

PROF. RAKHADE R. D.

Assistant Professor

Dept. of Mechanical Engineering,
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**M. Tech in Industrial Process Equipment Design,
Professional Experience- 10 Years 02 Month**



PROFESSIONAL EXPERIENCE

Organisation : K. K. Wagh Institute of Engineering Education and Research, Nashik. **(Pune University)**

Designation : Assistant Professor **(UGC Approved)**

Duration : (17 June 2013 to till date) **8 Years 5 Months**

Responsibility:

Departmental-

- Subject Taught
- MESA Co-ordinator
- Project Co-ordinator
- NSS Assistant Program Officer
- Mentor Co-ordinator
- Project and Seminar Guide
- R & D Coordinator
- GATE Centre Coordinator.
- NAAC Criteria 2
- NBA criteria 6
- Admission Duty

Institute-

- Work in Facilitation Centre (FC)
- Work in Application Receipt Centre (ARC)
- Feed Back Mechanism
- First Year Admission Duty
- Direct Second Year Admission Duty

University-

- University Exam Invigilation duty
- Paper Assessment in CAP centre
- Internal and external Examiner for Oral / Practical / TW Exam.

Organisation : S.N.D. College of Engineering & Research Centre, Yeola, Nashik. **(Pune University)**

Designation : Assistant Professor **(UGC Approved)**

Duration : (8 Sep 2011 to 12/06/2013) **1 Year 9 Months**

Responsibility:

Departmental-

- Subject Taught
- Admission Duty

Institute-

- Newsletter Editor
- Work in Application Receipt Centre (ARC)
- First Year Admission Duty
- Direct Second Year Admission Duty

University-

- University Exam Invigilation duty
- Paper Assessment in CAP centre

SCHOLASTICS

- 2011 **M.Tech.** in **Industrial Process Equipment Design** from Sardar Vallabhbhai National Institute of Technology **(NIT)** Surat, Gujarat with scored 8.14 CGPA (1st Class with Distinction).
- 2008 **B.E.** in **Mechanical Engineering** from Government College of Engineering, Chandrapur **(GEC)**, Nagpur University, Maharashtra with scored 67.30 % (1st Class with Distinction).
- 2005 **Diploma** in **Mechanical Engineering** from Government Polytechnic **(GP)**, Bramhapuri, Chandrapur, MSBTE Board, Maharashtra with scored 74.00 % (1st Class).
- 2002 **Higher Secondary** from Nagpur Board, Maharashtra with scored 58.67%
- 2000 **Matriculation** from Nagpur Board, Maharashtra with scored 59.06%

RESEARCH PAPER REVIEWER

- 1) Research Paper **Reviewer** of **MECHPGCON- 2015**, The First Mechanical Engineering Post Graduate Students Conference, Organised by Flora Institute of Technology, Pune in Association with BOS, Mechanical Engineering, SPPU, Pune, **July 2015**

