

Name**Dr. Kaushal K. Prasad**

Designation

Professor & Principal

Department

Mechanical Engineering

Date of Joining the
Institute

02/07/1997

Education

Ph.D.- Mechanical Engineering (I.I.T.,
Bombay), 2013M. Tech.-Thermal and Environmental
Engineering (I.I.T., Kharagpur), 2005B. Tech.- Mechanical Engineering (Dr.
B.A.T.University, Lonere), 1996

Branch / Specialization

Thermal and Fluid Engineering

Areas of Interest /
Research Interest

Fluid flow and Heat Transfer

Email

prasadkaushal@gmail.com

**Academic Appointments**

Name of the University / Institute/ Industry	Duration	Designation
Finolex Academy of Management and Technology (FAMT), Ratnagiri	10/10/2016 to Till date	Professor and Principal
Finolex Academy of Management and Technology (FAMT), Ratnagiri	01/07/2013 to 09/10/2016	Professor and H.O.D
Finolex Academy of Management and Technology (FAMT), Ratnagiri	01/07/2009 to 30/06/2013	Associate Professor
Finolex Academy of Management and Technology (FAMT), Ratnagiri	01/07/2005 to 30/06/2009	Assistant Professor
Finolex Academy of Management and Technology (FAMT), Ratnagiri	02/07/1997 to 31/06/2005	Lecturer
Dr, B.A.T.U. Lonere	27/08/1996 to 10/06/1997	Lecturer
Total Experience – 27.5 Years		

Patents Granted / Published / Filed - Write total no. of patents granted / published / filed here

Total Patent – 3

1. **"Ein System zur sicheren Aktualisierung biometrischer Merkmalsvektoren mithilfe des Age Adaptation Feature Vector auf Blockchain (A system for securely updating biometric feature vectors using the Age Adaptation Feature Vector on blockchain)"**, Patent application No. 2023062112550700DE, Intellectual Property India (Status: Granted)
2. **"WINNOWING MACHINE FOR RICE"**, Patent application No. 138324, Intellectual Property India (Status: Published on March 2023)
3. **"Three wheeled staircase trolley"**, Patent application No. 136876, Intellectual Property India (Status: Published on 2022)

Copyright Granted / Applied - Write total no. of copyrights granted /applied here

Copyright Granted – 2

1. Copyright Granted (Registered) with Title **"Department File System"** (Literary Work), Diary Number: 20292/2021-CO/L, Filed on 25 Aug 2021
2. Copyright Granted (Registered) with Title **"Outcome Based Education Attainment Utility"** (Computer Software), Diary Number: 27136/2021-CO/SW, filed on 11 Nov 2021, Approved on 12 Jan 2022

Papers Published

Papers Published in National / International Journals - 19

International Journals – write total number of international journal papers

1. Prasad Dilip Sawant Desai, Om Deepak Vichare, Harshvardhan Anandrao Patil, Pranay Prabhakar Walekar, Dr. Kaushal K. Prasad, Abhijit M. Date, **Development Of Battery-operated Water Sprayer For Agricultural Purpose**, International Research Journal of Modernization in Engineering Technology and Science, Volume:05, Issue-04, April-2023
2. Sawant, G., Bharadi, V., Prasad, K., & Jangid, P. (2023) **Hybrid Approach for Biometric Recognition: Integrating Custom Vector Quantization and CNN-Based Feature Extraction**. International Journal of Intelligent Systems and Applications in Engineering, 11(9s), 166–175 (*Scopus Indexed*)

