# Yearly Status Report - 2018-2019

| Part A | |
|---|---|
| **Data of the Institution** | |
| **1. Name of the Institution** | **SHRI VILE PARLE KELAVANI MANDAL'S DWARKADAS J. SANGHVI COLLEGE OF ENGINEERING** |
| Name of the head of the Institution | **HARI VASUDEVAN** |
| Designation | **Principal** |
| Does the Institution function from own campus | **Yes** |
| Phone no/Alternate Phone no. | **022-42335000** |
| Mobile no. | **9821464696** |
| Registered Email | **info@djsce.ac.in** |
| Alternate Email | **principal@djsce.ac.in** |
| Address | **Plot No. U-15, JVPD Scheme, Bhaktivedanta Swami Marg, Vile Parle-West** |
| City/Town | **Mumbai** |
| State/UT | **Maharashtra** |

| Pincode | 400056 |
| --- | --- |

## 2. Institutional Status

| Affiliated / Constituent | Affiliated |
| --- | --- |
| Type of Institution | Co-education |
| Location | Urban |
| Financial Status | private |
| Name of the IQAC co-ordinator/Director | Dr. Vijayakumar Kottur N |
| Phone no/Alternate Phone no. | 02242335032 |
| Mobile no. | 9869363683 |
| Registered Email | vijaykumar.kottur@djsce.ac.in |
| Alternate Email | kotturvijaykumar@gmail.com |

## 3. Website Address

| Web-link of the AQAR: (Previous Academic Year) | http://www.djsce.ac.in/Common/Uploads/ContentTemplate/171_Down_AQAR%2017-18%20Declaration.pdf |
| --- | --- |

| **4. Whether Academic Calendar prepared during the year** | Yes |
| --- | --- |
| if yes,whether it is uploaded in the institutional website: Weblink : | http://www.djsce.ac.in/Common/Uploads/ContentTemplate/155_Down_Academic%20Calendar%20-%20Even%20Sem%20-%202019-20-%20Student.pdf |

## 5. Accrediation Details

| Cycle | Grade | CGPA | Year of Accrediation | Validity | |
| --- | --- | --- | --- | --- | --- |
| | | | | Period From | Period To |
| 1 | A | 3.18 | 2019 | 18-Oct-2019 | 17-Oct-2024 |

| **6. Date of Establishment of IQAC** | 13-Jul-2015 |
| --- | --- |

**7. Internal Quality Assurance System**

| Quality initiatives by IQAC during the year for promoting quality culture | | |
| --- | --- | --- |
| Item /Title of the quality initiative by IQAC | Date & Duration | Number of participants/ beneficiaries |
| Session on preparing a research proposal and travel grant | 12-Sep-2018 1 | 25 |
| Session for training students to participate in project competition | 03-Dec-2018 1 | 18 |
| Rankings such as NIRF and others | 04-May-2019 1 | 16 |
| Session conducted on assessment for learning on various performance indicators | 15-Jan-2019 1 | 84 |
| Academic Audit | 25-Mar-2019 7 | 150 |
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**8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.**

| Institution/Department/Faculty | Scheme | Funding Agency | Year of award with duration | Amount |
| --- | --- | --- | --- | --- |
| Dr. Vaibhavi Sonetha | Science Engineering Research Board | Department of Science & Technology | 2019 1091 | 900000 |
| D J S C E | Minor Research Grant | University of Mumbai | 2019 365 | 300000 |
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| | |
| --- | --- |
| **9. Whether composition of IQAC as per latest NAAC guidelines:** | Yes |
| Upload latest notification of formation of IQAC | View File |
| **10. Number of IQAC meetings held during the year :** | 2 |
| The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website | Yes |
| Upload the minutes of meeting and action taken report | View File |

| **11. Whether IQAC received funding from any of the funding agency to support its activities during the year?** | No |
|---|---|

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

Funding proposal CANSAT Project Competition • Initially the Student group discussed about the overall preparations required for participating in CANSAT competition. This includes cost for making the prototype, travelling and other expenses to incur while attending the competition if selected as well as the Visa fees. • Based on the overall cost of the project which include above mentioned expenditure, the proposal was submitted to SVKM management for approval. • Also, similar project funding proposal was prepared for applying to AICTE for student travel grant, and that was submitted subsequently. • After attending the competition, for reimbursement purpose, documentation for actual expenses incurred is prepared along with relevant proofs (bills), which was further submitted to the concerned department for further processing.

Funding proposal for Upgradation of Lab Through MODROB scheme of AICTE • The need for upgradation of the lab instruments was identified, with reference to the current measurement facility available in the department. • Since the department has research center (PhD) in EXTC Engineering with seven of faculty members pursuing their doctoral studies in antenna and microwave domain, application for MODROB for getting the funding for purchase of Vector Network Analyzer was considered. • The quotation for Vector Network Analyzer working up to frequency range of 16 GHz and beyond were sought and the same were uploaded on AICTE MODROB funding website. • The justification for required funding was provided with the details of the current laboratory infrastructure.

Workshop on Swayam NPTEL Faculty Development Programs • An awareness workshop about Swayam NPTEL Faculty Development Programs was organized on 10th August, 2018 for faculty members • Faculty members were briefed about the MOU between AICTE and NPTEL, which approves NPTEL online certification courses as Faculty Development Programme (FDP). • Faculty members were informed about the benefits of taking these courses. As the courses are online, they can be taken from anywhere across the country. • As NPTEL offers a wide variety of courses, faculty can also do courses from other discipline and the courses on/of cuttingedge technology like Deep learning, Block chain management etc. Faculty members were briefed how this initiative mentioning that they will be able to upgrade/refresh their knowledge more easily. • Prof. Ameya Kadam, who has completed one course and was topper in that course, shared his experience and highlighted the advantage of taking these courses from Faculty pint of view. • Faculty members were positive about enrolling and finishing these courses. Vice Principal Prof. (Dr.) Manali Godse suggested to all faculty members, to enroll for at least one course and complete the certification in the near future. After this session a total of 28 faculties enrolled for 109 different courses.

Setting up and process improvement of Racing Cars under SAE student chapter • The IQAC cell of D.J. Sanghvi played a critical role in the setting up and the process improvement of all the 8 automotive teams of the college under the SAE student chapter. Various steps undertaken by the Internal Quality Assurance Cell are- • Recruitment- The cell ensured streamlining the recruitment process for the automotive teams to ensure that the teams are able to extract the best of the talents in the pool. • Research- On the formation of teams, researching for the respecting fields was promoted and helped by the IQAC cell to enable teams to

have the best of the pre-processing knowledge at their hands. Teams were also made to participate in various quizzes organized by international bodies. • Competition Participation and Funding- The IQAC cell helped the teams in registration for the of competitions (local and abroad) and also provided them with financial support through the management. • Designing- The pre-manufacturing stage consisted of designing various components of the vehicle and its assembly and was improvised by the IQAC cell by arranging workshops on the various useful softwares. • Fabrication - The actual manufacturing process for the vehicles was eased by the IQAC cell by providing the teams with industry contacts. Also, the process parameters were set to ensure best quality at economical costs. • Testing - The manufactured vehicle was made to actually test on the testing grounds, which were in line with the actual competition tracks and this gave the teams the required confidence to perform at the highest level.

