	31/07/2019	18
Certificate course in SAP	01/11/2019	20
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field

MSc	Biochemistry	20
MSc	Biotechnology	16
BSc	Biotechnology	2
MSc	Botany	4
BSc	Botany	7
MSc	Chemistry	75
BSc	Computer science	8
MSc	EVS	13
MSc	Geology	14
BSc	Geology	42

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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

Feedback Obtained

Feedback is collected from all stakeholders. Feedback on faculty, for example, is collected from students at the end of every semester. The feedback form is designed to incorporate depth of knowledge of the subject, presentation skills, sincerity, commitment, regularity, punctuality, syllabus coverage, ability to relate the course to real life situations, ability to generate interest, accessibility of teachers for clarifications outside the class, ability to command and control the class, and overall rating. The students give their feedback on faculty on the basis of 10 parameters and using a five-point scale. The feedback is analyzed by the feedback committee and is shared with the Head of the institution. In the analysis the feedback is compared with the feedback of the previous and current semester. If any improvements are called for, the matter is brought to Principal's notice. Then the Principal shares the feedback with the faculty concerned and suggests necessary steps for improvement. Feedback on curriculum is collected from all stakeholders, and the findings are communicated to the respective Boards of studies / Boards of Examiners. Feedback is analyzed and suggestions and recommendations are conveyed to the university. Faculty members are appraised of their role in syllabus completion, based on feedback from students. K.J. Somaiya College of Science and Commerce is sensitive to the needs of the student's community in providing contemporary education. In our effort to upgrade our syllabus at UG and PG level and providing need-based education designed according to the current market demands and the potential demand in the near future so that it proves to be greatly beneficial to students in terms of employment prospects, the feedback on curriculum is collected from Alumni as well as employers.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
MSc	M.Sc.I Statistics	20	137	20
MCom	M.Com. I Accountancy	60	237	57
MSc	M.Sc.I Nutraceuticals	20	63	19
MSc	M.Sc. I Chemistry	80	268	78
BSc	F.Y.B.Sc.	600	2117	634
BCom	F.Y.B.Com.	360	2392	374
BSc	F.Y.B.Sc.(BT)	35	879	39
BSc	F.Y.B.Sc.(CS)	60	1678	59
BSc	F.Y.B.Sc.(IT)	120	1889	136
MSc	M.Sc. I Microbiology	20	220	21

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2.2 – Catering to Student Diversity

2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	3545	797	41	2	100

2.3 – Teaching - Learning Process

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Numberof smart classrooms	E-resources and techniques used
143	95	6	6	1	21

[View File of ICT Tools and resources](#)

[View File of E-resources and techniques used](#)

2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

The main objective of this committee is to help the students to strengthen their varied capabilities and to build an interpersonal relationship between the teachers and students. With this purpose, a "Tutor-mentor" (mentor-mentee) committee was formed in the college. Nine coordinators were appointed for various departments in the college. Every coordinator was given the freedom of allocating students to the teachers in the departments. Each teacher in all departments was assigned the task of mentoring 25-30 students. It was expected that the two interactions per semester should be done by every teacher. Some teachers did it very effectively.

Complaints/issues raised were communicated to HOD/Principal for further action. Few students who required personal counseling were referred to Dr. Srirang Joshi, Psychologist, Technical analyst and Trainer in Financial Services who is appointed as a Counselor in College. During the lock down period, a session on stress management by Ms. Madhura Bapat, a Counselor and Community Coordinator at IPH Thane, was arranged by the committee.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
4305	143	1:30

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
91	65	26	Nill	38

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Dr. Rohit Singh Chauhan	Assistant Professor	Dr. S.K Somaiya award for excellence in research Higher and technical Education by Somaiya Trust
2019	Dr Seema Sambrani	Assistant Professor	Best Teacher for 2018-2019 Session from Microbiologist Society
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2.5 – Evaluation Process and Reforms

2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BCom	UBM	Mar-19	12/04/2019	04/05/2019
BSc	USIT	Mar-19	11/04/2019	06/05/2019
BCom	UAF	Mar-19	12/04/2019	03/05/2019
BCom	UFM	Mar-19	12/04/2019	03/05/2019
BCom	UC	Mar-19	10/04/2019	03/05/2019
BSc	US	Mar-19	08/04/2019	03/05/2019
BSc	USCS	Mar-19	11/04/2019	04/05/2019
BSc	USBT	Mar-19	08/04/2019	04/05/2019
MCom	PC	Mar-19	24/04/2019	14/05/2019

MSc	PS	Mar-19	24/04/2019	14/05/2019

2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
42	8652	0.48

2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

https://kjssc-sr.s3.ap-south-1.amazonaws.com/IQAC/PEOs%2C+PSOs+and+CLOs+2019-2020.pdf

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
UC	BCom	Commerce	252	227	90.08
US	BSc	Science	396	383	96.72
USCS	BSc	Science	66	64	96.97
USBT	BSc	Biotechnology	27	26	96.3
UFM	BCom	Financial Markets	45	42	96.33
UAF	BCom	Accounting and Finance	66	61	92.42
USIT	BSc	Information Technology	109	107	98.17
UBM	BCom	Management studies	65	64	98.46
M.Com-BM	MCom	Business Management	34	33	97.06
M.Com.-ACC	MCom	Accountancy	50	48	96

2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

https://kjssc-sr.s3.ap-south-1.amazonaws.com/IQAC/SSI+2019-2020.pdf

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Promotion of Research and Facilities

3.1.1 – The institution provides seed money to its teachers for research

Yes
Name of the teacher getting seed money
Nil
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3.1.2 – Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
Nill	Nil	Nil	Nill	Nil

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3.2 – Resource Mobilization for Research

3.2.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Projects sponsored by the University	365	University of Mumbai	337000	0

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3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

9

3.3 – Innovation Ecosystem

3.3.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
Design Thinking for Teachers - Hands on training Workshop	Innovation incubation	28/11/2019
Symposium on IPR	Microbiology in association with IIC	03/01/2020
University of Padaova,Italy delegation visit	international relations	11/02/2020
Campus to corporate in collaboration with IIM ,Calcutta	Industry Academia Relations	27/01/2020

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3.3.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category