RESEARCH PUBLICATIONS

TOTAL PAPER PUBLISHED: 19

Paper Published in International Journals: 10

- 1) **Rakhade R. D.**, Patil N. V., Pardeshi M. R., Mhasde C. S., Optimal Choice of Agricultural Drone using MADM Methods, International Journal of Technological Innovation in Modern Engineering and Science (**IJTIMES**), e- ISSN :2455-2585, Volume 7, Issue 4, PP 1-7, Impact Factor 5.85, **April 2021**.
- 2) **Rakhade R. D.**, Patil N. V., Design and Manufacturing of Automated Agriculture Irrigation System, International Journal of Technological Innovation in Modern Engineering and Science (**IJTIMES**), e- ISSN :2455-2585, Volume 4, Issue 8, PP 120-125, Impact Factor 5.22, **Aug 2018**.
- 3) Patil N. V., **Rakhade R. D.**, Experimental Analysis of tribological behaviours of Submersible Pump Thrust Bearing using Taguchi Method, Journal of Emerging Technologies and Innovative Research (**JETIR**), ISSN :2349-5162, Volume 5, Issue 7, PP 212-218, Impact Factor 5.87, **July 2018**.
- 4) **Rakhade R. D.**, Patil N. V., Panchbhai M. P., Application of Grenade Explosion Method (GEM) Optimization for Plate-Fin Type Heat Exchanger (PFHE), IOSR Journal of Mechanical and Civil Engineering (**IOSR-JMCE**), ISSN (e):2278-1684, ISSN (p): 2320-334X, PP 12-15, DOI: 10.9790/1684-17010031215, Impact Factor 3.781, **March 2017**.
- 5) **Rakhade R.D.**, Panchbhai M.P., Gujrathi A.S., Application of Hill Climbing Algorithm for Optimization of Plate Fin Heat Exchanger, Journal of Refrigeration, Air Conditioning, Heating and Ventilation (**JoRACHV**), ISSN: 2394-1952, Volume 2, Issue 1, PP 01-05, **Feb 2015**.
- 6) Ghodake A. P., **Rakhade R.D.**, Maheshwari A.S., Effect of Burnishing Process on Behaviour of Engineering Materials - A Review, IOSR Journal of Mechanical and Civil Engineering (**IOSR-JMCE**), ISSN 2278-1684, Volume 5, Issue 5, PP 09-20, Impact Factor 3.781, **April 2013**.
- 7) **Rakhade R. D.**, More K.C., Multi-objective Optimization of Sandwich Panel Heat Pipe Using Grenade Explosion Method (GEM), International Journal of Computer Applications & Business Intelligence (**IJCABI**), **2012**.
- 8) Shende M.D., More K. C., **Rakhade R. D.**, An Experimental Investigation to Control the Flow Emerging From a Wide Angle Diffuser, IOSR Journal of Engineering (**IOSR-JEN**), Volume 2, Issue 8, PP 27-32, ISSN: 2250-3021, Impact Factor 1.645, **August 2012**.
- 9) More K.C., **Rakhade R. D.**, Cost Optimization of Cooling Tower Geometry using Hybrid Optimization Technique, International Journal of Computer Applications (**IJCA**), ISBN: 978-93-80866-64-0, Published by Foundation of Computer Science, New York, USA, Impact Factor 0.821, **March 2012**.
- 10) **Rakhade R. D.**, Rao R. V., Multi-objective Optimization of Axial Ω Shaped Micro Grooves Heat Pipe Using Grenade Explosion Method (GEM), International Journal of Advances in Thermal Science and Engineering (**IJATSE**), Volume 2, Issue 2, PP 61-66, ISSN: 0976-6820, Serials Publication, New Delhi, India, **2011**.

Paper Published in International Conferences: 04

- 1) **Rakhade R. D.**, More K.C., Multi-objective Optimization of Sandwich Panel Heat Pipe Using Grenade Explosion Method (GEM), International Conference on Recent Technologies (**ICORT - 2012**), M6, 1-4, IOK-COE, Sikrapur, Pune, Maharashtra, India – 412208, **Feb 9-11, 2012**.
- 2) **Rakhade R. D.**, More K.C., Optimization of Heat Pipe for Space Application Through Grenade Explosion Method (GEM), 3rd International Conference on Computational Intelligence Application (**ICCIA - 2012**), M267, 37, SIT & RC, Nashik, Maharashtra, India – 422213, **Feb. 11-12, 2012**.
- 3) More K.C., **Rakhade R. D.**, Cost Optimization of Cooling Tower Geometry using Hybrid Optimization Technique, 3rd International Conference on Computational Intelligence Application (**ICCIA - 2012**), M266, 36, SIT & RC, Nashik, Maharashtra, India – 422213, **Feb. 11-12, 2012**.
- 4) **Rakhade R. D.**, Rao R. V., Multi-objective Optimization of Axial Ω Shaped Micro Grooves Heat Pipe Using Grenade Explosion Method (GEM), 5th International Conference on Advances in Mechanical Engineering (**ICAME-2011**), PP 1115- 1119, SVNIT, Surat, Gujarat, India. – 395 007, **June 06-08, 2011**.