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

| Plan of Action | Achivements/Outcomes |
|---|---|
| Assessment and evaluation for "Teaching Learning" | Trained Staff members on various performance indicators covering all the 3 domains |
| Faculty development programme - Swayam NPTEL Courses | Many faculty members completed pertinent NPTEL courses with good score. |
| Proposed Funding for the CANSAT Competition | Funds Received from AICTE |
| Proposed funding for MODROB and Conference | Received AICTE funding for MODROB and Conference |
| Promotion of live ongoing projects on Racing Cars | 8 teams participated in different National & International Events and won prizes |
| Training teams to apply for NIRF and other surveys | Listed in top 200 colleges under NIRF Survey |
| Research Approval Committee (RAC) meetings & Annual Progress Seminar (APS) to monitor the progress of research scholars pursuing PG and PhD. | 6 monthly progress evaluvation is in place |
| Enhancement of Infrastructure facility in the college | Smart Boards purchased for every classrooms |
| Academic Audit to monitor course files including teaching plan, list of experiments, CO-PO attainment etc. | Academic Audit done regularly |
| [View File](#) | |

| **14. Whether AQAR was placed before statutory body ?** | Yes |
|---|---|

| Name of Statutory Body | Meeting Date |
| --- | --- |
| Governing Body | 11-Dec-2019 |

| | |
| --- | --- |
| **15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?** | **Yes** |
| Date of Visit | **25-Sep-2019** |
| **16. Whether institutional data submitted to AISHE:** | **Yes** |
| Year of Submission | **2020** |
| Date of Submission | **21-Jan-2020** |
| **17. Does the Institution have Management Information System ?** | **Yes** |
| If yes, give a brief descripiton and a list of modules currently operational (maximum 500 words) | **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 support and Examination Results The main wheel of DJSCE is the SAP system, which provides integrated solutions and support not only for academic services, but also for student lifecycle management, financials, operations, human capital management, procurement and asset management. 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 Email. Hence, SAP system serves as an effective, fast and paperless communication channel. Exam results are made also available on SAP. The SAP system plays an important role in the teaching and learning process. Student Portal (Learning management system) integrated with SAP as well as** |

Student Portal 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, which is developed inhouse.

## Part B

## CRITERION I – CURRICULAR ASPECTS

### 1.1 – Curriculum Planning and Implementation

1.1.1 – Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

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/cocurricular 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 advises 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 • Technical Writing

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

| Certificate | Diploma Courses | Dates of Introduction | Duration | Focus on employ ability/entrepreneurship | Skill Development |
|---|---|---|---|---|---|
| Artificial Intelligence Machine Vision Workshop | | 26/01/2019 | 4 | In area of Artificial Intelligence | Python Programming Nueral Network Analysis |
| Android Development | | 28/01/2019 | 2 | Communication | Android app development |
| One week training on ANSYS | | 10/09/2018 | 5 | Modelling and Simulation | Design and Analysis |
| Augmented Reality | | 30/01/2019 | 2 | Augmented Reality | Graphics |
| A Two day hands on training workshop on STM 32 | | 20/10/2018 | 2 | Automation | Controller Programming |
| Two day workshop on CNC Machining and Machining Fabrication, L T, Madh | | 22/09/2018 | 2 | Training on Machining and Fabrication | Manufacturin g Technology |
| Alchemie 2019 | | 21/03/2019 | 2 | Chemical Engineering | Chemical Technology |
| Workshop on KiCAD Open source tool- skill development in PCB layout to fabrication | | 12/07/2018 | 7 | Training on PCB design | PCB Design Fabrication Technology |
| Machine Learning Workshop | | 05/03/2019 | 5 | Machine Learning area | Machine Learning libraries in Python |
| Training Program on MATLAB mechanical application | | 21/09/2018 | 4 | Mathematical Modelling | MATLAB Programming |

| | | | | |
|---|---|---|---|---|
| conducted by Dr.Suhas Deshmukh ,IoT Mechatronic Technologies Private limited. | | | | |
| AERO MODELLING workshop conducted by DJS SKYLASK and SAE | 29/09/2018 | 4 | Aerospace Engineering | Design and Analysis |
| Work shop on DRONE conducted by DJS KARTING and DJS PHOENIX in association with Edutronics | 20/09/2018 | 2 | Surveillance and Defence | Design and Analysis |
| One day Workshop on emerging wireless technology | 30/01/2019 | 1 | Wireless technologies | Networking |
| Workshop on Internet of things | 16/01/2019 | 3 | IoT | Networking |
| Ansys Software training | 11/08/2018 | 20 | Modelling and Simulation | Design and Analysis |
| Future of Medical imaging | 23/07/2018 | 3 | Training of Imaging Modalities | Knowledge of Imaging Modalities |
| Biomedical Embedded System | 01/03/2019 | 2 | Designing of embedded systems | Design and Analysis |
| Proteus Software | 19/01/2019 | 1 | Designing of PCB boards | Design and Analysis |
| IoT Workshop | 16/01/2019 | 4 | Training of hardware, sensors embedded systems. IoT architechtur e challenges | Design and Analysis |
| Data Science | 21/09/2018 | 2 | Data Scientist | hadoop, Spark |
| Internet of Things | 28/09/2018 | 2 | network and sensor | applications of Rasberry |

| | | | | Pie in IoT |
|---|---|---|---|---|
| Natural Language Processing and Sentiment Analysis of Text 27.2.19 1 AI ML NLP, NLG Comp | 27/02/2019 | 1 | AI and ML | NLP, NLG |
| Blockchain Technology | 15/03/2019 | 1 | Information security | Blockchain methodology |
| R Programming | 21/01/2019 | 1 | Developer | R programming |
| Agile Programming | 12/02/2019 | 1 | Software Development Industry | Agile process development |
| Quantum Machine Learning | 02/04/2019 | 1 | Quantum Computing | Quantum Computing |

## 1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

| Programme/Course | Programme Specialization | Dates of Introduction |
|---|---|---|
| No Data Entered/Not Applicable !!! | | |
| View File | | |

1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

| Name of programmes adopting CBCS | Programme Specialization | Date of implementation of CBCS/Elective Course System |
|---|---|---|
| BE | Chemical Engineering | 09/07/2018 |
| BE | Electronics Engineering | 09/07/2018 |
| BE | Production Engineering | 09/07/2018 |
| BE | Biomedical Engineering | 09/07/2018 |
| BE | Computer Engineering | 09/07/2018 |
| BE | Electronics and Telecommunication Engineering | 09/07/2018 |
| BE | Information Technology | 09/07/2018 |
| BE | Mechanical Engineering | 09/07/2018 |
| ME | Electronics and Telecommunication Engineering (PG) | 09/07/2018 |
| ME | Computer Engineering (PG) | 09/07/2018 |
| ME | Mechanical (PG) Engineering | 09/07/2018 |

1.2.3 – Students enrolled in Certificate/ Diploma Courses introduced during the year

|  | Certificate | Diploma Course |
|---|---|---|
| Number of Students | **1554** | **0** |

## 1.3 – Curriculum Enrichment

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

| Value Added Courses | Date of Introduction | Number of Students Enrolled |
|---|---|---|
| **Ansys Software training** | **11/08/2018** | **26** |
| **Artificial Intelligence Machine Vision Workshop** | **26/01/2019** | **40** |
| **Android Development and Augmented Reality** | **28/01/2019** | **72** |
| **MATLAB mechanical application** | **21/09/2018** | **21** |
| **ANSYS** | **09/10/2018** | **5** |
| [View File](#) | | |

1.3.2 – Field Projects / Internships under taken during the year

| Project/Programme Title | Programme Specialization | No. of students enrolled for Field Projects / Internships |
|---|---|---|
| **BE** | **Mechanical Engineering** | **29** |
| **BE** | **Chemical Engineering** | **58** |
| **BE** | **Electronics Engineering** | **21** |
| **BE** | **Biomedical Engineering** | **48** |
| **BE** | **Production Engineering** | **40** |
| **BE** | **Electronics and Telecommunication Engineering** | **12** |
| **BE** | **Information Technology** | **46** |
| **BE** | **Computer Engineering** | **47** |
| [View File](#) | | |

## 1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

| Students | Yes |
|---|---|
| Teachers | Yes |
| Employers | Yes |
| Alumni | Yes |
| Parents | Yes |

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

| Feedback Obtained |
|---|
| **Stakeholder Feedback The institution collects feedback from various stakeholders (students, teachers, parents, alumni and employers). This feedback process is coordinated by a dedicated committee comprising of staff members. They collect and analyze the feedback and make suggestions to the management. Objective: The objective of this exercise is to correctly gauge the impact of** |

institution's performance on various stakeholders and use this feedback to ensure continuous improvement. The trends are generated using the feedback analysis. Based on the findings of the analysis, further course of action is determined by the feedback committee. Methodology: • Feedback is collected from students through Feedback Forms in the middle of the semester. • Parents feedback is collected, whenever as and when they are called for the Open House or parent meetings. • Alumni Feedback is collected primarily during the alumni meets. • Feedback is collected from the faculty during the annual appraisals. • Employer Feedback is collected through the placement cell of the college. • The feedback committee collects all the inputs and suggestions from the stakeholders, analyze the data, discuss the findings with the departments and college authorities to decide the further course of action. Analysis: The data collected is compiled and analyzed. The results are shared with the departments, management and governing body for further inputs and guidance as it is taken forward for implementation. General Action Plan based on the data collection and analysis: • Annual Feedback Analysis and Corrective Action Report are prepared. • Review meetings are held by the departments, management and governing body to discuss the findings and feasibility of implementing the suggestions made in the report. • Corrective actions are taken, improvements are made and additional activities are planned as necessary.