Nil	Nil	Nil	Nill	Nil

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3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
Research Innovation Incubation Design Laboratory, Startup Incubator funded by DST,DBT,GOI-Somaiya Vidyavihar	RiiDL Chapter, K. J. Somaiya College of Science and Commerce	K. J. Somaiya College of Science and Commerce	MOSS	Mobile App based	01/07/2019
Research Innovation Incubation Design Laboratory, Startup Incubator funded by DST,DBT,GOI-Somaiya Vidyavihar	RiiDL Chapter, K. J. Somaiya College of Science and Commerce	K. J. Somaiya College of Science and Commerce	Online Canteen Services ongoing	Mobile App based	01/07/2019

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3.4 – Research Publications and Awards

3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
Business communication	1
Chemistry	1

3.4.2 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
National	Microbiology	2	0
International	Zoology	1	0
International	Physics	1	1.24
International	Microbiology	2	0
International	Geology	1	2.7
International	Chemistry	3	3.6
International	Business communication	2	0
International	Accountancy	1	0
International	Commerce	1	0

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3.4.3 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Biotechnology	1
Chemistry	1
Computer Science	16
Physics	1
Zoology	1
Aided Commerce	1
Unaided Commerce	1
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3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
Nil	Nill	0	Nill
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3.4.5 – Bibliometrics of the publications during the last academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Reactivity of hemi-labile pyridyl and pyrimidyl derived chalcogen ligands towards group 10 metal phosphine precursors	Rohit Singh Chauhan	New J. Chem., 2020, 44, 2689	2020	0	K J Somaiya College of Science and Commerce	245
Reactivity of Nickel metal precursors towards amido linked N-heterocyclic carbenes and their catalytic studies for cross	Suryakant Nagar, Sucheta Ch atterjee, Dibakar Goswami, David B Cordes, A M Z Slawin, Rohit Singh Chauhan,	Inorganica Chimica Acta 504 (2020), 119446	2020	3.9	K J Somaiya College of Science and Commerce	245

coupling reactions	Pradnya Prabhu					
Cadmium Chloride and Cadmiun Iodide Thiosemicarbazone Complexes as single source precursors for CdS nanopaerticles	Amol S Pawar, Shivrsm S Garje, Neerish Revaprasadu	Russian journal of Inorganic Chemistry, 2019, Vol.64, No.8, pp-1063-1071	2019	0	K J Somaiya College of Science and Commerce	1

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3.4.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Reactivity of Nickel metal precursors towards amido linked N-heterocyclic carbenes and their catalytic studies for cross coupling reactions	Suryakant Nagar, Sucheta Chatterjee, Dibakar Goswami, David B Cordes, A M Z Slawin, Rohit Singh Chauhan, Pradnya Prabhu	Inorganica Chimica Acta	2020	8	245	K J Somaiya College of Science and Commerce
Reactivity of hemi-labile pyridyl and pyrimidyl derived chalcogen ligands towards group 10 metal phosphine precursors	Rohit Singh Chauhan	NJC impact 3.24	2020	8	245	K J Somaiya College of Science and Commerce
Cadmium Chloride	Amol S Pawar,	Russian journal of	2019	4	1	K J Somaiya

| and Cadmiun Iodide Thiosemicarbazone Complexes as single source precursors for CdS nanopaerticles | Shivrsm S Garje, Neerish Revaprasadu | Inorganic Chemistry | | | | College of Science and Commerce |

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3.4.7 – Faculty participation in Seminars/Conferences and Symposia during the year

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	14	13	1	71
Presented papers	1	3	Nill	Nill
Resource persons	2	10	1	124

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3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultan(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
Nil	Nil	Nil	0

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3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
Nil	Nil	Nil	0	0

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3.6 – Extension Activities

3.6.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Thalassemia Check up	NSS, K.J.S.S.C. and Lions Club	8	230
Blood Donation Drive [1]	NSS, K.J.S.S.C. and Somaiya Blood Bank	8	110
Blood Stem Cell and Bone Marrow	NSS, K.J.S.S.C. and Datri NGO	9	160

Registration Drive				
Adventure Training Camp	NCC, Nehru Yuva Kendra		1	8
Udaan Festival	D.L.L.E, K.J.S.S.C, K.J.S.A.C		108	710
Pre-Udaan Poster Competition	D.L.L.E, K.J.S.S.C		4	16
Talk on Mahatma Gandhi-Inspiration for Youth	D.L.L.E, K.J.S.S.C		5	140
Mahawalkathon 2019 to Spread Awareness on Road Safety	D.L.L.E. K.J.S.S.C and P.W.D. Govt of Maharashtra		5	63
Donation Drive For Flood Affected Regions in Maharshtra	D.L.L.E , K.J.S.S.C and Sub Division officer, Mumbai Suberban District		7	30
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3.6.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
Udaan Festival 2019 2020	Special contribution for organizing Udaan Festival on 29th and 30th January 2020	Department of Lifelong Learning and Extension, University of MumbaI	710
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3.6.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites
NSS : Under SBA	KJSSC NSS Unit	Cleanliness Drive in Adopted Area	2	20
NSS : Under SBA	KJSSC NSS Unit	Street play on Clean India, Green India and AIDS Awareness	2	20
NSS : Under SBA	KJSSC NSS Unit	Monorail Clean-up	2	20
NSS	NSS Unit and Tata Trust	Juhu Beach Clean-up	5	4000
NSS	NSS Unit and University of	Kalina Campus Clean-up	5	1000

	Mumbai			
Aids Awareness	KJSSC Girls NCC unit	Blood Donation Aids Awareness	5	78
Swachh Bharat Abhiyan	NCC Girls Unit with 1 MAH Bn	Swachh Bharat Abhiyan	1	76
NSS : Under SBA	KJSSC NSS Unit	Swacchta Pledge	2	15
NSS : Under SBA	KJSSC NSS Unit	Classroom Cleanup	2	15
NSS : Under SBA	KJSSC NSS Unit	College Campus Cleanup	2	15
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3.7 – Collaborations

