SELF STUDY REPORT

FOR

1st CYCLE OF ACCREDITATION

SHRI VILE PARLE KELAVANI MANDAL'S DWARKADAS J. SANGHVI COLLEGE OF ENGINEERING

PLOT NO. U-15, JVPD SCHEME, BHAKTIVEDANTA SWAMI MARG, VILE PARLE (WEST), MUMBAI 400056.
400056
www.djsce.ac.in

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

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1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Shri Vile Parle Kelavani Mandal (SVKM), our parent trust with abundant experience in the field of education and social service has always been focusing on and contributing to all our efforts at the very important activity of nation building. It is with this focus that SVKM has laid the foundation stone of Dwarkadas J. Sanghvi College of Engineering, twenty five years ago. SVKM's Dwarkadas J. Sanghvi College of Engineering (DJSCE) is approved by All India Council for Technical Education (AICTE) and is affiliated to the University of Mumbai. In a span of 25 years, DJSCE has come a long way and has made its impact felt not only in the country, but also abroad. The college runs 8 undergraduate programmes, 3 post graduate programmes and 3 Ph. D courses. **All the undergraduate programs are accredited by National Board of Accreditation**.

DJSCE is one of the most sought after institutes for fresh aspiring engineering students in Mumbai. The favourable location of the institute in the heart of Mumbai along with state-of-the-art facilities and a distinguished faculty has been a nurturing ground for students of high academic capabilities. 17,825 sq. meters (1,91,866.7 sq. feet) of spacious classrooms, well-equipped laboratories & workshops, new age computer facilities and a well-stocked library provide a stimulating educational environment within the College. The College has always attracted qualified and experienced faculty members every year, with more additions in the years to come. Continuing with the commitment of providing students with better infrastructural facilities; the College has been adding new IT facilities and equipments. These continued efforts of the parent trust, the faculty and our students have propelled the college into the top echelons of Quality Engineering Colleges with an 'A' grade certificate from the Directorate of Technical Education, Maharashtra State. DJSCE is also consistently rated amongst the top 100 Engineering Colleges of our country by various ranking institutions.

Vision

To be a world class institution for education, training and research in engineering, inculcating values and skills for sustainable development of the society.

Mission

1) To provide competent faculty and an interactive learning environment along with world class infrastructure for nurturing professionalism & entrepreneurship in Engineers.

2) To foster technical competence, research aptitude and environmental awareness amongst aspiring technocrats to develop sustainable engineering solutions.

3) To provide a forum for active interaction between academia & industry, leading to continuous improvement in engineering education.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

1. Founded by a highly progressive management, having an established legacy in education, with 'State of the Art' infrastructure, at a prime location in Mumbai city.
2. Highly motivated and well qualified faculty members, ever participative in innovative teaching learning methodology for a focused outcome.
3. Strong focus on project/activity based learning.
4. Vibrant and conducive student centric environment, catering to quality students with diverse background and skills.
5. Excellent placements in a wide range of companies.
6. Highly active student chapters of professional societies, organizing numerous activities throughout the year.
7. ERP ready academic administration.
8. Soft skills and professional-ethics training for students.

Institutional Weakness

1. Limitations and lack of academic flexibility due to University bound curriculum.
2. Inadequate resources and funding from govt. and private agencies for R & D.
3. Limited R & D output and MOUs with professional world.
4. Lack of space leading to unavailability of accommodation for staff and students in the campus.
5. Inadequate interdisciplinary/multidisciplinary projects and opportunities.

Institutional Opportunity

1. Collaborating with industry for conducting, value added programs and internship training for students.
2. Pursuit of academic autonomy to address flexibility in course structure and academic schedule.
3. Development of centers of excellence for training & development, to impart professional skills.
4. Project development and learning opportunities, resulting in students imbibing strong practical learning skills.
5. Harnessing and utilising e-learning opportunities for enhanced learning and overall development of students.
6. Promoting R & D activities and initiatives, through conduction of seminars, workshops, symposiums and conferences at national and international levels.

Institutional Challenge

1. Being a self-financed institute, getting financial grant for projects from govt. and non-govt. funding agencies.
2. Exploring green initiatives, given the limited space in the campus.
3. Motivating faculty members for ensuring continuous development as part of Outcome Based Education.
4. Factoring-in project based learning and internship within the existing University of Mumbai academic scheme and syllabus.

01-10-2019 10:56:02

5. Enabling an environment that nurtures students as model citizens so as to ensure that they contribute towards societal up-liftment.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

D. J. Sanghvi College of Engineering affiliated to the University of Mumbai (UOM) has a well-planned, designed and documented system to ensure effective curriculum delivery. Many of the faculty members are appointed as conveners and members on UOM's Board of Studies (BOS). They actively participate in the seminars, workshops, orientation programs and curriculum design of various programs at UOM.

The college has a well-structured curriculum delivery plan. Each department has a strong Department Advisory Board (DAB), comprising of the Head of the department, faculty members, industry experts and alumni. These committees meet at the beginning of every academic year and provide suggestions for effective implementation of the curriculum.

The basic elements of the curriculum delivery processes are identified as, 'Preparation of Academic Calendar', 'Instructional Method', 'Laboratory/ Tutorials', 'Systematic Internal Assessment Evaluation' and 'Impact Analysis'. Each department meticulously follows this process. In addition, bright learners are encouraged for enhancing their performance further and weak learners are supported through remedial lectures and counseling sessions.

Being an affiliated institution, the college has to follow the curriculum designed and developed by the UOM. Hence, there is very little scope for the institute to deviate from it and bring in more value additions in a structured manner as part of the curriculum. In view of this, additional focus is given on curriculum enrichment through complimentary activities and additional value added courses so as to enhance the knowledge & skills of the students. Such additional activities are conceptualized based on the current trends in the industry, as well as inputs received from the faculty, industry experts and students. The main focus is on imparting practical knowledge and skills to the students. Nevertheless, the college encourages various initiatives for enlightening the students on issues like Gender equality, Environmental Sustainability, Human Values and Professional Ethics for the overall development of creative and divergent competencies.

Continuous improvement in these processes is achieved through structured feedback mechanisms. The feedback received from various sources are analyzed on a regular basis for deciding on the corrective actions for further improvement.

Teaching-learning and Evaluation

Our institute is a Gujarati Linguistic Minority institution and admissions are done as per the guidelines of

Directorate of Technical Education (DTE), Govt. of Maharashtra. After the admission process, the students are enrolled with the affiliating University of Mumbai (UoM). Institute has always been able to attract good students with very high demand for seats and all 100% admissions done. A well-defined mechanism is in place for assessing the learning levels of students and for improving their academic performance. Students are regularly oriented through various orientation programmes. Various learning platforms are created for effective implementation of the teaching learning process as per the best quality standards.

Institute endeavour to continually improve the efficiency and effectiveness in assessment of Teaching, Learning and Evaluation processes. The student centric education is deployed through experiential, participative and collaborative learning modes, catering to the learning needs of diverse set of students. Students are engaged in higher order 'thinking' through group discussions, seminars, projects, presentations, experiments, project based learning, internship and application of ICT resources. ICT enabled teaching-learning processes, including development of e-learning resources by faculty makes the learning more creative and dynamic.

To implement various academic activities and to ensure the success of students, institute has qualified, experienced and committed faculty members and staff.

Planning, dissemination, implementation and monitoring of Continuous Internal Evaluation (CIE) components are carried out with adherence to the academic calendar. Standard procedures exist for various examination related grievances.

Program Outcomes, Program Specific Outcomes and Course Outcomes are defined for all the programs and the methodology for attainment and evaluation is clearly established. Based on the attainment levels, add-on efforts are always identified for further improvements.

Research, Innovations and Extension

The institute encourages and provides for infrastructure to the students and faculty members for conducting research in various fields of interest. The departments of Computer, Mechanical and Electronics and Telecommunication Engineering offer Masters and Ph.D. programs.

Students and faculty members carry out various projects in collaboration with the industry. Research grants are received from various government and non-government agencies for projects. The management provides seed money for research projects, especially for various automobile and aviation competitions, wherein our students have excelled. In the last five years almost 350 research articles and 50 books have been published by faculty members.

The E-cell in the institute has been instrumental in giving the institute's budding entrepreneurs the exposure and guidance required to build their brand. An MoU is signed with National Entrepreneurship Network (NEN) and these interactions help mentor students for start-ups. Some of the companies that were formed out of the E-cell are Intern Theory Career Solutions, Tap Cube Studios, Think pot etc.

Lectures by industry experts are arranged in addition to the MoU the institute has with companies like TCS, among others. These help to facilitate a working and useful relationship between industry and academia. Internships are highly encouraged during summer breaks.

Through the National Service Scheme (NSS), the institute is involved in various social activities to create

awareness of issues, such as social malpractices, healthcare, gender bias, cleanliness, community living and environment sustainability. These activities inculcate empathy, leadership and organization skills in the students and provide service to society in general. Students are also encouraged to pursue extension activities like sports and community welfare through their association with various NGOs

Infrastructure and Learning Resources

DJSCE has a well-equipped infrastructure, which includes air conditioned classrooms, laboratories, library, etc. and the entire campus is Wi-Fi enabled. The college has smart classrooms/Tutorial Rooms/Seminar Halls/Conference Rooms. A **Training and Placement Cell** (TPC) functions throughout the year to address the placement and internship concerns of the students. **E-Cell,** the entrepreneurship cell established in 2015, in collaboration with the National Entrepreneurship Network (NEN), supports student entrepreneurs through online and classroom training, experiential learning, mentoring and networking.

The Innovation Centre provides several opportunities to students to take up innovative research projects for optimum utilisation of their technical. The **Counselling Centre for Higher Studies** offers guidance to the students interested in pursuing higher education. The centre organizes lectures / sessions by alumni and experts from the field of higher education to help them in securing admission to their dream institutes / universities.

Manubhai P. Sanghvi Knowledge Centre, the Library of DJSCE is facilitated with 26 computers , **reprography** & **Wifi network connection.** Library has a fully **computerized database & circulation system**. There are about **80,638** books, including e-books, **91** Printed journals & magazines (National & International) and 4 online databases. The institute facilitates the differently abled students with the facilities, such as Ramp and Elevators besides giving them extra time for writing their answer paper. **The institution has adequate facilities for sports, games (indoor and outdoor), gymnasium, yoga centre etc., and cultural activities.** The college organizes the intercollegiate festival 'Trinity' every year.

The institution frequently updates its IT facilities including Wi-Fi once in every 3 years (for computers). A separate team, with in house staff, is formed to take care of the IT related needs of the campus, such as hardware and networking, website designing, hosting, e-mail solutions and sms solutions etc.

There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, computers, classrooms etc. of the college. Routine (Cleaning) and Preventive (Carpenters, Masons, Electricians and Plumbers) maintenance is supervised by the Registrar. Feedbacks are taken daily/fortnightly/monthly by departmental maintenance coordinators supervised by the Registrar.

Student Support and Progression

DJSCE as an institute has always believed in instilling the right values, when it comes to education. The institute has always been working hard to create an atmosphere conducive for its students, so that they can flourish not just at the institute level, but at all spheres of life. Students are awarded various government and SVKM scholarships to motivate them to work hard and keep up with the institute's academic goals. Industry training, workshops and industrial visits are organized for the students to keep them updated with the current trends in their respective fields, so as to bridge the gap between academics and industry. Students aspiring for higher education are provided with career counselling. Facilities like GATE software, workshops and seminars for competitive exams like GRE/TOEFL/CAT are also available. The institute also has a committed team of

trainers to train students in soft skills and English language proficiency with a well-equipped language lab. DJSCE also arranges remedial coaching for the students to get their queries resolved during the improvement week. DJSCE has an active student council, which is responsible for organising various cultural, technical and sports events. Students are also encouraged to participate in various national and state level extracurricular events. DJSCE has student chapters of various professional bodies like ISHRAE, ISME, CSI, IEEE, ACM, PACEMAKERS, SAE, IETE, IICHE and RAS.

The institute has formed various committees like Maintenance committee, Women development cell, Anti ragging committee and grievance redressal committee for addressing student's grievances pertaining to any of the issues faced by them in the campus. The Institute also has a strong alumni association in place that helps to strengthen the relation between the alumni and the institute. This association helps to enhance the long term brand value of the institute through various collaborative means. The institute has an excellent student placement ratio. They have been placed in some of the most leading MNCs like Amazon, Morgan Stanley, JP Morgan, Browser Stack, TCS, and Infosys with lucrative pay packages. In all, a total of approximately 80 companies visit the campus every year.

Governance, Leadership and Management

DJSCE strives to remain a world class institute by its mantras of e-governance, transformational leadership and strategic management.

The symbolic organogram of DJSCE is a reflection of the decentralized administration, well charted policies, procedures and resolutions, brilliantly executed for successful outcomes.

The main wheel of DJSCE is the SAP system, which provides integrated solutions and support not only for academic services, but also for student life-cycle management, financials, operations, human capital management, procurement and asset management.

With due regards to a series of welfare benefits enjoyed by the teaching and non-teaching fraternity, the academic staff enjoys getting financial support from management for international conferences within the country and abroad, thus making them global citizens. The international exposure motivates them to organize project competitions, refresher courses and Faculty Development Programs for teachers as well as programs for students at the State level. Performance of the teachers is assessed with a demarcated appraisal system that provides statistical indices to quantify their efforts.

The affiliating body conducts surprise financial audits and oversees the books of accounts. This retains a track on the flow of funds for the projects, sanctioned by either government bodies or private investors. Our parent body SVKM, monitors the major up-scale projects across all departments and provides working capitals for technical development, showcasing and development of various products.

DJSCE quarters eight branches in the campus spiralled across 2.25 acres of land for optimal utilization of resources. With a hundred percent accreditation ratio, DJSCE is now adapting to function in an academically autonomous environment. With the efficacious implementation and attainment of the IQAC; via its effective teaching learning process and Project Based learning, aided deftly by high rankings including in the top 200 in the NIRF, the institute is thriving on the path to be an autonomous institute of international repute in the near future.

Institutional Values and Best Practices

Dwarkadas J. Sanghvi College of Engineering (DJSCE) strongly believes in imparting value-based education, wherein learners are nurtured with respect to gender equity, environmental consciousness & sustainability, inclusiveness and professional ethics. Being a co-education institute, gender equity in academic and nonacademic activities is maintained. DJSCE is committed to providing a safe and conducive academic environment to its students and employees and is extremely alert to matters, pertaining to any kind of harassment and gender insensitivity. Institute has adopted environment friendly practices, such as energy conservation, using LED lights and water saving. Institute promotes environmental consciousness through sustainable waste management practices and green initiatives. The institution provides for a natural green, pollution free and calm environment, which is very conducive for effective learning. DJSCE is sensitive to the needs of differently abled persons in the institution and has ensured the availability of various facilities for them. Institute is located in a prominent place and the connectivity is very good with Public transport, such as metro trains, local train and BEST buses. Faculty members are involved in inculcating good values and social ethics, that mould the students to become model citizens.

The institution offers a course on human values and professional ethics. The institution functions as per the professional code prescribed by statutory bodies / regulatory authorities for different professions. Institution organizes national festivals and birth / death anniversaries of the great Indian personalities. The institution maintains complete transparency in its financial, academic and administrative functions. The institution plans and organizes appropriate activities to increase the consciousness about National identities and symbol.

Activity based learning and soft skill training are the best practices followed by the college during the last 5 years, which have directly enhanced the quality of its functioning. In order to ensure that the institute progresses towards achieving its vision of being a world class institution, various aspects such as, getting the NBA accreditation of all its undergraduate programs, implementation of SAP system and establishment of remote center of IIT Bombay, are done to aid the Teaching Learning process further and this is being pursued in a sustained manner.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	SHRI VILE PARLE KELAVANI MANDAL'S DWARKADAS J. SANGHVI COLLEGE OF ENGINEERING
Address	PLOT NO. U-15, JVPD SCHEME, BHAKTIVEDANTA SWAMI MARG, VILE PARLE (WEST), MUMBAI 400056.
City	Mumbai
State	Maharashtra
Pin	400056
Website	www.djsce.ac.in

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Professor	MANALI JITENDRA GODSE	022-42335005	9920363121	-	manali.godse@djsce.ac.in
Principal	HARI VASU DEVAN	022-42335000	9821464696	-	info@djsce.ac.in

Status of the Institution	
Institution Status	Self Financing and Private

Type of Institution	
By Gender	Co-education
By Shift	Regular

01-10-2019 10:56:04

Recognized Minority institution	
If it is a recognized minroity institution	Yes Minority Certificate.pdf
If Yes, Specify minority status	
Religious	
Linguistic	Gujarathi
Any Other	

Establishment Details	
Date of establishment of the college	24-06-1994

University to which the college is affiliated/ or which governs the college (if it is a constituent college)

State	University name	Document
Maharashtra	University of Mumbai	View Document

Details of UGC recognition

Under Section	Date	View Document
2f of UGC	06-03-2019	View Document
12B of UGC	06-03-2019	View Document

Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)

Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	View Document	04-04-2018	12	

01-10-2019 10:56:05

Details of autonomy	
Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?	Yes
If yes, has the College applied for availing the autonomous status?	Yes

Recognitions	
Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	No
Is the College recognized for its performance by any other governmental agency?	Yes
If yes, name of the agency	National Institutional Ranking Framework
Date of recognition	25-04-2019

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	PLOT NO. U-15, JVPD SCHEME, BHAKTIVEDANTA SWAMI MARG, VILE PARLE (WEST), MUMBAI 400056.	Urban	2.25	22281

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BE,Department Of Chemical Engineering	48	MHTCET and HSC or equivalent	English	60	60
UG	BE,Department Of Electronics Engineering	48	MHTCET and HSC or equivalent	English	60	60
UG	BE,Department Of Production Engineering	48	MHTCET and HSC or equivalent	English	60	60
UG	BE,Department Of Biomedical Engineering	48	MHTCET and HSC or equivalent	English	30	30
UG	BE,Department Of Electronics And Telecommunication Engineering	48	MHTCET and HSC or equivalent	English	120	120
UG	BE,Department Of Information Technology	48	MHTCET and HSC or equivalent	English	60	60
UG	BE,Department Of Computer Engineering	48	MHTCET and HSC or equivalent	English	120	120
UG	BE,Department Of Mechanical Engineering	48	MHTCET and HSC or equivalent	English	120	120
PG	ME,Department Of Electronics	24	BE or BTech and GATE	English	18	3

	And Teleco mmunication Engineering					
PG	ME,Departm ent Of Computer Engineering	24	BE or BTech and GATE	English	18	7
PG	ME,Departm ent Of Mechanical Engineering	24	BE or BTech and GATE	English	18	7
Doctoral (Ph.D)	PhD or DPhi l,Department Of Electronics And Teleco mmunication Engineering	60	ME or MTech or BE or BTech	English	10	0
Doctoral (Ph.D)	PhD or DPhi l,Department Of Computer Engineering	60	ME or MTech or BE or BTech	English	10	0
Doctoral (Ph.D)	PhD or DPhi l,Department Of Mechanical Engineering	60	ME or MTech or BE or BTech	English	10	0