3. Geetanjali Sawant, Dr. Vinayak Bharadi, Dr. Kaushal Prasad, Pravin Jangid, **"Age-Adaptive Multimodal Biometric Authentication System with Blockchain-based Re-enrollment"**, Published into Scopus Indexed "International Journal on Recent and Innovation Trends in Computing and Communication", ISSN: 2321-8169 (Published), 11(9s), 322-329.
4. Ms. Atiya Kazi, Dr. Vinayak Bharadi, Dr. Kaushal Prasad, **Dynamic Signature Recognition using Deep Learning Algorithms**, Journal For Basic Sciences, Volume 23, Issue 2, February 2023, ISSN No: 1006-8341
5. Abhijit Date, Kaushal Prasad, Akshay Shirsat, Roshan Mayekar, Heat Transfer Analysis of **Clay Pot Refrigerator Adopting Curvature Effect, Lecture Notes in Mechanical Engineering**, Advances in Air Conditioning and Refrigeration (2021): 365-380
6. Priyanka Tupe, Dr. Kaushal Prasad, **Modelling and Optimization of Die-sinking Electrical Discharge Machining (EDM) process using Taguchi and ANOVA: A review**, International Journal of Management, Technology and Engineering, Volume IX, Issue IV, APRIL/2019, ISSN NO: 2249-7455
7. Aashish Vaishampayan, Kshitija Utekar, Shubham Wadekar, Prajyot Waradkar, Abhijit M. Date, Dr. Kaushal K Prasad, **Experimental Analysis of Centrifugal Pumps in Series and Parallel Combinations**, International Journal of Management, Technology And Engineering, ISSN:2249-7455, Vol.9, June 2019
8. Ms. Priyanka Santosh Tupe, Dr. Kaushal Prasad, **Optimization of Process Parameters for Die Sinking Electrical Discharge Machining (EDM) of SS-316L**, International Journal of Advanced in Management, Technology and Engineering Sciences Volume 8, Issue III, MARCH/2018 ISSN:2249-7455, Volume 8, Issue III, March 2018
9. Dipak Vilas Patil , Dr. Kaushal Prasad , Ganesh A Sankpal , Tushar V Kavatkar, **Finite Element Analysis of thin-walled beams joined by spot welding**, International Journal of Science & Engineering Development Research, ISSN:2455-2631, Vol.2, Issue 5, page no.410 - 415, May-2017.
10. Girish D. Pandit, Dr. Kaushal Prasad, **Experimental Study of Residual Tensile Strength of Drilled Composite**, International Journal of Material Science and Engineering, Vol.4, DOI: 10.17706/ijmse.2017.5.1. pp: 35-46
11. Prabodh B. Horembe, Dr. Kaushal Prasad, **Experimental Parametric study of Scarf Adhesive Joint under Static Tensile Load**, International Journal of Material Science and Engineering, Vol.4, DOI: 10.17706/ijmse.2016.4.2. pp: 69-79. (Scopus Indexed)
12. Suraj Patange and Dr. Kaushal Prasad, **Effect of Parameters on the Screw Feeder Performance using Discrete Element Method**, Asian Journal of Convergence in Technology, Volume II, Issue III, February 2016
13. Sanket S. Mulye, Swanand S. Nalawade, Tej S. Shetye, Kaushal K. Prasad, Performance Testing of CI Engine Fuelled with Blends of Fish Oil Biodiesel and Sea Mango oil Biodiesel with Diesel,

International Journal of Alternative fuels, ISSN:2051-5987, Vol.17, September 2015, Issue.2, 1145-1149 (Scopus Indexed)

14. Dipak V. Patil, Ganesh A. Sankpal, Dr.Kaushal Prasad, **A Review on Effect of Spot Weld Parameters on Spot Weld Strength**, International Journal of Engineering Development and Research (IJEDR), ISSN: 2321- 9939, Vol.3, Issue 1, and pp.1-6, Jan 2015.

15. Pravin Nana Jadhav, Kaushal Prasad, **"Dynamic Analysis of Plates with Spot Welded Stiffeners"**, 'International Journal of Enhanced Research in Science Technology & Engineering, Vol. 3 Issue 9, Sept.- 2014, pp: (58-65), ISSN: 2319-7463

16. Priyanka Pramod Pawaskar and Kaushal Prasad **"Investigation of Metal Stiffner in FRP Composite Gears for Increasing Tooth Bending Strength"**, International Journal of Mechanical And Production Engineering, 2 (3), 2014 pp: (33-37), ISSN: 2320-2092.

17.Kaushal Prasad., Agrawal A., and Sharma A., Poiseuille **Flow across an Eccentrically Confined Stationary/Rotating cylinder**, Ocean Engineering 73 (2013), pp: (41-54). (Scopus Indexed)

18.Pravin Nana Jadhav, Kaushal Prasad, Vibration Analysis of Plates with Spot Welded Stiffeners, 'International Journal of Latest Trends in Engineering and Technology', 3(1), 2013, pp: (162-174), ISSN: 2278-621X.