3.7.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
SVU-MSU Global Alliance towards Sustainable Development	Dr. Abhishek Chhaya M Dr. Veena Salvi Dr Sugandha Shetye	Michigan State University and KJSSC	7
Student Exchange Programme	Apoorv Sinha	Tuition fees waive	60
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3.7.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Project Guidance, Laboratory facilities	MOU	Nirmala Niketan College	17/07/2019	30/04/2020	All MSc students
internship	MOU	RIIDL	01/04/2019	30/04/2019	All TY Students
Project Guidance	MOU	Riidl	01/07/2019	31/03/2020	All TY Students
Project Guidance	MOU	Riidl	01/07/2019	31/03/2020	All TY Students
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3.7.3 – MoUs signed with institutions of national, international importance, other institutions, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers

			participated under MoUs
Lab Care Diagnostics India Pvt. Ltd.	18/07/2019	Student exchange, joint Research, Guest lecture, talks, Internshi	3
Division of Plant Pathology and Nematology Florida Agricultural Research	28/02/2019	Student exchange, joint Research, Guest lecture, talks, Internship	Nill
TATA Memorial Hospital, Parel	14/01/2020	Internship, Research Collaboration	5
BMN College of Home Science, Matunga, Mumbai	13/08/2019	Faculty exchange	2
Riidl	11/02/2019	Research and Consultancy	182
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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

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

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
16.5	17.37

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Existing
Seminar Halls	Existing
Classrooms with LCD facilities	Newly Added
Seminar halls with ICT facilities	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Existing
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4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
BOOKWORM	Fully	NA	2012

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	47417	4505620	1787	311352	49204	4816972
Reference Books	35864	18098655	505	503378	36369	18602033
e-Books	41	6635	Nill	Nill	41	6635
Journals	2709	2257123	Nill	Nill	2709	2257123
CD & Video	183	44565	Nill	Nill	183	44565
Library Automation	1	2137298	Nill	Nill	1	2137298
Weeding (hard & soft)	4226	623585	Nill	Nill	4226	623585
Others(specify)	2443	Nill	32	Nill	2475	Nill
e-Journals	3	174823	2	79560	5	254383
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4.2.3 – 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

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Shabib Khan	Features of EDMODO	Under the project "Development of Interactive e-content for Higher Education Learners" at DET (Department of Educational Technology), SNDT Women's University, Santacruz, Mumbai, organized by Teaching Learning Centre (TLC), awarded by MHRD	08/08/2019
Shabib Khan and Lolly Jain	Planning out of class activities and Formative assessment tools. Recording of videos for formative assessment tools such as Testmoz, Poll everywhere, Mind map, Concept	Under the project "Development of Interactive e-content for Higher Education Learners" at DET (Department of Educational Technology), SNDT Women's University, Santacruz, Mumbai, organized by	08/08/2019

		Teaching Learning Centre (TLC), awarded by MHRD	

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4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/ GBPS)	Others
Existing	247	112	0	29	23	23	57	1000	7
Added	0	0	0	0	0	0	0	0	0
Total	247	112	0	29	23	23	57	1000	7

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

1000 MBPS/ GBPS

4.3.3 – Facility for e-content

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

4.4 – Maintenance of Campus Infrastructure

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

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurredon maintenance of physical facilites
75.06	11.12	302.23	418.23

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)

Purpose: This policy is to ensure regular and need based maintenance and optimal utilization of physical, Academic and Support facilities- Laboratory, Library, Sports complex, Computers, Classrooms, etc. Procedures: Maintenance: Somaiya Vidyavihar has separate establishment called project office in the campus which takes care of maintenance like civil, electricity, water supply, general maintenance and infrastructure. The college also has 24 X 7 security service. The college has AMCs of equipment's in various laboratories as well as in the central instrumentation facility. We have comprehensive annual maintenance contract for computers. College also has central department which provide IT support to all the institutions Utilization: Academic facility- LCD laptops and projectors provided to the departments are required to be used for delivering academic content. Seminar halls, Common staff room, and all departments are equipped with internet. LED displays are mounted in the college at different locations to display notices and circulars. Each faculty member and students is provided with email and access to google suits. IT Facility: We have implemented Active Directory Services for authentication and security at desktop level. Library facility: Library committee comprises of librarian, Assistant librarian and four teachers. The library resources are continuously updated and make it more learner friendly. Advisory committee make continuous

interaction with all heads of departments, staff members and students to improve library resource and operation Sports complex: The sports facility available on the campus should be used with responsibility by all stakeholders and the gymkhana officials should ensure the same.

https://kjssc-sr.s3.ap-south-1.amazonaws.com/IQAC/Policy+for+Maintainence.pdf

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	ABVM agrawal Jatia Kosh president/ secretary	1	1500
Financial Support from Other Sources			
a) National	Directorate of Higher Education (Rajarshi Shahu Maharaj)	48	502600
b)International	NIL	Nill	0
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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Language lab	16/08/2019	360	Biyani Software
Student Mentoring	05/07/2019	4305	NA
Remedial Coaching	01/08/2019	71	NA
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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passedin the comp. exam	Number of studentsp placed
2019	Lectures with introduction to the competitive examinations for PG science students qualifying the General Paper Prof:	115	Nill	Nill	Nill

	Kirtikumar Chandulal Badgujar, Hiren Dandia				
2019	Inter collegiate Workshop on CSIR_UGC_NET (Life Science) Exams by Prof: Bhupendra Pushkar University of Mumbai	155	Nill	Nill	Nill
2019	Guidance for competitive exams, NET SET Coaching in Chemistry	35	Nill	Nill	Nill
2019	Guidance for competitive exams in Geology	24	Nill	5	Nill
2019	Induction program on Diploma/Certificate Courses for Paramedical Job opportunities	Nill	320	Nill	2
2019	Talk on Opportunities in Mutual Fund	Nill	113	Nill	Nill
2019	Talk on "Scope of Packaging as New Career Opportunity"	Nill	176	Nill	Nill
2019	Talk on "Travel and Tourism World"	Nill	125	Nill	Nill
2019	Career Fair and Talk on "Making a Successful Career in Accounts and	Nill	95	Nill	Nill