Position Details of Faculty & Staff in the College

Teaching Faculty												
	Professor				**Associate Professor**				**Assistant Professor**			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				15				31				114
Recruited	9	4	0	13	5	7	0	12	44	52	0	96
Yet to Recruit				2				19				18
Sanctioned by the Management/Society or Other Authorized Bodies				0				0				39
Recruited	0	0	0	0	0	0	0	0	12	13	0	25
Yet to Recruit				0				0				14

Non-Teaching Staff				
	Male	**Female**	**Others**	**Total**
Sanctioned by the UGC /University State Government				33
Recruited	20	13	0	33
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				33
Recruited	20	13	0	33
Yet to Recruit				0

01-10-2019 10:56:09

Technical Staff				
	Male	**Female**	**Others**	**Total**
Sanctioned by the UGC /University State Government				39
Recruited	29	10	0	39
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				39
Recruited	29	10	0	39
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	**Professor**			**Associate Professor**			**Assistant Professor**			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	9	4	0	2	4	0	4	8	0	31
M.Phil.	0	0	0	0	0	0	0	1	0	1
PG	0	0	0	3	3	0	38	42	0	86

01-10-2019 10:56:10

Temporary Teachers									
Highest Qualification	**Professor**			**Associate Professor**			**Assistant Professor**		
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	12	13	0	25

Part Time Teachers									
Highest Qualification	**Professor**			**Associate Professor**			**Assistant Professor**		
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0

Details of Visting/Guest Faculties				
Number of Visiting/Guest Faculty engaged with the college?	**Male**	**Female**	**Others**	**Total**
	14	13	0	27

Provide the Following Details of Students Enrolled in the College During the Current Academic Year

01-10-2019 10:56:11

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
Doctoral (Ph.D)	Male	14	0	0	0	14
	Female	16	0	0	0	16
	Others	0	0	0	0	0
UG	Male	2255	25	0	0	2280
	Female	678	13	0	0	691
	Others	0	0	0	0	0
PG	Male	18	1	0	0	19
	Female	11	3	0	0	14
	Others	0	0	0	0	0

01-10-2019 10:56:13

Provide the Following Details of Students admitted to the College During the last four Academic Years

Programme		Year 1	Year 2	Year 3	Year 4
SC	Male	1	2	1	2
	Female	0	1	1	1
	Others	0	0	0	0
ST	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
OBC	Male	5	10	8	9
	Female	2	4	3	4
	Others	0	0	0	0
General	Male	223	243	254	253
	Female	95	92	78	85
	Others	0	0	0	0
Others	Male	233	246	255	261
	Female	81	66	68	73
	Others	0	0	0	0
Total		640	664	668	688

3. Extended Profile

3.1 Program

Number of courses offered by the institution across all programs during the last five years

Response: 788

File Description	Document
Institutional Data in Prescribed Format	View Document

Number of programs offered year-wise for last five years

2017-18	2016-17	2015-16	2014-15	2013-14
14	14	14	14	14

3.2 Students

Number of students year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
2955	2914	2893	2809	2584

File Description	Document
Institutional Data in Prescribed Format	View Document

Number of seats earmarked for reserved category as per GOI/State Govt rule year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
350	350	333	333	327

File Description	Document
Institutional data in prescribed format	View Document

Number of outgoing / final year students year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
708	761	728	658	507

01-10-2019 10:56:15

File Description	Document
Institutional Data in Prescribed Format	View Document

3.3 Teachers

Number of full time teachers year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
146	160	154	159	139

File Description	Document
Institutional Data in Prescribed Format	View Document

Number of sanctioned posts year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
160	160	163	160	156

File Description	Document
Institutional data in prescribed format	View Document

3.4 Institution

Total number of classrooms and seminar halls

Response: 36

Total Expenditure excluding salary year-wise during the last five years (INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
1280	1240	1220	1100	300

Number of computers

Response: 832

01-10-2019 10:56:16

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

1.1.1 The institution ensures effective curriculum delivery through a well planned and documented process

Response:

The institution has a well-structured curriculum delivery plan. Each program has a Department Advisory Board, comprising of the Head of the department(HOD), faculty members, industry experts and alumni. This committee meets at the beginning of every academic year and provides suggestions for effective implementation of the curriculum.

A] Preparation of Academic Calendar

? Institutional academic calendar is prepared considering the University schedule, curricular/co-curricular activities and is circulated to the faculty members and students.

? Each department also prepares a departmental academic calendar including schedules of BE project presentations, expert lectures, workshops, seminars etc.

? Course allocation is done to faculty members based on their specialization, experience, expertise and willingness.

Timetable is prepared and is circulated to faculty members.

? Every faculty member prepares a teaching plan, which includes topics and tentative dates to complete the syllabus. They also prepare course files including syllabus, timetable, lesson plan, list of students, test/university question papers, answer keys, result analysis, question banks, assignments.

? Students are encouraged to choose electives based on industry expectations and their long term interest.

B] Instructional Method

? Feedback from the previous academic year is analyzed and weaknesses/strengths are discussed on one-to-one basis with HOD. This helps in improved instructional method.

? Study materials are uploaded on Blackboard (LMS) for student's access and currently on Student Portal.

? Faculty members use various tools/ methods to deliver lectures. Some of them are:

- Power point presentations
- Chalk and Board

- Case Studies
- Videos
- Group Discussion

C] Laboratory/ Tutorial

? Subject teacher upgrades their lab manual/ tutorial sheets based on feedback received from previous batches and advices given by auditors.

? *Experiments are demonstrated using power point, videos or simulation. Rubrics are designed to evaluate students.*

D] Procedures for Systematic Internal Assessment Evaluation

? The internal assessment marks (term work) are based on assignments, laboratory experiments and attendance.

? Average of two internal tests is taken for awarding final test marks.

E] Impact Analysis*: Impact Analysis of overall teaching and learning process is carried out in the following ways:*

? Analysis of course exit form filled by the learners gives an idea about the extent to which they have understood the topics. Based on this analysis, faculty members change their teaching methodology for creating a better understanding for the students.

? Result Analysis is carried out by course teacher to understand the overall performance of learners.

? Feedback of faculty members is taken twice, once after first term test and second one online at end of semester. This helps faculty members to understand whether their teaching methodology is appropriate and/or improvement/change is required.

? Identification of weak and bright learners is carried out by using following parameters:

- Academic Performance
- Communication & Presentation Skills
- Programming Skills
- Self Confidence
- Lack of Interest
- Technical Writing Skills
- Interpersonal Skills

Bright learners:

Institute encourages bright students to participate in research work and motivate them to write technical papers.

Weak learners:

Remedial lectures are conducted and additional learning materials are provided for weak learners.

File Description	Document
Link for Additional Information	View Document

1.1.2 Number of certificate/diploma program introduced during the last five years

Response: 120

1.1.2.1 **Number of certificate/diploma programs introduced year-wise during the last five years**

2017-18	2016-17	2015-16	2014-15	2013-14
20	42	23	20	15

File Description	Document
Details of the certificate/Diploma programs	View Document

1.1.3 Percentage of participation of full time teachers in various bodies of the Universities/ Autonomous Colleges/ Other Colleges, such as BoS and Academic Council during the last five years

Response: 56.07

1.1.3.1 Number of teachers participating in various bodies of the Institution, such as BoS and Academic Council year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
4	42	3	5	31

File Description	Document
Details of participation of teachers in various bodies	View Document
Any additional information	View Document

1.2 Academic Flexibility

1.2.1 Percentage of new Courses introduced out of the total number of courses across all Programs offered during last five years

01-10-2019 10:56:18

Response: 54.57

1.2.1.1 How many new courses are introduced within the last five years

Response: 430

File Description	Document
Minutes of relevant Academic Council/BOS meetings.	[View Document](#)
Details of the new courses introduced	[View Document](#)

1.2.2 Percentage of programs in which Choice Based Credit System (CBCS)/Elective course system has been implemented

Response: 100

1.2.2.1 Number of programmes in which CBCS/ Elective course system implemented.

Response: 14

File Description	Document
Name of the programs in which CBCS is implemented	[View Document](#)

1.2.3 Average percentage of students enrolled in subject related Certificate/ Diploma programs/Add-on programs as against the total number of students during the last five years

Response: 73.14

1.2.3.1 Number of students enrolled in subject related Certificate or Diploma or Add-on programs year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
2326	2286	2294	2209	1307

File Description	Document
Details of the students enrolled in Subjects related to certificate/Diploma/Add-on programs	[View Document](#)
Any additional information	[View Document](#)

01-10-2019 10:56:19

1.3 Curriculum Enrichment

1.3.1 Institution integrates cross- cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum

Response:

Institute gives importance to above mentioned cross cutting issues. Although they are covered in curriculum, Institute has provision of various activities to sensitize students towards them as described below:

Gender

Gender sensitization refers to the modification of behavior and attitude by raising the awareness about **gender equality** concerns. D. J Sanghvi College of Engineering(DJSCE) is a co-educational institute that takes utmost care in motivating and encouraging both boys and girls to participate in various academic/non-academic activities. DJSCE strongly adheres to the notion of providing safety and security to its staff/students by planning and exhibiting various gender equality programs. The institute does believe in any kind of discrimination.

 The institute has an Internal Complaints Committee(ICC) to implement the directives in general and to deal with complaints/cases of sexual harassment in the institution in relation to the college/institute. The Women Development Cell in the college also organizes the following regularly:

- International Women's Day every year
- Workshops on Self defence
- Seminars on Safety and Security
- Seminars on Health/Nutrition

Environment and Sustainability

Awareness about environmental issues, urge for conservation of natural resources and sustainable lifestyle/development are inculcated in all our students through the course of **environmental studies** in their first semester. Group discussions on topics like calculating carbon credits of the residential premises are regularly done.

Subjects like Environmental Engineering and Sustainable Manufacturing also contribute towards environment protection awareness.

Our students have an active group formed into a National Service Scheme(NSS) committee. NSS regularly conduct Nature Trails, Tree plantation and Beach Clean Drive etc, displaying their concern and zest for sustainable lifestyle.

Our institute works towards building environmentally conscious engineers, so that they practice sustainability in their profession.

Human Values and Professional Ethics in Curriculum

In order to inculcate the human values and professional ethics, *Business Communication and Ethics*

course has been introduced in the syllabus of the III year (V Semester) for all branches. The subject focuses on developing professional ethics and human values through planned group activities. Students visit various organizations and collect information about their code of conduct and business ethics along with their Corporate Social Responsibility(CSR) activities and present the information. The objective of the activity is to make the students understand the ethical needs of organizations, so that they can strive to imbibe these qualities within themselves. Students also learn other human values through interpersonal communication, team building and leadership through various group activities. Besides the curriculum, the Shri Vile Parle Kelavani Mandal (SVKM) management has taken an initiative to conduct special sessions to introduce soft skills and human values needed for students in professional career. These sessions are conducted by external experts and are spread across the course.

File Description	Document
Link for Additional Information	[View Document](#)

1.3.2 Number of value added courses imparting transferable and life skills offered during the last five years

Response: 30

1.3.2.1 Number of value-added courses imparting transferable and life skills offered during the last five years

Response: 30

File Description	Document
Details of the value-added courses imparting transferable and life skills	[View Document](#)
Any additional information	[View Document](#)

1.3.3 Percentage of students undertaking field projects / internships

Response: 6.09

1.3.3.1 Number of students undertaking field projects or internships

Response: 180

File Description	Document
Institutional data in prescribed format	[View Document](#)

1.4 Feedback System

1.4.1 Structured feedback received from 1) Students, 2)Teachers, 3)Employers, 4)Alumni and

5)Parents for design and review of syllabus-Semester wise/ year-wise
A.Any 4 of the above

B.Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

Response: A.Any 4 of the above

File Description	Document
Any additional information	View Document

1.4.2 Feedback processes of the institution may be classified as follows:
A. Feedback collected, analysed and action taken and feedback available on website

B. Feedback collected, analysed and action has been taken

C. Feedback collected and analysed

D. Feedback collected

Response: B. Feedback collected, analysed and action has been taken

File Description	Document
Any additional information	View Document

01-10-2019 10:56:20

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Average percentage of students from other States and Countries during the last five years

Response: 0.91

2.1.1.1 Number of students from other states and countries year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
36	29	23	19	22

File Description	Document
List of students (other states and countries)	[View Document](#)
Institutional data in prescribed format	[View Document](#)
Any additional information	[View Document](#)

2.1.2 Average Enrollment percentage (Average of last five years)

Response: 98.14

2.1.2.1 Number of students admitted year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
688	668	664	640	660

2.1.2.2 Number of sanctioned seats year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
693	693	674	659	664

File Description	Document
Institutional data in prescribed format	[View Document](#)
Any additional information	[View Document](#)

2.1.3 Average percentage of seats filled against seats reserved for various categories as per applicable reservation policy during the last five years

Response: 93.73

2.1.3.1 Number of actual students admitted from the reserved categories year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
334	323	312	314	304

File Description	Document
Institutional data in prescribed format	[View Document](#)
Any additional information	[View Document](#)

2.2 Catering to Student Diversity

2.2.1 The institution assesses the learning levels of the students, after admission and organises special programs for advanced learners and slow learners

Response:

Our institute is affiliated to the University of Mumbai and hence the academic calendar, course contents, teaching & examination scheme are strictly followed as prescribed by the university. On the basis of the syllabus contents, faculty members frame the course objectives and outcomes, which are approved by the Program Assessment Committee (PAC). Students are made aware of these course outcomes through classroom discussions and these outcomes are also made available on the student's portal and institute website for their reference.

Learning levels of the students are continuously assessed through a well-planned assessment system in every course. Systematic assessment and evaluation in the laboratories and tutorial sessions are carried out on the basis of rubrics. Two term tests are conducted based on the syllabus of theory examination as a part of internal assessment as prescribed by the University.

On the basis of the performance of students in the first term test and laboratory / tutorial sessions, the weak and advanced learners are identified.

Weak Learners: On the basis of the performance of students in the first term test, the students scoring less than 40% marks in any of the courses are identified. Level of interest / motivation in pursuing the program, involvement in the laboratory sessions and overall behavioural pattern of the students are also observed. Mentor faculty members assigned to the students interact with them more often to find out the cause of their deteriorating performance. Additional remedial classes and doubt solving sessions are then conducted on one to one basis by individual faculty members teaching the course, in order to improve their academic

performance. In case, if the student is facing any personal problem (psychological / anxiety / depression) then, such cases are referred to the Head of the department and the Principal. Parents of such students are then informed about their problem and they are (both students & parents) referred to the counsellor appointed by the management. We have a full time counsellor available to staff and students all the time.

Advanced Learners: Students who perform very well by scoring more than 80% marks and are actively involved in various curricular and co-curricular activities are identified as advanced learners. These students are encouraged to participate in inter-collegiate programming / project / paper presentation contests and other competitions are motivated to take up collaborative projects, research activity, industrial training, workshops and internships. They are assigned various responsibilities in organising events under student's chapters such as IEEE, SAE, CSI, ACM, ISHARE, ISME, IETE, IIChE, RAS, Pacemakers etc. there by providing a platform for interaction with the industry. They are encouraged to participate in the state level as well as at the national and international level competitions. Institute also organises such events and provides them with a platform to showcase their technical and managerial skills. Such activities contribute to the all-round development of student's personality and prepare them as professionals, ready to face the challenges in the outside world.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

2.2.2 Student - Full time teacher ratio

Response: 20.24

File Description	Document
Any additional information	[View Document](#)

2.2.3 Percentage of differently abled students (Divyangjan) on rolls

Response: 1.05

2.2.3.1 Number of differently abled students on rolls

Response: 31

File Description	Document
List of students(differently abled)	View Document
Institutional data in prescribed format	View Document
Any other document submitted by the Institution to a Government agency giving this information	View Document
Any additional information	View Document

2.3 Teaching- Learning Process

2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

Response:

*Participative Learning***:** Every department in our institute has student's chapters such as IEEE, SAE, CSI, ACM, ISHARE, ISME, IETE, IIChE, RAS, Pacemakers etc., organising various technical activities in the department. Faculty mentors of these chapters guide the students through planning, organising and execution of various academically pertinent activities. Rigid timelines of the University academic calendar limit the contents that can be covered in the class. Through the various activities organised by these chapters, advanced technologies such as Internet of Things, Artificial Intelligence, Data Science, Data analytics, Cloud Computing, Healthcare Informatics, Nanotechnology, Automotive manufacturing, Aero technology are introduced to the students. This is the perfect way to bridge the '*theory to application*' gap. Major activities such as quiz competition, technical paper presentation, poster competition, project competition, technical treasure hunt, industry visits, industry expert seminars, hands-on workshops etc. are also organised.

Experimental / Project based Learning: Student chapters along with the placement committee of the college organise competitions jointly with various companies, such as J.P Morgan, Morgan Stanley, L&T Infotech & TCS that facilitates direct recruitment by them. All the topics floated in these competitions are application oriented and if converted into a marketable product, it can be used to help our society at large. Naming a few amongst those are financial & technical solutions and solutions for vulnerability in Information security area. Few amongst these topics also have social relevance, such as softwares for Blind, Deaf, etc.

Problem solving methodology: Innovative problem solving and IT enabled assignments were introduced in the subject of Design of Mechanical Systems. Every student is assigned a different problem and are expected to solve the problem and upload the answers at an online link within the stipulated time frame. The answers entered by the students are compared with the exact answers and personalised email would be sent to each student indicating the correct solution of the said question.

More emphasis is given to project-based learning through research grants. Students at the undergraduate and post graduate level are encouraged to draft proposals for financial grant from government agencies. Entrepreneurship cell encourages and supports students in their start-ups by organising meetings, panel discussions etc., in association with the National Entrepreneurship Network (NEN). Seminars and

workshops on Patenting, Intellectual Property rights, Marketing, Project management, etc. are also organised.

As a part of the enhanced learning experiences, the institute through its learning management system (LMS) – "*Blackboard"* now "Student Portal" encourages the faculty members to upload study material, lecture notes, power point presentations, video links, etc. online. Literature from various research databases as pre-requisite background reference along with video content from learning content websites, such as MIT Open-Courseware, NPTEL and other such sources are also uploaded. These enhanced learning experiences ensure an overall development of faculty members as well as students & keeps them aware of the current trends in research & applications.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

2.3.2 Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc.

Response: 100

2.3.2.1 Number of teachers using ICT

Response: 146

File Description	Document
List of teachers (using ICT for teaching)	[View Document](#)
Any additional information	[View Document](#)
Provide link for webpage describing the " LMS/ Academic management system"	[View Document](#)

2.3.3 Ratio of students to mentor for academic and stress related issues

Response: 23.64

2.3.3.1 Number of mentors

Response: 125

File Description	Document
Any additional information	[View Document](#)

2.3.4 Innovation and creativity in teaching-learning

Response:

Our institute has designed a system of teaching learning process. Various innovative methods and creative techniques are used to ensure better understanding of the courses.

