

Sushant Hanamantrao Patil

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EDUCATION

Program	Institution	Percentage/CGPA	Year
M.Tech (Machine Design)	IIT Madras	8.21	2013
B.E.(Mechanical)	Govt. college of engg., Karad	67.36	2009

SCHOLASTIC ACHIEVEMENTS

- All India Rank 234 in GATE 2011

TECHNICAL SKILLS

- Software proficiency: MSC.ADAMS, ANSYS, PRO-E, Auto-CAD, COUSTYX

PROJECTS

- M.Tech Project: Dynamic and Acoustical Analysis of Connecting Rod using integrated CAD/CAE**
Guide: Dr. N. Ganesan. (Jun 2012- May 2013)
 - Finite element dynamic analysis and parametric study of flexible slider-crank mechanism was done using **ANSYS-ADAMS Interface**.
 - Acoustical parametric study of connecting rod has been completed using **COUSTYX** software.
- Design of wind mill gearbox** (Aug 2011-Nov 2011)
 - Guide: Dr. M. M. Mayuram, Machine Design section, IIT Madras.

INTERNATIONAL PUBLICATIONS

- International Conference on Automation and Mechanical Systems 2013, Faridabad, India*, 'Acoustical studies of slider crank mechanism'.
- International Journal of Research in Advent Technology, ICIMCE 2019*, 'Condition Monitoring And Parametric Analysis Of Planetary Gearbox', E-ISSN: 2321-9637, pp no. 87-92.
- International Journal for Research in Applied Science & Engineering Technology (IJRASET)*, Design Failure Modes and Effects Analysis (DFMEA) of Self Propelled Onion Harvester (TIFAN Vehicle), ISSN: 2321-9653, Volume 8 Issue X Oct 2020, pp no. 421-431

PATENT FILLED

- Patent filled for **.ARTIFICIAL NON-STICK FILM ON TOILETS, URINALS AND WASH-BASINS** dated 03/02/2020

PROFESSIONAL EXPERIENCE

- Assistant Professor Mechanical Engineering at Government College of Engg. Karad** (June 2017- present)
- Graduate Engineer Trainee in **Burckhardt Compression Pvt. Ltd. Pune** (Oct 2009- May 2010)
 - Completed induction Training.
 - Worked in Customer support and Service department.
- Industrial training of 15 days in the **Qudromatic Pvt. Ltd. Karad** (Jun 2007)

STTP/WORKSHOP/FDP ATTENDED

- Two weeks **FDP on Advances in applied mathematics to engineering** @GCE Karad. (Dec 2017)
- Two days **workshop** on Research opportunities in **condition monitoring and fault diagnosis of machine tools** @ JSPM Tathawade Pune.
- One week **STTP on Analytical and experimental methods in vibrations** @GCE Karad. (Feb 2018)
- One week **STTP on enhancing teaching learning process and research skills** @ GCE Karad. (Oct- Nov 2018)
- Twelve week **NPTEL** course on **Machinery fault diagnosis and signal processing**. (Jan-April 2018)
- One week **STTP on advances and practices in power generation system** @GCE Karad. (Dec 2019)
- NPTEL – FDP outcome based pedagogic principles for effective teaching** (Aug-Sep 2018)
- NPTEL- FDP Noise management and control** (Jul-Oct 2018)

- SWAYAM-Digital **Transformation in Teaching Learning Process**-2 weeks online course (April 2020)
- Online FDP on "**Outcome Based Education : A Step Towards Excellence** (May 2020)
- One week FDP " Research in Energy Technologies (Jun 2020)
- Online FDP on "Research Opportunities in Advanced Manufacturing Processes (Jun 2020)
- Online FDP on "Applications of finite element analysis & computational dynamics using ANSYS (Jun 2020)
- NPTEL-Online-12 weeks course- **Product design and manufacturing** (Jan- April 2020)
- NITTT- Module1-Orientation towards Technical Education and Curriculum Aspects (Feb 2021)
- NITTT- Module3- Communication Skills, Modes and Knowledge Dissemination (Feb 2021)
- NITTT- Module5- Technology Enabled Learning andLife-Long Self-Learning (Feb 2021)
- NITTT- Module7- Creative Problem Solving, Innovation and Meaningful R&D (Feb 2021)

SUBJECTS TAUGHT

- Analysis of mechanical elements, Dynamics of machines, Kinematics of machines