Paper Published in National Conferences: 05

- 1) **Rakhade R. D.**, Patil N. V., Panchbhai M. P., Application of Grenade Explosion Method (GEM) Optimization for Plate-Fin Type Heat Exchanger (PFHE), 6th National Conference on Recent Development in Mechanical Engineering (**RDME 2017**), MES college of engg., Pune, Maharashtra, India – 410401, PP 12-15, **March 17-18, 2017.**
- 2) **Rakhade R. D.**, Shende M.D., More K. C., Minimize Cost of Shell and Tube Heat Exchangers using Grenade Explosion Method (GEM), 1st National Conference on Innovations in Mechanical Engineering (**IME 2012**), SIT Lonavala, Pune, Maharashtra, India – 410401, **April 19-20, 2012.**
- 3) **Rakhade R. D.**, Patil A.A., Design Optimization of Shell and Tube Heat Exchangers Using Grenade Explosion Method (GEM), National Symposium on Engineering and Research (**NSER 2012**), MES Nashik, Maharashtra, India – 422013, **April 14, 2012.**
- 4) Shende M.D., More K. C., **Rakhade R. D.**, An Experimental Investigation to Control the Flow Emerging from a Wide Angle Diffuser, National Symposium on Engineering and Research (**NSER 2012**), MES Nashik, Maharashtra, India – 422013, **April 14, 2012.**
- 5) More K.C., **Rakhade R. D.**, Design Optimization of Shell and Tube Heat Exchangers Using Simulated Annealing Algorithm (SAA) , 1st National Level Paper Presentation, **Avishkar 2012**, SND COE & RC, Yeola, Maharashtra, India – 423401, **March 26, 2012.**

ORGANISED WORKSHOPS/STTP/FDP/SEMINARS/ WEBINAR/TECHNICAL EVENT

- ⇒ Organised one day online workshop on "**Design & Development of Prototype**" for staff and students at K. K. Wagh Engineering Institute and Research, Nashik on 27th March 2021.
- ⇒ Organised one day online webinar on "**Impact of Students Participation in projects**" for students at K. K. Wagh Engineering Institute and Research, Nashik on 09th Jan 2021.
- ⇒ Organised one day online workshop on "**Aspects of Green Technologies**" for staff and students at K. K. Wagh Engineering Institute and Research, Nashik on 25th May 2020.
- ⇒ Organised one day Seminar on "**AMVI Exam 2020 prepration**" for staff and students at K. K. Wagh Engineering Institute and Research, Nashik on 22th Feb 2020.
- ⇒ Organised Competition on "**Mech Quiz**" for students at K. K. Wagh Engineering Institute and Research, Nashik on 07th Jan 2017.

ATTENDED WORKSHOPS/STTP/FDP/SEMINARS/WEBINAR/ TECHNICAL EVENT

- ⇒ Attended five days Online Workshop on '**Wok Study-Towards Effective Productivity**' Organized by Pimpri Chichwad Collage of Engineering, Pune. **04 -08 Oct 2021.**
- ⇒ Attended Two days Online Workshop on '**Regional Research Symposium on Problem Based Learning (RRSPBL)**' Organized by Karnataka State Higher Education Council in collaboration with Aalborg University Denmark. **18 -19 June 2021.**
- ⇒ Attended Three Weeks Online Course on '**How To Create a Website in a Weekend! (Project-Centered Course)**' Conducted by Coursera at The State University of New York, Grade Achieved: 100% **05 May 2021.**
- ⇒ Attended Online Course on '**Problem Based Learning in Higher Education**' Conducted by Aalborg university, Denmark **27 April 2021.**
- ⇒ Attended one week online STTP on '**Advanced Engineering optimization Through Intelligent Techniques**' organize by S.V. National Institute of Technology Surat, 01-05 Sep 2020.
- ⇒ Attended Three days online workshop on '**Designing for Experience: Applying Design Thinking to Learning Organization**' organize by K. K. Wagh Institute of Engineering & Research, Nashik **17-20 July, 2020.**
- ⇒ Attended Twelve Weeks Online Course on '**NBA Accreditation and Teaching –Learning in Engineering (NATE)**' Conducted by National Programme on Technology Enhanced Learning (NPTEL) is a joint initiative of the IISc., Grade Achieved: 93% **27 Jan 2020 to 26 April 2020.**
- ⇒ Attended One week online FDP on '**Funding Opportunities for Engineering Teachers & Technical Paper Writing**' organize by Department of Mechanical Engineering, Rajarambapu Institute of Technology, Sangli, **15-19 June, 2020..**
- ⇒ Attended webinar on '**Patent law with Specific focus on COVID-19**' organize by Intellectual Property Facilitation Centre ,MLR Institute of Technology, Hyderabad **11 June, 2020.**
- ⇒ Attended webinar on '**Introduction To Machine Learning And Its Application**' organize by K. K. Wagh Institute of Engineering & Research, Nashik **8 June, 2020.**

