Name of Teaching Staff	: Prof.Rajnarayan Yadav		
Designation	: Assistant professor		
Department	: Mechanical Department		
Date of Joining the	: 02/07/2012		
Institution Email ID	Rajnarayan.yadav@djsce.ac.in :		
Office Contact	. 02242335000		
Google Scholar Link	: https://scholar.google.com/citations?user=c?	7HGfMAAAAAJ&hl=en	
Researchgate Link:	https://www.researchgate.net/profile/Rajnar	ayan-Yadav	
ORCID	https://orcid.org/my-orcid?orcid=0000-0001-9615-284X		
Publons Researcher ID Qualifications with Class / Grade	 https://publons.com/dashboard/settings/profile/ PURSUING PhD (IIT-BOMBAY, Aerospace Department) M.Tech (Machine Design) . – IIT-BHU Banaras Hindu University, First Class, May – 2009 B.F. (Mechanical Engineering) University of Mumbai First Class May – 2005 		
Total Experience in Years	 Example 1 (Arechanical Engineering), Chrystersty of Teaching: More than 15 years 1. Assistant Professor, D.J. Sanghvi College 2. Assistant Professor, PVPP College of Eng 3. Asst. Professor – JSS Academy of Techni 2012. 4. Asst. Professor – ITS Engineering College Industry: 1 Year Engine mates Heat Transfer Ltd., Mulund, f 	e of Engineering from 2.7.2012 till date. gineering, from Feb' 2012 to Jun' 2012. ical Education, from Apr' 2011 to Feb' ge Gr. Noida, Oct'2009 to Apr' 2010 from June 2006 to June 2007.	
Papers Published in Journal:	 [1] "Analysis and manufacturing of aerodynamics components", in "Lecture Notes in Mechanical Engineering", Published by Springer Singapore https://doi.org/10.1007/978-981-15-4485-9_20 [2] "Comparative study of aluminum and composite stub Axle Using FEA", in "Lecture Notes in Mechanical Engineering", Published by Springer Singapore https://doi.org/10.1007/978-981-15-4485-9_46 [3] "Design and Analysis of components of a Rotary Car Parking System" in "Lecture Notes in Mechanical Engineering", Published by Springer Singapore https://doi.org/10.1007/978-981-15-4485-9_46 [3] "Design and Analysis of components of a Rotary Car Parking System" in "Lecture Notes in Mechanical Engineering", Published by Springer Singapore https://doi.org/10.1007/978-981-15-4485-9_57 [4] "Predictive Modeling of Delamination Factor and Cutting Forces in the Machining of GFRP Composite Material Using ANN", in "Lecture Notes in Mechanical Engineering", Published by Springer Singapore. https://doi.org/10.1007/978-981-13-2490-1 		
Papers Presented in Conferences	[1] "Structural analysis of Endodontic restora Engineering", Published by Springer Singapo https://doi.org/10.1007/978-981-19-7971-2_6	ations", in "Lecture Notes in Mechanical ore. 5 <u>3</u>	
Area of Specialization	Finite element analysis, Machine design, Fracture Mechanics, Simulations, Thermo-mechanical analysis, ,MATLAB, PYTHON ,ANSYS		

PhD Guide ? Give field &	:	Field :	
University		<u>University</u> :	
PhDs / Projects Guided	:	<u>PhDs</u> :	
		<u>Projects at</u> Mostors level:	
Books Published / IPRs /	:	Masters level.	1] "STABILIZER SPINDLE FOR FOUR WHEELERS"
Patents			Class: 12-16, Design Application. App. No: 324650-001
			[2] "FIRE EXTINGUISHING EQUIPPED LIFE- SAVING DRONE "Class: 12-07, Design Application. App. No: 318122-001
			[3] "SINGLE STAGE OPEN DIFFRENTIAL (SET) Design No. 378831-001
			[4]"GEARBOX CASING FOR ALL TERRAIN EHICLE" Design No. 320330-001
Professional Memberships	:		SOCIETY OF AUTOMOTINE ENGINEERS (SAE),
			THE INDIAN SOCIETY FOR TECHNICAL EDUCATION (ISTE)
			INDIAN SOCIETY OF MANUFACTURING ENGINEERS (ISME),
Grants fetched	:	Minor Research Grant (University of Mumbai)	Dr. Vinayak H. Khatawate and Prof. Rajnarayan Yadav - Received University of Mumbai Minor Research Grant (No.APD/ICD/2019-20/762 Dtd. 17th March 2020. Sr. No. 863) of Rs. 40000 during 2019-20, for the project titled "Analysis of Load Bearing Capacity of Endodontic Restorations".
Interaction with Professional	:	Guest Lectures:	
Institutions		Other	COURSES, FDP, NPTEL AND OTHERS COURSES
			ATTENDED AND COMPLETED
			COURSERA COURSES
		Achievements	
			1. Learning to Teach Online
			2. Assessment of Higher education professional development
		And	for teachers
			3. Mechanics of Materials- I
		.	4. Mechanics of Materials- II
		Responsibilities:	5. Mechanics of Materials- III
			6. Mechanics of Materials- IV
			7. Solar Basics
			8. Quantum Mechanics