	Finance"				
		View File			

5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
Nill	Nill	Nill

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Nameof organizations visited	Number of students participated	Number of stduents placed	Nameof organizations visited	Number of students participated	Number of stduents placed
Capgemini	90	27	TATA Consultancy Services Limited	65	13
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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2019	1	B.Sc.	Statistics	Symbiosis Pune	M.Sc. Data Science
2019	7	B.Sc.	Microbiology-Biochemistry	K. J. Somaiya College of Science and Commerce	M.Sc. Biochemistry
2019	3	B.Sc.	Mathematics	Department of Mathematics, University of Mumbai	M.Sc. Mathematics
2019	1	B.Sc.	Information Technology	UDIT, University of Mumbai	M.Sc. Information /technology
2019	4	B.Sc.	Geology	St. Xaviers college , Mumbai	M.Sc. Geology
2019	2	B.Sc.	Computer Science	Ramnaraian Ruia College, Mumbai	M.Sc. Computer Science
2019	14	B.Sc.	Chemistry	K. J. Somaiya College of	M.Sc. Inorganic Chemistry

2019	1	M.Sc.	Botany	Ashoka Trust for research in Ecology and Environment	Ph.D
2019	2	B. Sc.	Biotechnology	University of Mumbai	M. Sc. Bio technology
2019	12	B.Sc.	Biochemistry	K. J. Somaiya College of Science and Commerce	M.Sc. Biochemistry

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 5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
NET	6
GATE	2
GRE	1
TOFEL	1
Any Other	1
Any Other	6
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5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Asmita - Annual Cultural Festival	Institution	70
Surabhi - Annual Cultural Festival	Institution	150
Sci Co Expo	Institution	50
Annual Day	Institution	50
Guru Purnima	Institution	120
Annual Sports Day	Institution	67
Selection trial for Athletics	Institution	16
Selection trial for Carrom	Institution	23
Selection trial for Chess	Institution	20
Selection trial for Table tennis	Institution	7
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5.3 – Student Participation and Activities

5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
Nill	Nil	Nill	Nill	Nill	Nil	Nil

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5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

Student council is an active body representing students from different genres such as NSS, NCC, Cultural forum, Sports and Academics. The students are usually nominated or selected by the teachers as representatives from different divisions of Science and Commerce who excel in interpersonal skills. They help in publicizing different programmes amongst students and they also participate in most of them. Two meetings are held, one per term, but in 2019-20, due to pandemic only one meeting could be held. The council is continuously encouraged and motivated by the Head of the institute.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

K. J. Somaiya College of Science and Commerce Alumni association Soc. Reg. No.: 2061/2015/GBBSD, P.T.R. No.: F66106 The members unanimously elected are 1. Dr. Pradnya Prabhu (President) 2. Dr. Ranjan Mogre (Secretary) 3. Mr. Vishwanath Mannadiar (Jt. Secretary) 4. Mr. Shekhar Bagayatkar (Jt. Secretary) 5. Dr. Chitra Kamath (Coordinator) 6. Mr. R. Venkataraman 7. Ms. Anushree Sukhi 8. Ms. Tejal Bowlekar 9. Dr. Druman Utekar 10. Dr. Sugandha Shetye

5.4.2 – No. of registered Alumni:

127

5.4.3 – Alumni contribution during the year (in Rupees) :

20000

5.4.4 – Meetings/activities organized by Alumni Association :

Meetings- 4th Annual General Body Meeting was held on 21.09.2019 from 3.00 pm tp 4.30 pm Activities- 1. Enriching Expressions talk titled 'Career Opportunities: Pure and Applied Sciences' by Dr. Ranjan Mogre, Director, Analytical Solutions was organised on 22.06.2019 from 10.00 am -11.00 am 2. Enriching Expressions talk titled 'Careers in Chemistry' by Mr. Satish Rao, MD, and CEO, Firmenich Aromatics India Ltd was organized on 21.12.2019 from 3.30 pm – 5.00 pm 3. Enriching Expressions talk titled 'Lasers and its applications and in Nanoscience' by Dr. Mukesh Joshi, Scientist, RRCAT, Indore was organized on 08.02.2020 4. A talk titled "Certificate courses in the food sector" was organized by the Department of Biochemistry for students of the department by Ms. Drashti Shah and Mr. Kunal Palan, Alumni, Food Safety Officers on 10.07.2019 5. Mr. Tejas Chirmade, Director, ZOE LifeSciences Laboratory Conducted two 5 day Hands-on workshop on Molecular Biology for UG and PG students respectively offering a concession of Rs. 1, 17,000/- 6. Alumni Initiative in Degree Distribution- Cash prizes awarded to the subject toppers from undergraduate and postgraduate programmes of science and commerce streams Alumni Reunion - Alumni Reunion for batches 1979-1990 was held on 21.12.2019 from 5.00 pm to 8.00 pm The alumni of all departments actively contribute to

BOS by giving their views on the current syllabus and industry requirements. The Alumni also extend help during the department fests in the form of consultancy to the current batch.

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

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

The Somaiya Vidyavihar, a conglomerate of 35 institutions, has its own Management Board and Academic Council. The Management Board and Academic Council of Somaiya Vidyavihar comprises of reputed international academicians and administrators. They meet twice a year and broad directions to the educational conglomerate are evolved during these consultations. The President, Trustees, Hon. Secretary and Provost conduct regular Meeting of Heads of Institutions. During the Heads of the Institutions meetings issues related to academic development, infrastructure development, administration and maintenance are discussed. The action taken report is also reviewed for timely completion of the points discussed. This mechanism brings uniformity of administration in various institutions of Somaiya Vidyavihar. The Principal is the academic and administrative head of the college. The Principal is assisted by the Vice-Principal, Dean Academics, Dean Research and Student and Staff welfare coordinator in various academic and administrative functions. The Principal conducts regular meetings of all Heads of the Departments. IQAC is involved in preparation of action plan for the current year and for overall quality improvement of the college. Various committees are formed at the beginning of the year and a variety of activities are conducted throughout the year for the students by these committees. Each department is managed by the Head of the department/ co-ordinator for the day-to-day administration which include teaching, learning and co-curricular and extracurricular activities. HODs conduct the meetings of the staff members/ faculties of their departments after the Principal's meeting. The administration is supervised by the Registrar. The Accounts section is headed by the Accountant. Various administrative duties are assigned to the support staff of the office. After being conferred the Autonomous status, the college has set up the Governing Body, Academic Board, Examination Committee, Finance Board, Purchase Committee and Boards of Studies for various Departments / subjects under the chairmanship of the Principal, as per the statutes for autonomous colleges of the University of Mumbai. The Management has allowed responsibility to be decentralized and the institute in turn actively involves the entire staff in different activities.