- ⇒ Attended Two day online workshop on '**ICT tools for Collaboration**' organize by K. K. Wagh Institute of Engineering & Research, Nashik 1st- 2nd **June, 2020.**
- ⇒ Attended Seven Weeks Online Course on '**Motion Planning for Self-Driving Cars** ' Conducted by Coursera at University of Toronto, Grade Achieved: 89% **08 June 2020.**
- ⇒ Attended webinar on '**Indian And International Automotive Regulations Overview**' organize by Anantrao Pawar College of Engineering & Research,Pune, **30 May, 2020.**
- ⇒ Attended online workshop on '**Novel ICT tools for Teaching Learning**' organize by K. K. Wagh Institute of Pharmacy, Chandori,Nashik **30 May, 2020.**
- ⇒ Attended Six Weeks Online Course on '**Visual Perception for Self-Driving Cars** ' Conducted by Coursera at University of Toronto, Grade Achieved: 90% **28 May 2020.**
- ⇒ Attended webinar on '**Innovations and its protection under IPR**' organize by Civil Department, KKWIEER, Nashik, **May 28, 2020.**
- ⇒ Attended Five Weeks Online Course on '**State Estimation and Localization for Self-Driving Cars** ' Conducted by Coursera at University of Toronto, Grade Achieved: 100% **26 May 2020.**
- ⇒ Attended webinar on '**How to create an Idea(s)??-Natures Mimicry**' organize by Mechanical Department, KKWIEER, Nashik, **May 18, 2020.**
- ⇒ Attended Seven Weeks Online Course on '**Introduction to Self-Driving Cars** ' Conducted by Coursera at University of Toronto, Grade Achieved: 98% **17 May 2020.**
- ⇒ Attended Four Weeks Online Course on '**Creative Problem Solving** ' Conducted by Coursera at University of Minnesota, Grade Achieved: 89% **9 May 2020.**
- ⇒ Attended Four Weeks Online Course on '**Safety in the Utility Industry** ' Conducted by Coursera at The State University of New York, Grade Achieved: 89% **9 May 2020.**
- ⇒ Attended Four Weeks Online Course on '**Welcome to Game Theory** ' Conducted by Coursera at The University of Tokyo, Grade Achieved: 72% **8 May 2020.**
- ⇒ Attended Five Weeks Online Course on '**Design Thinking for Innovation** ' Conducted by Coursera at University of Virginia, Grade Achieved: 100% **6 May 2020.**
- ⇒ Attended Four Weeks Online Course on '**Understanding Research Methods** ' Conducted by Coursera at University of London, Grade Achieved: 100% **5 May 2020.**
- ⇒ Attended Four Weeks Online Course on '**English for Teaching Purposes** ' Conducted by Coursera at Universitat Autònoma de Barcelona, Grade Achieved: 85% **5 May 2020.**
- ⇒ Attended Four Weeks Online Course on '**How to Write a Resume (Project-Centered Course)** ' Conducted by Coursera at The State University of New York, Grade Achieved: 93% **4 May 2020.**
- ⇒ Attended Seven Weeks Online Course on '**Programming for Everybody (Getting Started with Python)** ' Conducted by Coursera at University of Michigan, Grade Achieved: 98% **2 May 2020.**
- ⇒ Attended Four Weeks Online Course on '**Fundamentals of Project Planning and Management**' Conducted by Coursera at University of Virginia, Grade Achieved: 85.0% **30 April 2020.**
- ⇒ Attended webinar on '**Outcome-Base Education**' organize by In Ponds Ed-tech Pune, **April 24, 2020.**
- ⇒ Attended e-learning course on '**Smart eLearning Development Course for All**' design and developed by MKCL, **April 12, 2020.**
- ⇒ Attended webinar on '**How to Migrate to Online Learning: A Singapore & Philippines Experience**' organize by AKADASIA Singapur, **March 27, 2020.**
- ⇒ Attended webinar on '**Education without Disruption with Impartus**' organize by AWS, **March 27, 2020.**
- ⇒ Attended Half day workshop on '**Industry 4.0**' Conducted by C4i4 Lab, Pune at K. K. Wagh Institute of Engineering Education and Research, Nashik, **24 Jan 2020.**
- ⇒ Attended one day workshop on '**Scilab**' Conducted by IIT bombay held at K. K. Wagh Institute of Engineering Education and Research, Nashik, **04 May 2019.**
- ⇒ Attended Four Weeks Online Course on '**Product Design and Development**' Conducted by NPTEL (National Programme on Technology Enhanced Learning) is a joint initiative of the IITs and IISc. **28 Jan 2019 to 24 Feb 2019.**
- ⇒ Attended One Day Workshop on '**Syllabus implementation of Subject Industrial Engineering - 2015 Course**' Conducted by Board of studies, Mechanical Engineering, University of Pune held at Amruthvahini College of Engineering, Sangamner Pin:- 422605, **23rd Jan, 2019.**
- ⇒ Attended Two Day Workshop on '**Advances in Industrial Engineering & Management (AIEM)**' Conducted by Department of Mechanical Engineering, SNJB's KBJ College of Engineering in Association with QIP of Savitribai Phule Pune University held at SNJB's KBJ College of Engineering, Chandwad,Nashik Pin:-423101., **21th Dec, 2018 to 22th Dec, 2018.**

