

<b>Name of Faculty</b>	Dr. Sachin D. Daxini
<b>Designation</b>	Associate Professor
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<b>Contact number</b>	9712849593
<b>Total Experience</b>	16 Years
<b>Teaching</b>	14 years
<b>Industry</b>	3 years
<b>Professional Summary</b>	Working as an Asst. Professor in Mechanical Engineering Department from 2010, working as PG Coordinator (Advance Manufacturing Systems), working as an NBA Team member from department, Life member of ISTE, Professional experience as Design and Development Engineer at L & T and Banco Products India Ltd.
<b>Current Activities</b>	Working as an Asst. Professor – Mechanical Engineering Department Coordinator of PG course – Advance Manufacturing Systems
<b>Specialization Areas</b>	CAD/CAM, Machine Design, FEM, Meshless Methods
<b>Subject Taught (UG/PG)</b>	Machine Design and Industrial Drafting, Design of Machine Elements, Machine Design, Computer Aided Design, Design for Manufacturing and Assembly, Total Quality Management, CAD-CAM Systems
<b>Qualifications</b>	Ph.D., M.E. (CAD/CAM) B.E. (Mechanical Engg.)
<b>Skills</b>	Well versed in Matlab programming, Proficiency in design and analysis software like Creo 4.0, SolidWorks and CATIA
<b>Achievements</b>	- -
<b>Research Project</b>	
<b>Publications</b>	<ol style="list-style-type: none"> <li>1. “Numerical shape optimization based on meshless method and stochastic optimization technique”, Engineering with Computers, Springer, Published online, DOI 10.1007/s00366-019-00714-3</li> <li>2. “Parametric shape optimization techniques based on meshless methods: A review”, Structural and Multidisciplinary Optimization, Springer, Vol. 56 Issue 5, 1197-1214, 2017, DOI 10.1007/s00158-017-1702-8</li> <li>3. “Multi-objective optimization of Squeeze Cast Process parameters using Artificial Bee Colony Algorithm”, National Conference on Design, Analysis and Optimization in Mechanical Engineering</li> </ol>

(DAOME) – 18<sup>th</sup> and 19<sup>th</sup> March, 2016, M. S. University, Vadodara

4. “Meshless formulation and parameters study for an elastic bar problem”, International Conference on Electrical, Electronics, and Optimization Techniques (ICEEOT) – 3<sup>rd</sup> - 5<sup>th</sup> March, 2016, DMI College of Engineering, Chennai (DOI - 10.1109/ICEEOT.2016.7754975)

5. “Parametric study in Element Free Galerkin method for an elastic bar”, International Conference on Electrical, Electronics, and Optimization Techniques (ICEEOT) – 3<sup>rd</sup> - 5<sup>th</sup> March, 2016, DMI College of Engineering, Chennai (DOI - 10.1109/ICEEOT.2016.7754740)

6. “Effect of selectable parameters on performance of Meshless Local Petrov Galerkin (MLPG) method”, International Journal of Research in Aeronautical and Mechanical Engineering, Vol. 2, Issue 5, 2014, ISSN (ONLINE): 2321-3051

7. “A Review on Recent Contribution of Meshfree Methods to Structure and Fracture Mechanics Applications”, The Scientific World Journal, vol. 2014, Article ID 247172, 13 pages, 2014.  
doi:10.1155/2014/247172, ISSN: 2356-6140 (Print) ISSN: 1537-744X (Online)

8. “Introduction of Meshfree Methods and Implementation of Element Free Galerkin (EFG) Method to Beam Problem”, International Journal on Theoretical and Applied Research in Mechanical Engineering (IJTARME), Vol. 2, Issue 3, 2013, ISSN (Print):2319-3182

9. “An Implementation of Element Free Galerkin Method to One Dimensional Bar Problem”, National Conference on Emerging Vistas of Technologies in 21<sup>st</sup> Century, FUTURISTIC TRENDS IN MECHANICAL ENGINEERING (NCEVT‘13), 10<sup>th</sup> & 11<sup>th</sup> May, 2013

10. “Introduction to Meshless Local Petrov Galerkin Method and its application to One dimensional Bar Problem”, National Conference on Advances in Steel Structures – Design, Development and Analysis in 2011

11. “Static and Dynamic Analysis of Column Structure for Vertical Machining Center”, International Conference on Advances in Mechanical Engineering (ICAME-2010) at SVNIT, Surat, 2010

12. “Static Analysis and Optimization of Headstock: A case study of Vertical Machining Center”, ICAME-2009/ SVNIT, Surat, 2009

13. “Computer Aided Design of Cryogenic Storage Vessel: A Case Study”, National Conference on Advanced Trends in Mechanical Engineering, YMCA, Faridabad, 2007

## Activities and honours

- » Reviewed articles for Springer and Elsevier journals – Journal of the Institution of Engineers (India): Series C, Engineering Analysis with Boundary Elements
- » Reviewed articles for National Level Research Journal entitled “**GIT-Journal of Engineering and Technology (2016, Ninth Volume, National Level Research Journal- ISSN 2249 – 6157)**”
- » Delivered an expert talk on „Meshless Methods (MMs): Next generation computational techniques” in STTP ‘**Technological Advancements in Mechanical Engineering**’ organized on 6<sup>th</sup> - 10<sup>th</sup> February, 2017 by Mechanical Engineering Department Shantilal Shah Engineering College, Bhavnagar
- » Delivered an expert talk on „Meshless Methods (MMs): Next generation computational techniques” in STTP ‘**Parametric Shape Optimization based on Meshless Methods (MMs)**’ organized on 6<sup>th</sup> - 10<sup>th</sup> February, 2017 by Mechanical Engineering Department Shantilal Shah Engineering College, Bhavnagar
- » Conducted one day workshop on „Implementation of 5 S” in Roger Motors, Rajkot in 2009
- » iDesign” Training Program in association with Bridgemont Ltd., UK in 2008