



**DHARMSINH DESAI UNIVERSITY, NADIAD**  
**FACULTY OF TECHNOLOGY**  
**MECHANICAL ENGINEERING DEPARTMENT**

**Noteworthy Publications by Faculty Members**

Sr. No.	Year	Publisher	Name of Staff	Publication Details
1	2021	Emerald	Dr. S. J. Raval	Analyzing the critical success factors influencing Lean Six Sigma implementation: fuzzy DEMATEL approach
2	2021	Elsevier	Prof. P. R. Mehta	Hybrid Heat Transfer Search and Passing Vehicle Search optimizer for multi-objective structural optimization
3	2021	Springer	Prof. P. R. Mehta	Numerical analysis of multiphase flow in chemical looping reforming process for hydrogen production and CO2 capture
4	2021	Masinski Fakultet Kragujevac	Prof. K. R. Shah	Analysis of Friction and Wear as system response using Indegiously fabricated Tribometer
5	2020	Springer	Prof. P. N. Tank	Pressure drop, local heat transfer coefficient, and critical heat flux of DNB type for flow boiling in a horizontal straight tube with R-123
6	2020	Elsevier	Dr. N. S. Patel	Colloidal PTFE dispersion in commercial engine oil: Lubrication by Pluronic adsorption at the interface
7	2020	Japanese Society of Tribologist	Dr. N. S. Patel	Experimental tribometric characteristics analysis of a ferrofluid based journal bearing system
8	2020	Emerald	Dr. S. J. Raval	Analyzing the Lean Six Sigma enabled organizational performance to enhance operational efficiency
9	2020	Inderscience	Dr. S. J. Raval	On achieving the objectives of Lean Six Sigma by ranking the solutions using hybrid AHP TOPSIS approach under fuzzy environment
10	2020	ISEE	Prof. P. R. Mehta	Mathematical modeling and performance assessment of solar air collector

Sr. No.	Year	Publisher	Name of Staff	Publication Details
11	2019	Elsevier	Prof. D. N. Patel	Application of 3D view factor method for heat fluxes deposition on ITER cryostat Thermal Shield
12	2019	Emerald	Dr. S. J. Raval	Benchmarking the Lean Six Sigma performance measures: a balanced score card approach
13	2018	Taylor & Francis	Dr. S. J. Raval	Lean Six Sigma implementation: modelling the interaction among the enablers
14	2018	Emerald	Dr. S. J. Raval	Revealing research trends and themes in Lean Six Sigma: from 2000 to 2016
15	2017	Elsevier	Dr. N. S. Patel	Experimental performance analysis of ferrofluid based hydrodynamic journal bearing with different combination of materials
16	2017	Emerald	Dr. N. S. Patel	Hydrodynamic journal bearing lubricated with a ferrofluid
17	2017	Emerald	Dr. S. J. Raval	Study on Lean Six Sigma frameworks: a critical literature review
18	2017	Elsevier	Prof. A. R. Mengar	CFD Analysis of Sputtered TiN Coating
19	2016	IOP Science	Prof. A. R. Mengar	Modelling and analysis of sputter deposited ZrN coating by CFD

For more details on faculty publications please click the following link

<https://scholar.google.com/citations?user=zbuxepoAAAAJ&hl=en&authuser=3>