- ⇒ Attended Four Weeks Online Course on '**Product Design and Innovation** Conducted by NPTEL (National Programme on Technology Enhanced Learning) is a joint initiative of the IITs and IISc. **13 August 2018 to 9 September 2018.**
- ⇒ Attended Four Weeks Online Faculty Development Program (FDP) on '**Effective Engineering Teaching In Practice** Conducted by NPTEL (National Programme on Technology Enhanced Learning) is a joint initiative of the IITs and IISc. **5 February 2018 to 4 March 2018.**
- ⇒ Attended Two Weeks Faculty Development Program (FDP) on '**Pedagogy for Online and Blended Teaching –Learning Process**' FDP201x Conducted by IIT Bombay held at K. K. Wagh Institute of Engineering Education and Research, Nashik, **14 September to 12 October 2017.**
- ⇒ Attended Two Weeks Faculty Development Program (FDP) on '**Foundation Program in ICT for Education**' FDP101x Conducted by IIT Bombay held at K. K. Wagh Institute of Engineering Education and Research, Nashik, **3 August to 07 September 2017.**
- ⇒ Attended One Day Workshop on '**Syllabus implementation of Subject Industrial Engineering - 2012 Course**' Conducted by Board of studies, Mechanical Engineering, University of Pune held at SNJB's KBJ College of Engineering, Chandwad, Nashik Pin:-423101., **29th Dec, 2015.**
- ⇒ Attended Two Weeks ISTE Workshop on '**Fluid Mechanics**' Conducted by IIT Kharagpur held at K. K. Wagh Institute of Engineering Education and Research, Nashik, **20th May– 30th May, 2014.**
- ⇒ Attended Two Days Workshop on '**Research Methodology: Recent Trends & Applications**' Conducted by Department of Production Engineering, K.K. Wagh Institute of Engineering Education and Research, Nashik in Association with Indian Institution of Production Engineers, Nashik. held at K. K. Wagh Institute of Engineering Education and Research, Nashik, **11th – 12th April, 2014.**
- ⇒ Attended One Day Workshop on '**Syllabus Detailing of Subject Strength of Material -2012 Course**' Conducted by Board of studies, Mechanical Engineering, University of Pune held at Smt. Kashibai Navale College of Engineering, Pune, **24th Dec, 2013.**
- ⇒ Attended Two Weeks ISTE Workshop on '**Engineering Mechanics**' Conducted by IIT Bombay held at K. K. Wagh Institute of Engineering Education and Research, Nashik, **26th Nov– 06th Dec, 2013.**
- ⇒ Attended State level Two days Seminar on '**Artificial Neural Network (ANN)**' held at SND College of Engineering and Research Centre, Yeola, **8th – 9th March 2013.**
- ⇒ Attended Two Weeks ISTE Workshop on '**Engineering Thermodynamics**' Conducted by IIT Bombay held at K. K. Wagh Institute of Engineering Education and Research, Nashik, **11th – 21st Dec, 2012.**
- ⇒ Attended One Day Seminar on '**Industrial Automation**' and '**Excitements in Nanotechnology**' held at SVNIT Surat, **April 10, 2010.**

