

**REPORT OF THE IQAC EXTERNAL PEER TEAM
REVIEW REPORT**



Shri Vile Parle Kelavani Mandal's

DWARKADAS J. SANGHVI COLLEGE OF ENGINEERING

(Empowered Autonomous College Affiliated to the University of Mumbai)

NAAC Accredited with "A" Grade (CGPA: 3.18)

Report on the
Performance of the
Institution for the
Academic Year 2023-24
by

External Peer Team of IQAC

Brief Review of the External Peer Review

The meeting was held at Dwarkadas J. Sanghvi college of Engineering. The members of the team are

Members of External Peer Team:

1. Dr. S. M. Khot, Principal, Fr. Conceicao Rodrigues Institute of Technology, Vashi.
2. Dr. Vivek Sunnapwar, Principal, K. J. Somaiya Institute of Technology, Mumbai.
3. Dr. Subhash Shinde, Principal, Lokmanaya Tilak College of Engineering, Navi Mumbai.

The Principal of the college, Dr. Hari Vasudevan welcomed the members. After the brief initial introduction, the members verified the documents and evaluated the key parameters (in line with various NAAC criteria) covering the overall performance of the college for the academic year 2023-24. Committee members then visited and oversaw the college facilities, accompanied by the following internal members as part of the **IQAC Committee**.

IQAC Committee Members:

- Dr. Hari Vasudevan, Principal
- Dr. Narendra Shekokar, Vice Principal
- Dr. K. N. Vijaya Kumar, IQAC Coordinator & Head, Mech Engg.
- Dr. Amit Deshmukh
- Dr. Meera Narvekar
- Dr. Vinaya Sawant
- Dr. P. S. Joshi
- Dr. Atul Dhale
- Dr. R. S. Khavekar
- Dr. Ramchandra Mangrulkar



- Dr. Aruna Gawde
- Dr. Mrunal Rane
- Dr. Poonam Kadam
- Shri. Gaurav Ghelani, TCS
- Mr. Akshay Lad
- Mr. Aniruddha Shah
- Mr. Arya Sejpal
- Ms. Dhruvi Jodawat

Introduction and Background of the Institution

Members noted that Shri Vile Parle Kelavani Mandal's (SVKM) Dwarkadas J. Sanghvi College of Engineering (DJSCE) was established in 1994 and has emerged over the years as a prominent institution in engineering education over its 30-year journey, earning recognition both nationally and internationally. DJSCE operates as an Autonomous Institution, granted autonomy by the University Grants Commission (UGC) for a decade, spanning from the academic year 2019–20 to 2028–29. The college is National Assessment and Accreditation Council (NAAC) accredited with a CGPA of 3.18 out of 4, corresponding to an "A" Grade, and the current validity is till December 31, 2024.

The college is also conferred with the "Empowered Autonomous Status" by the University of Mumbai for a period of 10 years with effect from 2024-25 till 2033-34.

For the academic year 2023–24, the institution offered 8 Undergraduate, 3 Postgraduate, and 3 Ph.D. programs, all affiliated with the University of Mumbai. All eligible undergraduate programs have received accreditation earlier from the National Board of Accreditation (NBA) and 4 programs are currently going for further accreditation in the next cycle. Students consistently demonstrate exceptional performance in placements with leading multinational corporations and pursue higher education at prestigious institutions, worldwide.

Located strategically in Western Suburbs of Mumbai, the college has modern infrastructure, state-of-the-art laboratories, advanced computing facilities, and a comprehensive library. This environment fosters academic excellence, supported by highly qualified and experienced

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faculty members, with continual upgrades to equipment and facilities. The institution's commitment to quality has secured itself a position among the top private engineering colleges in India, as consistently ranked by India Today and other notable ranking agencies, including NIRF Ranking.

The Internal Quality Assurance Cell (IQAC) at Dwarkadas J. Sanghvi College of Engineering, established in 2015, has consistently focused on ensuring and enhancing the quality of education within the institution. Through regular extension activities, the IQAC strives to elevate both academic and administrative performance. The team's dedicated efforts have been both commendable and impactful over the years.

Profile of the Institution

- **Name of the College** : Dwarkadas J. Sanghvi College of Engineering,
No. U-15, J.V.P.D. Scheme, Bhaktivedanta
Swami Rd, Opp.Cooper Hospital, Vile Parle,
Mumbai, Maharashtra 400056
- **Name of the Principal** : Dr. Hari Vasudevan
- **Telephone/Fax /Email** : Phone No: 022 42335000
Mobile No: 9821464696
- **Email** : principal@djsce.ac.in, info@djsce.ac.in
- **Year of Establishment** : 1994
- **Whether private or government or University maintained** : Private and Self Financing
- **Autonomous Status** : UGC has conferred the Autonomous Status in
the year 2019 for a period of 10 years from
2019-2020 to 2028-2029.
- **Name of the Affiliating University** : University of Mumbai, Fort, Mumbai.




UG and PG Programmes run by the college during the A.Y. 2023-24:

Programme Name	Programme Code	Sanctioned Intake
B.Tech. Computer Engineering	COMP	180
B.Tech. Electronics & Tele communication Engineering	EXTC	180
B.Tech. Information Technology	IT	180
B.Tech. Mechanical Engineering	MECH	180
B.Tech. Computer Science and Engineering (Data Science)	CSE(DS)	120
B.Tech. Artificial Intelligence and Machine Learning	AI_ML	60
B.Tech. Artificial Intelligence (AI) and Data Science	AI_DS	60
B.Tech. Computer Science and Engineering (IOT and Cyber Security with Block Chain Technology)	CSE(ICB)	60
M.Tech. Electronics & Tele communication Engineering	M_EXTC	09
M.Tech. Computer Engineering	M_COMP	18
M.Tech. Mechanical Engineering	M_MECH	18

PhD Programmes:

Sr. No	Name of the Programme	Sanctioned Intake
1	Ph.D. Mechanical Engineering	20
2	Ph.D. Electronics and Telecommunication Engineering	10
3	Ph.D. Computer Engineering	10







The details of admitted students in the institute during the AY 2023-24 are as follows:

Programme name	Programme Code	Number of seats sanctioned	Admitted Students + AICTE TFWS + J & K Migrant
Computer Engineering	COMP	180	180+9+1
Electronics and Telecommunication Engineering	EXTC	180	179+4+1
Information Technology	IT	180	180+8+1
Mechanical Engineering	MECH	180	180+8
Computer Science and Engineering (Data Science)	CSE(DS)	120	120+5+1
Artificial Intelligence and Machine Learning	AI_ML	60	60+3
Artificial Intelligence (AI) and Data Science	AI_DS	60	60+2+1
Computer Science and Engineering (IOT and Cyber Security with Blok Chain Technology)	CSE (ICB)	60	60+3+1
Electronics and Telecommunication Engineering (PG)	MEC	9	0
Computer Engineering (PG)	MCS	18	2
Mechanical Engineering (PG)	MME	18	0

