Name of Teaching Staff	:	Prasad Shirodkar
Designation	:	Assistant Professor
Department	:	Mechanical Engineering
Date of Joining the Institution	:	11.07.2011
Email ID	:	prasad.shirodkar@djsce.ac.in
Office Contact	:	022 4233 5000 Ext: 111254

Google Scholar Link	:	https://scholar.google.com/citations?user=uGTsjbQAA&user=r6ee9HgAAAAJ
Research gate Link:		https://www.researchgate.net/profile/Prasad-Shirodkar
ORCID		https://orcid.org/my-orcid?orcid=0000-0002-8407-3826
Publons Researcher ID	:	https://publons.com/dashboard/summary/
Qualifications with Class / Grade	:	**Michigan Technological University, Houghton, MI** M.S. Mechanical Engineering, August-2006, GPA: 3.60, Focus in Industrial Engineering: Value Recovery, Product Life Cycle, **V.J.T.I, University of Mumbai, Mumbai, India,** M.E. - Mechanical Engineering, April-2002, First Class with Dist. Focus in Design: Failure Analysis of Structures. **Datta Meghe COE, University of Mumbai, Mumbai, India**, B.E. - Mechanical Engineering, January 1999, First Class.
Total Experience in Years	:	14 Years Teaching 1.5 Year Industry
Papers Published in Journal:	:	• Kumar, V., P. S. Shirodkar, J. A. Camelio, and J. W. Sutherland, "Value Flow Characterization During Product Lifecycle to Assist in Recovery Decisions," International Journal of Production Research, Vol. 45, No. 18, 2007, pp. 4555-4572 • Avantika S. Prabhu, Dr. K.N.Vijaykumar , Prasad S. Shirodkar, and Sanket K. Joshi, 2020, "Embodied Design of 4-Legged Adult Walker," Journal of Advanced Research in Dynamical and Control Systems, Volume 12 | 07-Special Issue, pp. 2463 - 2468.
Papers Presented in Conferences		• Shirodkar, P. S., V. Kumar, M. E. Jarvie, and J. W. Sutherland, "Exploring Value Flow in the Product Life Cycle to Promote Successful Value Recovery," Proceedings of Sustainable Manufacturing IV - Global Conference on Sustainable Product Development and Life Cycle Engineering, Sao Carlos, Sao Paulo, Brazil, 2006, Paper #LCA02 • Kumar, V., D. J. Bee, P. S. Shirodkar, B. P. Bettig, and J. W. Sutherland, "Towards Sustainable Product and Material Flow Cycles:

		Identifying Barriers to Achieving Product Multi-use and Zero Waste," Proc. of ASME Manufacturing Engineering Division, 2005, (IMECE2005-81347), appeared on CD-ROM.
		• Sarvesh Kulkarni, Vijaya Kumar N. Kottur, and Prasad Shirodkar, 2020, "Design and Development of Cost-Effective Solar Water Heating System," Proceedings of International Conference on Intelligent Manufacturing and Automation, pp. 615 - 624.
		• Aditya H. Bhatt and Prasad S. Shirodkar, 2020, "Lateral Force Modelling Using Magic Formula Tire Model," Proceedings of International Conference on Intelligent Manufacturing and Automation, pp. 753 - 762.
		• Abrar Khulli, Prasad Shirodkar, Vijaya Kumar N. Kottur, and Rajendra Khavekar, 2020, "Evaluation of Piping Isometric Drawings Using Six Sigma Process," Proceedings of International Conference on Intelligent Manufacturing and Automation, pp. 815 - 824
Area of Specialization		Mechanical Engineering
Professional Memberships	:	**ISTE**
Subjects Taught		**UG Level:** Machine Design I, Machine Design II, Kinematic of Machinery, Strength of Material, Mechanical Vibrations, Dynamics of Machinery, Engineering Mechanics, Engineering Drawing, Machine Drawing

Projects Guided	:	**UG Level:**
		• Design and Fabrication of Industrial Palette Jack • Application of CAE in Design of Pressure Vessel • Analysis of Vehicle Dynamics and Kinematics • Value recovery of end used products • Optimisation by Automation of manufacturing of Copper Lugs • Applications of solar energy in residential and industrial sector • Design and manufacturing of sea oil skimmer • Design and fabrication of mechanical wire descaler • Designing of Wind mill to increase its mechanical efficiency • Vehicle Modelling in Simulink • Analysis and Optimization of a Radiant Cooling System • Design and fabrication of Hybrid Solar-Wind Renewable Energy Generator • 3D Printing For Medical Implants • Electrified roads for charging Evs • Design and Analysis of Remotely Operated Underwater Vehicle for Structural Inspection • Design and Analysis of a Ventilator • Design and prototyping of automated warehouse storage lift **PG Level:** • Value Recovery of End of Life Products: Using Game Theory Approach • Evaluation of Piping Isometric Drawings UsingSix Sigma Process

Recommended Students for Higher Education		**Name of the Student**	**University/Industry**
		About 40 students at UG level	Universities in US, Germany

Institute/Department Responsibility handled:		• Library co-ordinator: Communicating requirement of books to the library. Co-ordinating NPTEL course registration for the students of Mechanical Engineering Department. • Head, 'Program Assessment Committee' in Mechanical Engineering Department. • Checking punctuality of lectures and practical on a weekly basis • Departmental Coordinator for NBA Criteria 2 • Institute level coordinator for NAAC Criteria 1 • Exam Section: Jt. Convener (Overall Exam – Co-ordinator) • ABET Committee member • Admission Committee Member

Pedagogy Development		• Developed, a five-day course on FEA and Modelling, using open-source software, such as 'FREECAD' & 'Z88 Aurora' • Developed content to teach application of programming and simulation in Mechanical Engineering using MATLAB