## CRITERION II – TEACHING- LEARNING AND EVALUATION

### 2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

| Name of the Programme | Programme Specialization | Number of seats available | Number of Application received | Students Enrolled |
|---|---|---|---|---|
| BE | Mechanical Engineering | 120 | 2214 | 126 |
| BE | Computer Engineering | 120 | 2214 | 127 |
| BE | Information Technology | 60 | 2214 | 63 |
| BE | Electronics & Telecommunication Engineering | 120 | 2214 | 126 |
| BE | Biomedical Engineering | 30 | 2214 | 32 |
| BE | Production Engineering | 60 | 2214 | 63 |
| BE | Electronics Engineering | 60 | 2214 | 63 |
| BE | Chemical Engineering | 60 | 2214 | 62 |
| [View File](#) | | | | |

### 2.2 – Catering to Student Diversity

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

| Year | Number of students enrolled in the institution (UG) | Number of students enrolled in the institution (PG) | Number of fulltime teachers available in the institution teaching only UG | Number of fulltime teachers available in the institution teaching only PG | Number of teachers teaching both UG and PG courses |
|---|---|---|---|---|---|

| | | | courses | courses | |
|---|---|---|---|---|---|
| 2018 | 2967 | 33 | 144 | 6 | 0 |

## 2.3 – Teaching - Learning Process

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

| Number of Teachers on Roll | Number of teachers using ICT (LMS, e-Resources) | ICT Tools and resources available | Number of ICT enabled Classrooms | Numberof smart classrooms | E-resources and techniques used |
|---|---|---|---|---|---|
| 150 | 150 | 17 | 33 | 33 | 29 |

View File of ICT Tools and resources

View File of E-resources and techniques used

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

Students mentoring system is available in DJSCE and the mentors are assigned to mentees in 1:20 ratio, approximately. Mentor is the first point of contact for every student to look upto, in case of any difficulty or issues faced by the students during their college life. Mentor has to ensure that the basic statutory needs of the mentees are fulfilled and that their teaching-learning process is maintained as per expected standards. Mentor conducts regular meetings with respective mentees to listen to their concerns about their social and personal life in the college. They share their achievements as well as their failures with mentor, who's duty is to provide counselling, wherever required and motivate students to pursue their short term and long term goals strongly. In case, if the mentee needs special attention for mental or physical health related issues, it is the responsibility of the mentor to first bring it to the notice of head of the department and to the mentee's parents, thereby guiding the mentee and his or her parents to specialist doctors available on campus, in case of emergency or for later treatments. Mentor is advised to take special care of weak students identified by the department on the basis on their Academic Performance, Communication and presentation skills (inadequate knowledge of English), Self Confidence, Lack of interest/motivation, interpersonal skills, etc. The LD PWD students require special attention and extra care and constant motivation as they face problems, while dealing with day to day activities during their college hours. They also need some psychological boost to sustain in the race. In order to cater to all these needs, mentor can request the concerned faculty member to conduct extra revision sessions for part of their course frequently. On the other hand, mentor has to be alert, while dealing with bright students, as they are always ahead of the average students of their class. They should be encouraged to showcase their talent by participation in various competitions, publishing their research work, taking up projects etc. Mentor also needs to keep record of all the achievements of bright students. Mentor has to keep track of academics of all the mentees throughout the four years of their program in the college.

| Number of students enrolled in the institution | Number of fulltime teachers | Mentor : Mentee Ratio |
|---|---|---|
| 3000 | 150 | 1:20 |

## 2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

| No. of sanctioned positions | No. of filled positions | Vacant positions | Positions filled during the current year | No. of faculty with Ph.D |
|---|---|---|---|---|
| 150 | 150 | 0 | 18 | 33 |

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

| Year of Award | Name of full time teachers receiving awards from state level, national level, international level | Designation | Name of the award, fellowship, received from Government or recognized bodies |
|---|---|---|---|
| 2019 | Dr. Hari Vasudevan | Principal | Academic Excellence as Principal By The |

| 2019 | Prof. Ramesh Rajguru | Assistant Professor | AVISHKAR ( RESEARCH COVENTION : 2019-20) Won at district Level and further entering the final round of the university level in the 14th Avishkar Research Cinvention 2019-20 organised by the University of Mumbai |
| 2019 | Prof. Vishakha Kelkar | Associate Professor | Instrumental role as SPOC for Swayam-NPTEL Local Chapter |
| 2019 | Prof. Ameya Arun Kadam | Assistant Professor | Role as Mentor for Online Certification offering course Analog Circuits |
| 2018 | Dr. Alpana Mahapatra | Professor | Pride of India Award |
| 2018 | Dr. Alpana Mahapatra | Professor | Bharat Jyoti Puraskar |
| 2018 | Prof E.Narayanan | Professor | Lifetime Achievement Award From Indian Plastic Institute |
| 2018 | Prof. Vishakha kelkar | Associate Professor | Instrumental role as SPOC for Swayam-NPTEL Local Chapter |

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## 2.5 – Evaluation Process and Reforms

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

| Programme Name | Programme Code | Semester/ year | Last date of the last semester-end/ year-end examination | Date of declaration of results of semester-end/ year- end examination |
| --- | --- | --- | --- | --- |
| BE | FE(ALL BRANCHES) | I | 27/12/2018 | 11/03/2019 |

[View File](#)

2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

As per the new revised scheme by the University of Mumbai, 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 those 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 term work. 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 and value added programs, etc. After the successful completion of the said programs the students are awarded with certificates.

2.5.3 – Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

Keeping in mind 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 in the calender. 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 all other 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 practicals to be performed during the semester (based on the time-table). Adherence to Academic Calendar Conduction of Internal Assessment (IA) examination. Term work evaluation components are Lab work, where the evaluation is carried out weekly through lab performance and journal assessments, assignment and tutorials etc., as per the schedule specified in the planner. Beyond syllabus activities, quiz or extra expert lectures seminars are also conducted to ensure that the current trends are tapped into. Adherence to the academic calendar is noted by HOD, 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.

## 2.6 – Student Performance and Learning Outcomes

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

http://www.djsce.ac.in/Common/Uploads/ContentTemplate/160_Down_DATA_LINK.pdf

2.6.2 – Pass percentage of students

| Programme | Programme | Programme | Number of | Number of | Pass Percentage |
|-----------|-----------|-----------|-----------|-----------|-----------------|

| Code | Name | Specialization | students appeared in the final year examination | students passed in final year examination | |
|------|------|----------------|------------------------------------------------|-------------------------------------------|------|
| M-CS | ME | Computer Engineering | 7 | 7 | 100 |
| M-EC | ME | Electronics and Telecommunication | 3 | 3 | 100 |
| ME | BE | Mechanical Engineering | 150 | 147 | 98.00 |
| CS | BE | Computer Engineering | 151 | 150 | 99.33 |
| IT | BE | Information Technology | 75 | 75 | 100 |
| EC | BE | Electronics and Telecommunication | 148 | 141 | 95.27 |
| BM | BE | Biomedical Engineering | 32 | 29 | 90.62 |
| PE | BE | Production Engineering | 40 | 37 | 92.50 |
| EX | BE | Electronics Engineering | 72 | 70 | 97.22 |
| CH | BE | Chemical Engineering | 78 | 78 | 100 |
| [View File](#) | | | | | |

## 2.7 – Student Satisfaction Survey

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

http://www.djsce.ac.in/Common/Uploads/TabbedContentTemplate/332_Download_SSR.pdf

# CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

## 3.1 – Resource Mobilization for Research

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

| Nature of the Project | Duration | Name of the funding agency | Total grant sanctioned | Amount received during the year |
|-----------------------|----------|----------------------------|------------------------|--------------------------------|
| Projects sponsored by the University | 365 | University of Mumbai | 3.85 | 2.2 |
| Industry sponsored Projects | 365 | Acmefil Engineering Systems Private Limited | 0.1 | 0.1 |
| Industry sponsored Projects | 730 | Yashraj Biotechnology Ltd | 0.5 | 0.25 |

| InternationalProjects | 365 | Shri Vile Parle Kelvani Mandal | 7.26 | 2.6 |
| --- | --- | --- | --- | --- |
| Any Other (Specify) | 365 | BAJA India Shri Vile Parle Kelavani Mandal | 30.5 | 30.5 |
| [View File](#) | | | | |