Year	Number of seats earmarked for reserved category as per GOI or State Government rule					Number of students admitted from the reserved category				
	SC	ST	OBC	Gen	Others	SC	ST	OBC	Gen	Others
2023-24					51% seats are reserved for Gujarati speaking Linguistic minority community.					520

The regular practices carried out under IQAC in the institute are as follows:

1. CURRICULAR ASPECTS

Since the academic year 2019-20, Dwarkadas J. Sanghvi College of Engineering (DJSCE) has incorporated multidisciplinary courses, including Constitution of India, Universal Human Values, Environmental Science, and the Indian Knowledge System, to instill ethical, environmental, and cultural awareness while fostering pride in India's heritage, almost in line with the National Education Policy. Unique courses like, Community Engagement Service and

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Innovative Product Development (IPD) emphasize experiential and problem-based learning, enabling students to tackle real-world challenges through interdisciplinary collaboration and technical exploration. From the A.Y. 2023-24 onwards, full-fledged NEP2020 compliant curriculum is implemented by the institute.

DJSCE implements a structured curriculum delivery system supported by a Board of Studies comprising academic, industry experts, and faculty members, which meets twice a year to review and improve curriculum effectiveness. The institution prepares its academic calendar, detailing semester activities and examinations, and ensures faculty create teaching plans and maintain comprehensive course files. Feedback from previous academic years takes care of updates regarding teaching methods, materials, and lab manuals, with study resources made accessible to students via MS Teams. Faculty performance and course delivery are continuously enhanced through feedback analysis and auditor recommendations.

The academic calendar, accessible on the college website, provides a comprehensive schedule of semester activities, including semester commencement, term tests, curricular and co-curricular events, sports and cultural activities, improvement week, oral/practical and theory examinations, and public holidays. Course instructors prepare teaching plans for theory and practical sessions, specifying topics, tentative completion dates, and a list of experiments with their scheduled dates. Internal Assessments (IA) align with the academic calendar. Sample copies are shown below.

The image displays two sample copies of academic calendars from DJSCE. The left calendar is for the 2023-24 academic year, and the right one is for the 2024-25 academic year. Both calendars show a detailed schedule of activities, including classes, tests, and holidays, organized by semester and year. The calendars include columns for dates, days of the week, and specific activities. The right calendar also includes a section for internal assessments (IA) and a note about any changes being implemented due to various circumstances.

Term work evaluation encompasses lab performance, weekly journal assessments, assignments, and tutorials as per the planner. Adherence to the academic calendar is monitored

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by the HOD and reviewed by experts during the Academic Review Process. Activities are closely tracked, and corrective measures are promptly implemented when needed.

2. TEACHING-LEARNING AND EVALUATION

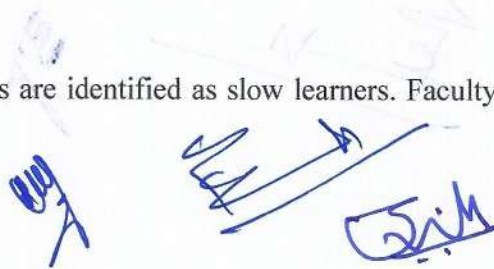
DJSCE emphasizes upon holistic and multidisciplinary education, focusing on experiential and collaborative learning through courses, like Innovative Product Development (IPD). The institute offers **Honors and Minors programs** to keep students updated with emerging technologies, while also emphasizing social and ethical responsibilities through courses on liberal learning, human values, community service, and Indian knowledge traditions.

The **DJS-STRIKE initiative** by one of the departments enhances IPD by promoting peer collaboration and success in national and international competitions. It integrates vocational training with modern tools such as 3D printing and drone technology, alongside traditional practices like carpentry and welding. Programming fundamentals are introduced through hands-on courses in C and Java during the first year. Final-year capstone projects consolidate students' learning, encouraging them to conceptualize and implement innovative solutions.

2.1 Teaching- Learning Process

Information and Communication Technology (ICT) enhances educational resources and updates learning methods, fostering more active collaboration between students and teachers to facilitate the acquisition of technological knowledge. All classrooms are equipped with ICT tools, like smart boards, projectors, and Wi-Fi. Students have access to a variety of platforms, such as the Student Portal, learning management system (LMS), and MS Teams, to support interactive lectures and improve learning. Smart boards enable teachers to conduct and record lectures, providing lecture notes for students' reference. These boards are integrated with multimedia devices, offering the benefits of technology, ease of use, and enhanced student interaction. Through the Student Portal, students can access study materials, track term work and test marks, and monitor attendance. Faculty can also use the portal to upload resources and evaluate student performance. Students can submit assignments, participate in quizzes, pay fees, and view their results through the portal.

Students, who score below 40% in tests and quizzes are identified as slow learners. Faculty



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mentors analyze the reasons for their academic challenges and offer extra lectures to help them improve. These students are also encouraged to engage in college club events and are paired with peer mentors—advanced learners in their class—to promote peer-to-peer learning. Soft skill sessions are provided to help students, especially those from vernacular backgrounds, enhance their interpersonal skills and boost self-confidence. The institute also has a dedicated counselor available to assist students with psychological issues.

Students, who score above 80% and actively participate in co-curricular activities are recognized as advanced learners. These students are encouraged to compete in inter-collegiate contests such as programming, project, and paper presentations, and are motivated to pursue internships. Internship fairs and competitions are organized by the department, placement committees, and student chapters like IEEE, CSI, ACM, ISME, IETE, and RAS, with advanced learners encouraged to represent the college in various competitions.

2.2 Catering to Student Diversity

The institute actively promotes gender sensitization by fostering awareness of gender equality and encouraging equal participation in activities, while ensuring safety and security for all. A dedicated Women Development Cell supports the overall growth of female students and staff through targeted programs. Environmental consciousness is instilled through subjects like *Environmental Studies*, *Environmental Engineering*, and *Energy Audit and Management*, along with activities, such as beach clean-ups organized by the NSS. To cultivate human values and professional ethics, courses like *Universal Human Values*, *Business Communication and Ethics*, and *Professional Ethics and CSR* are integrated into the curriculum, helping students understand harmony in various aspects of life and develop professional integrity. Additionally, the *Indian Knowledge System* course highlights India's contributions to science, philosophy, and related fields, fostering cultural pride and ethical awareness.