Lab at Home: Lab at your home initiative is taken by the Electronics Engg. Dept., where the Tool *Box* is distributed to the student group in sem III. The primary motive is to make tool based resources available to students to improve the project implementation, while working at home also.

Annual Project & Poster Display: Industry experts evaluate the projects for its marketability, commercial standing and true value to the industry. Project Posters, depicting functional, technical and operational aspects of the project provide an important media interface platform, giving the students an opportunity to present their work. A Quick Response (QR) code on the poster also provides a link for a short video demonstration of the project.

Industry- Academia Interaction: Industrial visits / workshops are regularly organized by the faculty members, as per their area of teaching to keep an update with current techniques as well as to instil a lifelong learning amongst students and faculty themselves. Internships (On campus projects consultation & implementation/ Off campus industry premises) are organized for students to gain a practical insight and work culture of the industry. Students present their learning to the rest of the class and share their experience in the industry. They are also encouraged to take up industry problem statements, based or funded projects to learn project management principles.

Blackboard- Learning Management System and the Student Portal: Black-board Learning Management system was used till the academic year 2017-18. Since academic year 2018-19 onwards our institute has switched over to internally developed student portal with similar features. Lesson plan, action plan, study material, lecture notes, video links, power point presentations, assignments, tutorials, etc are uploaded by the faculty members for the students to view online at home or in college.

Alumni – Interaction & Mentorship Program: Alumni mentorship program has been started from the current year for second year, third year and final year students in order to encourage interaction with the alumni network. This mentorship program aims at designing the plan of action for six months to one year for project execution.

Research & Development: Faculty members encourage student teams to carryout intense literature survey for their project, so as to update their technical knowledge in their field. Students are guided to publish technical papers for presenting them in National & international conferences, in-house journal "Techno-focus" and National & International journals of repute. Project guides along with the students prepare research proposals for on-going projects for grants to various government agencies, such as DST / Minor research grants by University of Mumbai etc.

Animations and Videos: **OBS** studio is used for screen recording videos by students to submit their assignments online using QR code techniques & these videos are then available to the juniors as well for their reference.

File Description	Document
Any additional information	

2.4 Teacher Profile and Quality

2.4.1 Average percentage of full time teachers against sanctioned posts during the last five years

Response: 94.84

File Description	Document
Year wise full time teachers and sanctioned posts for 5 years	View Document
List of the faculty members authenticated by the Head of HEI	View Document
Any additional information	View Document

2.4.2 Average percentage of full time teachers with Ph.D. during the last five years

Response: 16.25

2.4.2.1 Number of full time teachers with Ph.D. year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
32	31	20	20	20

File Description	Document
List of number of full time teachers with PhD and number of full time teachers for 5 years	View Document
Any additional information	View Document

2.4.3 Teaching experience per full time teacher in number of years

Response: 12.11

2.4.3.1 Total experience of full-time teachers

Response: 1767.6

File Description	Document
Any additional information	

2.4.4 Percentage of full time teachers who received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the last five years

Response: 15.17

2.4.4.1 Number of full time teachers receiving awards from state /national /international level from Government recognised bodies year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
4	6	8	2	3

File Description	Document
Institutional data in prescribed format	
e-copies of award letters (scanned or soft copy)	

2.4.5 Average percentage of full time teachers from other States against sanctioned posts during the last five years

Response: 14.13

2.4.5.1 Number of full time teachers from other states year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
24	24	23	23	19

File Description	Document
List of full time teachers from other state and state from which qualifying degree was obtained	
Any additional information	

2.5 Evaluation Process and Reforms

2.5.1 Reforms in Continuous Internal Evaluation(CIE) system at the institutional level

01-10-2019 10:56:26

Response:

Syllabus of undergraduate (B.E) and postgraduate (M.E.) programs are revised by the University of Mumbai every five years. In the year, 2016-17 the new Choice Based Credit Grading System (CBCGS) was implemented for the first year of B.E. and M.E. programs. As per the new revised scheme, the assessment theory courses are carried out in two stages. During the semester, Internal Assessment (IA) with 20% weightage and at the end of the semester, the End semester assessment (EA) with 80% weightage is carried out. On the basis of the syllabus contents, faculty members frame the course objectives and outcomes, which are approved by the Program Assessment Committee (PAC). Students are made aware of these course outcomes through classroom discussions and are also made available on the student's portal and institute website for their reference. The internal assessment (IA) term tests are conducted by the college on behalf of the University. Question papers for the internal assessment are set by the faculty members and are approved by the PAC. Questions are set based on different levels of Bloom's Taxonomy and include both subjective and objective types. End semester examination question papers are set by the University.

Institute has adopted outcome based system, in which continuous evaluation does play an important role. The assessment for course outcome based on various tools are carried out and the assessment is aligned with Program Outcomes (POs) & Program Specific Outcomes (PSOs), which are attained through course outcomes. University syllabus provides the break up for assessment of termwork. Various tools are used for continuous internal evaluation, such as laboratory work, quiz, class test or case studies, assignments, tutorials, seminars and presentations, etc. All the internal evaluations are systematically carried out on the basis of rubrics. Departments along with the Student's chapters in collaboration with the Industry experts organize various programs such as workshops, seminars, hands on training programs, value added programs, etc. After the successful completion of the said programs the students are awarded with certificates.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

2.5.2 Mechanism of internal assessment is transparent and robust in terms of frequency and variety

Response:

The mechanism of internal assessment is based on the rubrics centrally adhered to by all the departments in the college. To ensure transparency & robustness in terms of frequency & variety, the following procedures are followed.

The internal exam question papers, assignments questions & quiz questions are prepared with respect to the course outcome of a particular subject.

Every course has a course coordinator & domain coordinator. The course coordinator and other faculty members involved in taking a particular course hold a meeting every semester to decide upon the quality

and pattern of the question paper. The scheme and solution of every internal question paper is maintained by the course coordinator in the course file. After the commencement of course, the course coordinator has to conduct two internal tests every semester & discuss the test paper solutions in the class and students are allowed to see their papers. In addition to this, the faculty member has the discretion to hold class tests, quiz or any other such activities, such as presentations, which he/she deems fit for the class & grade it.

Procedures for Systematic Internal Assessment Evaluation:

- The internal assessment marks are based on assignments, experiments and attendance.
- Average of two internal tests is taken for awarding the final mid-term test marks.
- Minimum passing score in internal assessment is 40%, individually for tests and term work.
- These marks are sent to the exam section at the end of every semester by the respective department exam coordinator.

Assignments, Journal, Quiz & Presentations - Evaluation:

- The course coordinator designs assignment questions/problems/projects and distributes them to students. It is ensured by the course co-ordinator that there is a variation in questions & type of questions align with design objectives & outcomes of subject.
- The course coordinator follows the rubrics, which is set by the department as follows.

1. Originality of the material			
3: Self- compiled, innovative solutions	2: Moderate reproduction of work by others	1: Copied	
2. Debugging & Results			
3: Legitimate Results	2: Attempted satisfactorily	1: Unsatisfactory performan	
3. Documentation, Punctuality & Lab Ethics			
2: Very neat & Logical and on time	1: Just Satisfactory enough	0: Untidy	
4. Timely submission			

2: If submitted on-time	1: Delayed by not more than 3 days	0: Delayed by more than 3 days (medical reason, if any accordi

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

2.5.3 Mechanism to deal with examination related grievances is transparent, time-bound and efficient

Response:

Grievance redressal mechanism before exam

Each department has an examination coordinator, who is an interface between the students & the examination section. The student grievances related to hall ticket, mis-printing of names or such general inquiries are first handled at the department level. Initial verification of modules of subjects and its assignment to SAP handle are done at the department level, such that when results are announced they can directly be mapped with the students and the subjects they have chosen.

Grievance redressal mechanism during exam & Unfair means Committee

During the examination, invigilators comprise of junior supervisors, senior supervisors & the chief conductor. The junior supervisors are responsible for raising any queries to the senior supervisors after being brought to their attention by the students. The senior supervisors ensure a smooth query resolution process.

Unfair Means: The unfair means committee is constituted by the Principal and has a tenure period corresponding to the academic year. It consists of five senior professors and the protocol following the reporting of the unfair-means is:

1) The said student is allowed to continue writing the paper with the junior supervisor attesting his/her signature with the comment 'Before suspected unfair means' and 'After suspected unfair means'.

2) The candidate, Junior Supervisor (JS) and Senior Supervisor (SS) fill in a report is sealed in presence of JS, SS and Chief conductor (CC).

3) Meanwhile, the candidate is counselled for his/her actions and his/her parents/guardians are called personally to the institute for conveying to them of his/her actions and escorting him/her to their home.

During the Unfair Means Committee meetings

The sealed envelope corresponding to the candidate is opened in presence of the candidate by the committee chairman & committee members give a patient hearing to the candidate and allow him/her

explain the position, followed by an explanation by JS and SS, if desired.

It is ensured that the proceeding of the committee and its meetings as well as the decision taken are unprejudiced and within the ambit of rules and regulations as laid down by the University of Mumbai. Finally, the exam section draws a detailed consolidated report on the basis of the recommendations of the committee.

Grievance Redressal after exam

Model Solutions of IA Tests/ End Sem Exams are made available on student portal. If any grievances is raised by the student, it is resolved by the faculty and the necessary correction in marks is done immediately. After declaration of End Sem Exam results, students can apply for a photocopy of his/her answer sheets and/or revaluation within ten working days in the standard format prescribed by the University. After going through the photocopy, if there are grievances like 'total mistake' or 'question not assessed', the student fills up a grievance form. After verification, necessary corrections are done by the evaluator, who assesses that answer book. In case of revaluation applications, answer-books are first masked and then are sent for re-assessment to a new External Examiner appointed by the University of Mumbai.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

2.5.4 The institution adheres to the academic calendar for the conduct of CIE

Response:

As per the Academic Calendar of University of Mumbai, the Institution prepares its own academic calendar, which is made available on the college website at the beginning of the semester. The academic calendar is exhaustive comprising of all the activities planned to be conducted throughout the semester. Details such as commencement of the semester, Term test, various curricular, co-curricular, sports, cultural activities, term-work assessment week, improvement week at the end of the semester, commencement of oral/practical examinations, theory examinations, public holidays, etc. are marked.

Adherence to Academic Calendar

The teaching learning process is continuously evaluated and improvised process in the department of electronics. The process includes academic calendar preparation, improved instructional methods, improved laboratory experiments and impact analysis. All these processes are continuously evaluated and corrective actions are taken based on the feedbacks. The details of the teaching –learning process is as follows.

Preparation of Academic Calendar

- Academic calendar is prepared considering the University schedule, curricular and co-curricular activities.
- The department prepares a departmental academic calendar, which includes schedules of BE project display, mid-sem project reviews, display of TT-1 & TT-2 results, expert lectures, workshops, seminars and IEEE activities.
- Every subject teacher then prepares a teaching plan, which includes topics and tentative dates to complete the topic and experiment list, which contains list of practical to be performed during the semester (based on the time-table).

For effective mapping of term-work two major components are looked into by the IQAC

a) **Conduction of IA tests and assessment**: Conduction of IA test examination and evaluation process through CAP are carried out simultaneously. This assures timely completion of paper assessment and result declaration.

b) **Term work evaluation**: Its components are Lab work where evaluation is carried out weekly through lab performance and journal assessments, assignment and tutorials, as per schedule specified in the planner.

Beyond syllabus activities such as quiz or extra expert lectures & seminars are also conducted to ensure current trends are tapped into. Compliance related to the various components of CIE is monitored monthly by the departmental Academic Coordinators along with HODs during department meeting. Adherence of CIE components to the academic calendar is noted by HOD & Mentor while signing the Course Diary and also by the Experts during the Academic Review Process. All activities are closely monitored and corrective actions, if any, are taken immediately.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

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 on website and communicated to teachers and students

Response:

Our institute is affiliated to the University of Mumbai, hence the academic calendar, course contents, teaching and examination scheme are strictly followed as prescribed by the university. Program Outcomes (POs) are set, considering 12 graduate attributes that an engineer is expected to possess on completing all the courses in the given program. These are as per Washington Accord document and accepted by the National Board of Accreditation (NBA) and AICTE. These are also mentioned in the syllabus of the University of Mumbai.

On the basis of the specialisation of the field and the courses taught in the program, Program Specific outcomes (PSOs) are framed by the department. All the courses taught in the program are grouped together for framing the program specific outcomes.

Course Outcomes (COs) are the significant and essential learnings that a leaner achieves on completion of the course, which are framed on the basis of syllabus contents of the course. Syllabus prescribed by the University mentions the course objectives and course outcomes. However, COs are revised / modified in consultation with the course experts and are aligned with POs and PSOs and also in line with the vision & mission of the department and college. These are approved by the senior faculty members in the Program Assessment Committee (PAC). Students are made aware of these course outcomes through classroom discussions and are also made available on the student's portal and institute website for their reference.

Disseminating (POs), (PSOs) and (COs): The POs, PSOs and COs are disseminated through various means.

POs and PSOs are displayed on sun boards in every classroom, laboratory, faculty cubicles and Head of the department's cabin.

Department wise specific colour codes are assigned for laboratory journals / tutorial files. Institute's vision and mission are printed on the cover page of the file. Department's vision and mission, PSOs and POs are also printed overleaf. Journal index page and grade sheets are specially designed with specific table for the students to write the course outcomes. During the practical / tutorial session students, relevant COs are discussed with the students.

During the first lecture of every module, the course outcome of that particular module is discussed with the students in class.

Syllabus, POs, PSOs and COs of the specific course and CO-PO and CO-PSO mapping are uploaded by the faculty members on the Learning Management System – Blackboard now the Student portal.

Term test question papers are also mapped with the COs of the corresponding modules.

Department's vision and mission are mentioned on the sent page of the recommendation letters written by the faculty members for the students as a part of their Master's application.

Any seminar or workshops organised by the department ensures that the vision and mission are mentioned on the literature provided to the guests.

Department's vision, mission, POs, PSOs, COs are uploaded on the college website.

Institute's vision and mission are also printed on the faculty member's visiting cards.

File Description	Document
COs for all courses (exemplars from Glossary)	View Document
Any additional information	View Document
Link for Additional Information	View Document	

2.6.2 Attainment of program outcomes, program specific outcomes and course outcomes are evaluated by the institution

Response:

The course objectives & course outcomes are initially decided & agreed upon by the PAC with the Course In-Charge.

A relationship between the COs & POs as well as PSO as laid down by the NBA & NAAC guidance committee is charted for mapping the contribution of that course to the program outcome.

Mapping is justified for a particular level 1-3, based on the relevance of that course to the PO, PSO with the CO.

The modes of content delivery are assessed for mapping how the course outcomes are being catered to in the content delivery. *i.e. as shown below*.

Modes of Content Delivery:

I	Class Room Teaching	V	Self-learning online resources	ix	Industry Visit
Ii	Tutorial	Vi	Slides	x	Group Discussion
Iii	Remedial coaching	Vii	Simulations/ Demos	xi	Seminar
Iv	Lab Experiment	Viii	Expert Lecture	xii	Case Study

COs mapping with Content delivery													
Sr. No.	Course Outcomes	Mode of Delivery											
		i	ii	iii	Iv	V	vi	vii	Viii	ix	x		x
1	EXC502.1	*		*	*								
2	EXC502.2	*		*	*								
3	EXC502.3	*		*	*		*						
4	EXC502.4	*		*	*		*						

After the consensus is arrived at on the mapping, the evaluation of the mapping may be carried out by direct (mid-term tests, quiz, presentations, *etc*.) & indirect assessment instruments (course exit survey analysis) an example of which is as shown below.

01-10-2019 10:56:28

Assessment Method		Course Outcome			
		CO1	*CO2*	*CO3*	*CO4*
Test 1	U1	60 %	60 %	---	---
Test 2	U2	---	---	80%	80 %
Course exit survey	C	20 %	20 %	20 %	20 %
Quiz	Q	20%	20%	-	-

The above table shows the attainment of course outcomes through an internal assessment scheme, which is similarly followed by drafting the rubrics for course attainment through university examinations. This has been described below to show the setting up of a target & its attainment through the internal & external assessments.

Attainment Level versus Target

CO Attainment Method	Attainment Level		
	1	**2**	**3**
University Examination	*40% student scoring more than or equal to 60% marks in the final examination*	*50% student scoring more than or equal to 60% marks in the final examination*	*60% student scoring more than or equal to 60% ma... final examination*
Internal Assessment	*50% students score more than or equal to 60% marks in the internal assessment*	*60% students score more than or equal to 60% marks in the internal assessment*	*70% students score ... or equal to 60% ma... internal assessment*
Course Exit Survey	*60% weightage average in course exit analysis*	*70% weightage average in course exit analysis*	*80% weightage av... course exit analysis*

Using all the above parameters, a complete CO to PO & PSO Mapping is completed. In order to ensure that minimal gaps remain, there are a multitude of inter-departmental & intra-collegiate activities done by the student chapters & respective departments to ensure that the vision & mission of the department & the college are met with.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

2.6.3 Average pass percentage of Students

Response: 98.74

2.6.3.1 Total number of final year students who passed the examination conducted by Institution.

Response: 708

2.6.3.2 Total number of final year students who appeared for the examination conducted by the institution

Response: 717

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process

Response: 3.27

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

3.1.1 Grants for research projects sponsored by government/non government sources such as industry ,corporate houses, international bodies, endowment, chairs in the institution during the last five years (INR in Lakhs)

Response: 8.02

3.1.1.1 Total Grants for research projects sponsored by the non-government sources such as industry, corporate houses, international bodies, endowments, Chairs in the institution year-wise during the last five years(INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
1.95	4.42	1.4	0	0.25

File Description	Document
List of project and grant details	[View Document]
e-copies of the grant award letters for research projects sponsored by non-government	[View Document]

3.1.2 Percentage of teachers recognised as research guides at present

Response: 4.79

3.1.2.1 Number of teachers recognised as research guides

Response: 7

File Description	Document
Any additional information	[View Document]

3.1.3 Number of research projects per teacher funded, by government and non-government agencies, during the last five year

Response: 1.11

3.1.3.1 Number of research projects funded by government and non-government agencies during the last five years

Response: 31

3.1.3.2 Number of full time teachers worked in the institution during the last 5 years

01-10-2019 10:56:29

Response: 140

File Description	Document
Supporting document from Funding Agency	[View Document](#)
Any additional information	[View Document](#)
Funding agency website URL	[View Document](#)

3.2 Innovation Ecosystem

3.2.1 Institution has created an ecosystem for innovations including incubation centre and other initiatives for creation and transfer of knowledge

Response:

A successful innovation centric ecosystem is set up that consists of Ph.D. Research Centers, Entrepreneurship Cell and Incubation cell.