## 3.2 – Innovation Ecosystem

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

| Title of workshop/seminar | Name of the Dept. | Date |
| --- | --- | --- |
| DJASCII19 - Interstate Project Competition | Information Technology | 30/03/2019 |
| Brown Bag on the Art and Science of Problem Solving | Information Technology | 26/02/2019 |
| Augmented Reality | Information Technology | 30/01/2019 |
| Android Development | Information Technology | 28/01/2019 |
| TCS Mutual Funds Investor Program | Information Technology | 14/08/2018 |
| Seminar on Speech Processing | Electronics and Telecommunication Engineering | 08/03/2019 |
| MATLAB Workshop | Electronics and Telecommunication Engineering | 20/01/2019 |
| Aurduino Workshop | Electronics and Telecommunication Engineering | 24/01/2019 |
| Artificial Intelligence and Machine Vision Workshop | Electronics and Telecommunication Engineering | 03/02/2019 |
| Placement Guidance and CV Making Seminar | Electronics and Telecommunication Engineering | 28/01/2019 |
| PCB Designing Workshop | Electronics and Telecommunication Engineering | 02/03/2019 |
| STTP on Recent Trends in Wireless Network | Electronics and Telecommunication Engineering | 02/01/2019 |
| DJ Spark and D J Strike | Electronics and Telecommunication Engineering | 12/04/2019 |
| Lecture on DSP Processors | Electronics and Telecommunication Engineering | 21/09/2018 |
| Video Processing Using MATLAB | Electronics and Telecommunication Engineering | 30/08/2018 |

| | | |
|---|---|---|
| Guest Lecture on Architecture of Embedded System and Advnaced Debugging tools for Troubleshooting of embedded system | Electronics and Telecommunication Engineering | 26/09/2018 |
| Guest Lecture on Advancement of RADAR system and its potential Applications | Electronics and Telecommunication Engineering | 10/06/2018 |
| Workshop on BioKit by Mr. Satish Jadhav | Biomedical EngineeringBiomedical Engineering | 23/08/2019 |
| Webinar by Dr. Mehul Sampat on Project selection on Image Processing | Biomedical Engineering | 20/07/2019 |
| Guest lecture on IOT by Mr. Maneesh Adavade | Biomedical Engineering | 08/07/2019 |
| Guest lecture on project Guidance by Mr. Parth Bhatt | Biomedical Engineering | 09/07/2019 |
| Symposium 2019- Connecting Technology To Life | Biomedical Engineering | 25/03/2019 |
| Technical Quiz Competition- As a part of Symposium 2019 | Biomedical Engineering | 25/03/2019 |
| Poster Competition- as a part of Symposium 2019 | Biomedical Engineering | 25/03/2019 |
| Guest lecture on Linear Accelerators and Demonstration of Fluoroscopy Unit | Biomedical Engineering | 16/03/2019 |
| Two days' workshop on Biomedical Embedded System by Mr. Satish Jadhav of Biokit | Biomedical Engineering | 01/03/2019 |
| Guest lecture on Latest Technology in Biomedical and Opportunities of Higher Studies by Prof. Jaydev Dave, Thomas Jefferson University, Philadelphia | Biomedical Engineering | 27/02/2019 |
| Guest lecture on Basic Life support by Mr. Keyur Shah | Biomedical Engineering | 30/01/2019 |
| Workshop on Proteus Softwareby Mr.Hitanshu Shah and Mr.Yash Mewada | Biomedical Engineering | 19/01/2019 |

| Title | Department | Date |
|---|---|---|
| A workshop on Future of Medical imaging by SIEMENS ltd | Biomedical Engineering | 23/07/2019 |
| A guest lecture on Patents and Copyright by Adv Hersh Desai | Biomedical Engineering | 22/08/2018 |
| Demonstration on Ventilators by Team Maquet | Biomedical Engineering | 19/10/2018 |
| DJASCII19 - Interstate Project Competition | Computer Engineering | 30/03/2019 |
| FDP on Lateral Thinking | Computer Engineering | 12/02/2019 |
| R programming | Computer Engineering | 15/03/2019 |
| Agile programming | Computer Engineering | 12/01/2019 |
| Blockchain Technology | Computer Engineering | 21/01/2019 |
| FDP on Intellectual Property Rights | Computer Engineering | 04/01/2019 |
| Workshop on Data Science | Computer Engineering | 21/09/2018 |
| Workshop on IoT | Computer Engineering | 28/09/2018 |
| FDP on How to do Good Industrial Research | Computer Engineering | 24/08/2018 |
| Basics of Mechatronics and awareness on Six Sigma | Mechanical Engineering | 21/09/2018 |
| Desalination and water Treatment Technology | Chemical Engineering | 29/09/2018 |
| Safety Seminar( HAZOP) | Chemical Engineering | 16/03/2019 |
| Basics of Mechatronics and awareness on Six Sigma | Mechanical Engineering | 18/10/2018 |
| ALCHEMIE | Chemical Engineering | 29/03/2019 |

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

| Title of the innovation | Name of Awardee | Awarding Agency | Date of award | Category |
|---|---|---|---|---|
| India Innovation Challenge Design Contest 2018 | Dhara Patwa, Rushit Dantara, Satyendra Gupta, Sayli Shivalkar, Vama Sethia | DST Texas Instruments, | 13/12/2018 | Student |
| Young Researcher Award for paper titled Towards Developing a Secure and Ronust solution for E-Voting using Blockchain in | Harsh Jain | Fr. C. Rodrigues Institute of Technology, Vashi | 04/01/2019 | Student |

| 3rd Biennial International Conference on Nascent Technologies in Engineering | | | | |
|---|---|---|---|---|
| Best Paper Award for paper titled Towards Developing a Secure and Robust solution for E-Voting using Blockchain in 3rd Biennial International Conference on Nascent Technologies in Engineering | Harsh Jain | Fr. C. Rodrigues Institute of Technology, Vashi | 05/01/2019 | Student |
| Team sPYder - 1st Prize | Shreeya Agrawal, Pritalee Kadam, Farhan Kasmani, Harshita Khandelwal, Ajay Lad, Harsh Jain | Smart India Hackathon, MHRD, AICTE | 02/03/2019 | Student |
| 1st Prize for Project titled "Intelligent Form Reader" in State level project exhibition "DIPEX" | Prathamesh Mhapsekar, Mandar Mhapsekar and Aniket Mhatre | Maharashtras Center for Entrepreneurship Development, Nanded | 05/03/2019 | Student |
| Best Project Award for "Intelligent Form Reader" by Tata Consultancy Services | Prof. Vinaya Sawant, Mandar Mhapsekar, Prathamesh Mhapsekar, Aniket Mhatre | Tata Consultancy Services | 06/04/2019 | Faculty and Student |
| Best Paper Award for paper Twitter Analysis for Disaster Management in International Conference on Computing, Communication, Control and Automation | Bhavya Shah, Varun Agarwal, Utkarsh Dubey, Prof. Stevina Correia | Pimpri Chinchwad College of Engineering, Pune and IEEE Pune Section | 16/08/2018 | Faculty and Student |

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| --- | --- | --- | --- | --- | --- |

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

| Incubation Center | Name | Sponsored By | Name of the Start-up | Nature of Start-up | Date of Commencement |
| --- | --- | --- | --- | --- | --- |
| Entrepreneur ship celll | DJ E-cell | Dwarkadas J Sanghvi College of Engineering | Wearthreads | Recycled Tex tiles | 20/07/2018 |
| Entrepreneur ship cell | DJ E-cell | Dwarkadas J Sanghvi College of Engineering | CloFactory | Innovative Textiles | 16/10/2018 |
| | | View File | | | |

## 3.3 – Research Publications and Awards

**3.3.1 – Incentive to the teachers who receive recognition/awards**

| State | National | International |
| --- | --- | --- |
| 2 | 0 | 0 |

**3.3.2 – Ph. Ds awarded during the year (applicable for PG College, Research Center)**

| Name of the Department | Number of PhD's Awarded |
| --- | --- |
| Mechanical Engineering | 2 |