2.3 Multidimensional student Enrichment

Various student chapters at the institute, mentored by faculty members, focus on providing experiential and participative learning. These chapters encourage students to participate in national and international competitions to enhance problem-solving skills, bridging the "theory-to-application" gap that many institutes face. Chapters such as IEEE, IETE, CSI, ACM, and S4DS specialize in software computing and embedded systems, targeting electronics and computer applications. ISACA and CODESTARS sharpen students' coding abilities for

competitions and job placements in top companies. DJINIT.AI, DJS Buildspace, and DJS GDSC keep students updated with the latest technologies and scientific advancements, fostering practical learning. ISME, ISHRAE, and SAE focus on manufacturing technologies, automotive, and aerospace competitions, achieving top honors both in India and abroad. The Entrepreneurship & Incubation Centre promotes a project-to-product mindset, organizing seminars and workshops with venture capitalists. Additionally, the NSS Chapter addresses socio-cultural issues, encouraging students to engage in community service and raise awareness about the challenges faced by underprivileged groups.



2.4 Teacher Profile and Quality

DJSCE has experienced and dedicated faculty members. Total count of faculty members is 207. Out of this, 14 are Associate Professors, while 11 are Professors. Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the year.

1. Academic Council/ BoS of Affiliating University
2. Setting of question papers for UG/PG programs
3. Design and Development of Curriculum for Add on/ certificate/ Diploma Courses
4. Assessment /evaluation process of the affiliating University

The institute has a well-defined framework for aligning Program Outcomes (PO) and Course Outcomes (CO) across all programs. Course Outcomes are linked to both Program Outcomes and Program Specific Outcomes (PSO). These goals are made visible to students by displaying them on the college website, in classrooms, laboratories and on student submission files. Faculty communicate Course Outcomes at the beginning of each course to ensure clarity, and course details are included on rubric sheets for structured evaluation of student performance.

The image shows four handwritten signatures in blue ink. Two are located in the upper right quadrant, and two are in the lower right quadrant. The signatures are stylized and appear to be of Indian origin. One signature in the top right is written over a horizontal line, and another in the bottom right is also written over a horizontal line.

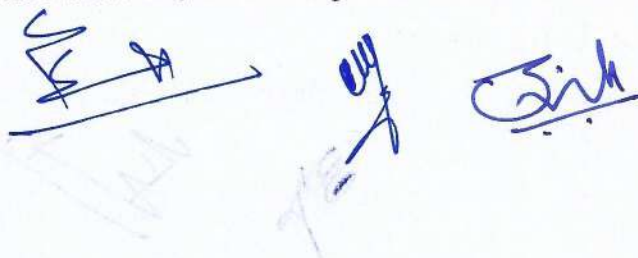
 Shri Vile Parle Kelavani Mandal's DWARKADAS J. SANGHVI COLLEGE OF ENGINEERING (Autonomous College Affiliated to the University of Mumbai) NAAC Accredited with "A" Grade (CGPA : 3.18)			
Department of Computer Engineering (A.Y. 2023-24) S.Y. B. Tech. Semester III Course Outcomes			
DJS22CEC301 & DJS22CET301 - Engineering Mathematics			
After completing the course, Student will be able to:			
DJS22CEC301.1	Use Laplace and inverse Laplace Transform to the Ordinary Differential Equations.		
DJS22CEC301.2	Expand the periodic function by using Fourier series and complex form of Fourier series.		
DJS22CEC301.3	Apply Fourier Transform in the future subjects like signal processing.		
DJS22CEC301.4	Apply the concept of Z- transformation and its inverse of the given sequence		
(DJS22CEC302 & DJS22CEL302 - Data Structures			
After completing the course, Student will be able to:			
DJS22CEC302.1	Understand the concept of time complexity for algorithms.		
DJS22CEC302.2	Assimilate the concept of various linear and non-linear data structures.		
DJS22CEC302.3	Solve the problem using appropriate data structure		
DJS22CEC302.4	Implement appropriate searching and sorting algorithms for a given problem.		

2.5 Evaluation Process and Reforms

The internal assessment framework includes mandatory components, such as term tests (conducted twice per semester) and practical sessions (aligned with the laboratory teaching plan), along with optional elements like assignments, quizzes, presentations, and mini-projects. Faculty members design test question papers based on departmental guidelines. The Program Assessment Committee ensures the quality of these papers, verifying their alignment with Course Outcomes, adherence to Bloom's Taxonomy, and incorporation of innovative ideas.

Exam committees at both institute and department levels manage the seamless execution of internal assessments. Their responsibilities include preparing and displaying timetables, arranging seating, collecting final question papers, and maintaining strict vigilance during exams to prevent malpractice. Assignments and mini-projects are evaluated using predefined rubrics.

After test evaluations, answer scripts are shared with students for review, and corrections are



made if discrepancies are identified. Internal assessment marks and term test papers are shared with students well in advance of the Semester End Examinations. Faculty and departmental heads approve the Continuous Assessment mark-lists, which are then submitted to the examination section. Marks are communicated through the MS Teams platform, ensuring transparency and efficiency.

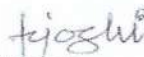
The mandatory assessment tools of Internal Assessment are listed below:

Tools	Frequency	Duration
Term test	Twice in a semester	As per the scheduled dates in academic calendar
Practical	Weekly	As per Laboratory Teaching Plan

The variety of optional tools of Internal Assessment are listed below:

Tools	Frequency	Duration
Assignments	Once or Multiple times	As per Course outcome assessment Plan
Quiz	Once or Multiple times	As per Course outcome assessment Plan
Seminar/Presentations	One or two times in a semester	As per Course outcome assessment Plan
Mini Projects	Once in a semester	As per Course outcome assessment Plan

The mandatory assessment tools, term tests, and practical sessions occur with specified frequencies and durations, contributing to a well-structured and organized academic calendar. Additionally, a variety of optional tools, including assignments, quizzes, presentations, and mini-projects, allow for a more nuanced and multifaceted assessment of students' understanding and application of course material. The frequency and duration of these optional tools are carefully planned according to the Course Outcome Assessment Plan, providing a balanced approach to evaluating students' progress and achievements.