MEMBERSHIP OF PROFESSIONAL BODIES

- ⇒ Life Member of Indian Society For Technical Education (**ISTE**), LM 82957, 2012

TEACHING PAPERS

Paper Name	Academic Year
Engineering Graphics –I	2011-2012, 2012-2013, 2013-2014, 2014-2015, 2015-2016, 2016-2017, 2017-2018, 2018-2019.
Engineering Graphics –II	2011-2012, 2015-2016, 2016-2017, 2018-2019.
Basic Mechanical Engineering	2011-2012, 2012-2013, 2016-2017, 2017-2018.
Project Base Learning I	2019-20.
Workshop Practice	2020-21, 21-22
Strength of Material	2013-2014, 2014-2015, 2015-2016, 2016-2017.
Theory of Machines – II	2012-2013.
Skill Development	2014-2015, 2015-2016, 2019-2020, 2020-2021
Machine Shop I	2019-20.
Project Base Learning II	2020-21.
Automobile Engineering	2014-2015.
Robotics	2013-2014, 2014-2015.
Industrial Engineering	2015-2016, 2016-2017, 2018-2019, 2019-2020, 2020-21.
Finite Element Analysis	2019-2020, 2020-2021, 2021-22

UG Project Guidance

Year	Project Title
2011-2012	1. Manual Water lifting Mechanism
2012-2013	1. Vehicle Lifting Mechanism
2013-2014	1. Design and Manufacturing of Automated Agricultural Irrigation System 2. Modern Testing and Analysis Unit for Irrigation System.
2014-2015	1. Design and Manufacturing of Fixture for Productivity Improvement and Optimum Utilization of Resources. 2. Washer Inspection Bolt Assembly
2015-2016	1. Design of Gripping device & Setup of the power coating Assembly. 2. Printing Machine for Back Tracking
2016-2017	1. Analysis and Modification in the Stellite Rework of Pressure Control Valve Seat. 2. Stamping Machine with Roller Mechanism.
2017-2018	1. Design and Manufacturing of Paper slitting and Rewinding Machine. 2. Design and manufacturing of press tool for wiper link.
2018-2019	1. Design and manufacturing of fixture of cri for tool Try-outs 2. Design and Manufacturing of SPM to determine fatigue life of helical compression spring 3. Design and Fabrication of Pneumatic Sugarcane bud Chipping Machine 4. Rocker Bogie mechanism used for trolley and for transportation of heavy loads
2019-2020	1. Design and Development of SPM for Clincling operation 2. Application of PROCCELLA software in Nozzle body 3. Design and manufacturing of automatic Pesticides and Slurry Machine
2020-2021	1. Design And Development Of Savonius Hydro Kinetic Turbine 2. Refrigeration in Cars by thermoelectric Generators through Waste Heat
2021-2022	1. Design and Manufacturing of PLC controlled roller welding machine to improve productivity 2. Design and Manufacturing of Electrical Panel Jack

ACADEMIC PROJECTS

Title : **Design of Heat Pipe using Grenade Explosion Algorithm (M.Tech. Project)**

Organisation : Sardar Vallabhai National Institute of Technology, Surat, Gujarat.