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

| Type | Department | Number of Publication | Average Impact Factor (if any) |
| --- | --- | --- | --- |
| International | Information Technology | 7 | 6.6 |
| International | Electronics and Telecommunication Engineering | 4 | 3.55 |
| International | Computer | 2 | 6.56 |
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**3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year**

| Department | Number of Publication |
| --- | --- |
| Computer Engineering | 18 |
| Production Engineering | 10 |
| Biomedical Engineering | 3 |
| Electronics and Telecommunication Engineering | 37 |
| Information Technology | 18 |
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**3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index**

| Title of the Paper | Name of Author | Title of journal | Year of publication | Citation Index | Institutional affiliation as mentioned in the publication | Number of citations excluding self citation |
|---|---|---|---|---|---|---|
| Analysis on Inject Vulnerabilities of Web Application | Dr.Narendra Shekokar Dr.Narendra Shekokar | Proceedings of International Conference on Wireless Communication | 2018 | 1 | Dwarkadas. J. Sanghvi College of Engineering | 1 |
| Design a Smart and Intelligent Routing Network Using Optimization Techniques | Lemos J.Y., Joshi A.R., D'souza M.M., D'souza A.D | Advances in Intelligent Systems and Computing, vol 839. Springer, Singapore | 2018 | 1 | Dwarkadas. J. Sanghvi College of Engineering | 1 |
| Sequentially Rotated Gap-coupled Variations of Plus shape Microstrip Antennas for Dual Band Circular Polarized Response | Dr. Amit A Deshmukh | International Journal of RF and Microwave Computer-Aided Engineering | 2018 | 2 | Dwarkadas. J. Sanghvi College of Engineering | 0 |
| | | | [View File](#) | | | |

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

| Title of the Paper | Name of Author | Title of journal | Year of publication | h-index | Number of citations excluding self citation | Institutional affiliation as mentioned in the publication |
|---|---|---|---|---|---|---|
| Analysis on Inject Vulnerabilities of Web Application | Dr.Narendra Shekokar Dr.Narendra Shekokar | Proceedings of International Conference on Wireless Communication | 2018 | 9 | 1 | Dwarkadas. J. Sanghvi College of Engineering |
| | | | [View File](#) | | | |

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

| Number of Faculty | International | National | State | Local |
|---|---|---|---|---|

| Attended/Seminars/Workshops | 2 | 20 | 3 | 205 |
|---|---|---|---|---|
| Presented papers | 50 | 0 | 0 | 0 |
| Resource persons | 5 | 1 | 0 | 25 |

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## 3.4 – Extension Activities

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

| Title of the activities | Organising unit/agency/ collaborating agency | Number of teachers participated in such activities | Number of students participated in such activities |
|---|---|---|---|
| Observance of International Yoga Day | DJSCE NSS, University of Mumbai | 1 | 75 |

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3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

| Name of the activity | Award/Recognition | Awarding Bodies | Number of students Benefited |
|---|---|---|---|
| DJSCOE CSI Chapter | Best Accredited Student Branch | Computer Society of India | 49 |

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3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

| Name of the scheme | Organising unit/Agency/collaborating agency | Name of the activity | Number of teachers participated in such activites | Number of students participated in such activites |
|---|---|---|---|---|
| SWACHH RALLY | DJSCE NSS | Swachh Bharat | 2 | 60 |
| Beach Clean Up | DJSCE NSS | Swachh Bharat | 2 | 73 |
| Newspaper collection drive | DJSCE NSS | Swachh Bharat | 2 | 70 |

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|---|

## 3.5 – Collaborations

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

| Nature of activity | Participant | Source of financial support | Duration |
|---|---|---|---|
| Research Project | Dr. Mrunal Rane, Mr.Jenil Mange, Mr. Suchit Chedda, Ms. Nisha Gandhi | Yashraj Biotechnology Ltd. | 730 |
| India Innovation Challenge Design Contest 2018 | Dhara Patwa, Rushit Dantara, Satyendra Gupta, Sayli Shivalkar, Vama | DST Texas Instruments | 395 |

| | Sethia | | | |
|---|---|---|---|---|

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3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

| Nature of linkage | Title of the linkage | Name of the partnering institution/ industry /research lab with contact details | Duration From | Duration To | Participant |
|---|---|---|---|---|---|
| Internship | Database Analysis | Vaisansar Technologies Pvt. Ltd | 10/06/2019 | 10/07/2019 | Bhavi Hitesh Modi |

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3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

| Organisation | Date of MoU signed | Purpose/Activities | Number of students/teachers participated under MoUs |
|---|---|---|---|
| IMS Learning Resources Pvt. Ltd. | 17/01/2019 | Seminar on higher education exams for 2nd and 3rd year IT students | 55 |
| Yashraj Biotechnology Limited | 25/09/2018 | Research Project | 4 |
| IEEE student chapter - DJSCE Endeavor Careers PVT LTD | 10/04/2019 | Sponsorship of events held by IEEE Chapter from 01 April 2019 - 31st March 2022 | 131 |
| IoT Mechatonics Technologies Private Limited | 11/09/2018 | To conduct Value Added Program on MATLAB mechanical application | 22 |

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# CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

## 4.1 – Physical Facilities

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

| Budget allocated for infrastructure augmentation | Budget utilized for infrastructure development |
|---|---|
| 400 | 367.15 |

4.1.2 – Details of augmentation in infrastructure facilities during the year

| Facilities | Existing or Newly Added |
|---|---|
| Campus Area | Existing |
| Class rooms | Existing |
| Seminar Halls | Existing |

| Laboratories | Existing |
|---|---|
| Classrooms with LCD facilities | Existing |
| Seminar halls with ICT facilities | Existing |
| Classrooms with Wi-Fi OR LAN | Existing |
| Number of important equipments purchased (Greater than 1-0 lakh) during the current year | Newly Added |
| Value of the equipment purchased during the year (rs. in lakhs) | Newly Added |
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### 4.2 – Library as a Learning Resource

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

| Name of the ILMS software | Nature of automation (fully or patially) | Version | Year of automation |
|---|---|---|---|
| KOHA | Fully | 16.11 | 2018 |

4.2.2 – Library Services

| Library Service Type | Existing | | Newly Added | | Total | |
|---|---|---|---|---|---|---|
| Text Books | 25370 | 10350027 | 214 | 125014 | 25584 | 10475041 |
| Reference Books | 2500 | 100000 | 6 | 51939 | 2506 | 151939 |
| Journals | 91 | 116319 | 0 | 0 | 91 | 116319 |
| e-Books | 52548 | 579200 | 761 | 205459 | 53309 | 784659 |
| e-Journals | 754 | 9285663 | 0 | 0 | 754 | 9285663 |
| Digital Database | 13 | 8933374 | 0 | 0 | 13 | 8933374 |
| CD & Video | 2737 | 0 | 1104 | 0 | 3841 | 0 |
| Library Automation | 1 | 147499 | 0 | 0 | 1 | 147499 |
| Others(spe cify) | 1 | 11160 | 0 | 0 | 1 | 11160 |
| Others(spe cify) | 1 | 9440 | 0 | 0 | 1 | 9440 |
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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

| Name of the Teacher | Name of the Module | Platform on which module is developed | Date of launching e-content |
|---|---|---|---|
| Prof.Naresh Afre | Laplace transform | Google Drive | 16/08/2019 |
| Prof.Amit Deshmukh | DIPOLE RADIATION PATTERN | You Tube | 30/05/2019 |
| Prof. Venkata | RF Filter Design | You Tube | 30/05/2019 |
| Prof. Arvind Prasad | COFE (Cape Open | You Tube | 08/03/2019 |

| | | | |
|---|---|---|---|
| | Flowsheet Environment) Process simulator | | |
| Prof.Pavan Rayar | Basics Of Pneumatics / Single And Double Acting Cylinders / 3/2 and 5/2 Valves | You Tube | 06/06/2018 |

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## 4.3 – IT Infrastructure

### 4.3.1 – Technology Upgradation (overall)

| Type | Total Computers | Computer Lab | Internet | Browsing centers | Computer Centers | Office | Departments | Available Bandwidth (MBPS/ GBPS) | Others |
|---|---|---|---|---|---|---|---|---|---|
| Existing | 811 | 18 | 5 | 811 | 2 | 32 | 749 | 200 | 0 |
| Added | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 811 | 18 | 5 | 811 | 2 | 32 | 749 | 200 | 0 |