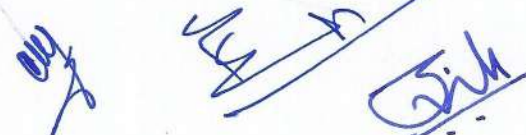

 Dr. Abhijit Joshi,
 Convener, Examination and Evaluation Committee,
 Dwarkadas J. Sanghvi College of Engineering

2.6 - Pass percentages of Students during the year are:

Name of Department	Pass Percentage
Computer Engineering	100
Electronics and Telecommunication Engineering	100
Information Technology	100
Mechanical Engineering	99.22
Computer Science and Engineering (Data Science)	100
Chemical Engineering	100
Electronics Engineering	98.51

3. RESEARCH, INNOVATIONS AND EXTENSION

The institute promotes innovation and knowledge transfer through its IPR and



Entrepreneurship Cell and multiple Ph.D. centers. Its robust R&D ecosystem includes 3 research centers, 15 research guides, 71 Ph.D.-qualified faculty members, and 27 pursuing Ph.Ds. Since 2014, the institute has offered University of Mumbai recognised Ph.D. programs in Computer, Electronics & Telecommunication, and Mechanical Engineering. In 2023-24, faculty and students published 19 book chapters, 106 journal papers, and 72 conference papers.

The department-wise count of faculty members, who have published research papers in journals and book chapters is as follows:

Name of Department	Count of Faculty Members	
	Journals	Book Chapters
Computer Engineering	20	24
Electronics and Telecommunication Engineering	21	10
Information Technology	13	35
Mechanical Engineering	13	04
Computer Science and Engineering (Data Science)	07	11
Artificial Intelligence and Machine Learning	16	01
Artificial Intelligence (AI) and Data Science	11	04
Computer Science and Engineering (IOT and Cyber Security with Blok Chain Technology)	01	04
Humanities	04	--

Faculty members at DJSCE has been actively involved in various activities and has received awards and recognitions as follows:

Name of the activity	Name of the Award/ recognition	Name of the Awarding government/ government recognised bodies
Excellent Reviewer award to Dr. Venkataramanan	Excellent Reviewer award	IJIM Journal

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Design Patent Grant to Supriya Dicholkar	Patent Grant	The Patent Office, Government of India
Mr. Harshal Dalvi registered a copyright titled titled "Computer Software work a Decentralized Ride Hailing Service using Blockchain Technology" .	Copyright registered	Copyright Office, GoI
Ms. Neha Katre registered a copyright titled "Knife Dataset of Anomaly Detection in Surveillance"	Copyright registered	Copyright Office, GoI
Ms. Neha Katre registered a copyright titled "Fire Dataset for Anomaly Detection in Surveillance".	Copyright registered	Copyright Office, GoI
Ms. Neha Katre registered a copyright titled "Handgun and Shotgun Dataset for Anomaly Detection in Surveillance".	Copyright registered	Copyright Office, GoI
Dr. Monika Mangla and Ms. Prachi Satam registered a copyright titled "Classification of Branin Tumors images using Deep Learning Models"	Copyright registered	Copyright Office, GoI
Ms. Neha Agarwal registered a copyright titled "Cloud Bind"	Copyright registered	Copyright Office, GoI
Prof. Harshal Dalvi passed Oracle Cloud Infrastructure 2023 Foundations Associate (1Z0-1085-23) certification exam	Oracle Cloud Infrastructure 2023 Foundations Associate (1Z0-1085-23)	Oracle University
Prof. Harshal Dalvi passed Oracle Cloud Infrastructure 2023 AI Foundations Associate (1Z0-1122-23) certification exam	Oracle Cloud Infrastructure 2023 AI Foundations Associate (1Z0-1122-23)	Oracle University
Dr. Ramchandra Mangrulkar is appointed as Research Fellow at INTI International University (Malasia)	Research Fellow	INTI International University (Malasia)
Patent published 1. Aryan Thukral, 2. Dr. Vinayak Khatavate, 3. Dr. K N Vijayakumar, 4. Dr. Hari Vasudevan	Patent published No - 27684 Application No - 202221045849 A Title - TREE RESEMBLED FIRE COMBAT SYSTEM	Patent Office, India
Dr. Hari Vasudevan received the "Top Most Influential Principals (Education)" award	Top Most Influential Principals (Education)" award	World Education Congress 2023, 12th Edition

Design Registration by Hari Vasudevan K.N Vijaya Kumar & Shashikant Auti "Rear Pin Locking For Aircraft Control"	Design Number: 381129-001, Title: REAR PIN LOCKING FOR AIRCRAFT CONTROL	Patent Office, India
Design Registration by Dr. Hari Vasudevan, Dr. K.N. Vijayakumar & Dharam Ranka	Design Number: 380658-001, Title: ELECTRIC GO KART	Patent Office, India
Design Registration by Dr. Hari Vasudevan, Dr. K.N. Vijayakumar & Dharam Ranka	Design Number: 381685-001, Title: STEERING STUB AXLE	Patent Office, India
Design Registration by Dr. K.N. Vijayakumar, Dr. Hari Vasudevan & Prasad Shirodkar	Design Number: 318579-001, Title: WINDMILL BLADES	Patent Office, India
Design Registration by Dr. K.N. Vijayakumar, Dr. Hari Vasudevan & Kartik Ajugia	Design Number: 381618-001, Title: SMART BACKPACK FOR TREKKING	Patent Office, India
Design Registration by Dr. K.N. Vijayakumar, Dr. Hari Vasudevan & Greegory Mathew	Design Number: 379354-001, Title: DUCT FOR WIND TURBINE	Patent Office, India
Design Registration by Dr. Hari Vasudevan, Dr. K.N. Vijayakumar & Rajnarayan Yadav	Design Number: 378831-001, Title: SINGLE STAGE OPEN DIFFERENTIAL (SET)	Patent Office, India
Design Registration by Dr. K.N. Vijayakumar, Dr. Hari Vasudevan & Dr. Shashikant Auti	Design Number: 318124-001, Title: CARBON FIBER SUSPENSION ARMS FOR FSAE CA	Patent Office, India
Design Registration by Dr. K.N. Vijayakumar, Dr. Hari Vasudevan & Greegory Mathew	Design Number: 379459-001, Title: UPRIGHT FOR ELECTRIC VEHICLE	Patent Office, India
Design Registration by Dr. K.N. Vijayakumar, Dr. Hari Vasudevan & Rajnarayan Yadav	Design Number: 381472-001, Title: VARIABLE GEAR TRANSMISSION DEVICE	Patent Office, India
Dr. Hari Vasudevan	Late Prof. Y.K. Bhushan: Most Influential Professors" award	World Education Congress 2023, 12th Edition
Patent granted to 1 . Shah Aditya Rajesh 2 . Gupta Khushi Anand 3 . Bihani Riya Nimish 4 . Gupta Aayushman Vikas 5 . Dr. Bhadane Chetashri S. 6 . Dr. Vasudevan Hari 7 . Dr. Narvekar Meera 8 . Dr. Ghag Kranti Vithal	Patent granted Patent No - 538278 Application No - 202321041386 Title - A MEDICAL EMERGENCY SYSTEM FOR A VEHICLE	Patent Office, India

