


Name of Teaching Staff	: Prof.Rajnarayan Yadav	
Designation	: Assistant professor	
Department	: Mechanical Department	
Date of Joining the Institution	: 02/07/2012	
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Google Scholar Link	: https://scholar.google.com/citations?user=c7HGfMAAAAAAJ&hl=en	
Researchgate Link:	https://www.researchgate.net/profile/Rajnarayan-Yadav	
ORCID	https://orcid.org/my-orcid?orcid=0000-0001-9615-284X	
Publons Researcher ID	: https://publons.com/dashboard/settings/profile/	
Qualifications with Class / Grade	: M-Tech (Machine Design) (First Class) IIT-BHU	
Total Experience in Years	: Teaching: 13 years 1. Assistant Professor, D.J. Sanghvi College of Engineering from 2.7.2012 till date. 2. Assistant Professor, PVPP College of Engineering, from Feb' 2012 to Jun' 2012. 3. Asst. Professor – JSS Academy of Technical Education, from Apr' 2011 to Feb' 2012. 4. Asst. Professor – ITS Engineering College Gr. Noida, Oct'2009 to Apr' 2010 Industry: 1 Year Enginemates Heat Transfer Ltd., Mulund, 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_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		
Area of Specialization	Finite element analysis, Machine design, Fracture Mechanics, Simulation, Thermo mechanical analysis	

PhD Guide ? Give field & University	:	Field: University:	
PhDs / Projects Guided	:	PhDs : Projects at Masters level:	
Books Published / IPRs / Patents	:	Books (Editors for conference Proceedings on Springer)	[1] “STABILIZER SPINDLE FOR FOUR WHEELERS” 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
Professional Memberships	:		SOCIETY OF AUTOMOTIVE ENGINEERS (SAE), INDIAN SOCIETY OF MANUFACTURING ENGINEERS (ISME), THE INDIAN SOCIETY FOR TECHNICAL EDUCATION (ISTE)
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 Institutions	:	Guest Lectures: Other Achievements and Responsibilities:	
Subjects Taught		UG Level: Engineering Mechanics, Finite Element Analysis, Machine Design, Kinematics of Machine, Computer Aided Machine Drawing, CAD/CAM/CAE, Strength of Materials. PG Level:	

Projects Guided	<p>UG Level:</p> <ul style="list-style-type: none"> • Designing and prototyping of a hovercraft floor sweeper. • Designing and Prototyping of a Semi-automated Plastering Machine. • Design of cryogenic tanks for storage of LNG and liquid ethane. • Fabrication of Frictionless brakes based on the principle of Eddy Currents • Design and Modelling of Four Wheel Steering System. • Design and Fabrication of Hybrid Car. • Designing, simulation and prototyping of a rotary car parking system. • Design and fabrication of vehicle passing control system. • Prototyping of power generating system using gravity and buoyancy . • Design and Analysis of Pressure Vessels. • Design and manufacturing of a variable pedal ratio brake system for a BAJA vehicle. • Design, analysis and manufacturing of an aerodynamic device for FSAE car. • Design and fabrication of a cycle with increased load carrying capacity and stability. • Manufacturing work cell optimization: Design, layout and cycle time analysis for productivity improvement. • Prototyping of a fire extinguisher equipped lifesaving drone. • Design and fabrication of disc braking system with Dual piston floating caliper. • Design and fabrication of a structural balancing system using Gyroscope. • Design and fabrication of Exo-skeleton. • Design and fabrication of subsonic tunnel • Design and application of warehouse drone. • Design of vertex turbine to generate electricity • Design and Manufacturing of Single Stage Open Differentia • Design, prototyping and manufacture of a STEM toy aimed at introducing automation to children <p>PG Level: N/A</p>				
Recommended Students for Higher Education	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 5px;"><u>Name of the Student</u></th> <th style="text-align: left; padding: 5px;"><u>University/Industry</u></th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">200+ STUDENTS</td> <td style="padding: 5px;">VARIOUS INDIAN INSTITUTE LIKE IIM-A, IIT-B,XLRI, VARIOUS UNIVERSITIES OF USA, GERMANY, CANADA.</td> </tr> </tbody> </table>	<u>Name of the Student</u>	<u>University/Industry</u>	200+ STUDENTS	VARIOUS INDIAN INSTITUTE LIKE IIM-A, IIT-B,XLRI, VARIOUS UNIVERSITIES OF USA, GERMANY, CANADA.
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Institute/Department Responsibility handled:	<p>Institutional Level:</p> <ul style="list-style-type: none"> • Faculty in-charge for Society of Automotive Engineers (SAE) student chapter. • Admission committee. • NBA Co-ordinator (Institute level Criteria 10). <p>Department Level:</p> <ul style="list-style-type: none"> • Class in-charge • Time table In-charge • NBA Committee • NAAC Committee • Faculty advisor for Official All-Terrain Vehicle (ATV) team DJS KRONOS INDIA. • M.E syllabus committee • Mentoring system 				

Pedagogy Development		
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