1. The Research and Development (R&D) committee has been instrumental in setting up an innovative ecosystem comprising of 7 Ph.D. recognized research guides, 37 doctorate faculty and 29 faculty members pursuing Ph.D. programs.
2. University of Mumbai approved Ph.D. programs in the branches of Computer, Mechanical and Electronics & Telecommunication Engineering.
3. Entrepreneurship Cell and Incubation cell ensure that young minds are ignited with a passion for startups and incubation projects.

Support Systems:

- R&D initiative is backed by activities that conduct technical workshops, seminars, industrial visits, Training programs, National and International Conferences, Book Reviews/Paper Reviews, Technical presentations by faculty members. It also provides mechanism for submission of minor and major research proposals for funding by Institute/University and other funding agencies like Biotechnology Industry Research Assistance Council and Indian Nanoelectronics Users' Program, IIT Bombay.
- Finance: During the year 2017-18, Rs. 27,05,000/- was awarded to various faculty members from University of Mumbai, SVKM and others to successfully carry out 12 research projects.
- Intellectual Property Rights (IPR) cell: SVKM's NMIMS- Institute of Intellectual Property Right Studies (IIPS), a world renowned establishment, is a sister organization of DJSCE. The institutes share a symbiotic relationship and also works closely under the common Entrepreneurship Cell platform.
- Patents: DJSCE Faculty Dr. Vaibhavi Sonetha received "AN INTRADUCTAL PATENT DUCTUS ARTERIOSUS OCCLUSION DEVICE AND METHOD FOR MAKING THE SAME" in association with IIT Bombay.
- Projects: Under various student chapters, DJSCE makes its presence in various automobile making competitions, for which motored vehicles are made from scratch and presented, e.g. All-terrain vehicle, Formula One racing car, Karting Vehicle, Solar Powered car, Formula one Electric Car,

manual powered Quadracycle, remote controlled Drone and remote controlled Plane, all of which have earned accolades nationally and internationally.

- TEDxDJSCE: With the theme, 'Growing Out', an independent TedX talk was conducted with topics related to the amalgamation of religion and technology, art and writing, autism and economics with consumerism to help students understand and navigate the world around them.
- Participation in "Transform Maharashtra": Team 'Morphsis' from DJSCE presented a project with the theme 'Bridging the Digital Divide' at the 'Transform Maharashtra' state level competition in which they won Rs. 1,00,000/- and were felicitated by industrialist Mr. Ratan Tata, Chief Minister of Maharashtra Mr. Devendra Fadnavis and Actor Mr. Akshay Kumar.
- Entrepreneurship Cell (E-cell): E-cell DJSCE has a MoU with National Entrepreneurship Network (NEN), an initiative of Wadhwani Foundation to deliver support for student entrepreneurs through online and classroom training, experiential learning, mentoring and networking. Institute has a 24x7 tinker lab, wherein students have unlimited access to a laboratory with resources at their disposal. A few of the famous entrepreneurships emerging out of DJSCE in the last few years have been Thinkpot, BIOSURGE Healthcare India PVT. LTD., TAP CUBE STUDIOS, Picostone and Intern Theory Career Solutions.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

3.2.2 Number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the last five years

Response: 85

3.2.2.1 Number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
23	23	17	18	4

File Description	Document
Report of the event	View Document
List of workshops/seminars during the last 5 years	View Document

3.3 Research Publications and Awards

3.3.1 The institution has a stated Code of Ethics to check malpractices and plagiarism in Research

Response: Yes

File Description	Document
Institutional data in prescribed format	

3.3.2 The institution provides incentives to teachers who receive state, national and international recognition/awards

Response: Yes

File Description	Document
e- copies of the letters of awards	
Any additional information	

3.3.3 Number of Ph.D.s awarded per teacher during the last five years

Response: 0.71

3.3.3.1 How many Ph.Ds awarded within last five years

Response: 5

3.3.3.2 Number of teachers recognized as guides during the last five years

Response: 7

File Description	Document
URL to the research page on HEI web site	
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc	
Any additional information	

3.3.4 Number of research papers per teacher in the Journals notified on UGC website during the last five years

Response: 2.27

3.3.4.1 Number of research papers in the Journals notified on UGC website during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
25	40	109	111	59

01-10-2019 10:56:32

File Description	Document
List of research papers by title, author, department, name and year of publication	View Document
Any additional information	View Document

3.3.5 Number of books and chapters in edited volumes/books published and papers in national/international conference proceedings per teacher during the last five years

Response: 2.12

3.3.5.1 Total number of books and chapters in edited volumes / books published, and papers in national/international conference-proceedings year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
75	55	90	58	44

File Description	Document
List books and chapters in edited volumes / books published	View Document

3.4 Extension Activities

3.4.1 Extension activities in the neighbourhood community in terms of impact and sensitising students to social issues and holistic development during the last five years

Response:

In its quest to constantly serve the society and community at large, the National Service Scheme (NSS) chapter of Dwarkadas J. Sanghvi College of Engineering was set up with the motto "Education and Service to the community and by the community". The program aims to inculcate social awareness in students and to provide service without bias.

The issues our students work towards are:

- Identifying the needs of the community and using innovative technology to solve its problems.

- Making a safe environment for all by promoting gender equality.

- Setting up various Health and environment sustainability initiatives for a better tomorrow.

A few of the activities taken up by our students, faculty and staff are as follows:

Sanitation:

- "Waste to Compost" drive conducted

- Juhu and Dahanu beach Clean-up

- Newspaper Collection Drive

- Wall paintings on "Swacch Bharat" in various locations.

Environment:

- Tree Plantation (121 Trees) in Aarey Colony, a suburb in Mumbai

- Walkathon on awareness of fresh green farm products

- Anti-Plastic drive (Making and distribution of cloth bags).

- Water Conservation theory and fundamentals through Seminars.

Cultural:

- Painting and beautification of Andheri, the nearest railway station.

- Award Winning Street plays on gender equality and the girl child.

Education:

- Leadership Seminar

- Gender Sensitization Seminar

- Drug Abuse Seminar

- Fire safety drill

- Project Parichay (Adopted School in Charkop), which involves classes on personality development, self-confidence, posture, motivational stories, ice-breaking, SWOT analysis and debate sessions. It also includes Sports days and Treasure Hunts.

Awareness:

- Publicity of government schemes for the general public, especially farmers and students in villages are done through the state government application "Mahiti Doot".

- Road Safety Awareness seminar conducted in association with Mumbai Police.

Health:

- Medical Camp set up with the help of doctors from Cooper hospital in adopted villages to check height, weight, BMI, blood pressure and give general health recommendations and basic medication like calcium and vitamin tablets, which are not readily available.

- DJSCE has repeatedly beaten its own record for the maximum blood donated by any institute in the Blood Donation Camp of the NSS chapter under University of Mumbai.

- Women's menstrual health was promoted with the awareness of reusable sanitary napkins.

- In a first, Stem cell donation was conducted on a large scale to help register donors for potential cancer treatment in the future.

Technology:

- A pulley was designed, constructed and installed at a well in the adopted village.

- Solar panels were donated and installed in the adopted village school.

Due to the above mentioned activities and many more, students of the NSS unit:

- Acquire Leadership qualities and develop a democratic attitude.

- Gain skills in mobilizing community participation.

- Develop competence required for group-living and sharing of responsibilities.

- Handle emergencies better and learn to think on their feet.

- Are more empathetic to their fellow humans by developing a sense of civic and social responsibility.

* Practice national integration and social harmony.

File Description	Document
Link for Additional Information	[View Document]()

3.4.2 Number of awards and recognition received for extension activities from Government /recognised bodies during the last five years

Response: 92

3.4.2.1 Total number of awards and recognition received for extension activities from Government /recognised bodies year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
36	45	0	11	0

File Description	Document
Number of awards for extension activities in last 5 years	[View Document]()
e-copy of the award letters	[View Document]()

3.4.3 Number of extension and outreach Programs conducted in collaboration with Industry, Community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., during the last five years

Response: 95

3.4.3.1 Number of extension and outreach Programs conducted in collaboration with Industry, Community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
27	23	15	16	14

File Description	Document
Reports of the event organized	View Document
Number of extension and outreach programs conducted with industry,community etc for the last five years	View Document

3.4.4 Average percentage of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the last five years

Response: 29.38

3.4.4.1 Total number of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
1112	1005	815	941	339

File Description	Document
Report of the event	View Document
Average percentage of students participating in extension activities with Govt or NGO etc	View Document

3.5 Collaboration

3.5.1 Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc during the last five years

Response: 508

3.5.1.1 Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
109	144	165	70	20

01-10-2019 10:56:34

File Description	Document
Number of Collaborative activities for research, faculty etc	View Document
Copies of collaboration	View Document

3.5.2 Number of functional MoUs with institutions of National/ International importance, Other Institutions, Industries, Corporate houses etc., during the last five years (only functional MoUs with ongoing activities to be considered)

Response: 13

3.5.2.1 Number of functional MoUs with institutions of national, international importance, other universities, industries, corporate houses etc. year-wise during the last five years (only functional MoUs with ongoing activities to be considered)

2017-18	2016-17	2015-16	2014-15	2013-14
4	6	3	0	0

File Description	Document
e-copies of the MoUs with institution/ industry/ corporate house	View Document
Details of functional MoUs with institutions of national, international importance,other universities etc during the last five years	View Document

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Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1 The institution has adequate facilities for teaching- learning. viz., classrooms, laboratories, computing equipment, etc.

Response:

The institution is endowed with sufficient physical infrastructure. DJSCE has modern and well equipped air conditioned classrooms, laboratories, Library, etc. The entire campus is Wi-Fi enabled with sufficient bandwidth.

Classrooms, Seminar Halls, Conference Room

Each classroom is equipped with Smart board, LCD and Desktop with internet facility. Overall, the college has 52 classrooms/Tutorial Rooms/Seminar Halls/Conference Rooms. The Conference Room and Seminar Halls are used to conduct the special sessions like seminars, workshops, symposiums, etc.

Laboratories

Institute has 82 spacious and dedicated laboratories for all the 8 UG, 3 PG programmes and Ph. D. programmes. Each laboratory is equipped with adequate number of latest desktops. Latest equipments like Spectrum Analyzers, Logic Analyzer & Vector Network Analyzers and CNC Machines etc. are available for the conduct of regular practical sessions. The licensed application softwares, namely, Rational Rose, Autocad, Matlab, Ansys, Pro-E, HTRI, Oracle, Micriwind, Xylinx etc. are installed in laboratories as per the requirement of the course. Adequate light system is installed in labs to keep them well illuminated. Models and charts are put up for respective subjects in respective labs for support information. Lab manuals are also provided during practicals.

Computing Equipments

Adequate computing facility is provided in all the laboratories. Details are as follows.

- Physical and Virtual, VMware Enterprise 6 servers and Backup Devices at our Data Center.
- 811 Desktop Computers & 16 Laptops in working condition with internet facility.
- Cisco AIR-AP38021-D-K9 Access Points are installed in entire campus to make it Wi-Fi enabled.
- Enough IT security measures are taken at the Data Center through Access Management System (AMS), Intrusion Detection System (IDS), Access Control System (ACS) and Internet Provider Security (IPS). A Fortinet Firewall is also deployed at the Data Center wherein Group based access are created for various types of users such as Faculty, Students, Staff & Management.
- Around 25 licensed software (system & application) are available.
- HP Managed Print Service, a web-based centralized printing service is available that allows users to print any document from any place within the campus.
- An indigenous Learning Management System (LMS) named as 'Student Portal' provides a platform for Students & Faculty to discuss and involve in knowledge sharing after classroom sessions. Course Teacher uploads course material of respective course on student Portal, which students can access any time.

- Online MOOC courses through NPTEL are made available to students.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

4.1.2 The institution has adequate facilities for sports, games (indoor, outdoor),gymnasium, yoga centre etc., and cultural activities

Response:

The institute has adequate facility for sports, games, gymnasium and cultural activities. The college organizes the intercollegiate festival 'Trinity' every year. Trinity is an amalgamation of Cultural, Technical and Sports festivals. It acts as a perfect platform for students to participate in an array of events and competitions and win appreciation for their talents. Beyond "Trinity", Student Council of the college organizes Farewell Party, Fresher's Party, Teachers Day, SPIC-MACAY programmes, etc. for the students of the college at various venues booked well in advance. In addition, DJSCE also organizes events, wherein fashion show and choreographed dances, etc. are held, where professionals are hired to train the students for the same.

Gymkhana is available for the students for the Indoor games. For the outdoor games, grounds are hired on a continuous basis. A modern gymnasium, equipped with equipments and trainers, is also available for the students. During the free time of gymnasium, it is used for carrying out yoga activities.

File Description	Document
Link for Additional Information	[View Document](#)

4.1.3 Percentage of classrooms and seminar halls with ICT - enabled facilities such as smart class, LMS, etc

Response: 100

4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 36

File Description	Document
Number of classrooms and seminar halls with ICT enabled facilities	[View Document](#)
Link for additional information which is optional	[View Document](#)

4.1.4 Average percentage of budget allocation, excluding salary for infrastructure augmentation during the last five years.

Response: 39.55

4.1.4.1 Budget allocation for infrastructure augmentation, excluding salary year-wise during the last five years (INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
400	390	565	426	150

File Description	Document
Details of budget allocation, excluding salary during the last five years	[View Document](#)
Audited utilization statements	[View Document](#)

4.2 Library as a Learning Resource

4.2.1 Library is automated using Integrated Library Management System (ILMS)

Response:

Library is automated using Integrated Library Management System (ILMS)

The Library of Dwarkadas J. Sanghvi College of Engineering is named officially as "Manubhai P. Sanghvi Knowledge Centre". This fully air-conditioned and well-furnished Library is situated on the first floor of the college building. The total library area is of more than 7500 sq. ft. with seating capacity for 200 users. It is facilitated with reprography & also a 24 hours Wi-Fi network connection. Library has a well-equipped Seminar Hall with Webinar and conferencing facility. Library is open for more than 10 hrs. (8.15 am. to 6.30 pm.) on all working days and 12 hours during exams. With the use of various tools, the library has transformed, from a traditional library with manual transactions to an Electronic library and now is moving into being a Digital Library.

The library automation was initiated in the year 2000 with the in-house Library management software. Afterwards, LIBSYS Integrated Library   Management   System was formed in the year 2010 due to its excellent features e.g. high level of certainty, high quality, better efficiency, and responsiveness. Presently, the library uses KOHA Integrated Library Management System with 16.11.05.000 version.

The fully computerized Library is a treasure house of knowledge comprising an ever growing collection of about 80,638 books including e-books with 4 databases containing 754 e-journals of worldwide reputed publishers, covering all aspects of Mechanical, Production, Chemical, Electronics, Electronics and

Telecommunications, Information Technology, Computer & Biomedical Engineering. The periodical section is a vital source for academic research and up-to-date information. Library holds 91 printed journals (national & international). Besides this, the library has a collection of bound volumes of journals, audio visual material, newspapers, Black books of dissertations, project CD's, etc.

The web based access of the e-journals to all students and faculty is an important facility provided by the library. Library users can access a variety of full text journals covering variety of titles published by worldwide journals publishers. Library has subscribed 4 e-journal packages this year for the students and faculty members. The entire Library collections of all SVKM & other institutions of SVKM including books, journals, etc. can be searched through the Online Public Access Catalogue (OPAC). Users can access the OPAC to find out the real-time availability of all library materials from their own computer terminals as well as from home. Access of all question papers is given to the students through Students Portal (LMS).

Newly created Digital Library with DSPACE open source software is an important resource for all the students and faculty members of the college as it is a service model for open access and digital archiving for perennial access. Moreover, it provides a platform to frame an Institutional Repository. Library has an Institutional membership of ASM International, USA, where the user community can use the resources available with a host of other institutions. Also,   we are the member of National Digital Library and e-shodhsindhu.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

4.2.2 Collection of rare books, manuscripts, special reports or any other knowledge resources for library enrichment

Response:

Collection of Rare books, manuscripts, special reports or any other knowledge resources for library enrichment.

Rare Books - Along with the print collection of different costly reference books in the library, it has many rare books collection like ISI standards, Encyclopaedias and Handbooks and are available for staff and students reference throughout.

Other knowledge resources for library enrichment -

EZPROXY software for Remote access to all databases – All the subscribed database as well as database provided by the management are available on web through the EZPROXY software. Students can access or download the articles from the available databases, anytime or from anywhere with using their login credentials.

Web access for Engineering Databases:

1	IEL Growth Plan	5	J-Gate (JET)
2	Springer	6	NPTEL (Video Lectures)
3	McGraw Hill Access Engineering	7	GATE & APTITUDE Test Software
4	ASME	8	DSPACE

Web access for other Databases:

1	Proquest Central	8	CRISIL Research	15	TVADI
2	JSTOR	9	Frost & Sullivan	16	LEXISN
3	Science Direct (Pharmaceutical)	10	Passport: Euro monitor	17	MANUI
4	Economics & Political Weekly	11	Economic Outlook	18	HEINOI
5	J-Gate (management)	12	Capitaline	19	WESTL
6	ISI Emerging Market	13	Indiastat		
7	ASCE	14	WARK		

Web Access for E-Books:

1	E- Brary	1,46000 E-books
2	Pearson	362 E-books
3	McGraw Hill Access Engineering	230 E-books

Web OPAC (Online Public Access Catalogue) – Union Catalogue of all the libraries of SVKM's institutions is available for students and this access is also given through the EZPROXY software.

Students Portal - This is a Learning Management System (LMS) that provides a learning system for course delivery and management for institutions; a community and portal system for communication; a content management system for centralized control over course content; and a system to record and analyse student assessment results. Once, the students get enrolled on the Library on Students Portal, they can access the library related notices and question papers as and when needed.

Question Papers – Question Papers in various programs since the year 2009 are available on student's portal.

Institution Membership: 1. ASM International, USA, 2. National Digital Library, 3. E-Shodhsindhu

Inter Library Loan facility – Inter-Library loan facility is available for students. Books which are not available in our library can be obtained from other SVKM's / NMIMS institutions, by placing a request through Inter library Loan services. There is no charge for books obtained through this facility.

TURNITIN software for Plagiarism check - Turnitin is an Internet-based plagiarism-prevention commercial service created by iParadigms, LLC and first launched in 1997. It checks the documents for its unoriginal content. The results can be used to identify similarities with existing sources or can be used in

formative assessment to help the students and faculty members learn as to how to avoid plagiarism and improve their writing of research articles.