Signature

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Dr Kranti Ghag registered as Patent Agent with IN/PA 5363	Registered Patent Agent	Patent Office, India
Dr Kranti Ghag received Top 1%, NPTEL Silver ELITE certificate for course Patent Law for Engineers and Scientists	Top 1%, NPTEL Silver ELITE certificate for course Patent Law for Engineers and Scientists	SWAYAM-NPTEL
Dr. Mrunal Rane	SAS Certified Predictive Modeler Using SAS Enterprise Miner 14 by	Global Certification
Prof. Kanchan Dabre received Silver medal at PPG level Medicine and Pharmacy Category in 16th	Avishkar-2024 Research Project Competition	Governer of Maharashtra
Prof. Shruti Savant	SAS Certified Predictive Modeler Using SAS Enterprise Miner 14 by	Global Certification
Dr. Jessy P.	Top 5%, NPTEL Gold ELITE certificate the 12 week FDP on Maternal Infant Young Child Nutrition	SWAYAM-NPTEL
Dr. Ameya Kadam	NPTEL Descipline Star	SWAYAM-NPTEL

Additionally, 26 faculty members have received NPTEL Elite certification in various courses.

DJSCE has also secured a research funding of ₹33.756 lakh during the year, as follows:

Name of the Project/ Endowments, Chairs	Name of the Principal Investigator / Co-Investigator	Department of Principal Investigator	Amount Sanctioned (Lakhs)
Google Explore CSR	Pranit Bari	Computer Engineering	26.7
KAPILA (Kalam Program for IP Literacy and Awareness) scheme	Dr Aruna Gawade Dr Narendra Shekokar Dr Kranti Ghag	Computer Engineering	0.028
KAPILA (Kalam Program for IP Literacy and Awareness) scheme	Dr Kiran Bhowmick Dr Meera Narvekar	Computer Engineering	0.028
Analysis of Radiometric Features for identification of Pneumonia Variant in Infant using Chest Radiograph	Prof. Kanchan Dabre and Dr. Satishkumar Varma	CSE(Data Science)	1

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IoT Enabled EMG Signal Controlled Wheelchair	Prof. Vivek Nar	Electronics Engineering	6
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The Entrepreneurship Cell, established in 2012, nurtures entrepreneurial skills through 38 activities, including summits, competitions, and start-up meets. The IPR Cell, founded in 2014, promotes awareness of patents, copyrights, and design registration, resulting in 3 granted patents, 10 design registrations, and 6 copyrights during the year 2023-24.

3.2 - Innovation Ecosystem

DJSCE has carried out numerous activities to enhance the innovation culture among the students. Some of those activities noted by the members of the review team are as follows:

Sr.No	Name of the workshop/ seminar	Number of Participants
1	Workshop on MATLAB Programming under IETE-SF	80
2	Seminar on Technical Paper Writing	30
3	UnPlugged 1,0-24-hr National Hardware Hackathon	300
4	DJS STRIKE 2024	120
5	DJ SPARK 2024	130
6	Research Funding, Publications and IPR: A Journey from Fundamentals to Advanced Methodologies	132
7	IPR and Patenting (How to convert IPD idea into patents)	98
8	Intellectual Property Rights (IPR) & Patents and Design Filing	30
9	GDSC introduction and resume session	130
10	GJSJ(Google Clud study Jam)	121
11	Get Set GSOC and Tech Quiz	100
12	Winter Hacks	60
13	Hackniche	200
14	GDSC Tech Nexus	60
15	Introduction to Java	70
16	Machine learning bootcamp	80
17	Flutterverse 2.0	70
18	Datahack 2.0	85

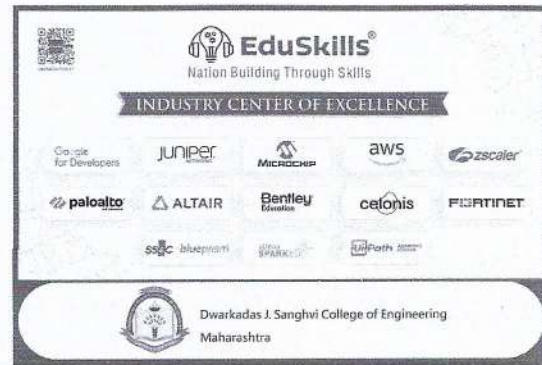
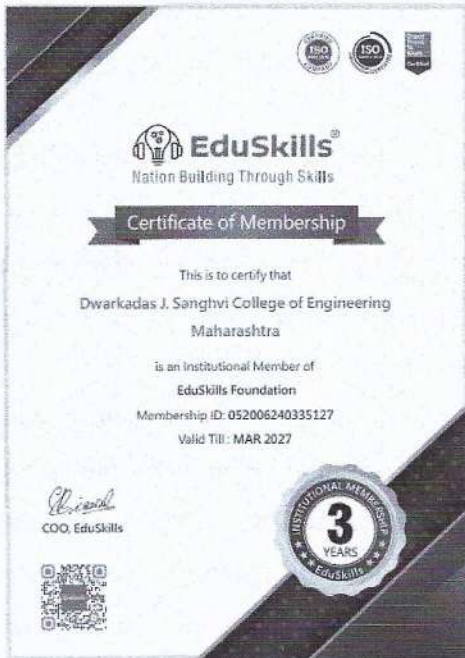
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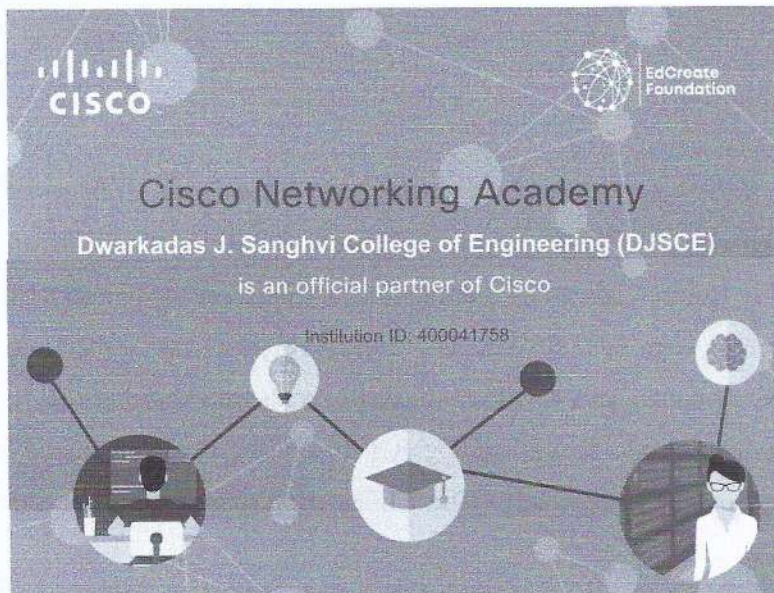
19	Java session 2	70
20	Code like her	40
21	Lecture 1: Bootcamp 1 (Python and Data Science)	50
22	Lecture 2: Intro to SIH	150
23	GitIni	10
24	PyInIT (Python)	18
25	Gans and LLM	65
26	Data2knowledge	47
27	Internship Fair	1500
28	EY Opportunities in Analytics and Getting Ready for Corporate Journey	102
29	Unicode Git	100
30	Unicode's Celestia	160
31	Unicode Hack Prep 5.0 2024	105
32	React and Node	140
33	Innovative Power Supply Systems based on New Technologies	40
34	CTF (Capture the Flag)	36 Teams
35	Hackthon Syn3rgy	269 Teams
36	Journey to Cyber Resilience	58
37	Session on JAVA	70
38	Generative Adversial Network	75
39	ML Boot Camp	80
40	Byte Beginnings	150
41	Robotics	100
42	Data HAcK2.0	85