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

**200 MBPS/ GBPS**

### 4.3.3 – Facility for e-content

| Name of the e-content development facility | Provide the link of the videos and media centre and recording facility |
|---|---|
| Google Classroom | https://classroom.google.com/c/MzMxNzQ2OTQzMjNa |
| Virtual Labs(Softwares) | http://www.djsce.ac.in/Common/Uploads/ContentTemplate/154_Down_virtual%20lab.pdf |
| Gate | http://ezproxy.svkm.ac.in:2463/gate/login |
| ASCE | https://ezproxy.svkm.ac.in:2262/ |
| NPTEL | http://ezproxy.svkm.ac.in:2207/nptel/ |
| Science Direct | https://ezproxy.svkm.ac.in:2054/user/chooseorg?targetURL=https%3A%2F%2Fwww.sciencedirect.com%2F |
| Springer | https://ezproxy.svkm.ac.in:2220/ |
| IEEE | https://ezproxy.svkm.ac.in:2142/Xplore/home.jsp |
| ASME | https://ezproxy.svkm.ac.in:2260/ |
| Mc Graw Hill | https://ezproxy.svkm.ac.in:2134/front?implicit-login=true |
| Pearson | https://ezproxy.svkm.ac.in:2087/auth/lib/mpstme/login.action?returnURL=https%3A%2F%2Febookcentral.proquest.com%2Flib%2Fmpstme%2Fbookshelf.action |

| | |
|---|---|
| PDF Drive | https://ezproxy.svkm.ac.in:2133/ |
| South Asia Archieve | http://ezproxy.svkm.ac.in:2210/ |
| World Ebook library | http://ezproxy.svkm.ac.in:2212/?AffiliateKey=NDL-PZ1764 |
| Unit operations Gate other aptitude test | https://www.unitoperation.com/ |

## 4.4 – Maintenance of Campus Infrastructure

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

| Assigned Budget on academic facilities | Expenditure incurred on maintenance of academic facilities | Assigned budget on physical facilities | Expenditure incurredon maintenance of physical facilites |
|---|---|---|---|
| 500 | 402.52 | 500 | 482.5 |

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

All these facilities are available to all the students and faculty members from morning 7 am to evening 6 pm. For the requirement of any equipment or instrument in the laboratory, the respective head of the department forwards the requisition to the Principal and after consulting the accounts department the requisition passes through and proceed for procurement. Students and faculty members can use the laboratories in the given time as per time table. Repair and maintenance is taken care by college central store and maintenance dept. Every 3 years, the equipments are upgraded. Library is open access and is open form 8.30 am to 6.30 pm. During the study leave before examination it is kept opened for extra hours. There is capacity of 180 students to sit and study inside library. 26 desktop computers are there for digital library usage. Each student can issue 3 text books for 7 days and faculty members can get 20 books for 3 months. Requirement for new books and e- books or any digital resources comes from students and faculty members as well. Librarians check the cost and the real demand of the requirements and forward to principal for approval. Purchase of books are done yearly 4 times and the other online resources and journals are subscribed yearly, once. There are boy's and girl's common room with indoor games facility. Students use it during free time. There is a well equipped gymnasium for students and faculty members in the college premise. This is kept opened morning from 6 to 11 am and evening from 4 to 10 pm. This is used by the members. Computers are provided to each faculty members and staff for academic and official work. Each laboratories are well equipped with latest version of desktop computers. Computers are updated with software required for a particular laboratory. All computers are connected with internet and attached with central server. Computers are maintained by an external agency under the annual maintenance contract. Students use the computers for their practical classes , projects and any other academic purpose during free time of the practical class. There are separate class rooms for each division of each branch. Classes are all air conditioned and wifi connected with smart board facility. Students of a particular division sit for lectures in a particular room through out the day.

http://www.djsce.ac.in/Common/Uploads/ContentTemplate/161_Down_facility%201.pdf

## CRITERION V – STUDENT SUPPORT AND PROGRESSION

## 5.1 – Student Support

5.1.1 – Scholarships and Financial Support

| | Name/Title of the scheme | Number of students | Amount in Rupees |
|---|---|---|---|
| Financial Support from institution | SVKMS President Scholarship | 5 | 518400 |
| Financial Support from Other Sources | | | |
| a) National | Scholarship for students of minority communities pursuing Higher and Professional courses(DTE), Rajarshi Chhatrapati Shahu Maharaj Shikshan Shulkh Shishyavrutti Yojna(EBC), Social Welfare Department, Merit Cum Means Scholarship For Professional and T | 435 | 24070673 |
| b)International | Nil | 0 | 0 |
| | [View File]() | | |

5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

| Name of the capability enhancement scheme | Date of implemetation | Number of students enrolled | Agencies involved |
|---|---|---|---|
| Self Evaluation | 02/08/2018 | 516 | Ms. Marina Thomas, Ms. Shiny Nair |
| Art of Living | 04/08/2018 | 430 | Mr. Mayuresh Asodekar |
| | [View File]() | | |

5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

| Year | Name of the scheme | Number of benefited students for competitive examination | Number of benefited students by career counseling activities | Number of students who have passedin the comp. exam | Number of studentsp placed |
|---|---|---|---|---|---|
| 2018 | GATE APTITUDE TEST Software by M/S Softtech International, S.No. 676/1A, Block no. 4, Digvijay Apartment, | 135 | 0 | 10 | 0 |

| 2018 | Seminar on Higher Studies by Prof. (Dr.) Dave Jaydev from Thomas Jefferson University, Philadelphia | 23 | 5 | 0 | 0 |
| 2018 | Seminar by Ankit Mehra on Financial help and scholorship for higher studies | 353 | 10 | 10 | 0 |
| View File | | | | | |

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

| Total grievances received | Number of grievances redressed | Avg. number of days for grievance redressal |
|---|---|---|
| 0 | 0 | 0 |

**5.2 – Student Progression**

5.2.1 – Details of campus placement during the year

| On campus | | | Off campus | | |
|---|---|---|---|---|---|
| Nameof organizations visited | Number of students participated | Number of stduents placed | Nameof organizations visited | Number of students participated | Number of stduents placed |
| Quantiphi | 238 | 39 | Vista Rooms | 3 | 3 |
| View File | | | | | |

5.2.2 – Student progression to higher education in percentage during the year

| Year | Number of students enrolling into higher education | Programme graduated from | Depratment graduated from | Name of institution joined | Name of programme admitted to |
|---|---|---|---|---|---|
| 2019 | 2 | BE | COMPUTER ENGG | Arizona State University | MS |
| View File | | | | | |

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

| Items | Number of students selected/ qualifying |
|---|---|
| GATE | 10 |
| GRE | 203 |

| TOFEL | 192 |
|---|---|
| CAT | 11 |
| Any Other | 11 |

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## 5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

| Activity | Level | Number of Participants |
|---|---|---|
| F.R.I.E.N.D.S Quiz | State | 100 |
| JAM (Just A Minute) | Institute | 200 |
| D J Pro Night Darshan Rawal Live Concert | Institute | 600 |

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## 5.3 – Student Participation and Activities

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

| Year | Name of the award/medal | National/ Internaional | Number of awards for Sports | Number of awards for Cultural | Student ID number | Name of the student |
|---|---|---|---|---|---|---|
| 2018 | 1st Prize in Football during inter collegiate sports event Athlos 19 at Fr Conceicao Rodrigues College of Engineering | National | 1 | 0 | 6000115006 2 | Adwait Wajpe |
| 2018 | 2nd prize for Urban Sanitation in Social Conclave | National | 0 | 1 | 6001118002 0 | Gandharva Shelar |

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

The Student Council and various Student Chapters activities are as follows: 1. Presence of an active Student Council: The Student council 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. • 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. 2. 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. 3. 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. 4. 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.

## 5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

No

5.4.2 – No. of enrolled Alumni:

5361

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

626000

5.4.4 – Meetings/activities organized by Alumni Association :

8

## CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

### 6.1 – Institutional Vision and Leadership

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

The 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.