24 Hours WI-Fi – The institute provides for 24 hours Wi-Fi facility to the students. It is useful for the students for their self-study. They can access the required information through internet.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

4.2.3 Does the institution have the following:

1. e-journals
2. e-ShodhSindhu
3. Shodhganga Membership
4. e-books
5. Databases

A. Any 4 of the above

B. Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

Response: A. Any 4 of the above

File Description	Document
Details of subscriptions like e-journals,e-ShodhSindhu,Shodhganga Membership etc	[View Document](#)
Any additional information	[View Document](#)

4.2.4 Average annual expenditure for purchase of books and journals during the last five years (INR in Lakhs)

Response: 8.16

4.2.4.1 Annual expenditure for purchase of books and journals year-wise during the last five years (INR in Lakhs)

01-10-2019 10:56:37

2017-18	2016-17	2015-16	2014-15	2013-14
5.85286	10.20245	8.68255	9.65683	6.38955

File Description	Document
Details of annual expenditure for purchase of books and journals during the last five years	View Document
Audited statements of accounts	View Document
Any additional information	View Document

4.2.5 Availability of remote access to e-resources of the library

Response: Yes

File Description	Document
Any additional information	View Document

4.2.6 Percentage per day usage of library by teachers and students

Response: 5.35

4.2.6.1 Average number of teachers and students using library per day over last one year

Response: 166

File Description	Document
Any additional information	View Document

4.3 IT Infrastructure

4.3.1 Institution frequently updates its IT facilities including Wi-Fi

Response:

In today's world, it is highly difficult for any organization to keep itself away from technology and for an educational institute, it is highly impossible. Technology is changing rapidly and to keep the pace with this change, at DJSCE, IT infrastructure facilities are updated regularly to meet the requirements of all the stakeholders. SVKM, our management has a policy to update or upgrade the IT facilities once in every 3 years (for computers). DJSCE has well developed and adequate IT facilities, which includes smart boards, computers, printers & scanners, firewall, system and application software and high speed internet facility.

All computers are in LAN with internet facility. In addition to this, the entire campus is Wi-fi enabled. To

access the internet through Wi-Fi, the login id and password are provided to faculty members, staff and students. Security concerns are addressed pertaining to Information, Network & Risk through Access Management System (AMS), Intrusion Detection System (IDS), Access Control System (ACS) and Internet Provider Security (IPS). Fortinet Firewall is also deployed at data center, wherein Group based access are created. Forti Analyser is used by IT team to monitor the web traffic.

The Computer laboratories are well equipped with latest desktops, which are installed with various application softwares addressing the needs of curriculum. These computer laboratories are available to all the staffs and students.

A separate team with inhouse staff is formed to take care of the IT related needs of the campus, such as hardware and networking, website designing and hosting, e-mail solutions and sms solutions etc.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

4.3.2 Student - Computer ratio

Response: 3.55

4.3.3 Available bandwidth of internet connection in the Institution (Lease line)
>=50 MBPS

35-50 MBPS

20-35 MBPS

5-20 MBPS

Response: >=50 MBPS

File Description	Document
Any additional information	View Document

4.3.4 Facilities for e-content development such as Media Centre, Recording facility, Lecture Capturing System (LCS)

Response: Yes

File Description	Document
Facilities for e-content development such as Media Centre, Recording facility,LCS	View Document
Link to photographs	View Document

4.4 Maintenance of Campus Infrastructure

4.4.1 Average Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, as a percentage during the last five years

Response: 52.07

4.4.1.1 Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component year-wise during the last five years (INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
870.94	869.89	435	584.61	100

File Description	Document
Details about assigned budget and expenditure on physical facilities and academic facilities	View Document
Audited statements of accounts.	View Document

4.4.2 There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.

Response:

Adequate physical infrastructure and support facilities are available to support the academic activities in the institute. To ensure the optimum utilization of all resources and their regular maintenance, different committees are formed, which follow the established processes to keep all resources in good condition. Feedback on working of various facilities available are taken Daily/Fortnight/monthly by departmental maintenance coordinators and they analyse these feedbacks and prepares a periodical report. These reports are then submitted to Registrar and a copy to concerned Head of the Department (HoD). Registrar analyses the report and instructs the maintenance team for necessary actions. The college team in consultation and coordination with SVKM maintenance team takes necessary steps towards procurement/repair to resolve the issue.

Utilization of classroom and laboratories

Physical facilities like Laboratories, Classrooms, Library, Gymnasium etc. are made available for all the

students of DJSCE. Utilization of the classrooms and laboratories is facilitated to the students and especially computer laboratories are also made available to the other governmental / non-governmental organizations for conducting the exams in the summer/ Winter Vacations / Leave time, as may be.

Maintenance laboratory, library, computers, classrooms

1. Routine Maintenance:

Cleaning, Dusting, Sweeping and Mopping of all areas is undertaken daily by the contractual Housekeeping staff and is supervised by the Registrar of the college. Regular cleaning charts and progressive maintenance records are maintained.

2. Preventive Maintenance:

The institute's parent body i.e. SVKM has an Estate/Maintenance office and designated staff (Carpenters, Masons, Electricians and Plumbers) to oversee the maintenance/ minor repairs of buildings, class-rooms & laboratories, library etc.

Computers

Preventive maintenance work is undertaken once every week by lab assistants and issues are reported to IT helpdesk in case of serious issues. A Manage Engine tool, through which the faculty and staff can log a complaint is viewed by the helpdesk. These complaints are resolved as per the Service Level Agreement (SLA) defined by the IT head. As soon as the call has been attended and resolved, a report is generated, which gives details like number of calls attended and resolved within given SLA. If the problem is not resolved, it is then escalated to the next level, which is then dealt within a stipulated period of time. A separate budget is allocated for the same.

Laboratory Instruments

Preventive maintenance work is undertaken once every week by lab assistant. If any problem is in instrument, lab assistant tries to resolve a problem. If lab assistant fails to resolve a problem, then the instruments are sent to the vendor for servicing or replacement. Lab Assistants maintains lab records / catalogues / lab manuals / students work. Lab assistants also perform updating and maintenance of dead Stock. They interact with vendors and maintenance dept. for periodical servicing of AC, Water Cooler or any other equipments and repairs as and when required

Library

The working hours of the library is from 8.15 a.m to 6.30 p.m on all working days. During the examination period, the library remains open for 12 Hours. Maintenance activities is made by the college management periodically to keep the library clean. Activities like fumigation, reservation of books from insects, dusting and shelving of reading materials are promptly done on regular basis by the housekeeping /Library Staff.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1 Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years

Response: 7.39

5.1.1.1 Number of students benefited by scholarships and freeships provided by the Government year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
311	272	228	110	137

File Description	Document
Upload self attested letter with the list of students sanctioned scholarships	[View Document](#)
Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years	[View Document](#)

5.1.2 Average percentage of students benefited by scholarships, freeships, etc. provided by the institution besides government schemes during the last five years

Response: 0.04

5.1.2.1 Total number of students benefited by scholarships, freeships, etc provided by the institution besides government schemes year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
2	2	2	0	0

File Description	Document
Any additional information	[View Document](#)

5.1.3 Number of capability enhancement and development schemes –

1. For competitive examinations
2. Career counselling

3. **Soft skill development**
4. **Remedial coaching**
5. **Language lab**
6. **Bridge courses**
7. **Yoga and meditation**
8. **Personal Counselling**

A. 7 or more of the above

B. Any 6 of the above

C. Any 5 of the above

D. Any 4 of the above

Response: A. 7 or more of the above

File Description	Document
Details of capability enhancement and development schemes	View Document
Any additional information	View Document

5.1.4 Average percentage of student benefited by guidance for competitive examinations and career counselling offered by the institution during the last five years

Response: 7.02

5.1.4.1 Number of students benefited by guidance for competitive examinations and career counselling offered by the institution year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
207	201	251	199	140

File Description	Document
Number of students benefited by guidance for competitive examinations and career counselling during the last five years	View Document
Any additional information	View Document

5.1.5 Average percentage of students benefited by Vocational Education and Training (VET) during the last five years

Response: 34.4

5.1.5.1 Number of students attending VET year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
1517	1290	1230	739	196

File Description	Document
Details of the students benifitted by VET	View Document
Any additional information	View Document

5.1.6 The institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases

Response: Yes

File Description	Document
Details of student grievances including sexual harassment and ragging cases	View Document
Any additional information	View Document

5.2 Student Progression

5.2.1 Average percentage of placement of outgoing students during the last five years

Response: 42.38

5.2.1.1 Number of outgoing students placed year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
358	375	358	332	63

File Description	Document
Self attested list of students placed	View Document
Details of student placement during the last five years	View Document

5.2.2 Percentage of student progression to higher education (previous graduating batch)

Response: 29.24

5.2.2.1 Number of outgoing students progressing to higher education

Response: 207

File Description	Document
Upload supporting data for student/alumni	View Document
Details of student progression to higher education	View Document

5.2.3 Average percentage of students qualifying in State/ National/ International level examinations during the last five years (eg: NET/ SLET/ GATE/ GMAT/ CAT/ GRE/ TOEFL/ Civil Services/State government examinations)

Response: 100

5.2.3.1 Number of students qualifying in state/ national/ international level examinations (eg: NET/ SLET/ GATE/ GMAT/ CAT/ GRE/ TOEFL/ Civil services/ State government examinations) year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
211	210	287	248	203

5.2.3.2 Number of students who have appeared for the exams year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
211	210	287	248	203

File Description	Document
Upload supporting data for the same	View Document
Number of students qualifying in state/ national/ international level examinations during the last five years	View Document

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) during the last five years.

Response: 64

5.3.1.1 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-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
19	14	22	9	0

File Description	Document
Number of awards/medals for outstanding performance in sports/cultural activities at national/international level during the last five years	[View Document](#)
e-copies of award letters and certificates	[View Document](#)

5.3.2 Presence of an active Student Council & representation of students on academic & administrative bodies/committees of the institution

Response:

The institute has an active Student Council and various Student Chapters. The following are the responsibilities of each of them:

1. Presence of an active Student Council:

The College has an active student council, which is responsible for organising Cultural, Technical, Sports and Literary events. They conduct the following activities:

- The institute conducts the annual festival named 'TRINITY' which is an amalgamation of Cultural, Technical and Sports events. Events like DJ's got Talent, Unveiling of the Mascot, DJ Night, and Traditional Day are some of the highlights of the Annual College Festival. IDPT is a part of TRINITY, which mainly consists of all departments engaging in a healthy competition to claim the title of the best department. These events give students an opportunity to develop leadership and team spirit.

- The technical committee organises events like Robo war, Robo racing, Hackathon, Share Market Simulator, Technical Seminars and talks on current and emerging technologies.

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- The Sports Committee organises the Annual Sports event. The Core committees of all Student Chapters take part in the March past which is the highlight of the day. Students display their sportsmanship and athletic skills during the sports day.

- DJ LIT is a body of students from various departments, which organises literary activities in the college. Some of the notable events conducted are J.A.M and Quiz.

1. Representation on the Academic Committee:

- Student Chapters: Student Chapters of professional bodies are established such as ACM, CSI, IETE, IEEE, ISME, RAS, ISHRAE, SAE, PACEMAKER and IICHE. Students under these professional bodies conduct several technical events such as paper presentations, seminars, guest lectures, workshops, project competitions and industrial visits etc.
- Departmental Advisory Board: Every department has an advisory board which consists of industry experts, faculty members, alumni and student representatives. An annual meeting is held to discuss the gaps in syllabus, teaching- learning process and also on how to increase the employability of the students.

1. Class representatives: Every class has one class representative. Informal feedback on teaching-learning processes like teaching, course content, study material and practical sessions is sought through meetings with the Class Representatives.

1. Representation on the Administrative Committee:

- Students' feedback on Amenities: Maintenance committee addresses the grievances of students related to facilities in the classrooms, laboratories, library, cafeteria and washrooms. Suggestion box has been placed to report the grievances and any other matter.
- NSS Committee: NSS organises events to sensitize the students for the benefit of the community and underprivileged sections of the society.
- Students Grievance Committee: Students' Council of the college plays a vital role in this direction. Grievance related issues are sorted out at the desks of the Heads of the departments / Vice Principals/Principal.
- Women Development Cell: WDC is formed to look after women related (female staff and students) grievances. WDC also organizes programmes for the welfare of women employees and students.

- Alumni Association: Alumni Association is in place to strengthen the relationship between the alumni and the institute and also to enhance the long-term brand value of the institute through various collaborative means.

File Description	Document
Any additional information	View Document

5.3.3 Average number of sports and cultural activities/ competitions organised at the institution level per year

Response: 23.2

5.3.3.1 Number of sports and cultural activities / competitions organised at the institution level year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
5	38	28	26	19

File Description	Document
Report of the event	View Document
Number of sports and cultural activities / competitions organised per year	View Document

5.4 Alumni Engagement

5.4.1 The Alumni Association/Chapters (registered and functional) contributes significantly to the development of the institution through financial and non financial means during the last five years

Response:

DJSCE has a rich history of producing efficient and successful engineers. Our alumni have made us proud by contributing significantly in the field of Technology. The Alumni have done exceedingly well in all spheres of life, at both national and international level, and have brought many accolades for themselves and their alma mater. We are well connected with our alumni as they enthusiactally share their experiences of life. DJSCE Alumni association was established in the year 2007. It serves as a forum to promote and foster a good relationship between Alumni, Students and Teachers thereby enabling our institute to achieve its ambition of being a world class institution for education, training and research in engineering.

Objectives of DJSCE Alumni Association:

1. To provide a coordinative platform for its proud alumni that are currently a vibrant set of individuals at the national as well as global level.
2. To provide interaction amongst the alumni to assist each other in their professional career.
3. To benefit current and future students of the college via guidance from alumni with their rich professional and practical experience.
4. To act as a facilitator between alumni and institution for mutual benefits.

Alumni are connected to the institute via alumni portal "www.alumni.djsce.ac.in". There are 4900 registered members on the portal. The portal helps in maintaining and updating records of alumni. It gives opportunity to alumni to interact and guide each other. An Android (https://goo.gl/ZdE) and iOS (https://goo.gl/PWjsTW) app is also available for continuous updation of activities on portal.

Salient Features of DJSCE ALUMNI portal include:

- Search registered users and view their profiles.
- Search and view Webinars, Blog posts, Articles and Video interviews.
- Track users on Google map
- Post/view job opportunities
- Create, receive notifications for events posted
- Collect donations and registration fees through integrated payment gateway.

Alumni are invited as member of the Department Advisory Board (DAB) of the various programmes and their suggestions on various departmental activities are considered valuable. Alumni Newsletter is published on the website annually. The association conducts alumni meet every year to strengthen relations between alumni and institute, wherein alumni share their experiences and interact with current students and faculty members. Alumni, who are not residing in Mumbai also participate in meet via SKYPE. During the meet, alumni unfolds their career path, discusses about career opportunities, recent industry status, current job situation and requirements, various competitive exams such as GRE/GATE, higher studies and start-ups. Alumni visit the campus throughout the year to conduct workshops, seminars and guide the students for final year project.

Some of the activities conducted by alumni in 2017-18 are listed here.

- Technical talks: Natural Language Processing, Web Application, Python Frameworks, Research, Analytics and cloud computing
- Talk on Career Guidance in Healthcare, Network & Cyber security and Chemical Engineering at Work-Conceptualization to Operation
- Workshop on Proteus software
- Seminar on "3D-Bioprinting of Tissues: The Confluence of Biomedicine and Manufacturing"
- Workshop on Artificial Intelligence and Computer vision
- Participation as judges for 24-hour hackathon, Codeshastra 4.0

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

5.4.2 Alumni contribution during the last five years(INR in Lakhs)

? 5 Lakhs

4 Lakhs - 5 Lakhs

3 Lakhs - 4 Lakhs

1 Lakh - 3 Lakhs

Response: <1 Lakh

File Description	Document
Alumni association audited statements	[View Document](#)

5.4.3 Number of Alumni Association / Chapters meetings held during the last five years

Response: 36

5.4.3.1 Number of Alumni Association /Chapters meetings held year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
8	8	7	7	6

File Description	Document
Number of Alumni Association / Chapters meetings conducted during the last five years	[View Document](#)
Report of the event	[View Document](#)

01-10-2019 10:56:45

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1 The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the institution

Response:

DJ Sanghvi, currently in its 25th year has always tried to be a global player in the academic arena by providing quality education and training to its students.

The ensuing features empower the institute to realize its vision

- Training and producing disciplined and qualified people in Engineering, Science and Technological Fields.
- Enabling our students to explore new realms of wisdom.
- Inculcating values of personal excellence and concern for others.
- Along with a well monitored academic process, the co-curricular and cultural and sports activities play an important role in the development of the student, which reflects on the society of the future.

The balance of academic and co-curricular opportunities given by the institute have been instrumental in moulding the students into becoming a multifaceted engineer. With a strong vision and passion for being the pioneers of the modern education system, DJSCE has blossomed into a state of the art institute, with ever expanding facilities and infrastructure. The world is changing and we at DJSCE make things happen.

Companies such as Browser Stack, Amazon, Morgan Stanley, Deloitte, Reliance Jio, L&T, JP Morgan come knocking on its doorstep every year and recruit from the brightest engineering minds in the country. Every New Year, the Times Square in New York has a congregation of alumni studying in the US celebrating their success achieved at DJ (as we are lovingly referred to).

2018 has been a landmark year for the institute as all its eight undergraduate programmes have been accredited by the NBA. IIT Bombay has now affiliated the institute as a Remote Centre for its e-outreach programs.

The pillars of our college are our students. At one end they are becoming academically strong, obtaining admission easily in IITs, IIScs and IIMs for their higher studies and at the other end they are unbeatable in Formula Racing, hackathon competitions and other coding competitions, not only in India but at international level too.

The faculty consistently encourages and guides these students. Not to be left far behind, the faculty themselves have basked in the glory of Best paper awards at reputed conferences, become Associate Editors of highly rated periodicals, such as IEEE Access, served on Technical Programme Committees and have given talks at various International Conferences in India and overseas. DJSCE has always envisioned and has emerged as a Global Brand in the field of education.

The Governing Council, Institute Development Committee, the Department Advisory Board, Internal

Audit Team and the Finance committee are a few of the important components that is deployed for effective governance, in tune with the vision and mission that is reflective of the effective leadership of the institute.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

6.1.2 The institution practices decentralization and participative management

Response:

The institute has a decentralized decision making process. Principal oversees and delegates all academic and non-academic decisions to various committees. The Vice-Principal (Administration) assists the Principal in ensuring the smooth and effective functioning of the institute. He also oversees the allocation of the infrastructure and the facilities and ensures the optimum utilization of the college resources. The Vice Principal (Academic) assists the Principal and also drives the research and educational innovation and foster collaborative efforts between various research institutes and colleges. She also supports the development of multi-disciplinary research and teaching e.g. coordinating proposals, forming groups to address specific issues etc. She ensures the academic standards of all the programs managed within the college. In order to ensure smooth day to day functioning of various departments and sections in the college, various committees are formed by the Principal, keeping in mind the organisation and governance structure. Further co-committees and delegates are appointed depending upon the position. For every department, HOD handles the day-to-day activities of the department. He/She ensures the smooth functioning of the department. Different entities such as sports & cultural disciplines have functioning sovereignty under the tutelage of different committees as formed by the Principal. DJSCE over the years has built a robust administrative structure, responsive to the views of the faculty members and students to a very large extent.

Decentralization in DJSCE is effected through the thirty two committees, which involve participation of each and every faculty member from every department. The constitution and working of the Admission and IT Committee are mentioned below.