The NSS chapter of Dwarkadas J. Sanghvi College of Engineering actively contributed to society in 2023-24 through diverse initiatives. In Health and Sanitation, it organized a Mental Health Seminar. Under Environment, activities included tree plantations, deep cleaning at Bandra Railway Station and beach clean-ups at Versova and Mahim beaches, along with a Swachh Bharat Abhiyan drive at Vidyanagari campus of University of Mumbai. Cultural events featured Bhajan Sandhya at Gateway of India as well as during Independence Day celebrations. In Education, the DJS NSS chapter held memorial lectures, created sensory boards for special needs students, and engaged in awareness drives for voter registration, food grain collection, and national pride initiatives like "Meri Maati, Mera Desh." Donation efforts included a blood donation camp and an annual charity drive.

In order to escalate the technical competence of faculty members and students, DJSCE has signed an MoU (validity 3 years) with Eduskills Foundation.



The institute has also entered into an MoU with CISCO



4. INFRASTRUCTURE AND LEARNING RESOURCES

The institution has state-of-the-art infrastructure with 37 ICT-enabled air-conditioned classrooms featuring smartboards, well-equipped laboratories, and central and departmental libraries. The Wi-Fi-enabled campus supports high-speed internet, and conference and seminar

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halls host various academic events. Dedicated laboratories serve 10 UG, 3 PG, and 3 Ph.D. programs, equipped with modern desktops, advanced tools like Spectrum Analyzers, CNC Machines, and licensed software such as MATLAB, AutoCAD, and Oracle. A well-maintained Data Centre houses VMware Enterprise 6 servers, backup devices, and 1,297 desktop computers, ensuring robust computing facilities across the campus.

The institution provides comprehensive facilities for students' physical, mental, and overall development. Under a unified umbrella, students engage in cultural committees and hobby clubs, organizing annual cultural fests and mega competitions judged by faculty. The campus features a well-equipped auditorium, gymnasium, and yoga center with qualified trainers, along with indoor games like carom, chess, and table tennis. Outdoor sports such as football, volleyball, and cricket are practiced on nearby rented grounds. Annual inter- and intra-college competitions further enrich student life, supported by access to a playground shared with the parent trust, SVKM.

e-library:

The "Manubhai P. Sanghvi Knowledge Centre" at Dwarkadas J. Sanghvi College of Engineering is a modern library with 24/7 Wi-Fi, transitioning from a traditional setup to an electronic and digital library. It features advanced automation, currently using the KOHA Integrated Library Management System (v23.05.02). The library offers a vast collection, including 31,270 books, 39,700+ e-books, and 42,000+ e-journals. With web-based access to subscribed resources and an online public access catalog (OPAC), users can conveniently check real-time availability of materials remotely. The library has subscription for the following e-resources.

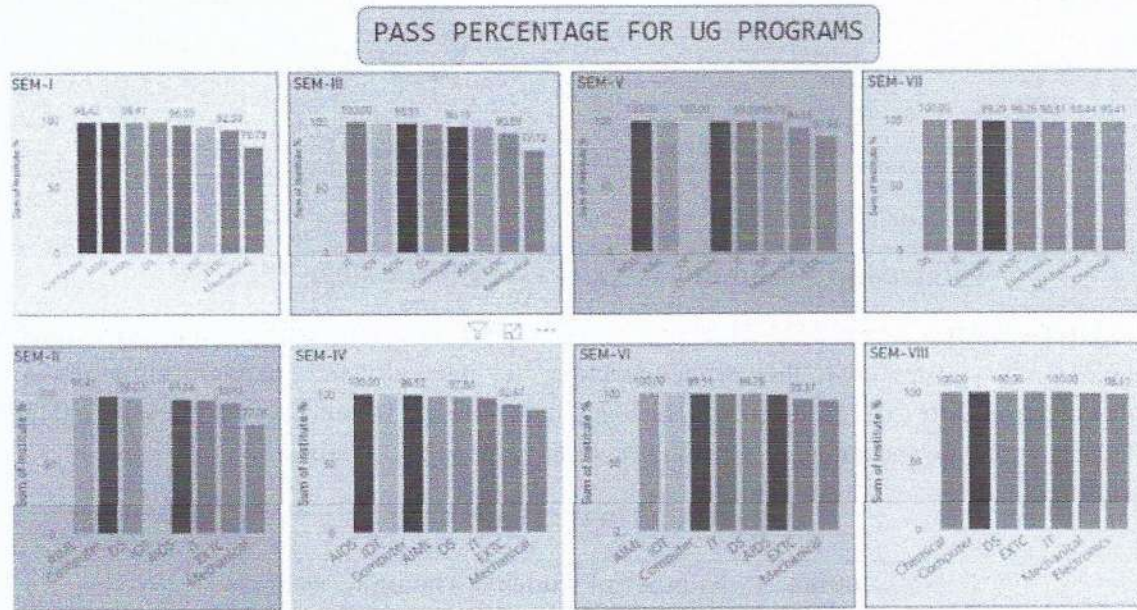
1. e-journals
2. e-ShodhSindhu
3. Shodhganga Membership
4. e-books
5. Databases
6. Remote access toe-resources