Duration : 2010 – 2011 (1 year)

Guided By : Dr R. V. Rao

Synopsis : Aim of this project was to check the performance of grenade explosion method (GEM), and to minimize the total mass and maximize the heat transfer rate of heat pipe (HP) using (GEM). GEM is new non traditional optimization technique, which was developed in year 2009. MATLAB 7.0 tool was used to prepare a code of design of heat pipe.

Title : **Design & Analysis of Rocker Arm using Finite Element Method (B.E. Project)**

Organisation : Government College of Engineering, Chandrapur, Maharashtra

Duration : 2007 – 2008 (1 year)

Guided By : Prof. S. W. Burande

Synopsis : Aim of this project was to perform finite element analysis (FEA) to optimize the mass, rotating inertia and stiffness of the rocker arm. PRO-E V3 tool was used to prepare CAD model of rocker arm and analysis of the model was done using in ANSYS V11 tool.

Title : **Paddy Husk Stove (Diploma Project)**

Organisation : Government Polytechnic, Bramhapuri, Chandrapur, Maharashtra

Duration : 2004 – 2005 (1 year)

Guided By : Prof. A. A. Jagdale

Synopsis : The main objective of this project was to produce thermal energy by using paddy husk.

The paddy husk stove was design and fabricated with minimum cost which could be helpful to poor people.

KNOWLEDGE PREVIEW

- ⇒ Main Subjects during **M. Tech.** Course Period: Pressure Vessel Design, Heat Exchanger Design, Principle of Design of Process Equipment, Finite Element Methods, Professional Practice and Legislation.
- ⇒ Main Subjects during **B.E.** Course Period: Machine Design, Theory of Machine, Strength of Material.

IT SKILL SET

- ⇒ **Programming language** : C,C++, MATLAB, Python
- ⇒ **Modelling Tool** : PRO-E , Auto Cad
- ⇒ **Analysis Tool** : ANSYS , PV Elite, Flexsim
- ⇒ **Online Teaching Tool** : Udemy, YouTube, Zoom, Google Meet, LogMeIn,

INDUSTRIAL TRAINING

Company : M/s. Wezmann Tools Pvt. Ltd. S/23, MIDC, Ambad, Nashik, Maharashtra.
Duration : (8 May to 22 May) **15 Days**
Synopsis : To acquire real life experience related with subject to enrich teaching learning process, exposer to industrial facilities and latest trends.

Company : Chandrapur Super Thermal Power Station, Chandrapur, Maharashtra.
Duration : (1 June to 30 June 2007) **1 Month**
Synopsis : Gained knowledge related to different section of power plant like Boiler, Cooling Tower, Coal handling, Steam Turbine, Water treatment etc.

Online Teaching

Platform : **Udemy**
Name : Rahul Rakhade
Objective : To Provide good quality of free online study material on mechanical engineering to engineering students

Sr. No.	Name of Courses	Enrolled students	Rating
01	Industrial Engineering	1326	4.42
02	Simulation Modeling for Industrial Applications	846	4.49
03	Finite Element Analysis	998	4.27
04	Finite Element Analysis by Application of Software	742	4.23
05	Project Management	1251	4.06
06	Project Based Learning	323	3.57

Platform : **Youtube**
Name : Rahul Rakhade
Objective : To Provide good quality of free online study material on mechanical engineering to engineering students
Videos : 73
Subscribers : 352

EXTRA CURRICULUM

- ⇒ **GATE** 2009 Scholarship holder (**93.67** percentile).
- ⇒ **NCC 'A'** Certificate , and **'B'** Certificate cleared
- ⇒ Won first prize in Inter - group zonal Basket ball competition held at Nagpur.

PERSONAL VITAE

Date and place of Birth: 24th Oct. 1984, Chandrapur (Maharashtra)

Nationality : Indian

Linguistic Abilities : English, Hindi & Marathi.

Marital Status : Married

Permanent Postal Address:

Prof. Rakhade R.D.

Flat No. 6, Haridarshan Apartment,

Jatra-Nandur Link Road, Vrundavan Nagar,

Near Adgaon Police Station, Nashik.

Dist – Nashik, Maharashtra, Pin Code- 422003.