FDPS

- 9. Engineering, Education and Industry Covid -19 prospective.
- 10. Robotics and Industrial Automation
- 11. Innovative teaching pedagogy in technical institute.
- 12. Dynamic response of advance composite.
- 13. Mechanical Manufacturing and Monitoring Using MATLAB
- 14. Intellectual Property rights
- 15. Effective Engineering Teaching In Practice **NPTEL**
- 16. Vibration and Structural Dynamics

OTHER ADVANCE COURSES

- 17. Mechanics of Advance composite Materials
- Theory and analysis of Laminate composite and functionally graded Materials
- 19. Course on software 'Solid works'
- 20. Computer Aided Machine Drawing

Responsibilities as SAE Faculty in-charge (Still continue)

- I am responsible for Membership drive in every academic year.
- I am involving in process of institute's official SAE team's selection every year.
- I have mentored each and every teams at every stages in their growth and progress.
- I am responsible for organizing Value added program which include Solid Works Software, MATLAB: mechanical Application, German language courses.
- I am arranging industrial visit per for students in every semester.
- I am responsible for arranging funds for various seminar/workshop and keep record of it.
- I used to keep updating NBA committee, NAAC committee, and Academic bulletin committee.

	 Responsibilities as SAE Faculty Advisor for DJS KRONOS INDIA (Still continue) As faculty advisor, I am involving in DJS KRONOS INDIA'S every decision making process. I am advising the team in design, prototyping, manufacturing, testing stages of Team's vehicle. I am motivating and encouraging teams to perform better than previous year and they perform outstanding. I was participated in event of SAE to encourage teams for competition at event venue like SAE BAJACOMPITITION, INDORE, and ESI PUNE. I have motivated teams for international competition and they succeed in first attempt. Overall DJS KRONOS INDIA perform exceptionally well in national as well as international competition since inception.
Subjects Taught	 UG Level: Engineering Mechanics, Finite Element Analysis, Machine Design, Kinematics of Machine, Computer Aided Machine Drawing, CAD/CAM/CAE, Strength of Materials. Kinematics of Machinery, Dynamics Of Machinery, Mechanics of materials, environment science, Constitution of India, Theory of Machine PG Level:

Projects Guided	: UG Level:			
	2012-1018 • Designing • Design of • Fabricatio • Design an • Design an • Design an • Prototypir • Design an • Design an • Design an • vehicle • Design ar • stability • Manufactur for proto 2019-20 • Design an • Design an • Design an • Design an • Design an • Design an	and prototyping of a hovercraft floor sweeper. and Prototyping of a Semi-automated Plastering Machine. cryogenic tanks for storage of LNG and liquid ethane. n of Frictionless brakes based on the principle of Eddy Currents d Modeling of Four Wheel Steering System. d Fabrication of Hybrid Car. d fabrication of vehicle passing control system. ng of a power generating system using gravity and buoyancy . d Analysis of Pressure Vessels. d manufacturing of a variable pedal ratio brake system for a BAJA d fabrication of a cycle with increased load carrying capacity and y. uring work cell optimization: Design, layout and cycle time analysis luctivity improvement. d fabrication of disc braking system with Dual piston floating caliper. d fabrication of a structural balancing system using Gyroscope. d fabrication of Exo-skeleton.		
	2020-21 Design an Design an Design of	d Fabrication of subsonic Wind Tunnel d Applications of Warehouse Management Drone Vortex Turbine to generate electricity		
	 2021-22 Design and Manufacturing of Single Stage Open Differential Design, prototyping and manufacture of a STEM toy aimed at introducing automation to children 2022-23 Design and fabrication of a multipurpose prototype for an all terrain vehicle 			
	 Design an 2023-24 Design of Thermo-m Design an 	d Fabrication of a Mechanical Ventilator future mobility concept nechanical analysis of composite tank for cryogenic application d development of an Automated forklift		
	 2024-2025 Prototyping of habitat for extra-terrestrial environment 			
	PG Level: N\A			
Recommended Students for Higher Education	Name of the Student	University/Industry VARIOUS INDIAN INSTITUTE LIKE IIM-A, IIT-B, XLRI, VARIOUS UNIVERSITIES OF USA CERMANY CANADA		
	200+ STUDENTS	VARIOUS UNIVERSITIES OF USA, GERMANY, CANADA.		

Institute/Department Responsibility handled:	 Institutional Level: Faculty in-charge for Society of Automotive Engineers (SAE) student chapter Admission committee NBA Co-ordinator (Institute level Criteria 9 and 10)
	 Department Level: Class in-charge Timetable Co-ordinator Faculty advisor for Official All-Terrain Vehicle (ATV) team DJS KRONOS INDIA. Member of NBA Committee Member of NAAC Committee criteria 5 Mentoring system Member of Master of Engineering/M-Tech syllabus committee Mechanical department brochure preparation for admission and presentation.
Pedagogy Development	