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

Yes

## 6.2 – Strategy Development and Deployment

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

| Strategy Type | Details |
| --- | --- |
| Admission of Students | DJSCE is a Gujarati Linguistic Minority institution and admissions are done as per the guidelines of Directorate of Technical Education, Govt. of Maharashtra. 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. In addition to First Year Engineering admissions, lateral admissions are conducted to second year for Diploma holders. The admission notice for this entry is similarly published in newspapers, college notice board and on the website. |
| Industry Interaction / Collaboration | 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 automobile and aviation competitions, wherein our students have excelled. In the last five years 350 research articles and 50 books have been published by faculty members. Lectures by industry experts are arranged. The institute has MoU with companies like TCS, among others for providing technical training to the students. This facilitates a working relationship between industry and academia. Internships are highly encouraged during summer breaks. |
| Human Resource Management | SAP ERP System is implemented since Oct 2010 to deal with various organisational functions such as: SAP Human Resource Management. |
| Library, ICT and Physical Infrastructure / Instrumentation | The Department faculty use interactive learning methods and pedagogical approaches to make students-centric teaching-learning process and to encourage students' participation. Think-Pair-Share (TPS), Flipped classrooms, Muddy points, Certainty Based Marking (CRB) scheme, Socratic Questioning are some of the methods being used by the faculty. Faculty members make use of online web resources, online courses, departmental resources and NPTEL video lectures for to update domain knowledge. The faculty encourage GATE aspirant students to take use of GATE Practice software available as an Institute level resource. Spoken tutorial training programs (FOSS) are organised by IIT Bombay at our institute. |

| | |
|---|---|
| Research and Development | To assess the progress of Research Scholars admitted in various Research Center of the college, Research Assessment Committees (RACs) are formed under the chairmanship of the Principal. The Research committee members in respective allied branches are formed: Mechanical, Computer and Electronics Telecommunication Engineering. In order to facilitate research several databases and e-resources are made available to students and the faculty. Turnitin software is made available to the faculty and the students to check for plagiarism. In addition a code of ethics is drafted and the students and faculty are made aware of the same through the website. |
| Examination and Evaluation | On the basis of the syllabus, faculty members frame the course objectives and outcomes, which are approved by the Program Assessment Committee. Assessment in the laboratories and tutorial sessions are carried out on the basis of rubrics. The performance of students in the first test and laboratory sessions is evaluated and the weak and advanced learners are identified. Mentor faculty members assigned to the students who interact with the students. Remedial classes are conducted on individual basis by individual faculty members teaching the course, in order to improve the academic performance. A full time counselor available to staff and students. |
| Teaching and Learning | Department faculty members use innovative ways to enhance teaching and learning process through effective Technology, Pedagogy and Content. Use of multimedia facilities in classrooms, advanced equipment in laboratories and efforts to integrate laboratory experiences in classroom by use of apt simulation environments are some of the ways adopted by faculty to enhance teaching learning process. Lecture delivery is through a set of educational technology/ tools such as Interactive Smart Board in every classroom, power point presentations, e-learning, group discussions and Quiz. All the lecture materials are made available to the students on student portal preferably prior to the |

| | lectures. |
|---|---|
| Curriculum Development | Each department has a 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 identified as, Preparation of Academic Calendar, Instructional Method, Laboratory/ Tutorials, Internal Assessment Evaluation and Impact Analysis. Bright learners are encouraged for enhancing their performance further and weak learners are supported through remedial lectures and counselling sessions. Each department prepares a departmental academic calendar including schedules of project presentations, expert lectures, and workshops. |

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

| E-governace area | Details |
|---|---|
| Examination | The College has the separate Examination department and dedicated officials to carry out all exam related processes. The Controller of Examination heads the examination process and delegates responsibilities to staff members for smooth functioning of all activities related to examinations. The examination department is equipped with all essential equipment for smooth functioning of all the examination processes. The exam schedule is communicated to students and faculty members well in advance by the exam department through college website. Students are allowed to apply for re-evaluation and/or re-checking, if they wish to, all via the online SAP system. |
| Planning and Development | 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. We at Shri. Vile Parle Kelavani Mandal's Dwarkadas J. Sanghvi College of engineering have ERP driven administration to carry out day to day affairs. The planning and development |

| | |
|---|---|
| | activities at our institute are carried out by and large with SAP system implemented by Shri. Vile Parle kelavani Mandal. |
| Administration | The attendance record of both students as well as staff is recorded using bio-metric system. Various crucial administrative tasks like requisition of consumables and non-consumable items, which are required for academic and non-academic purposes are managed centrally through dedicated officials assigned. Fees collection, payments and salary computation, leaves management are performed by designated officials of respective departments using SAP system. Notifications for internal as well as external stake holders are communicated through college website. Institute staff makes use of outlook e-mail system for communication and information exchange within and outside the institute. |
| Finance and Accounts | The institute uses the SAP software for E-governance implementation for Finance and Accounts purpose. All financial transactions including Fees collection, vendor payments and salary computation etc. are performed through SAP system on regular basis. This practice helps to improve the efficiency of accounts staff towards the accuracy in financial transactions in stipulated time with utmost security. The Institute conducts audit of books of accounts every year as a regular practice. The account and finance department maintains all the financial records separately as per the events and transactions required for. |
| Student Admission and Support | Student data and records are maintained in a centralized SAP system. Admissions at our institute are performed strictly adhering to the directives issued by respective government bodies. The necessary information pertaining to admission process is put up on the institute portal as well as the institute official website for aspiring students and their parents. Institute carries out admission rounds at its own level for the 20 of total intake capacity. Students can fill the application form through institute website itself. The merit list is generated and displayed on institute website for each round via the SAP system. |

## 6.3 – Faculty Empowerment Strategies

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

| Year | Name of Teacher | Name of conference/ workshop attended for which financial support provided | Name of the professional body for which membership fee is provided | Amount of support |
|---|---|---|---|---|
| 2018 | Prof. Ramchandra Mangrulkar | 4th International Conference on Computing Communication Control Automation (ICCUBEA 2018) from 16-18 August 2018 at PCCOE,Pune | Pimpri Chinchwad College of Engineering, Pune | 6000 |
| | | View File | | |

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

| Year | Title of the professional development programme organised for teaching staff | Title of the administrative training programme organised for non-teaching staff | From date | To Date | Number of participants (Teaching staff) | Number of participants (non-teaching staff) |
|---|---|---|---|---|---|---|
| 2018 | Insights of Machine Learning and Deep Learning | | 02/07/2018 | 06/07/2018 | 46 | 0 |
| | | | View File | | | |

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

| Title of the professional development programme | Number of teachers who attended | From Date | To date | Duration |
|---|---|---|---|---|
| Attended AICTE-ISTE approved 1 week STTP, Topic: Insights of Machine Learning and Deep Learning | 14 | 02/07/2018 | 06/07/2018 | 5 |
| | | View File | | |

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

| Teaching | | Non-teaching | |
|---|---|---|---|
| Permanent | Full Time | Permanent | Full Time |
| 18 | 0 | 2 | 0 |

## 6.3.5 – Welfare schemes for

| Teaching | Non-teaching | Students |
|---|---|---|
| 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 receive a monthly benefit amount. Incentives are given to some employees as an appreciation for their contribution to the development of institute. The college employee is covered with an accidental policy up to the limit of Rs 10 lakh. Medical insurance up to one lakh is provided to employee and his/her family. The wards of the faculty studying in any of the SVKM institutions are given 25 discount in the tuition fees. | Employees, who have worked with the SVKM institution for a minimum period of 10 years and have superannuated on reaching the retirement age receive a monthly benefit amount. The employee is covered with an accidental policy up to the limit of Rs 10L. Medical insurance up to one lakh is provided to employee and his/her family. The wards of the faculty studying in any of the SVKM institutions are given 25 discount in the tuition fees. Leave Travel concession is admissible to employees whether on deputation, permanent or probation after completion of one year of continuous service in the institution. | Students are awarded various government and SVKM scholarships to motivate them to work hard and keep up with the institute's academic goals. The institute has a committed team of trainers to train students in soft skills and English language proficiency with a well-equipped language lab. DJSCE arranges remedial coaching for the students to get their queries resolved during the improvement week. DJSCE has student chapters of professional bodies like ISHRAE, ISME, CSI, IEEE, ACM, PACEMAKERS etc. Anti-ragging committee and grievance redressal committees are formed for addressing student's grievances pertaining to any of the issues faced by them in the campus. |

## 6.4 – Financial Management and Resource Mobilization

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

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.

