

## Faculty Profile

**Name:** Dr. Ashish D. Vikhar

**Department:** Mechanical Engineering (ME)

**Designation:** Lecturer in ME

**Date of Joining this Institute:** 01 November 2013

**Date of 1<sup>st</sup> Joining in Govt. Institute:** 06 April 2011

**Teaching Experience:** 23 year



**Email:** [ashishvikhar09@gmail.com](mailto:ashishvikhar09@gmail.com)

**Personal website:** [www.drvikhar.com](http://www.drvikhar.com)

**Industrial Experience:** NIL

### Qualifications:

Sr. No.	Course	University/Institute	Year
01	Ph.D (Mechanical Engineering)	Sant Gadgebaba Amravati University, Amravati	2016
02	M.E.(Mechanical Engineering)	Rajiv Gandhi Technological University, Bhopal	2012
03	B.E (Production Engineering)	Savitribai Phule Pune University, Pune	1997
04	ADCSSAA	Maharashtra Board of Technical Education (MSBTE), Mumbai	2000

### Area of Interest:-

1. Mathematical modeling
2. Simulation and optimization
3. Advanced production system
4. CAD/CAM/CIM
5. Manufacturing/Production engineering

6. Thermal engineering
7. Theory of machines
8. Non conventional energy sources
9. Automobile engineering
10. Six sigma, TQM, ANN

## **Publications:-**

### **(A) Books Published**

- (A) **Strength of Materials** for S.E (Mechanical and Automobile Engineering) as per Syllabus of North Maharashtra University, Jalgaon (MS).
- (B) **Engineering Thermodynamics** for F.E (Common) as per Syllabus of North Maharashtra University, Jalgaon (MS).
- (C) **Machine Drawing and Computer Aided Drafting** for second year B.Tech (Sem-III) as per prescribed syllabus of Dr. Babasaheb Ambedkar Technological University, Lonere, Dist. Raigad (MS)
- (D) **Solid Modeling and Drafting** for second year B.E (Sem – III) Mechanical & Automobile Engineering as per prescribed syllabus of Savitribai Phule Pune University, Pune (MS)
- (E) **Thermal Engineering** (in press) for second year diploma in Mechanical Engineering as per prescribed syllabus of MSBTE, Mumbai.
- (F) **Power Engineering** (in press) for third year diploma in Mechanical Engineering as per prescribed syllabus of MSBTE, Mumbai.
- (G) **CAD/CAM** for second year mechanical engineering students as per prescribed syllabus of University of Mumbai, Mumbai

### **(B) Research Publications**

- **Vikhar A. D** and Modak J.P, “Approximate, Generalized Field Data Based Mathematical Modeling and ANN Simulation of PVC Pipe Manufacturing Process” World Journal of Modelling and Simulation, ISSN-1746-7233, London, UK, Paper accepted for publication.
- **Vikhar A. D** and Modak J.P, “Formulation of Approximate, Generalized, Field Data Based Mathematical Models and its Reliability Evaluation, Optimization and Sensitivity Analysis for PVC Manufacturing Process” Elixir International Journal, ISSN -2229-712X, Poland Index Copernicus Value 6.77, Publication Impact Factor 5.25, Paper accepted for publication.
- **Vikhar A. D** and Modak J.P, “Approximate, Generalized Field Data Based Mathematical Modeling and

ANN Simulation of PVC Pipe Manufacturing Process.” World Journal of Engineering Research and Technology (WJERT), ISSN-2454-695X, Volume 1, June -July 2015.

- **Vikhar A. D** and Modak J.P, “Formulation of Approximate, Generalized Field Data Based Mathematical Models, and its Reliability Evaluation, Optimization and Sensitivity Analysis for PVC Pipe Manufacturing” International Journal of Advanced Engineering Research and Science (IJAERS), Volume-2, Issue-7, July-2015, PIF -1.5. ISSN-2349-6495.
- **Vikhar A. D** and Modal J. P, “Review on Formulation of Approximate, Generalized Field Databased Model and its Simulation, Optimization, Reliability Evaluation for Some Operations of Manufacturing Enterprise”, International Journal of Engineering Sciences and Research Technology (IJESRT), Volume 4(5), May 2015, ISSN-2277-9655, Impact Factor 3.78.
- **Vikhar A. D** and Modak J. P, “Formulation of Approximate, Generalized Field Data Based Mathematical Model for PVC Pipe Manufacturing Process”, International Research Journal of Engineering and Technology (IRJET), Volume 2, Issue 02, May 2015, ISSN-2395-0072, Impact Factor 2.5.
- **Vikhar A. D** and Modak J.P, “Formulation of Field Databased Model: A Case Study at PVC Pipe Manufacturing Industries.”, International Journal of Mechanical Engineering and Technology (IJMET), Volume 4, May-June 2013, pp 94 – 99, ISSN-0976-6340, JIF 5.77.
- **Vikhar A. D** and Modak J.P, “Identification of Approximate, Generalized Variables for Formulation of Field Data Based Model of PVC Manufacturing Process: Theoretical Approach”, Global Journal of Engineering Science and Research Management (International Journal), Vol-1, No.7, November 2014, pp 1-8, ISSN-2348-8034, Impact Factor (PIF) 3.15.
- **Vikhar A. D**, Deshmukh D.S and Modak J.P, “Field Data Based Mathematical Modeling (FDMM): State of the Art and Literature Review”, International Journal of Engineering and General Science, Volume 2, No 5, August-September 2014, pp 628-640, ISSN-2091-2730, Impact Factor 3.84, ICV – 5.18.
- **Vikhar A. D** and Modak J.P, “Formulation of Field Data Based Model of PVC Manufacturing Process: Theoretical Approach”, National Conference on Advances in Mechanical Engineering (NCAME -14), held at R.C.Patel Institute of Technology, Shirpur, Dist. Dhule.
- **Vikhar A. D** and Modak J.P, “Modeling and Simulation of Manufacturing Enterprise: An Introduction”, International Journal of Engineering Research, February 2014, pp 12 -17, Impact Factor 5.3, ICV – 5.49.
- **Vikhar A. D** and Modak J.P, “Review on System Modeling and Simulation”, International Journal of Research Review in Engineering Science and Technology Research, February 2014, pp 38-42, ISSN-2278-6643.
- **Vikhar A. D** and Gulhane A A, “Energy Conservation Model for Electric Motors”, International Conference on Benchmarks in Engineering, Science and Technology (ICBEST-2012) held at College of Engineering, Wardha (MS).

- **Vikhar A. D** and Gulhane A A, “Energy Conservation Model for General Purpose Electric Motors”, National Registered Recognized and Referred Journal Research Link – 101, Vol – XI (6), August – 2012, Page No. 83-85, ISSN No-0973-1628.
- **Vikhar A. D**, Dr Jahagirdar R S, “Competitive Six Sigma Road Maps: DMIAIC DFSS” in International Journal of Mechanical Engineers, Serial Publications, New Delhi, June 2010 issue.
- **Vikhar A. D**, Dr Jahagirdar R S, “Competitive Six Sigma Road Maps: DMIAIC DFSS for manufacturing stabilization in new product development” at National Conference on Organized by SSVPS BSD College of Engineering, Dhule (MS) during February, 2010.

**1. Paper Title:** “Parametric Optimization of Laser Drilling Process– A Review,” NCRTME-2016, 4-5 July 2016, WCE, sangli, pp.214-219.

**Website:** [www.wce.ac.in/ncrtme2016](http://www.wce.ac.in/ncrtme2016)