



Shri Vile Parle Kelavani Mandal's

DWARKADAS J.SANGHVI COLLEGE OF ENGINEERING

(Empowered Autonomous) Affiliated to the University of Mumbai



DEPARTMENT OF MECHANICAL ENGINEERING

List of Intellectual Property Rights (IPR) – Patents

Sr. No.	Name of the Faculty	Status	Title	Publisher	Patent Application and Journal Number	Publication Date
1	Dr. Hari Vasudevan, Dr. K N Vijaya Kumar, Dr. Vinayak H. Khatawate	Published	Tree Resembled Fire Combat System	Patent office, Government of India	Application No. 2022210458 49, Journal No. 11/2024	15/03/2024
2	Mehul Prajapati	Granted	An Assembly of Abrasive Jet Machining	Republic of South Africa	2022/02026	28/04/2022
3	Dr. Makrand Rakshe	Granted	Method and Apparatus for Fabricating High Aspect Ratio Structures	Patent office, Government of India	Indian Patent Application No. 2020210346 04	08/12/2023
4	Dr. Makrand Rakshe	Granted	Method and Apparatus for Fabricating High Aspect Ratio Structures	United States	US national Phase application No. 17/276,104 US20230183 628A1	10/06/2025
5	Dr. Makrand Rakshe	Published	Perfusion Phantoms and Method of Fabricating Thereof	Patent office, Government of India	Indian Application No.:2024210 59519	30/08/2024



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6	Rajkumar Bhimgonda Patil	Granted	Unmanned Aerial Vehicle Based Realtime Fault Detection System for Photovoltaic Power Station and Method Thereof	Patent office, Government of India	Application No. 2022210311 94	21/03/2025
7	Mehul Prajapati	Published	An Artificial Intelligence Powered Ultrasonic Assisted Rotary Tool Micro Electrochemical Discharge Machining System	Patent office, Government of India	Application No.2024210 45349	26/07/2024
8	Dr. Sanjeev Thool	Granted	A Nanofluid-Based Microchannel Cooling System (MCHS) for Efficient Cooling in Electronic Devices	German Patent	Utility model No. 20 2024 104 344	09/10/2024
9	Dr. Sandip Mane	Published	Smart Hydrogen Transport Network with Distributed Digital Twin Monitoring Architecture	Patent office, Government of India	Application No. 2026114002 4	08/05/2026
10	Dr. Sandip Mane	Published	AI-Integrated Solar Energy Driven Multi-Crop Harvesting System for Sustainable Small Farm Mechanization	Patent office, Government of India	Application No. 2026410727 78	19/06/2026