Admission and IT Committee:

The main aim of the Admission Committee is to carry out the admission process in a fair and transparent manner as per the guidelines laid down by Directorate of Technical Education, Maharashtra State. The admission process is conducted strictly on the basis of merit and the preferences filled in by the candidates. Admission details like process of admission, seat availability, merit list and details about the various rounds of admission are displayed on the website. The eligibility criteria are followed strictly based on the guidelines laid down by the Admission Regulatory Authority. In addition to First Year Engineering admissions, the Admission Committee conducts lateral admissions to second year (for diploma holders). The admission notice for this entry is similarly published in newspapers, college notice board and on the website.

The admission process is conducted in the institute, by a committee headed by a Chairperson, Co-chairperson/s aided by Vice Chairperson and teaching faculty members appointed from all the departments. These appointments are authorised by the principal, who oversees the entire process. Additional staff members from the departments/ office are assigned duties as and when required. The committee meets on a regular basis during the entire admission cycle. The Admission Committee is ably supported by an IT Committee with support staff during the entire progression of admission. The committees adhere strictly to the guidelines laid down by the AICTE, DTE and the Govt. of India from time to time.

File Description	Document
Any additional information	[View Document](#)

6.2 Strategy Development and Deployment

6.2.1 Perspective/Strategic plan and Deployment documents are available in the institution

Response:

The revenue and capital budget are prepared prior to the start of the financial year. Budgetary proposal is invited in a prescribed format. The Management ensures that adequate budgetary provisions are made, based on targets of the Trust. The budget estimate for the financial year 2019-20 is prepared as per the guidelines, after discussing with authorities and department HODs. The total budget expenditure is estimated at approximately 70 crores for the FY 2019-20. The disbursement is based on the Institute's Vision and Mission with a consideration toward budgetary liabilities. Salaries and benefits as well as capital expenditure, maintenance and operations costs, fundamentally drive fiscal expenses for the institute. Clauses in budget identify initiatives to sustain world class education and training, student success and also provide financial sustainability.

Academic Calendar:

The academic calendar designed by the institute provides strategic direction, a set of broadly defined benchmarks and a series of guideposts for the journey along the semester. The ideas in this plan are meant to guide our work, help us focus on our priorities, and along with our vision, inspire us to move forward in exciting new directions.

DJ IGNITE and DJ STRIKE are project based learning platforms emanating out of systematic academic and strategic planning. IGNITE is the official IETE-Student Forum newsletter, which contains articles as well as the reports of all the events conducted by IETE-SF throughout the year. Articles on Topics like big data analysis and Google's Keynote 2017 were covered in the 2018 feature. 'Into the future' section of IGNITE has articles dedicated to futuristic technology, like augmented reality and AI. DJ IGNITE has attempted to provide solutions to the modern day problems by focusing on different technologies considering economic sustainability and demo graphical terms, hence inspiring the minds of the readers. DJ IGNITE was to feed the inquisitiveness of the student and to unfold the latest aspects of scientific developments.

The idea of DJ IGNITE emanated from DJ SPARK, the flagship event of IETE-SF. DJ Spark aims to encourage students, who are eager and passionate to learn and implement ideas in the form of Technical projects. Students can make utmost use of this platform to broaden their horizon in their respective field of interest and present it with the same conviction. DJ SPARK publication eventually had an ISBN number. Initially, only the final year students contributed to the journal with some very good quality research. It was then decided to involve the third year students as well. The students were thrilled and ideas flowed, thus leading to the launch of IGNITE.

The success of IGNITE put fuel to the fire and the second year students have now become the part of the core teams in the project. A kind of mentorship cycle started and STRIKE has evolved. DJ Strike is a mentorship program, under which teams comprising of second year and third year students are given an opportunity to create industrial level projects under the guidance of BE mentors as well as a faculty mentor.

File Description	Document
Any additional information	[View Document](#)
Strategic Plan and deployment documents on the website	[View Document](#)
Link for Additional Information	[View Document](#)

6.2.2 Organizational structure of the institution including governing body, administrative setup, and functions of various bodies, service rules, procedures, recruitment, promotional policies as well as grievance redressal mechanism

Response:

Shri Vile Parle Kelavani Mandal is a Public Charitable Trust registered under the Society's Registration Act and Bombay Public Trust Act. From its humble beginning in 1934, when it took over the Rashtriya Shala, a school established in 1921 in the wake of the National Movement, the Mandal today has grown into a big educational conglomerate imparting high-level education to more than 45,000 students.

Principal is the academic and administrative head of the college, assisted by the Vice Principals, Heads of the Departments and Registrar.

The governing board and LMC members along with their educational testimonials are accessible on the uploaded links.

SERVICE RULES/PROCEDURES

The Maharashtra University Act 1994 and Maharashtra Civil services Rules 1981 available on public domain are followed. Currently, the revised Maharashtra Public University Act 2016 is in force and is being followed.

Published Rules and Policies: **Service Rule Book for Permanent Employees**

Year of Start of Publication**: 1994**

USE AND DISTRIBUTION OF SERVICE RULE BOOK

The appointed candidates have to sign the joining letter and a confirmation of approval of rules and regulations of the institute. Service Book is regularly updated, which are made available during the committee visits.

CAS (Carrer Advancement Scheme) set up by the institute throws light on its promotional policy of the institute.

As per the University guidelines, the college has a Women Development Cell (WDC), formed to look after the grievances of women (female staff and students), if any. WDC often organizes programmes for the benefit of women. A Grievance Committee also exists in the college to look after the grievances of staff members and to address them. Local Managing Committee also takes care of staff and student's grievances. An unfair means committee appointed by the Principal independently enquires any unfair practices followed by the employees and the students and reports the finding of the enquiry to the Principal. Students' Council of the college also plays a vital role in this direction. Many of the grievance related issues are sorted out at the desks of Heads of the departments / Principal. Any other major grievances that cannot be sorted out through any of the above committees/mechanisms are referred to the top management for appropriate follow up and advise. On 12th March, 2017, women's day was celebrated, wherein all the teaching and non-teaching staff were invited. Dr. Lata Joshi, Doctor & Nutritionist was invited to guide all the ladies staff how to take care of their health in the busy schedule of life.

The following committees exist in the college to deal with some of the above mentioned aspects.

1. Grievance Committee
2. Women Development Cell
3. Anti-Ragging Committee
   ○ Anti-Ragging Squad
   ○ Anti-Ragging Cell

File Description	Document
Any additional information	[View Document](#)

6.2.3 Implementation of e-governance in areas of operation

1. **Planning and Development**
2. **Administration**
3. **Finance and Accounts**
4. **Student Admission and Support**
5. **Examination**

A. All 5 of the above

B. Any 4 of the above

C. Any 3 of the above

D. Any 2 of the above

Response: A. All 5 of the above

File Description	Document
Screen shots of user interfaces	[View Document](#)
ERP Document	[View Document](#)
Details of implementation of e-governance in areas of operation Planning and Development,Administration etc	[View Document](#)
Any additional information	[View Document](#)

6.2.4 Effectiveness of various bodies/cells/committees is evident through minutes of meetings and implementation of their resolutions

Response:

UNFAIR MEANS INQUIRY COMMITTEE

This committee is constituted to look into the Junior Supervisor's (University Exam/Class Test) reports given in writing on any malpractice or anomaly found during the examination to the immediate senior supervisor. The senior supervisor reports the matter to the Chief conductor. Chief conductor inform Principal/ university for further process.

Functions and responsibilities:

- Convener of the committee shall convey a meeting of the members and discusses the complaint received from the Principal.
- The Committee then calls the candidate to seek an explanation and hear him/her. Explanation shall be taken in writing.
- The Committee members shall also make necessary enquiries from Exam Supervisors and other related witnesses.

- After hearing all the above persons, they shall report their findings in writing, along with the proposed disciplinary action (if any malpractice was detected) to the Principal, according to the University guidelines/norms.

Multipurpose Identity cards – Library committee decision dated 23/07/2013

In the Library Committee meeting dated 23/07/2013, it was decided to prepare multipurpose Identity cards with barcode for all faculty members, Students and staff. Earlier, there were only Identity cards without barcodes plus Library cards extra for library purpose. It was discussed in the meeting that, instead of preparing new Library cards, we could use this barcoded card as the Identity card and Library card. If anybody wants to take library books, the identity card will be scanned at the books issue counter and books will be checked out. There will be no need of another Library cards. Also, these cards will be utilized for user's attendance in Library. Whenever students or faculty members visits the library, everyone has to scan their I-card on the scanner kept at the entrance of the Library. Their attendance will be saved in the excel sheet.

Accordingly, the Management has approved the recommendation and Identity cards with barcodes have been prepared by the stores department.

Requirement of Digital Library Setup – Library Committee decision dated 26/02/2014.

It was discussed and decided in the Library Committee meeting dated 26/02/2014, to write a letter to the Management asking for the space for a digital Library setup in the main Library.

Accordingly, the letter was written to the Trustee on 29/05/2014. Requirement of digital Library set up with 10 computers was mentioned. It is also elaborated about the importance of the digital library. Requirement of the DSPACE institutional repository system (open source software), also mentioned in the letter with the approximate expenditure.

Finally, the Management has sanctioned staff workstation of 14 cubicles with 14 computers for the digital library.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

6.3 Faculty Empowerment Strategies

6.3.1 The institution has effective welfare measures for teaching and non-teaching staff

01-10-2019 10:56:48

Response:

There are a good number of welfare measures, which have taken shape, because of the sympathetic and benevolent nature of the management and the institute administration.

Retirement Benefit Scheme: The Management of the SVKM has introduced the scheme to ensure that the employees are taken care of not only while they are rendering their services, but also when they retire on superannuation. The scheme covers all employees, who have worked with one or more of the SVKM institution for a minimum period of 10 years and have superannuated on reaching the retirement age.

The Monthly Benefit amounts to Rs.10,000/- pm for teaching faculty, Rs.5,000/- pm for non-teaching employees and Rs.2,500/- pm for supporting staff.

The Management has also the extended half of the benefit to the spouse, if the ex-employee passes away within the tenure of the Benefit Scheme.

Allowance: Incentives of 5000 to 50000 per month are given by management to some employees as an appreciation for their contribution to the development of institute as well as loyalty.

Mediclaim and accidental insurance: the college employee is covered under group personal accidental policy up to the limit of Rs 10 lakh. In case of accidental death of any employee, who is covered under the policy, he/she will be eligible for the claim of Rs 10 lakh. The benefit is also extended to employee's family.

Medical insurance up to one lakh is being provided by the management to the employee and his/her family.

Leave Travel Concession: The concession is admissible to employees of all grades whether on deputation, permanent or probation after completion of one year of continuous service in the institution as per directive of Government of Maharashtra.

Link: http://www.djsce.ac.in/Common/Uploads/ContentTemplate/83_Down_Mandatory%20disclosure%20Appdx.10_26122018.pdf

Medical facilities: SVKM, the parent body has a Health Check-up Centre for the teaching and non-teaching staff members of all its institutions. We have a group insurance policy with The New India Assurance Co. Ltd. for all the employees.

The wards of the staff members studying in any of the SVKM institutions are given 25% discount in the tuition fees. The staff community along with their family members are benefited with the Mediclaim facility. The management allots a substantial amount towards the Employees Provident Fund. Loyalty bonus is given to the faculty members, who are serving the institute for a long term. The credit society is formed for the benefit of staff, so that they can avail the facilities like personal loan, fixed deposits etc. Members of the faculty are allowed with special duty leave to present research papers pan India and also at conferences abroad. Maternity leave of 180 days is sanctioned for the female employees. Paid leave for critical illness for one year is sanctioned in the case of confirmed employees as per the need.

File Description	Document
Link for Additional Information	

6.3.2 Average percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years

Response: 14.65

6.3.2.1 Number of teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
42	21	13	33	3

File Description	Document
Details of teachers provided with financial support to attend conferences,workshops etc during the last five years	
Any additional information	

6.3.3 Average number of professional development /administrative training programs organized by the institution for teaching and non teaching staff during the last five years

Response: 4.8

6.3.3.1 Total number of professional development / administrative training programs organized by the Institution for teaching and non teaching staff year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
6	6	8	3	1

File Description	Document
Details of professional development / administrative training programs organized by the Institution for teaching and non teaching staff	
Any additional information	

01-10-2019 10:56:49

6.3.4 Average percentage of teachers attending professional development programs viz., Orientation Program, Refresher Course, Short Term Course, Faculty Development Program during the last five years

Response: 37.52

6.3.4.1 Total number of teachers attending professional development programs, viz., Orientation Program, Refresher Course, Short Term Course, Faculty Development Programs year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
65	78	79	49	17

File Description	Document
Details of teachers attending professional development programs during the last five years	[View Document](#)
Any additional information	[View Document](#)

6.3.5 Institution has Performance Appraisal System for teaching and non-teaching staff

Response:

The institute follows the following Performance appraisal process.

The Faculty appraisal process takes into consideration the following inputs.

1. Students' feedback

2. Faculty's contribution in attaining department's vision and mission statement.

3. Institute level responsibilities shared.

4. Department level responsibilities shared.

The following points are considered in the process:

•   Details about the department and institute level responsibilities undertaken by faculty in the particular academic year.

•   Major accomplishments/activities done by faculty that can be mapped to the department's vision and mission statements.

Following are the important steps of the Performance appraisal process.

• Filling up and submission of Appraisal form by faculty

• Review of all appraisal forms received by HOD

• Followed by this, one to one meeting between faculty and HOD is conducted. During the meeting HOD discusses remarks to be written in the form, strengths, weaknesses, areas of improvement, corrective actions suggested, help needed by faculty members, problems being faced by faculty.

• After the said meeting, appraisal forms are sent to vice principals/ principal for further review.

• The forms are sent back from vice principals/ principal to the HOD with necessary remarks.

• Individual faculty members are intimated about the comments/ remarks from Principal/ VPs. Forms remain either at HR or with HOD.

Performance appraisal encircles feedback collected for all courses. The institute takes offline and online feedback. **75%** of students participate in the feedback and they rate faculty in five grades (very good, good, acceptable, barely acceptable and poor) separately for theory and lab courses. The feedbacks collected are further analysed and corrective actions are taken. The corrective actions include counselling of the faculty, sending faculty for faculty development programs, and guidance sessions with senior faculty/industry experts.

File Description	Document
Any additional information	[View Document](#)

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly

Response:

The institute conducts internal and Statutory Audit, as per stipulated provisions of the Income Tax Act. The parent trust appoints the auditors with audits are conducted regularly.

The areas covered by the auditors are; the maintenance of books of accounts and records, work load audit, capital expenditure and repairs and maintenance, statutory compliance, system implemented etc. as well as checking of the accounting process like collections of fees from the students and its reconciliation. Payment of salary and its statutory compliance viz. TDS, Professional Tax and Employees Provident fund etc. as well as Purchase of assets and calculation of depreciation and other expenses and statutory compliances like TDS contractors, professionals and rent are part of it.

Internal and statutory audit helps the institute to follow a systematic approach to evaluate and enhance the effectiveness of the financial process. A thorough check and verification of all transactions are carried out in each financial year. It reviews and approves information and compliance with the policies & procedures. The observations, recommendations & suggestions given by the auditors are duly complied with.

File Description	Document
Any additional information	View Document

6.4.2 Funds / Grants received from non-government bodies, individuals, Philanthropists during the last five years (not covered in Criterion III) (INR in Lakhs)

Response: 72.08

6.4.2.1 Total Grants received from non-government bodies, individuals, philanthropists year-wise during the last five years (INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
38.01	26.15	4.85	3.07	0

File Description	Document
Details of Funds / Grants received from non-government bodies during the last five years	View Document
Any additional information	View Document

6.4.3 Institutional strategies for mobilisation of funds and the optimal utilisation of resources

Response:

The institute is supported by "Shri Vile Parle Kelavani mandal "Parent Trust, a non-profit Educational Trust.

For appropriate and proper utilisation of resources, the institution has an Annual Planning and budgeting process. Budgets and compliance to the budgets, financial data submitted by the all departments along with required justification are closely monitored by the institute and management. As a self-financed institute, the main source of funds is collection of prescribed fees from the students admitted to UG and PG Programmes & PhD.

- The major funds are allocated for the salary of teaching and non-teaching staff as well as for the Remuneration of visiting faculty members.
- Funds are utilised for priority services like Electricity, Water and Property taxes, insurance etc.

- To mobilise the financial resources, funds are allocated and expenditures are prioritised as follows:

- Adequate funds are utilised for development of and maintenance of infrastructure viz. Building, Laboratories, Classrooms, equipments and Furniture etc.
- Requisite funds are utilised for enhancing library facilities like subscription to Books, Online Journals and Periodicals-magazines etc.
- Funds are provided for other services like Security, Housekeeping and Pest Control etc.
- Funds are allocated for development of

1. Staff - to conduct orientation programs, workshops, FDPS and other training programs that ensure quality education.
2. Students – to conduct lectures from experts from industry. To encourage student's projects etc. & other student activities like sports, cultural and technical etc.

Further, optimal resources are utilised to provide best quality equipments, advance technology and better infrastructure for providing excellent quality of education.

File Description	Document
Any additional information	[View Document](#)

6.5 Internal Quality Assurance System

6.5.1 Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes

Response:

DJSCE established Internal Quality Assurance Cell (IQAC), which monitors the quality of service provided to various stakeholders by enhancing the competencies of faculty members as well as empowering the students through activity and project based learning.

Following Initiatives have contributed significantly to improving the quality of our student centric teaching learning process.

Title of Practice: Personality development program

Special sessions for personality development to develop leadership and team building qualities in students especially, the soft skills are conducted at the beginning of every academic year.

Soft skills are increasingly sought after by employers as it is essential for a productive, collaborative and healthy work environment. Bearing this in mind, in addition to the regular Communication Skills and Business Communication & Ethics subjects in curriculum,soft skills and communication competencies are imparted to our students in the 1st year (Foundation course), 2nd year (Personality development) and 3rd Year (pre-placement package).

Pre-placement programmes are regularly conducted to make our graduating students industry ready.

A well planned mentoring system helps in identifying slow and fast learners and accordingly students are guided and motivated.

Hobby clubs, such as D J nature trail are formed to provide a multi-dimensional personality to the students and staff. Another hobby club, DJ Codestars is formed to bring together students and staff, who have passion for coding.

Title of Practice: Project based learning

Our students take memberships of various professional organisations like CSI,ACM, Pacemakers, S.A.E., I.S.H.R.A.E, IIChE, I.S.M.E, IEEE, IETE and R.A.S and have formed the students' chapters of these professional bodies. Through these chapters, students undertake various projects and participate in a plethora of national and international competitions.

DJS Kronos Team design and manufactures "All –Terrain" vehicle and participates in off road racing in Enduro student India and BAJA SAE India.

DJS Racing team fabricates from scratch, formula style racing cars and participates in Formula Bharat and various international competitions.

DJS Thunderbolt team participates in International SAE formula Student competition in Hungary, with their electric racing car.

DJ Skylark team develops their own RC aircraft to represent the institute in the SAE Aero Design competition, USA.