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

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

| Acmefil Engineering Systems Private Limited | 10000 | Industry sponsored Projects |
|---|---|---|

View File

## 6.4.3 – Total corpus fund generated

| 3836680 |
|---|

## 6.5 – Internal Quality Assurance System

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

| Audit Type | External | | Internal | |
|---|---|---|---|---|
| | Yes/No | Agency | Yes/No | Authority |
| Academic | Yes | Expert academicians from other instituition | Yes | Internal Academic Audit Committee |
| Administrative | Yes | Kishore A. Parikh Co. | Yes | Bhavik K. Gandhi |

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

During the design process of Course Outcomes of every engineering programme in our institute, parents are invited for discussion. Parents are one of the important stakeholders, who share their views, give valuable suggestions and opinions as far as various aspects to strengthen the teaching learning process is concerned. This helps the Institute to address the areas seen from different perspectives, resulting in the improvement of the quality of teaching learning process.

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

A training session for the operation of SAP SLCM, Program Catalog, Academic Calendar and Mass Registration Roll nos upload is conducted on regular basis. One-day workshop on "Koha and Library automation" was conducted for faculty members and students. Data entry operators are trained for Event Planning and Module/Event booking in SAP system.

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

The institute has made a mandatory practice for faculty member to register for NPTEL / Online certification courses. One of our senior professors, Dr. A.R. Joshi has conducted few sessions for all faculty members to help them understand the continuous assessment practices by using different tools. Faculty members have also revised the attainment level and modified the existing rubrics for ferther implementation.

### 6.5.5 – Internal Quality Assurance System Details

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

### 6.5.6 – Number of Quality Initiatives undertaken during the year

| Year | Name of quality initiative by IQAC | Date of conducting IQAC | Duration From | Duration To | Number of participants |
|---|---|---|---|---|---|
| 2019 | Academic | 25/03/2019 | 25/03/2019 | 01/04/2019 | 150 |

| | | Audit | | | | |
|---|---|---|---|---|---|---|

| View File |
|---|

## CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

### 7.1 – Institutional Values and Social Responsibilities

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

| Title of the programme | Period from | Period To | Number of Participants | |
|---|---|---|---|---|
| | | | Female | Male |
| Human Trafficking and Gender Sensitization | 24/09/2018 | 24/09/2018 | 75 | 15 |
| Lecture on "Global Recognition of Human Rights for LGBT" | 01/09/2018 | 01/09/2018 | 50 | 25 |
| Lecture on "Yoga for teachers" | 13/10/2018 | 13/10/2018 | 50 | 20 |
| womens day Celebration | 08/03/2019 | 08/03/2019 | 150 | 0 |
| "Awareness regarding breast cancer" | 08/03/2019 | 08/03/2019 | 100 | 0 |

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

| Percentage of power requirement of the University met by the renewable energy sources |
|---|
| DJSCE firmly believes that 'Energy conserved is energy saved'. As an endeavor towards this cause, awareness is promoted among students and staff through prominent posters displayed in the campus and the classrooms. Students are counselled about various ways in which they can contribute towards conserving energy. |

7.1.3 – Differently abled (Divyangjan) friendliness

| Item facilities | Yes/No | Number of beneficiaries |
|---|---|---|
| Physical facilities | Yes | 9 |
| Provision for lift | Yes | 9 |
| Ramp/Rails | Yes | 1 |
| Braille Software/facilities | No | 0 |
| Rest Rooms | Yes | 9 |
| Scribes for examination | Yes | 3 |
| Special skill development for differently abled students | No | 0 |
| Any other similar | No | 0 |

| | | | facility | | | | |
|---|---|---|---|---|---|---|---|

**7.1.4 – Inclusion and Situatedness**

| Year | Number of initiatives to address locational advantages and disadvantages | Number of initiatives taken to engage with and contribute to local community | Date | Duration | Name of initiative | Issues addressed | Number of participating students and staff |
|---|---|---|---|---|---|---|---|
| 2018 | 1 | 0 | 14/04/2019 | 1 | Mastermind | Admission for Higher Education | 150 |
| 2018 | 0 | 1 | 02/05/2019 | 1 | MHCET | Admission for Under graduate | 400 |
| | | | | | [View File](#) | | |

**7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders**

| Title | Date of publication | Follow up(max 100 words) |
|---|---|---|
| Human Values and Professional Ethics | 26/11/2018 | Human values and professional ethics play a very important role in one's engineering career. Keeping this in mind, the institute conducts training programmes for first year students through various soft skill sessions, which focus on inculcating human values like honesty, integrity, respect for others etc. In third year, students study the subject "Business Communication and Ethics" that aims at inculcating the work ethics like loyalty, conflict resolution, cooperation coordination and time management etc. These topics are discussed with the students through various methods like case studies, role plays, presentations, group discussions and industrial visit etc. |

**7.1.6 – Activities conducted for promotion of universal Values and Ethics**

| Activity | Duration From | Duration To | Number of participants |
|---|---|---|---|

| | | | |
|---|---|---|---|
| International Yoga day | 21/06/2018 | 27/06/2018 | 250 |
| Tree plantation Drive | 15/07/2018 | 15/07/2018 | 120 |
| Orphanage visit | 29/07/2018 | 29/07/2018 | 100 |
| Food Donation Drive | 08/10/2018 | 10/10/2018 | 13 |
| Newspaper Collection Drive | 21/10/2018 | 21/10/2018 | 20 |
| Drug Abuse and Prevention | 07/12/2018 | 07/12/2018 | 120 |
| Alcoholism skit report | 02/01/2019 | 02/01/2019 | 30 |
| Stem Cell Donation drive | 18/01/2019 | 18/01/2019 | 321 |
| Blood Donation drive | 04/02/2019 | 04/02/2019 | 697 |
| Thalassemia Check-Up drive | 05/02/2019 | 05/02/2019 | 45 |

[View File](#)

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

Sr. No. Activity 1 Water conservation through water harvesting Techniques 2 Cleanliness Drive 3 Anti-plastic campaign. 4 Beach clean-up drive. 5 Paper Shredding 6 Paperless Office 7 Waste Management

## 7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practice I: Activity Based Learning 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. 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) 1. Department of Production Engineering - Indian Society of Manufacturing Engineers (ISME) 2. Department of Biomedical Engineering – Pacemaker 3. Deparmtant of Chemical Engineering – Indian Institute of Chemical Engineers (IIChE) 4. Department of Computer Engineering – Association for Computing Machinery (ACM) 5. Department of Electronics Engineering – Institute of Electrical and Electronics Engineers (IEEE) 6. Department of Electronics and Telecommunication Engineering – Institution of Electronics and

Telecommunication Engineers (IETE) 7. Department of Information Technology – Computer Society of India (CSI) Best Pracice II : Soft Skills Training 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 set them apart from the rest of the candidates having similar technical knowledge. Soft skills and competencies in communication 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). 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. While evaluating these training programmes, emphasis is 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. 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.

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

http://www.djsce.ac.in/Common/Uploads/ContentTemplate/159_Down_bestpractices.pdf

## 7.3 – Institutional Distinctiveness

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

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'. 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. • 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 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. • 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. • The College has always been

able to attract various reputed recruiters. In the year 2018-19, more than 100 recruiters visited the campus. • 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. 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.

| Provide the weblink of the institution |
| --- |
| http://www.djsce.ac.in/Common/Uploads/ContentTemplate/159_Down_Institutional%20Distinctiveness.pdf |

## 8.Future Plans of Actions for Next Academic Year

a. Implementation of Academic Autonomy. b. Conduction of VAP courses to bridge the gap between Industry and Academia. c. Preparation for NAAC peer team visit. d. Proposed Funding for the CANSAT Competition, MODROB and Conferences. e. Promotion of various ongoing live projects in the institute. f. Research Approval Committee (RAC) meetings Annual Progress Seminar (APS) to monitor the progress of research scholars pursuing PG and PhD. g. Enhancement of Infrastructure facility in the college h. Preparing documentation for NBA visit to look into the Extension of accreditation. i. Design of Assessment and evaluation sheet for "Teaching Learning", based on various performance indicators.