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

Yes

6.2 – Strategy Development and Deployment

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

Strategy Type	Details
Curriculum Development	Under choice based credit system, in the syllabus of second year B.Sc. additional elective courses/ modules were offered to the students. 26 certificate courses and 4 diploma courses were started. Framework was decided and implemented for incorporation of POs, PSOs, CLOs in the

	curriculum of all programs. Project based learning is also included as a part of their curriculum under STAR scheme for UG. Semester IV of PG is completely dedicated to project work where students are encouraged to take up project in reputed research institutes or internship in various industries and laboratories. Many of the undergraduate students also undertake short term research projects in the departments
Teaching and Learning	To make the syllabus more dynamic and reflective of the recent trends in the subject, a current student and an alumnus are included in the BOS. The students are encouraged to learn through online courses offered by NPTEL/SWAYAM/Courcera platforms and the extra credits are earned by the students as per the specific programme. Seminars and workshops are organized for the students to enhance their learning. Remedial coaching and bridge course are offered. Honours Program is offered to challenge the top of the pyramid students. Field visits/ Industry visits are organised to provide experiential learning.
Examination and Evaluation	Examination Reforms Following are some of the strategies introduced in the Examination system: A squad of senior teachers is appointed during the course of examinations to avoid malpractices. Orientation session is conducted by the examination committee for junior supervisors before the examination. A healthy practice of auditing Examination Processes by external members is conducted. Suggestions provided in the report guide the further course of action. The Grades of the certificate courses were printed on the even semester mark list. Post Graduation : A comprehensive rubric is provided to both the internal and external examiners for evaluation of PG Sem IV internships / Research Projects. The student presentations are monitored by observers appointed by the Examination Committee. Continuous Internal Assessment System: Many departments conducted the internal test online using software OFFEE.
Research and Development	Research and development cell is one of the strongest pillar to re-define the quality improvement of any

	institute. In this sequence our college has initiated a provision of seed money to our early stage young faculty for establishing their research. Subsequently, monetary assistance is provided to attend reputed conferences, which motivates our faculty for enhancing the research culture in our institute. These initiatives have definitely enhanced the research ethos which could easily be rationalized through increasing number of minor and major research projects funded by university of Mumbai as well as DST-SERB. Moreover, these developments also boost up the active involvement of our undergraduate and postgraduate students in research which need special mention here for their eight publications as leading contributor and 5 approved startups.
Library, ICT and Physical Infrastructure / Instrumentation	Library : The Library is fully automated using Integrated Library Management System (ILMS), namely BOOKWORM . It has introduced KIOSK , an automated system for self issue, self return and self renewal of the books. It has remote access to e-books and e-journals through the following databases namely, EBSCO discovery, NLIST, Jgate and Web of Science. Talks and Book Exhibition are organised regularly. ICT and Physical Infrastructure: ? Six ICT classrooms were enabled in the institution. ? The seminar hall was also enabled with an entire recording system for online lecturing. ? Tissue culture laboratory was added to the infrastructure of Botany department. ? Installation of CCTV surveillance system.
Human Resource Management	Following modules of HR software are used extensively : ? Online submission of leave application and access to Leave record ? Online salary slip ? Online view of earnings and deductions for the entire financial year at a glance ? Online biometric record of individual employee ? Online generation of Salary Musters ? Online generation of Form no. 16 ? HR software was updated as per latest provisions under 7th Pay commission regarding ? computation of salary and allowances ? The administrative / Laboratory / Library staff is sent / supported for training programs related to their

	domain of work.
Industry Interaction / Collaboration	**Industry interaction and collaboration plays a decisive role to inculcate the research aptitude among young minds. To strengthen this component, our college has taken robust steps which have turned out in terms of several active MoUs', international collaborations and linkages with established industries as well as premier institutes. These ladders assist our students especially PG students to carry-out their internship/ project work across the country under the guidance of elite researchers. Quantitatively, our 153 students out of 165 have done their project work at the esteemed institutes like BARC, TIFR, IIT, NIO etc. Moreover, our recent collaborations with university of St. Andrew, Cambridge University, Central University of Rajasthan, IISER Mohali acted as a pavement to work on the cutting edge science and publish research articles. These strong connections has not only aided a boost to our ongoing research activities but also offered job prospect to our bright students who worked at these centers.**
Admission of Students	**The practices initiated in the last year such as below were continued. ? Admission procedure for SY and TY students is entirely online which offers hassle free experience to the stakeholders. It also permitted online fees payment. ? Generation of the student register through admission software. ? Entire data of each student is captured at the time of admission , facilitating provision of the same for AISHE , DHE-MIS , NIRF etc.**

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

E-governace area	Details
Administration	**The practices initiated in the last year were continued with required modifications. A continuous follow up of teachers who were due for promotion was taken and they were guided right from online filling of forms on the University Portal till entire process and the interview / Scrutiny is organised at the earliest. The application for recognition of research laboratories in the subject of Physics was done online on the University portal.**

Student Admission and Support	? Payment gateways were made available for students for making payments like usage of credit card , debit card , NEFT etc. ? All the information required by the students is made easily available on the website. ? Facility of SMS alert and group communication was initiated. ? Induction Program for the students is organised based on the guidelines received from UGC wherein they were also informed about the contact information of important committees such as ICC, WDC, Grievance Redresal cell, Examination committee etc. ? A teacher mentor is appointed for every student to help him / her throughout his / her journey in the institution. ? Counsellor is available to support the students who are in need.
Planning and Development	• Online system devised and implemented for collection of data required to prepare AQAR and SSR as per NAAC template. • Website is redesigned in order to make it more versatile and user friendly. Timely submission of information for uploading on the website is done by all departments and committees. • E-content development workshop was held to equip the teachers in use of technology in teaching learning process. • Planning the Time Table and Academic Calendar and academic plans before the commencement of each semester.
Examination	Due to Pandemic, the exams of Semester II and IV were not conducted. As per University guidelines their results were to be generated. To generate these results separate module was developed and successfully the result generation of these semesters was done.
Finance and Accounts	• Accounting Software (NetSuite) is used for all financial data and Management of Accounting records • Payroll and staff management is done with HR Software Sensys software. • EAT Module PFMS software are used for Grant from UGC Other Government Expenses/ Advance transfer/Procurement