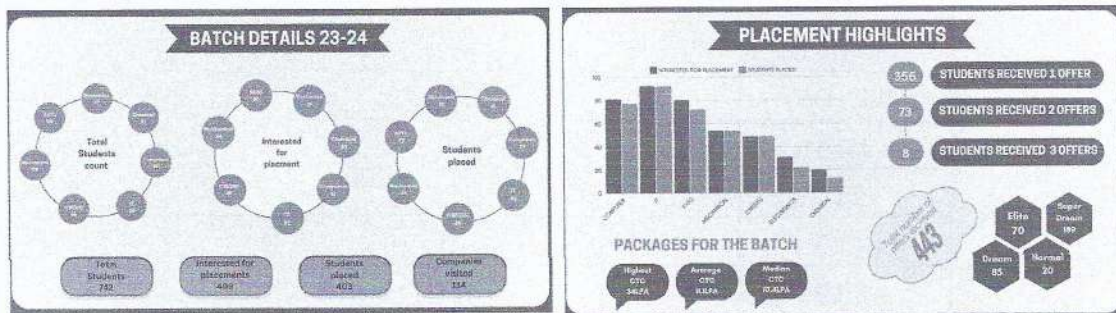
5. STUDENT SUPPORT AND PROGRESSION

5.2 - Student Progression

The semester-wise results for students of the college during 2023-24 are illustrated as follows:



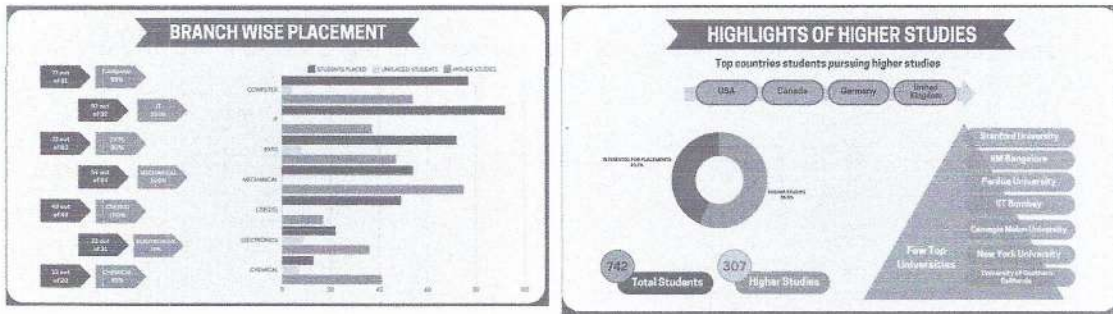
The placement and higher studies for the students of DJSCE during 2023-24 are illustrated using charts as follows:



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Internship Summary Report - Academic Year 2023-24

During the academic year 2023-24, a total of 663 students actively participated in internships, significantly contributing to their academic and professional growth. The internship program, spanning from July 2023 to June 2024, included both paid and unpaid opportunities, providing students with a diverse range of experiences. Details are as given below.

Department-wise Distribution:

Name of the Department	Number of students who underwent the internship
AI_DS	52
COMP	221
CSE (ICB)	39
CSE (DS)	101
CHEM	00
IT	152
ELEX	05
MECH	17
AI_ML	61
EXTC	15
Total	663

The internship records encompass both paid and unpaid opportunities, emphasizing the commitment to offering students a variety of experiences. This approach recognizes the value of internships in skill development, irrespective of the financial compensation.

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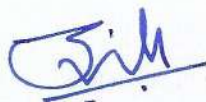
5.3 - Student Participation and Activities:

The college fosters a holistic environment for students through year-round extra-curricular and co-curricular activities. The annual festival "Trinity," organized by the Students & faculty teams featured cultural, technical, sports, and literary events, including highlights, like DJ Night and Musical Concerts. Professional student chapters, such as ACM, CSI, and IEEE, hosted technical events, like seminars, competitions and industrial visits. Departments have advisory boards comprising industry experts, faculty, alumni, and students, while class representatives and maintenance committees address academic and facility-related grievances. The NSS unit actively contributes to societal welfare, and the Alumni Association strengthens ties between alumni and the institute, enhancing its reputation through collaborative efforts.

6. GOVERNANCE, LEADERSHIP AND MANAGEMENT

DJSCE exemplifies effective governance through decentralization and participative management. Its governance framework consists of various statutory committees, such as the Governing Body, Academic Council and BoS, which handle strategic decisions, and non-statutory committees, like the Planning and Evaluation and Grievance Committees, that promote collaborative decision-making. This structure ensures inclusive governance by involving various stakeholders, including students, faculty, and staff, in shaping academic, welfare and operational aspects of the institution. The diverse committee network enables DJSCE to address key areas, like academics, student welfare, cultural and sports activities and emergency responses effectively. As per the UGC guidelines, regular meetings (twice a year) of all Board of Studies, Academic Council, Finance Committee and Governing Body have been conducted during the year.

The college follows a well-defined Institutional Development Plan (IDP) that guides its journey towards excellence. The strategic plan clearly outlines the institution's vision, mission, values, and strategic priorities, focusing on sustainability, innovation, and academic excellence. DJSCE effectively translates this plan into actionable initiatives, ensuring its integration across all operations. Every aspect of the institution, from academic programs to infrastructure development, aligns with the goals set in the strategic plan, reflecting the institution's commitment to growth and achieving its long-term objectives.



Shri Vile Parle Kelavani Mandal (SVKM), the Parent Body, established in 1934, demonstrates strong administrative efficiency and adherence to regulatory standards. The institution complies with the Maharashtra Public Universities Act, 2016, Maharashtra Civil Services Rules and Standard Code ensuring legal alignment and adaptability. SVKM upholds transparency and fairness in its appointment processes, with rigorous procedures for candidate selection and adherence to service rules. The maintenance of accurate records through updated Service Books and soft copies in Oracle reflects the institution's commitment to governance standards and administrative excellence.

The college prioritizes faculty and staff welfare through a range of measures. It offers financial security, career progression and support during challenging times. Notably, a pension scheme was introduced for employees with over ten years of service, providing monthly pensions based on their designation. Faculty members receive Rs. 10,000, while Class I, II, and III employees receive Rs. 5,000, and Class IV employees get Rs. 2,500/- on monthly basis for a period of 10 years upon their superannuation. In the event of an employee's demise, half of the pension benefit is extended to their spouse, highlighting the institution's compassionate approach to welfare. Currently 7 members are availing the benefit of pension scheme.

DJSCE also has gratuity policy in place and following faculty and staff members have received gratuity during the year 2023-24.