DJS Karting team designs and manufactures go-karts and participates in Go Kart Design Challenge and Indian Karting Championship.

DJS Helios team aims to promote green energy by manufacturing a solar car and competes in ESVC and IASC.

DJS Phoenix team makes their own radio-controlled quad-copter and participates in WRC Delhi-Indian Competition.

DJS Tachyon team designs and manufactures hybrid vehicles and participates in the SAE NIS Efficycle.

DJS SPEESTERS team designs and manufactures an electric bike for participation in E-bike competitions.

DJ Spark is a state level project-based technical paper presentation competition, conducted under student chapter of IETE-SF.

DJASCII is a State Level Project Competition conducted every year Department of Computer Engineering and Information Technology.

File Description	Document
Any additional information	View Document

6.5.2 The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms

Response:

Our institute has been having a well-defined methodology to carry out the teaching learning process over the years. It is reviewed periodically by the IQAC.

Example 1 – Course files

Every teacher prepares the Teaching plan at the beginning of the semester for the courses, he/she is teaching. Teacher identifies the course material and understands the pre-requisites. At the beginning of semester, teacher prepares the question bank and plans the assignments to be given during the semester. Internal audit is carried out to assess the CO-PO attainment. Audit takes note of the corrective action taken by the teacher to improve the results.

Departmental Advisory Board(DAB) helps in identifying the gaps in curriculum and suggests actions to be taken by various subject teachers.

Example 2 – Faculty training

Lot of efforts are made to enhance the research culture in the campus. A number of e-journal are subscribed in the library. Teachers and students are encouraged to publish technical papers in reputed journals and conferences. Proposal are submitted to AICTE, DTE and UoM for research grants. International conferences are organised to get more opportunities for our students and teachers to interact with researchers from all over the world. Proceedings of these conferences have been published by Springer. Our college has three research centres approved by University of Mumbai for conducting Ph.D. programs.

Teachers are encouraged to take up Swayam courses, especially the NPTEL ones. They also use NPTEL videos to enhance the teaching learning process.

Various faculty development programmes FDP and Short Term Training Programmes with approval from ISTE/AICTE are also conducted for the benefit of teachers.

File Description	Document
Any additional information	View Document

6.5.3 Average number of quality initiatives by IQAC for promoting quality culture per year

Response: 1.8

6.5.3.1 Number of quality initiatives by IQAC for promoting quality year-wise for the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
3	3	3	0	0

File Description	Document
Number of quality initiatives by IQAC per year for promoting quality culture	[View Document]()
Any additional information	[View Document]()
IQAC link	[View Document]()

6.5.4 Quality assurance initiatives of the institution include:

1. **Regular meeting of Internal Quality Assurance Cell (IQAC); timely submission of Annual Quality Assurance Report (AQAR) to NAAC; Feedback collected, analysed and used for improvements**
2. **Academic Administrative Audit (AAA) and initiation of follow up action**
3. **Participation in NIRF**
4. **ISO Certification**
5. **NBA or any other quality audit**

A. Any 4 of the above

B. Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

Response: B. Any 3 of the above

File Description	Document
e-copies of the accreditations and certifications	[View Document]()
Details of Quality assurance initiatives of the institution	[View Document]()

6.5.5 Incremental improvements made during the preceding five years *(in case of first cycle)* **Post accreditation quality initiatives** *(second and subsequent cycles)*

Response:

To enhance the quality in academics and administration, various IQAC initiatives are implemented incrementally, so as to keep pace with the expectations of stakeholders like students, industry and society.

 1] **Bridging the Gap between Industry and Academia:**

    VAP Courses: In order to cater to the needs of industry, Value Added Programmes are frequently conducted to impart latest technical knowledge to students. Recently, the VAP courses conducted were on JavaScript and AngularJS, Game Development, IoT, MATLAB, Solidworks, Ansys and Value engineering.

   In-plant training and Internships: Students are encouraged to undertake in-plant training and internships in industries. Few students have their internships in other countries as well. At least one industrial visit is organised during each semester from the third semester onwards for all the students.

2] **Implementation of SAP**

   Various day to day administrative operations are carried out using SAP. The entire admission process, records of attendance of students and faculty, examination related work and processing of results are carried out using SAP software. Information related to attendance of students is compiled on a weekly basis and send to the parents through SMS and E mail.

File Description	Document
Any additional information	View Document

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1 Number of gender equity promotion programs organized by the institution during the last five years

Response: 7

7.1.1.1 Number of gender equity promotion programs organized by the institution year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
1	2	2	1	1

File Description	Document
Report of the event	[View Document](#)
List of gender equity promotion programs organized by the institution	[View Document](#)

7.1.2

1. Institution shows gender sensitivity in providing facilities such as:
  1. Safety and Security
  2. Counselling
  3. Common Room

Response:

  1. **Safety and Security:**

DJSCE is committed to providing a safe and conducive work and academic environment to its students and employees and is extremely alert to matters pertaining to any kind of harassment and gender insensitivity.

The Institute has taken the following measures to ensure the safety and security of all the occupants at the campus:

- Deployment of well-trained security guards (male and female) at key locations in the campus.
- Screening of students, staff and visitors at entry points.
- Identity cards are mandatory for everyone on campus.
- Formation of Anti-ragging Committee as per the U.G.C. guidelines. On securing admission to the institution, students sign an undertaking stating non- involvement in ragging activities. Anti-ragging committee and squads make sure that there are no instances of ragging anywhere in the campus. Anti-ragging posters and help line numbers for women are prominently displayed within

the campus and MU ordinance is strictly followed.

- Police regularly patrol the surroundings.
- Display of helpline throughout the campus for any emergency
- In case of medical emergency, any person seeking medical aid is taken to Dr. Cooper BMC hospital, which is in close vicinity.
- First Aid boxes are made available at all departments.
- Fully automated fire alarm system with fire extinguishers and water hydrants are available. SVKM organizes mock drill every year for safety.
- Suggestion boxes are also placed and grievances, if any, are addressed.
- Provision of 10 sq.m. carpet area (1 room) for security as per AICTE norms.

Along with the safety and security of all the students and employees in the institution, cleanliness and hygiene is given top priority by the management. In addition to the existing non-teaching (class IV) staff, the management has outsourced housekeeping activity to "Satguru Enterprises". Keeping in mind the safety and security of the girl students and women staff members, majority of the Satguru housekeeping staff deployed are ladies.

Women Development Cell

As per the requirements mentioned in the University of Mumbai compendium, our institution has established a College Women Development Cell (CWDC) at the institute level to implement the directives in general and to deal with complaints/cases of sexual harassment in the institute in relation to the college/institute. However, if any such complaint is in relation to the Management/Principal/Member of the CWDC, the same shall be dealt with by the University Women Development Cell (UWDC). The office of the CWDC is located in the college/institution and the Principal/Director of the college/institution is the custodian of all the records of the Cell.

Grievance Committee

Grievance Policy

Grievances Redressal Cell is formed in order to keep a healthy working environment among the staff, students & parents. Grievances may be real or imagined, but in either case, it is essential that the grievance is brought to light, discussed and the matter resolved to the satisfaction of all concerned. Failure to do so will only result in the grievance becoming a worsening source of conflict and eventually ending as a far more serious problem.

Institute has formulated a grievance procedure, which has as its main objective the speedy resolution of workplace grievances and thereby eliminating possible and unnecessary causes of conflict.

Objectives

1. The Grievance Redressal Procedure is aimed at resolving work related   grievances within the Institute as fairly and as quickly as possible. Grievances are feelings of injustice or dissatisfaction affecting an employee.
2. This Procedure is not used for appeals against disciplinary action. Such cases are to be   carried out in accordance with Disciplinary Process and Policy.
3. This Procedure shall not be used for the resolution of collective grievances related to salaries.
4. Employees may lodge grievances without fear of victimization.
5. Grievances should be resolved at the lowest possible level within Institute.
6. Keep the records of all the statements and decision.

2. Counselling

Personal Counselling: DJSCE has appointed professional counsellors Hoori Deshpande and Dr.Sumati Oza, who counsel students in dealing with personal matters like mental stress, depression, general disinterestedness in studies, ward- parent and student-faculty relationships, handling result pressure and personal losses etc.

Career Counselling: Counselling Centre for Higher Studies: Dwarkadas J. Sanghvi College of Engineering has made its own global identity through its dynamic and distinguished alumni in the last 2 decades. Many of its students, after completing graduation from DJSCE have opted for higher education and have excelled in their chosen career path. Looking at the trend of students pursuing higher education after undergraduate studies, the college had come up with a Counselling Centre, established in the year 2008. This counselling center, managed by faculty members offers guidance to the students interested in going for higher education.

3. Common Room:

Girls and Boys Common Room:

As per AICTE norms (4.2.3), technical campus having more than 1 program, should have two common rooms (of 100 sqm area each), assigned separately to girls and boys. D. J. Sanghvi has common rooms, assigned separately to girls (GCR 4th floor) and boys (First floor), as per the requirements, with an aim of providing a warm and welcoming space to the students for conducting meetings, discussions and studying or relaxing. It is equipped with comfortable furniture, newspapers and magazines and has facilities to play indoor games like Chess, TT, etc.

File Description	Document
Any additional information	[View Document](#)

7.1.3 Alternate Energy initiatives such as:

1. **Percentage of annual power requirement of the Institution met by the renewable energy sources**

Response: 0

7.1.3.1 Annual power requirement met by the renewable energy sources (in KWH)

7.1.3.2 Total annual power requirement (in KWH)

Response: 182597

File Description	Document
Details of power requirement of the Institution met by renewable energy sources	[View Document](#)

7.1.4 Percentage of annual lighting power requirements met through LED bulbs

Response: 44.3

7.1.4.1 Annual lighting power requirement met through LED bulbs (in KWH)

Response: 80884

7.1.4.2 Annual lighting power requirement (in KWH)

Response: 182597

File Description	Document
Details of lighting power requirements met through LED bulbs	[View Document](#)
Any additional information	[View Document](#)

7.1.5 Waste Management steps including:
- **Solid waste management**
- **Liquid waste management**
- **E-waste management**

Response:

Waste management at campus:

Waste is an obvious culprit and pollutant, contributing to landfills and toxins which harm the earth's soil and atmosphere. DJSCE being environment conscious, actively promotes this understanding among its students and staff highlighting cleanliness and hygiene in the campus. Waste is managed through a systematic process, wherein the waste material is segregated into biodegradable and non-biodegradable wastes, and as toxic and non-toxic wastes in the laboratories and get them suitably disposed.

01-10-2019 10:56:54

Dustbins marked in green signify wet waste, blue is for dry waste and red for sanitary waste. Papers no longer in use are preserved by the exam section and shredded at regular intervals in the course of the academic year. The NSS unit of DJSCE actively spreads awareness about waste management through seminars and verbal campaigns.

DJSCE has a well-defined mechanism for waste disposal and sensitizes students and staff towards this through the following practices:

Solid waste

- Every staffroom, classroom and lab has a dustbin. Additionally every floor has dustbins for waste collection.
- DJSCE NSS students undertake Juhu beach cleanup drive every year after the Ganapati immersions.
- Paper shredding is done periodically (two years) by the examination section.

Liquid waste

Liquid waste includes waste water generated by washrooms, regular cleaning and mopping and canteen waste water.

E-Waste

E-waste collected at the site (Electronics, Electronics and communication and Biomedical engineering department) is transferred for recycling to the local vendors on yearly basis.

File Description	Document
Link for Additional Information	View Document

7.1.6 Rain water harvesting structures and utilization in the campus

Response:

The institution building was constructed in the year 1993-94. The concept of rainwater harvesting was introduced in 2010. However, students and staff are sensitized on contributing towards the importance of water conservation and reducing water wastage through displaying presentations and posters on notice boards.

Brihanmumbai Mahanagar Palika supply water to our institute, which is stored in underground and overhead tanks. Water is transferred to the overhead tanks under control, thereby minimizing its wastage. This water is used for all the purposes such as drinking, in cafeteria and in washrooms for utility purpose. Water purifiers are installed on every floor to provide filtered and purified water for drinking purpose.

File Description	Document
Any additional information	[View Document](#)

7.1.7 Green Practices
- **Students, staff using**
a) **Bicycles**
b) **Public Transport**
c) **Pedestrian friendly roads**
- **Plastic-free campus**
- **Paperless office**
- **Green landscaping with trees and plants**

Response:

Green Practices on Campus

1. In a metro city like Mumbai our college has a very well planned six storied building with large windowpanes for ample of natural light and ventilation.
2. All the electric lights bulbs are replaced by LEDs saving the overall electric consumption.
3. Air conditions are set at 24 degree Celsius to help conserve the energy.
4. Campus is wifi enabled with hi speed internet facility.
5. Use of Student portal (previously Blackboard) and SAP system serves as an effective, fast and paperless communication channel. Majority of our students and staff members use public transport for commuting from their residence to the college and back home. Vile Parle and Andheri local western railway train stations and D N Nagar Mumbai Metro stations are within 2 Kms distance and can easily be accessed. At the gate, there are bus stops which ply to various location in Mumbai being in the prime location in suburbs. Survey in this regards was carried out which is attached. Around ninety five percent of the students and staff use metro and local railway to commute to the college.
6. Students and staff members use shared auto rickshaw to commute to the nearest railway station.
7. Office waste paper and examination papers are regularly shredded avoiding huge dry waste getting mixed with wet waste and further reducing the burden on corporation for waste disposal.
8. Waste paper in the college is shredded using paper shredder machine periodically.
9. DJSCE NSS is actively and regularly involved in various awareness programs. Through NSS, the institution has organized activities such as Swachh Bharat Abhiyan, Tree plantation drives and Beach clean-up every year to spread the concept of sustainable development and the importance of environment management and conservation. Practice of giving out and planting pots & saplings as souvenirs at various college events is also followed regularly.
10. As a part of SAE student chapter project, students & faculty members of Department of Mechanical and Production Engineering Department have designed solar products like solar car, solar tricycle and battery operated motorbike to promote the use of solar energy and discourage use of gasoline based fuels.
11. Our College canteen is striving towards a plastic free environment. All the plastic tea / coffee cups have been replaced by paper cups.
12. NSS unit of our college has registered under "The Green Army" of the Government of

Maharashtra.

Paperless office

Most of the administrative work carried out is paperless except the documents like statutory approvals, agreements, account statements and others dealing with legal matters, which are electronically documented. All communications to faculty members and students are through e-mails. Notices, assignments, study material, quizzes, results, etc. are posted to the students on the student portal. Notices, announcements, any other information are communicated to the staff members online and their salary slips are sent through email on the official outlook account of individual staff.

Pedestrian friendly roads:

Many students use the skywalk, which is 5 minutes away from the college campus to the nearby Vile Parle railway station.

File Description	Document
Link for Additional Information	View Document

7.1.8 Average percentage expenditure on green initiatives and waste management excluding salary component during the last five years

Response: 0

7.1.8.1 Total expenditure on green initiatives and waste management excluding salary component year-wise during the last five years(INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	0	0	0

File Description	Document
Green audit report	View Document
Details of expenditure on green initiatives and waste management during the last five years	View Document

7.1.9 Differently abled (Divyangjan) Friendliness Resources available in the institution:

1. **Physical facilities**
2. **Provision for lift**
3. **Ramp / Rails**

4.Braille Software/facilities

5.Rest Rooms

6.Scribes for examination

7.Special skill development for differently abled students

8.Any other similar facility (Specify)

A. 7 and more of the above

B. At least 6 of the above

C. At least 4 of the above

D. At least 2 of the above

Response: B. At least 6 of the above

File Description	Document
Resources available in the institution for Divyangjan	[View Document](#)
Any additional information	[View Document](#)
link to photos and videos of facilities for Divyangjan	[View Document](#)

7.1.10 Number of Specific initiatives to address locational advantages and disadvantages during the last five years

Response: 5

7.1.10.1 Number of specific initiatives to address locational advantages and disadvantages year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
2	1	1	0	1

File Description	Document
Number of Specific initiatives to address locational advantages and disadvantages	[View Document](#)
Any additional information	[View Document](#)

7.1.11 Number of initiatives taken to engage with and contribute to local community during the last

five years (Not addressed elsewhere)

Response: 5

7.1.11.1 Number of initiatives taken to engage with and contribute to local community year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
1	1	1	1	1

File Description	Document
Report of the event	[View Document](#)

7.1.12
Code of conduct handbook exists for students, teachers, governing body, administration including Vice Chancellor / Director / Principal /Officials and support staff

Response: Yes

File Description	Document
Any additional information	[View Document](#)

7.1.13 Display of core values in the institution and on its website

Response: Yes

File Description	Document
Provide URL of website that displays core values	[View Document](#)

7.1.14 The institution plans and organizes appropriate activities to increase consciousness about national identities and symbols; Fundamental Duties and Rights of Indian citizens and other constitutional obligations

Response: Yes

File Description	Document
Details of activities organized to increase consciousness about national identities and symbols	[View Document](#)
Any additional information	[View Document](#)

01-10-2019 10:56:57

7.1.15 The institution offers a course on Human Values and professional ethics

Response: Yes

File Description	Document
Any additional information	[View Document]
Provide link to Courses on Human Values and professional ethics on Institutional website	[View Document]

7.1.16 The institution functioning is as per professional code of prescribed / suggested by statutory bodies / regulatory authorities for different professions

Response: Yes

File Description	Document
Any additional information	[View Document]
Provide URL of supporting documents to prove institution functions as per professional code	[View Document]

7.1.17 Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties during the last five years

Response: 70

7.1.17.1 Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
16	17	12	15	10

File Description	Document
List of activities conducted for promotion of universal values	[View Document]
Any additional information	[View Document]

7.1.18 Institution organizes national festivals and birth / death anniversaries of the great Indian personalities

Response:

DJSCE celebrates birth anniversaries and memorials of great Indian personalities like Sarvepalli Radhakrishnan and others as well as various national festivals with great fervor.

Teachers' Day is celebrated on September 5 every year to honour Dr Sarvepalli Radhakrishnan as it is his birth anniversary. DJSCE celebrates by giving away the 'Best Teacher's Award to the deserving faculty. The students organize a cultural programme for the teachers and the Guru-Shishya parampara is celebrated by wishing teachers accompanied with flowers and greeting cards.

Marathi Bhasha Diwas is celebrated by the DJSCE staff and students on every 27 February to commemorate the birth anniversary of the eminent Marathi poet, playwright, novelist 'Kusumagraj', V.V. Shirwadkar.Various facets of Marathi language are showcased in the form of drama, singing events etc.

Vijayadashami also known as Dusshera, is a major Hindu festival celebrated at the end of Navratri every year. Dusshera puja is organized every year in the institute. It is followed by refreshments and Garba dance.

Satyanarayan Puja is organized in the month of January every year in the institute to invoke blessings of the almighty. The **Satyanarayan Puja** is a religious worship. Satya means "truth" and Narayana means "The highest being", so Satyanarayan means "The highest being who is an embodiment of Truth". This puja is performed for the divine blessings of health, wealth, prosperity, opulence, education; relief from troubles and sickness. It can also be performed because of success in business or career growth; during social functions like marriages, house-warming ceremonies, naming of the children and so on. After the puja, DJSCE organizes lunch followed by a cultural program.