6.3 – Faculty Empowerment Strategies

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

Year	Name of Teacher	Name of conference/	Name of the	Amount of support

		workshop attended for which financial support provided	professional body for which membership fee is provided	
2020	Dr.Samidha Pawaskar	BevTech India conference 2020	Nil	3500
2020	Dr.Ketan Ranade	BevTech India conference 2020	Nil	3500
2020	Mrs.Saeema Khan	BevTech India conference 2020	Nil	3500
2020	Dr.Heena Shah	International Conference on "Natural products, Quality, Safety Efficacy"	Nil	2000
2019	Amit Jethwa	Workshop on phytochemcial analysis, UICT	Nil	3000
2020	Dr. Jacinta George	Metagenomics workshop, Jai Hind college	Nil	750
2020	Jayesh Bhagat	Metagenomics workshop, Jai Hind college	Nil	750
2019	Ms. Vaishali Pingle	Workshop on taxonomy and Mushroom Production technology	Nil	4000
2019	Leena Shewale	National workshop on Statistical Data Analysis using R-software	Nil	2000
2019	Mr. Shabib Khan	Workshop on Filing AQAR under New NAAC Process	Nil	1000
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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	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2019	NA	Workshop on Digitized	03/06/2019	03/06/2019	Nill	16

2019	Workshop entitled Quality culture development and new reforms in NAAC	NA	10/06/2019	10/06/2019	120	Nill
2019	NA	Training of Lab Attendants for online Laboratory Breakages	17/06/2019	17/06/2019	Nill	13
2019	NA	Basics of Microsoft and ESS login	01/07/2019	01/07/2019	Nill	10

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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Refresher course in commerce	1	10/02/2020	22/02/2020	14
Refresher course in Financial Mathematics	2	13/12/2019	27/12/2019	14
Refresher course in Chemistry	2	31/10/2019	13/11/2019	14
Refresher course in Chemistry	1	20/09/2019	03/10/2019	14
Refresher course in Chemical, Physical, and material science	2	14/06/2019	27/06/2019	14
Refresher course in the subject chemistry and Biochemistry	1	17/08/2019	31/08/2019	14

Refresher Course in Statistics	1	25/02/2020	09/03/2020	14
Orientation programme	1	02/12/2019	21/12/2019	20
Faculty induction program (IISER, Pune)	2	30/10/2019	23/11/2019	25
Induction programme (IISER, Pune)	3	01/05/2019	25/05/2019	25

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
Nill	Nill	Nill	Nill

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Credit society	1. Credit society 2. Books for children of nonteaching staff	Group health Insurance

6.4 – Financial Management and Resource Mobilization

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

Internal Audit is scheduled every six months for the institution. It was conducted by Borkar Mazumdar Co. in the month of October and March 2020. The External audit was taken up by V N Desai Co. in the month of March / April 2020. During the audit, vouchers, Bank reconciliation, Ledger scrutiny, Salary/Salary grant for the mentioned period, Statutory compliance like PF, PT, TDS and other compliance related to staff and vendors are verified.

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/ Grnats received in Rs.	Purpose
ABVM agrawal Jatia Kosh president/ secretary	1500	Student scholarship

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6.4.3 – Total corpus fund generated

0

6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	External Academicians	No	Nil

Administrative	Yes	External Academicians and experts	No	Nil

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

1. Annual Parent Teacher Meet for all the students. 2. Representation of parent member on the IQAC. 3. Feedback about the curriculum, Infrastructure and college administration is given by the parents

6.5.3 – Development programmes for support staff (at least three)

1) Fire safety workshop for non teaching staff 2) Basics of Microsoft and ESS login (by Geology Department) for nonteaching staff 3) Workshop on Digitized Administrative office for non teaching staff 4) Guest lecture on "Investment Planning" for non- teaching staff.

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

1) Examination Process Audit 2) Seed Money for promotion of Research amongst faculty 3) Establishment of Institution Innovation Council (IIC), a flagship program of ministry of education. 4) Establishment of Research Innovation Incubation Design Laboratory (RiiDL – startup of Somaiya Vidyavihar) chapter. 5) Implementation of Learning Outcomes based Curriculum Framework (LOCF) as per UGC guidelines.

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	Yes
c)ISO certification	Yes
d)NBA or any other quality audit	No

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	Academic Audit (AA)	08/06/2019	08/06/2019	12/06/2019	143
2019	Examination Processes Audit	04/12/2019	04/12/2019	04/12/2019	17
2019	Feedback from students and parents analyzed and used for improvements	01/08/2019	01/08/2019	01/08/2019	1898
2020	Timely submission of Annual Quality Assurance Report (AQAR 2018-2019) to NAAC	23/10/2020	23/10/2020	23/10/2020	143

2019	Regular meeting of Internal Quality Assurance Cell (IQAC)	13/07/2019	13/07/2019	13/07/2019	18
2019	Regular meeting of Internal Quality Assurance Cell (IQAC)	14/12/2019	14/12/2019	14/12/2019	17
2020	Regular meeting of Internal Quality Assurance Cell (IQAC)	20/08/2020	20/08/2020	20/08/2020	23

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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

 7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Workshop on gender sensitization conducted by the members of Bharatiya Stree Shakti (BSS) Mrs Seema Deshpande, Mrs Ranjana Karoor and Mrs Nutan Warerkar.	28/08/2019	28/08/2019	90	30
Self defense workshop for girls organized by Women development cell in association with NCC. It was conducted by Mr. Nrupul Gharat, president boxing federation of India	06/03/2020	06/03/2020	45	20

Poster competition based of theme women education, honor killing, women achievers was organized by Women development cell for UG students.	06/03/2020	06/03/2020	14	Nill
Songti- performance of a novel by Dr Vijaya Waad was presented by Dr Veena Sanekar, IC principal K J Somaiya Arts college	11/03/2020	11/03/2020	22	9

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources
We have installed solar panels of 50kW capacity. The amount of energy generated annually is 65000 to 70000 units approximately.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Provision for lift	Yes	Nill
Ramp/Rails	Yes	Nill
Braille Software/facilities	No	Nill
Rest Rooms	Yes	Nill
Special skill development for differently abled students	No	Nill
Any other similar facility	No	Nill