Sr. No.	Name of Staff	Gratuity
1	Mrs. Neepa Shah	2,79,440/-
2	Mr. Harish Narula	1,66,870/-
3	Ms. Deepika Dongre	2,83,600/-
4	Mr. E. Narayanan	10,20,000/-
5	Mrs. Rita Lobo	2,50,320/-

Further, 26 members have also availed the facility of Leave Travel Concession during the year as follows:

Sr.No.	Name of Employee	Amount Paid
1	Mr. Vinayak Laxman Khapne	7887/-
2	Mr. Vijay Mhabadi	10516/-

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3	Dr. Ramesh Sutar	4600/-
4	Mr. Arvind Singh	10516/-
5	Mr. Prakash Bavdane	3088/-
6	Mr. Kanubhai Waghela	3492/-
7	Mr. Dilip Gorule	10516/-
8	Dr.(Ms.) Vinaya Sawant	7968/-
9	Mr. Tanaji Biradar	7530/-
10	Mr. Vithal Bodekar	7887/-
11	Mr. Suresh Mohite	10516/-
12	Mr. Yogesh Shirsat	7887/-
13	Mr. Chandrakant Kadu	7887/-
14	Mr. Dattatray Kadam	9600/-
14	Mr. Uday Bhan Singh	718/-
15	Ms. Shreeya Hadkar	5488/-
16	Mr. Vijayendra Gosavi	9600/-
17	Mr. Prasad Dhanorkar	12000/-
18	Mr. Atul Hari Kamble	5899/-
19	Mr. Suresh Darde	7200/-
20	Mr. Tushar Sawant	8400/-
21	Mr. Suresh Panchal	16000/-
22	Mr. Santosh Shinde	7200/-
23	Mr. Sunil K.S.	20000/-
24	Mr. Kiran Deorao	16000/-
25	Dr.(Mrs.) Aparna N. Tamaskar	15286/-
26	Mr. G. M. Wadke	5400/-

6.3 - Faculty Empowerment Strategies

The college implements a Performance Appraisal System that evaluates both teaching and non-teaching staff, ensuring fairness and alignment with institutional goals. Teaching staff are assessed on teaching methods, research, curriculum adherence, and innovation, while non-teaching staff are evaluated on administrative skills and support for academic functions. The system encourages professional development by identifying areas for improvement and recognizing exceptional performance. This appraisal process promotes continuous growth, skill enhancement, and career progression, contributing to a culture of excellence and maintaining high educational standards at the institution.

The institute organized a one-week orientation program for newly joined faculty members to help them adjust to the institution, align with its vision and mission, and understand

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departmental goals. The program also focused on institutional expectations and strategies for success. Additionally, DJSCE has signed a Memorandum of Understanding (MoU) with Eduskills Foundations on March 16, 2024, to offer industry-relevant programs in areas, such as Networking, Cybersecurity, Cloud Computing, and Automation, enhancing skill development among students and preparing them for Industry 4.0.

7. INSTITUTIONAL VALUES AND BEST PRACTICES

College believes in continued engagement of faculty members on regular basis towards skill-set enrichment through Faculty Development Programs / Online Certification Courses. It aims to enhance the technical expertise of the faculty members and to equip them with cutting-edge technologies in this technologically revolutionizing world, so as to pave the way for a world class Higher Educational Institute through:

- Regular faculty skillset enrichment through various programs, like pertinent FDPs, relevant webinars and expert sessions in conventional and emerging areas.
- Consistent Research & Development initiatives
- Motivating Faculty members to create quality e-content
- Enhanced E-library facility

DJSCE also believes in providing a comprehensive, multi-disciplinary & holistic education in engineering to equip the students with a diverse skill set for successful and accomplished professional careers. This is carried out to achieve following:

- Enhancement of graduate employability skills through project based learning, focusing on research and innovation.
- Establish an ecosystem that enhances students' participation in various national and international competitive forums that demonstrate the acquired skill sets.
- Implementation of Personal Development Plan (PDP) through soft skills training to accentuate multidisciplinary and holistic learning, as articulated in NEP-2020.
- Fostering an environment to inculcate ethical and community welfare values to create global citizens.



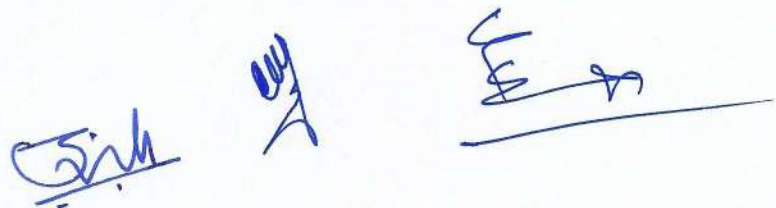
7.1 Institutional Distinctiveness

The institute has been recognized as a Gujarati linguistic minority institution since 2007 and actively promotes an inclusive environment. The institution supports socio-economically disadvantaged, SC, ST, OBC, and J&K communities as well as other categories through various initiatives, including:


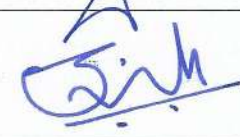

- **Scholarships and Financial Assistance:** Offering merit-based scholarships, freeships, and concessions to economically backward students.
- **Annual Charity Drive & Grain-a-thon:** DJSCE's NSS organized a charity drive raising over Rs 75,000 by selling items made by specially-abled children, and a food grain drive, collecting over 1000 kg of wheat and rice for underprivileged communities.
- **Mental Health Seminar:** A seminar focusing on mental health issues, covering psychiatric care and the connection between mental and physical well-being.
- **Sensory Board Making:** Participation in creating sensory boards for people with disabilities to support their cognitive and physical development.

DJSCE fosters a sense of civic responsibility among its students through various initiatives such as, Newspaper and Book Collection Drive, Meri Maati Mera Desh, Beach Clean-up Drives, Mega Deep Cleaning Program, Swach Bharat Abhiyan, Voter's ID Registration Drive, and Blood Donation Drive.

Various student chapters and clubs foster a professional environment, helping students excel at national and international levels. DJSCE supports traditional art forms and diverse clubs in arts, literature, music, and drama. To boost placements, the institute partners with top organizations for internships and training in emerging fields. Consistently ranked among the top 100 institutions in India, DJSCE is committed to sustained excellence.

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The college has been making steady progress year after year and we wish the college all the best in its future endeavours, i.e., in its efforts towards further enhancing academic quality and in reshaping the careers of future engineers.

Sr. No.	Name of	Signature
1)	Dr. S. M. Khot	
2)	Dr. Vivek Sunnapwar	
3)	Dr. Subhash Shinde	

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