NSS Day was celebrated on 24th September, in which the various events were organized in the college comprising of the poster making completion, followed by the cleanliness drive in the entire college campus along with a street play competition organized by the NSS Society.

File Description	Document
Any additional information	[View Document](#)

7.1.19 The institution maintains complete transparency in its financial, academic, administrative and auxiliary functions

Response:

Our Institute conducts all the functions in such a way that substantive and procedural information is available to, and broadly understandable by, people and groups in society, subject to reasonable limits protecting security and privacy. The financial, academic, administrative and auxiliary functions are maintained with complete transparency in various aspects. To ensure that the college operates transparently and openly in all activities, the institution develops and updates policies.

The Institution strictly follows the rules and regulations of the University of Mumbai. Thus the regulations, syllabus, previous year question papers and curriculum of all departments are uploaded on the website. Students (Alumni and current students) and industry experts are also involved in various Board Of studies /Academic Council as per university of Mumbai.

Financial Transparency.

- Budget and Financial Accounts viz. Income and expenditure and Balance sheet are prepared and same are approved by Local Managing Committee and Governing Council.
- As per provisions of Income Tax and directives of management Internal and Statutory Auditors are appointed with the scope of audit. The Statutory and Internal Audit are carried out on regular basis during the financial year. The observations, recommendations & suggestions given by the auditors are duly complied with.
- Tuition and Other fees are collected as approved and directives by the various Government Authorities, like Fee Regulatory Authority.
- The salary of staff members is directly transferred to respective bank accounts of staff members.
- Statutory dues such as TDS on Salary, Professional Tax, Employees Provident Fund and TDS on contractors, professional and rent etc. are met with the due date**.**

Academic transparency

- The regulations, syllabus and curriculum are uploaded in the website including question paper.
- The rules and regulations are made clear, and this is available as part of online System for revaluation of answer scripts is in place.
- Student involvement in BoS (DAB) /Academic Council as per UOM**.**
- Orientation and induction programmes are organized for students of every semester, wherein academic rules and regulations are clearly mentioned.
- Lectures and practical monitoring committee is formed to ensure proper execution of academic functions.
- Unfair Means Committee is formed to handle copy cases during exams and reported as per University norms.
- Exam results are made available on SAP and Transcripts format for each branch are available on the college website.

Administrative transparency

- Recruitment of faculty and all necessary procedures are practiced as per the guidelines given by higher education department, University & UGC.
- The internal promotion policy is transparent and faculty members are shown the marks they have scored during the promotion process.
- The appraisal system is transparent and individual faculty members submit their self-appraisal.
- In case of disciplinary issues, committees are formed, concerned individuals are given ample opportunities to state their version of the issue and impartial investigation is then made.
- Suggestion boxes are placed at various locations.
- Various policies like sponsorship for STTP, conference sponsorship and medical insurance, and various allowance (LTC) policies are in place and can be availed by the faculty members.

7.2 Best Practices

7.2.1 Describe at least two institutional best practices (as per NAAC Format)

Response:

1. Best Practice

Title of the Practice:

1. Activity Based Learning process

Objectives of the Practice:

Constitution of Professional Student Chapters: Bridging the gap in the curriculum through various activities/events as well as value added programmes under the ambit of 10 student chapters of professional bodies across all eight programmes of engineering has been one of the best practices, as it interjects rigor into the curriculum by developing further thinking and problem-solving skills. The exemplary nature of this practice has been validated by its success over the past two decades. Co-curricular activities based learning, aided by this practice helps in realizing knowledge, application and skill based understanding through activities like Automobile Design and Manufacturing, Hackathon, Workshops, Hands-on Training, Robotics, Project Competitions and Technical Paper Presentations etc. Each programme has at least one student chapter under its ambit, which conducts additional workshop/training programmes, guest lectures by industrial experts & eminent professors, industrial visits and technical paper presentations. Towards this end, every programme takes pride in empowering the students through 'Activity Based Learning'.

These student chapters of eight programmes of engineering are listed below:

1.Department of Mechanical Engineering –

   (i) Society of Automotive Engineers (SAE)

   (ii) Indian Society of Heating, Refrigeration and Air-Conditioning Engineers (ISHRAE)

   (iii) Robotics and Automation Society (RAS)

2. Department of Production Engineering -

Indian Society of Manufacturing Engineers (ISME)

3. Department of Biomedical Engineering –

Pacemaker

4. Department of Chemical Engineering –

 Indian Institute of Chemical Engineers (IIChE)

5. Department of Computer Engineering –

Association for Computing Machinery (ACM)

6. Department of Electronics Engineering –

Institute of Electrical and Electronics Engineers (IEEE)

7. Department of Electronics and Telecommunication Engineering –

Institution of Electronics and Telecommunication Engineers (IETE)

8. Department of Information Technology –

Computer Society of India (CSI)

The above mentioned student chapter activities have been described as per the attached link/document.

2. Title of the Practice:

Soft Skills training

Objectives of the Practice

In order to make the technical skills of engineers valuable and productive, certain soft skills are required in most of the jobs today. Hard skills may look impressive on the resume, but the soft skills sets them apart from the rest of the candidates having similar technical knowledge.

Soft skills and competencies in communication are generally considered "21st Century Skills" and are imparted to the students through subjects like, Communication Skills and Business Communication & Ethics subjects in Sem II and Sem V across all programmes. However, considering the growing need for good interpersonal skills, additional Soft Skills training is imparted to students by the institute in the 1st year (Foundation course), 2nd year (Personality development) and 3rd Year (Pre-placement package), so as to provide them with ample of opportunities to continuously improve their interpersonal skills. This helps students in securing internship and job opportunities in various companies in India and abroad as well as in securing admission in highly reputed higher education institutions.

The main objective of Soft Skills training is to develop awareness about the importance of interpersonal skills, which include a wide spectrum of personal traits and abilities including trustworthiness, adaptability, personal integrity, leadership, time management, attitude, team building and influencing skills, etc. The contemporary workplace demands skills such as listening, collaborating with others, presenting ideas and communicating with team members. One is also required to provide customer services efficiently and effectively to run business successfully. Thanks to the cutting-edge technologies, tasks that require hard skills are continuing to decline, making soft skills key differentiators at the workplace. Automation and artificial intelligence will also result in a greater proportion of jobs relying on soft skills in the future. Strong soft skills ensure a productive, collaborative and healthy work environment, all vital attributes for

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organisations in an increasingly competitive world.

Technical skills aren't difficult to acquire. They can be taught, learned and perfected over a period of time. Soft skills are more challenging to imbibe as they are linked with an individual's natural traits and values. It requires people to change their communication styles and habits that have been developed over a lifetime. It takes conscious efforts, ongoing practice and a commitment to self-development to improve one's soft skills. Hence, designing the contents of the sessions interspersed with their core subjects in the course of their 4 years engineering program is challenging. This is, because the content has to be designed catering to the diverse needs and concerns of each student. One of the greatest concerns, when implementing a training activity is the evaluation system. Determining, whether students have successfully learned or not and whether that, which has been learnt is directly applicable to their future work positions or not, is essential for those, who invest their time in training. The challenge is to incorporate a system that is able to show the degree of learning of the participants, without necessarily implying a classic "test" or "exam". People who take up training, do so in order to learn new knowledge and skills; and hence establishing the extent of success of the training program at an individual level has to be addressed. Considering these aspects, emphasis is also laid on practical learning through team based activities. Providing in-depth feedback on the interpersonal and behavioral aspects, which were displayed in the course of these activities, provide for a continual and practical learning experience.

In view of the above reasons, soft skills are increasingly sought out by employers in addition to standard qualifications. Realizing this vital need, our institute has been ensuring that the soft skills training is taken up in a sustained manner for the maximum benefit of our students.

File Description	Document
Any additional information	[View Document](#)

7.3 Institutional Distinctiveness

7.3.1 Describe/Explain the performance of the institution in one area distinctive to its vision, priority and thrust

Response:

VISION:

'Dwarkadas J. Sanghvi College of Engineering strives to be a world class institution for education, training and research in engineering, inculcating values and skills for sustainable development of the society'.

Our institute, "Dwarkadas J. Sanghvi College of Engineering", is located at Vile Parle West, Mumbai. The college was started in the year 1994 with 4 programmes in Engineering, and later on, in the year 1999 and 2000, 3 programmes were added. As part of our academics and administration, we have been able to position the Teaching-Learning process at the center of our day to day activities, so as to provide maximum value to all the stakeholders, especially the students. We have been able to get our courses permanently affiliated to the University of Mumbai in the year 2017. During the last few years, fresh courses, such as Mechanical engineering was started in the college and the overall intake in the First year

of Undergraduate courses was increased from 360 to 630 over a period, ranging from the year 2010 to 2012. 3 M. E. and 3 Ph.D. programmes were also started during the years from 2011 to 2014.

In order to ensure that the institute progresses towards achieving its vision of being a world class institution, the following aspects are pursued in a sustained manner.

Research capabilities of our students are being nurtured through our regular internal online publication, called "Technofocus", Journal for Budding Engineers. Research opportunities are also very strongly promoted among our Post-graduate and Ph.D. students in a sustained manner.

In order to raise the level of our programmes to world class standards, we got all our undergraduate programmes accredited by the National Board of Accreditation (NBA) in 2 consecutive cycles so far. Recently, all the 8 programmes were accredited in the 2nd cycle with the validity upto July 2021.

SAP ERP System is implemented since Oct 2010 to deal with various organisational functions such as:

1. SAP Human Resource Management- Administration

2. SAP Materials Management - Planning and Development

3. SAP Finance and Funds Management -Finance and Accounts

4. SAP Project Management- Planning and Development

5. SAP SLCM (Student Life Cycle Management) - Student Admission and support.

The SAP system plays an important role in the teaching and learning process. Blackboard - (Learning management system) integrated with SAP as well as Blackboard - Android Application form a virtual interface between the teachers and the students. These applications were further enhanced in 2018 and the teachers now interact with the students over the Student Portal, developed in-house.

The college is also a remote centre of IIT Bombay, ensuring that additional online training and workshops are conducted for improving the Teaching-Learning process.

Additionally, various activities of students' chapters of IEEE, CSI, ISME, IETE, IEEE, ACM, SAE India, RAS, ISHRAE and Pacemaker as well as 4 professional clubs make DJSCE a very vibrant place for learning.

In addition to all the student chapters and 4 clubs, the NSS unit of Mumbai University adds value to student activities, ensuring them good exposure. NSS unit of the college has the record of the highest collection of blood bottles (in numbers during camps- year after year: recognized by the UOM) from amongst all University colleges.

As a result of these initiatives, the institute has been regularly securing first position in the University of Mumbai examinations in the overall passing percentage in the First year of engineering results year after year. Students of the college, continue to bag top positions in the merit list - retaining the status of the college amongst Maharashtra's premier colleges.

We have always been able to place 100% of needy students in the Campus placement process with many getting 2-3 jobs. The College has always been able to attract various reputed recruiters. In the year 2017-18, 79 recruiters visited the campus. Some of our eminent recruiters are: TCS Ltd., Amdocs Ltd., L & T, Oracle, BNP Paribas, Revcontent, Morgan Stanley, J.P. Morgan Chase, GEP, ATOS origin Ltd., E&Y, PWC, Fractal Analytics, ZS Associates, Infosys, L&T Infotech, L&T Tech Services, Reliance Industries Ltd., Reliance Petrochemicals, Reliance JIO, HUL, Siemens Ltd., Mahindra & Mahindra, BOSCH, Nerolac Paints, TechnimontICB Pvt Ltd., Tata Projects and VCA Wabag.

Our institute has been consistently rated amongst the top 100 institutions of our country year after year by various ranking agencies. Some of our institution's achievements in terms of rankings in the current year are as follows:

The National Institutional Ranking Framework (NIRF) has ranked DJSCE 195th in the India Rankings 2019 in the Engineering Category.

India Today-MDRA has ranked DJSCE in the Elite list of Top 10 Private Engineering Colleges in the country. DJSCE is also ranked as the number 1 college in the western region as well as 9th in the list of colleges, offering best average salary.

India Today-MDRA has ranked DJSCE as the 2nd Best Private Engineering College in the West Zone of India. The College was also ranked 11th amongst the Top 165 Private Engineering Colleges in the Country.

Outlook India – Drshti Survey 2018 has ranked DJSCE 26th amongst the Top 100 Engineering Colleges of India. The college is also ranked 5th in the West Zone and 12th amongst the Top 20 Private Engineering Colleges in the country.

CSR–GHRDC (Competition Success Review – Global Human Resource Development Centre 2018) Survey has ranked DJSCE 3rd in Maharashtra and 19th in the Top Engineering Colleges of Eminence in India. The college is also ranked 6th in the West Zone "The Week" has ranked DJSCE 83rd amongst the Top 122 Engineering Colleges of India, 34th amongst the Top 147 Private Engineering colleges of India and 7th amongst the Top 17 Private Engineering Colleges in the West zone.

Thus, students passing out of the college are guided and trained to reach the best higher education institute in India and abroad. The college has a record number of students in prestigious high ranking institutions in the world, doing their post-graduate and Ph.D. studies as well as thriving in their professional career.

File Description	Document
Any additional information	[View Document](#)

5. CONCLUSION

Additional Information :

In today's intensely competitive scenario, prospective employers expect employees to deliver from First Day First Hour. Recognizing this fact, SVKM's DJSCE once again reiterates its commitment to create Engineers of the highest calibre. In a country that produces approximately 10.5 lakh Engineers each year, it is our Mandal's commitment to ensure that our Engineering students as they cross the threshold of our institute are absolutely industry ready. Since the year 1994, the College has proven itself to be one of the best institutes in the state and this is abundantly reflected in the success of its students in academics; in securing admissions to top universities in India and abroad as well as in securing placements in national and globally competent multinational companies. Students of the college, continue to bag top positions in the merit list - retaining the status of the college amongst Maharashtra's premier colleges. The college is consistently rated amongst the top two colleges (often achieving first position) in the academic results at the 1st year examinations (Sem. I & II) of the University of Mumbai.

The College has always been able to attract various reputed recruiters for campus placement. Some of our eminent recruiters are: Amazon, Browser Stack, GE, Morgan Stanley, J.P. Morgan Chase, PWC, BOSCH, Directi, ZS Associates, Amdocs Ltd., Oracle, BNP Paribas, Godrej and Boyce Ltd., Deloittee, E&Y, and Blue Star etc.

Additionally, various active students' chapters of IEEE, IIChE, CSI, ISME, IETE, BMSE, ACM, SAE India, RAS and ISHARE make DJSCE a very vibrant place for learning. In addition, four different students' clubs and the NSS unit of the college add value to student activities, ensuring good exposure. Various professional events like conferences, faculty training & development programmes, workshops, seminars and other value added programs are organized continuously to enrich teaching-learning environment at the College. The Innovation centre of the college and the in-house technical journal support faculty and students in coming up with quality research publications and novel projects. The E-cell of the college promotes entrepreneurial skills and initiatives amongst the students through various events.

Concluding Remarks :

The institute actively promotes the culture of participative management in various academic as well as administrative activities. In order to ensure smooth day to day functioning of various departments and sections in the college, various committees are formed, keeping in mind the organization and governance structure. To see the organizational structure that enables participative management in decision making, kindly click the link **http://djsce.ac.in/NAAC/conclusion.pdf**

6.ANNEXURE

1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification
1.2.2	Percentage of programs in which Choice Based Credit System (CBCS)/Elective course system has been implemented 1.2.2.1. Number of programmes in which CBCS/ Elective course system implemented. Answer before DVV Verification : 14 Answer after DVV Verification: 14
2.1.3	Average percentage of seats filled against seats reserved for various categories as per applicable reservation policy during the last five years 2.1.3.1. Number of actual students admitted from the reserved categories year-wise during the last five years Answer before DVV Verification: <table><tr><td>2017-18</td><td>2016-17</td><td>2015-16</td><td>2014-15</td><td>2013-14</td></tr><tr><td>334</td><td>323</td><td>312</td><td>314</td><td>304</td></tr></table> Answer After DVV Verification : <table><tr><td>2017-18</td><td>2016-17</td><td>2015-16</td><td>2014-15</td><td>2013-14</td></tr><tr><td>334</td><td>323</td><td>312</td><td>314</td><td>304</td></tr></table>
4.1.4	Average percentage of budget allocation, excluding salary for infrastructure augmentation during the last five years. 4.1.4.1. Budget allocation for infrastructure augmentation, excluding salary year-wise during the last five years (INR in Lakhs) Answer before DVV Verification: <table><tr><td>2017-18</td><td>2016-17</td><td>2015-16</td><td>2014-15</td><td>2013-14</td></tr><tr><td>3156.67</td><td>3281.50</td><td>1856.80</td><td>1533.50</td><td>1502.50</td></tr></table> Answer After DVV Verification : <table><tr><td>2017-18</td><td>2016-17</td><td>2015-16</td><td>2014-15</td><td>2013-14</td></tr><tr><td>400</td><td>390</td><td>565</td><td>426</td><td>150</td></tr></table> Remark : Based on Audited Statement: Total Expenditure is split into 2017-18 - 12.4 Cr (4 Cr + 8 CR) (Infra Aug + Infra maintenance). Similarly for other years based on Schedule B or B+D - Admin Expenses for all years
4.2.4	Average annual expenditure for purchase of books and journals during the last five years (INR in

Lakhs)

4.2.4.1. Annual expenditure for purchase of books and journals year-wise during the last five years (INR in Lakhs)

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
585286.00	999999	868255.00	965683.80	638955.00

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
5.85286	10.20245	8.68255	9.65683	6.38955

4.4.1

Average Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, as a percentage during the last five years

4.4.1.1. Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component year-wise during the last five years (INR in Lakhs)

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
870.94	869.89	693.11	584.61	400.60

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
870.94	869.89	435	584.61	100

Remark : Same as the explanation provided in 4.1.4

7.1.8

Average percentage expenditure on green initiatives and waste management excluding salary component during the last five years

7.1.8.1. Total expenditure on green initiatives and waste management excluding salary component year-wise during the last five years(INR in Lakhs)

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
73.94	73.08	54.81	24.56	18.25

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	0	0	0

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	Remark : No expenses towards Green initiatives as per the P&L. Hence marking zero

2.Extended Profile Deviations

ID	Extended Questions
1.1	Number of courses offered by the institution across all programs during the last five years Answer before DVV Verification : 788 Answer after DVV Verification : 788
1.2	Number of programs offered year-wise for last five years Answer before DVV Verification:

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
14	14	14	14	14

Answer After DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
14	14	14	14	14

2.2	Total Expenditure excluding salary year-wise during the last five years (INR in Lakhs)

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
4069.19	4065.82	2606.72	2436.13	1983.91

Answer After DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
1280	1240	1220	1100	300

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