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	1	1	31/10/2019	1	Premarital Counselling	Valuable informati	70

						on about Premarital Health, Importance of understanding for Relationships and female anatomy	
2020	1	1	03/02/2020	1	Seminar on cancer and AIDS awareness by the Indian Cancer society	Cancer and AIDS awareness	20

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7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
Code of Conduct for teachers	22/06/2019	K. J. Somaiya College of Science and Commerce believes in values, ethics and discipline which are reflected in its Code of Conduct. This code of conduct is not just a set of rules to be followed but it is a reference document that defines our rights and duties, responsibilities, respect towards individuals and journey for excellence. Our code of conduct supports our Vision and Mission and is strictly based on the guidelines set by the UGC. K. J. Somaiya students as well as staff are obliged to follow this code at every stage while engaged in all college activities.
Code of Conduct for students	22/06/2019	We ensure that every student carries his/her official ID card at all the time while being in the institute campus. The ID cards are regularly checked at the main security check post and

the access is permitted only after the successful verification. We have a defined dress code. Students are not allowed to access the premises if found wearing an inappropriate attire that may not be suitable for the college environment., We request such students to come in a sensible attire to enter the college campus.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Haldi Kumkum ceremony	12/01/2020	12/01/2020	71
An intercollegiate fest named Sanvaad on the theme Peace and Harmony	08/02/2020	08/02/2020	250
International Yoga day celebration by NSS and cultural forum	21/06/2019	21/06/2019	226

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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

1] College Has taken many Solid waste treatment initiatives in treating the waste generated.

2] College has a very proactive cleaning staff along with regular initiatives taken on E- waste Collection drives, Plastic waste management awareness lectures, segregation.

3] The waste generated throughout the campus is collected and is converted into biocompost. Organic fertilizer produced in this manner is used for organic terrace farming.

4] KJSSC has a Phytorid effluent treatment plant installed for taking care of effluent generated from laboratories, which is treated using plants like Typha, Phragmitis and Canna Species. Plant is situated at the turning of KJSSC main building fenced by plastic mesh.

5] College conducts a regular E waste collection drive with the help of NGOs where NGOs provide for Pick up at college gates while students collect all E waste at their departments and also create awareness.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

1] International Relations and Industry Academia Collaboration: Ten MoUs are signed and two linkages established, which enabled departments to collaborate with industries and establish linkages for internships. Delegates from University of Padova presented opportunities to study in Italy to Master's

level students of biological sciences and other students. MoUs which were signed enabled to establish a constructive rapport for a time period to explore academic and research-based avenues. Students were able to explore different domains of research and enroll for research projects and internships. Especially post-graduate students from Science stream were able to enroll at different reputed research institutes for the dissertation project. Students were able to obtain hands-on experience and enhance their skills to work with different instruments. One student, Mr. Rajeshu Rayadu from Department of Microbiology completed internship at Labcare Diagnostics. Student was offered job after the degree. He was part of the Covid Kit development team. This Kit was approved by ICMR 2] Empowerment of faculty: Institute believes in consistent empowerment and holistic development of the faculties. Different workshops, induction programs are conducted to train the faculty members to learn and implement ICT-based teaching, learning and assessment methodologies. There has been a considerable increase in the number of the faculty members adopting ICT- based teaching, learning and assessment methodologies. This not only facilitates online academic transactions but also minimizes the use of paper and permits convenient data retrieval. Institute organizes a residential staff training program for newly recruited staff. The faculty development programs helped the teachers in acquiring, renewing or broadening their knowledge and practices to benefit themselves, their students, the educational institutions and education in general. This process empowers professors by creating a sense of belonging, challenge, organization and self-confidence. It was evident by the various changes in pedagogy. The knowledge gained can be clearly seen in the methods adopted for teaching. 100 of the teachers are using one or the other mode of ICT. Moreover, we are continuously trying to upgrade and one of the best practices is the regular revision in the syllabus according to the changing demands of industry. 3] The Academic and examination Audit is a faculty-driven model of ongoing self-reflection, collaboration, teamwork and peer feedback. It is based on structured conversations among faculty, stakeholders and peer reviewers all focused on a common goal. It provides opportunities for improvement during the review and thus identify initiatives for improvement. The academic audit helped the various departments to identify their specific area of weakness, which were later worked upon. The feedback of the eminent experts enabled the departments and committees to establish a constructive understanding to explore academic and research-based avenues. The evaluation helped to plan the activities for the next year. There was a remarkable leap towards achieving the goal of betterment in overall teaching and learning mechanism. The institute was benefited by the constructive remarks and observations of the Audit team. The examination audit was conducted first time and it was taken as a challenge for self-rectification. The committee found that the process followed in the conduct of the examination is very well governed and the system which has been adopted is efficient. It was a great success for the institute and instilled immense confidence in the current examination procedures. We are continuing with the existing system. 4] Felicitating the ACHIEVERS: It gives confidence to other stakeholders and this helps reduce the problems and increases healthy competition and competitive spirit among them. This practice is in sync with the idea of promoting, the GIRL CHILD in all spheres and making them a strong backbone for our system. It encourages the student to be a part of the main- stream and pursue higher education. Initially the response is poor, but after providing them a stimulus, good number of students apply, who are then scrutinized, by a team of teachers based on their achievement, involvement, writing skills, group discussion, and last but the least is testing the level of confidence during the personal interview with the head of the Institute. 5] Social Outreach: At times given the situation, it is difficult to reach the society but, attempts are made from every quarter including teachers, management and the others to join hands to make the various programs successful. An outline is usually prepared by teacher

coordinator as to how the various programs can be executed and detailed intricacies are chalked out and communicated to all. Outreach programs have cultivated the sense of sharing and rendering a helping hand to the society on different occasions. It has become easy to reach people during different problems and issues. It has created awareness among the students and society about different issues and at times training, education and responsibility is inculcated in them. 6] RiiDL chapter (Innovation and incubation centre): Recently as there has been considerable emphasis on innovation so institute continues to undertake activities under RiiDL chapter in collaboration with RiiDL at the campus level. RiiDL is Research Innovation Incubation Design Laboratory a central facility at the campus level which serves as a platform for the students to showcase their innovation and provides the assistance for start-ups. RiiDL chapter continues to serve the role as a mediator for the correspondence with the RiiDL. Different students from Commerce and Science streams, gather and exchange innovative ideas at RiiDL chapter at the institute level. 7]Projects at UG level (STAR College): Financial assistance offered under the DBT STAR scheme has a significant positive impact on the undergraduate education. Science Departments were provided with the financial assistance, which was implemented in the form of Research projects, workshops, educational visits. The intention is to inculcate scientific temperament in the mind of undergraduate students and encourage them to pursue knowledge beyond the scope of syllabus.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

https://kjssc-sr.s3.ap-south-1.amazonaws.com/IQAC/Best+practices+2019-20+(14-8)1.pdf

7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

• Institute believes in holistic development and consistent progression of the human resources with the following goals and objectives: i) To build a strong relation with the industry and open horizons for academia-industry linkages. ii) To offer flexibility in the courses offered and adapt to the global changing academic scenario. iii) To establish a centre for multidisciplinary activities. iv) To mould individuals who would nurture the cultural heritage of our country and contribute to the betterment of the society. • In an effort to inculcate scientific temperament and facilitate exposure of the learners to the scientific and commercial world on a larger scale, the postgraduate students are motivated and encouraged to successfully complete their dissertations or internships in various industries and research institutes of great repute. • Institute was also conferred the Active Learning Centre Status for NPTEL Courses. Students and faculty enrol for different MOOCs on SWAYAM portal and enhance their knowledge. • There has been immense financial assistance sanctioned under DBT- STAR scheme due to which the institute could allocate funds received to science departments and promote research at under-graduate level. • The institute strongly believes that the backbone of the institution are the teachers and non-teaching staff and there is a need to facilitate measures for faculty upgradation. Institute consistently undertake the measures for up-gradation of the basic infrastructure for the implementation of ICT-based teaching, learning and evaluation, required to progress and excel in the fields of research and development. • With an objective to enhance the social awareness of the learner's different activities such as Mega Swachhta Pakhwada, registration of stem cell/ bone marrow, democracy fortnight are conducted. • Different programs are provided on stress, disaster and time management. Students are taught the importance of yoga, meditation and introspection.

Institute hosted 52nd Intercollegiate Youth Festival, Literary and Fine arts, Mumbai Zone II Intercollegiate UDAAN festival by DLLE, Sanvaad, a NSS program, International year of Periodic table (Online international shortterm course in association with IARC, UNESCO, IYPT) National Conference by Department of Physics on Recent advances in synthesis, characterization techniques and applications of materials. • To enhance the coping-up skills of the learners in the current competitive world, continuous mentoring of learners and motivational guidance is provided at every level. The needy students are given timely help through the counsellor. • To provide the programs of high demand to its students, the Institute in this academic year 2019-20, initiated M.Sc in Mathematics and has got enrolments to the full capacity in its very first year reflecting the trust of the stakeholders in the quality of education provided by the Institute. • Under UNNAT BHARAT ABHIYAN the flagship program of Government of India, in 2018-19 it adopted five villages in the Dahanu district, Maharashtra and with the involvement of the faculty and more than about 50 students has surveyed the villages and in the coming years 2019 onwards it will undertake the implementation of projects based on sanitation and health awareness.

Provide the weblink of the institution
https://kjssc-sr.s3.ap-south-1.amazonaws.com/IQAC/Institute+Distinctiveness/Institutional+Distinctiveness+2019-2020.pdf

8.Future Plans of Actions for Next Academic Year

Criteria 1: Curricular aspects To initiate a Life Skill Certificate Course which would be of one credit. To design an easy to access LOCF booklet which would serve as a reference for a student at the time of admission. To organize an Orientation session of faculty on the topic of National Education Policy. To draft a Policy on Curriculum development. Criteria II - Teaching, Learning, and Evaluation To organize Faculty development: (Tailor-made training based on feedback analysis of 2019-2020) inclusive of use of ICT tools in teaching, learning, and evaluation. To enhance the digitization of the Library (remote access) and its implementation. To initiate Faculty Conclave sessions. These sessions would consist of training of faculties as per different quality mandates recommended by UGC. To compile an Examination and evaluation reforms policy. Criteria III - Research, Innovations, and Extension To enhance MoUs. (2 in no.) and focus on the functionality of the MOU's already signed. MoUs would enrich the collaboration with different reputed institutes and facilitate access to a larger domain of techniques and expertise. To collaborate and develop linkages (2 in no.). They facilitate the provision for the exchange of ideas and resources. To collaborate with RiiDL for innovation. It is an in-house facility in the Somaiya Vidyavihar campus to facilitate innovation and incubation for start-ups. To frame a Research policy consisting of incentives for faculties, etc. Criteria IV - Infrastructure and Learning resources To enhance the facilities to be provided for physically disabled/ students with special needs. Provisions would be created for the betterment of physically disabled/ students with special needs if any. To monitor the utilization of ICT-enabled classrooms. To compile IT administrative policy. Criteria V - Student support and progression To organize an Induction program for F.Y students and Orientation for S.Y., T.Y, and PG students. To focus on student support (Mentor-mentee) (Parents meeting with mentors). To involve students in community outreach programs. Emphasis would be on lesser programs but increased participation. To monitor the Attendance of students and share it with the mentors. To compile a Placement Policy. Criteria VI - Governance, Leadership, and Management To conduct department-wise Academic audits (2019-2020 and 2020-2021). To apply for NIRF ranking. To apply for India Today rankings. To compile and upload AQAR 2019-2020 on the NAAC portal. To promote the digitization of personal files. To initiate the next step of ISO certification and complete the process. To conduct an Administrative Audit. To compile Performance Appraisal

policy Criteria VII - Institutional Values and Best Practices To promote the digitization of Administrative office processes. To promote the digitization of Teaching-learning and evaluative processes. To conduct a Green Audit. To connect with community-related activity under Unnat Bharat Abhiyan. To facilitate earn and learn scheme for students (Ph.D. students can also be involved) To compile Environment awareness policy. Note: The above plan and its implementation will be subject to change in view of the unprecedented lockdown of educational institutes being extended.