19.Kaushal Prasad, Paramane S., Agrawal A., and Sharma A., **Effect of Channel Confinement and Rotation on the Two- Dimensional Laminar Flow and Heat Transfer across a cylinder**, Numerical Heat Transfer, A,60(2),(2011)pp:(699-726), DOI:10.1080/10407782.2011.616843. (Scopus Indexed)

Papers Presented/Published in National/ International Conferences - Write total no. of research papers

International Conferences – 14

1. Atiya R. Kazi, Vinayak A. Bharadi, Kaushal K. Prasad, **Deep Learning-Based Dynamic Signature Analysis for Multiclass Classification**, 6th IEEE International Conference on Advances in Science and Technology (ICAST-2023), organized by K. J. Somaiya Institute of Technology, Sion, Mumabi, in association with University of Mumbai, co-sponsored by IEEE Bombay Section on 8th,9th of December 2023.

2. V. A. Bharadi, K. K. Prasad, Y. G. Mulye, **Classification of Slow and Fast Learners using Deep Learning Model**, 2nd INTERNATIONAL CONFERENCE ON INFORMATION TECHNOLOGY InCITe 2022, The Next Generation Technology Summit, Amity University, Uttar Pradesh, Noida, India.

3. Abhijit Date, Kaushal Prasad, Akshay Shirsat, Roshan Mayekar, **Heat Transfer Analysis of Clay Pot Refrigerator Adopting Curvature Effect**, INTERNATIONAL CONFERENCE ON Recent Advancement in Air-conditioning and Refrigeration, RAAR-2019, 28th-30th November, 2019

4. Suraj Patinge and Kaushal Prasad, **Screw Feeder performance prediction using Discrete Element Method (DEM)**, in International Conference on Sustainable Development in Design and

Manufacturing, ICSDDM-2017, 12th -13th January 2017 at Saraswati College of Engineering (SCOE) Navi Mumbai (Awarded as best research paper).

5. Girish Pandit and Dr. Kaushal Prasad, **Analytical Study of Thrust Force for Drilled Composite**, in International Conference on Sustainable Development in Design and Manufacturing, ICSDDM-2017, 12th -13th January 2017 at Saraswati College of Engineering (SCOE) Navi Mumbai.

6. Girish Pandit and Dr. Kaushal Prasad, **Optimization of drilling parameters for maximum tensile strength of composite material.**, in International Conference on Modern Era Research in Mechanical Engineering, MERME-16, 29th -30th September 2016 at Rajarambapu Institute of Technology, Islampur.

7. Suraj Patinge and Dr. Kaushal Prasad, **Effect of operating parameters on the Screw Feeder Performance using Discrete Element Method**, International Conference on Modern Era Research in Mechanical Engineering, MERME-16, 29th -30th September 2016 at Rajarambapu Institute of Technology, Islampur.

8. Aditya R. Prabhukhot, Dr. Kaushal Prasad, **Effect of Heat Treatment on Hardness of 6082-T6 Aluminium Alloy** Organized by Saraswati College of Engineering, Khargar, Navi Mumbai on December-2015, Maharashtra, India.

9. Dipak V.Patil, Kaushal Prasad, **Modal Analysis of Spot Welded Stiffened plates**, International Conference On Emerging Trends in Science Technology Engineering and Management, at Malla Reddy Engineering College (Optimization of drilling parameters for maximum tensile strength of composite material) in October-2015.

10. Aditya Prabhukhot, Dr. Kaushal Prasad, **Development of immersion corrosion test rig to study effect of high temperature and velocity water on corrosion rate of Al-Mg-Si alloy**, International Conference on Recent Trends in Engineering

11. Kaushal Prasad., Agrawal A., and Sharma A., **Effect of Cylinder- spacing on flow across three side-by-side Cylinders at $Re=100$** , Proc. IUTAM Symposium on Bluff Body Flows, IIT Kanpur, India, (2011), pp: 167-170.

12. Kaushal Prasad, Paramane S., Agrawal A., and Sharma A., **Forced Convective Flow across a Rotating Cylinder in a Plane Channel** , Proc. 20th National and 9th ISHMT-ASME Heat and Mass Transfer Conference, Mumbai, India, (2010)", PP: 1256-1262.

13. Kaushal Prasad and R.K. Brahma, **Effect of aperture ratio on heat transfer through a partially open tilted cavity**, 18th National & 7th ISHMT-ASME Heat and Mass transfer Conference, Guwahati, India (2006), pp:222-228.

14. Kaushal Prasad, **Analysis of heat transfer through partially open tilted cavity**, State of the art of technologies in Mechanical Engineering JNTU Hyderabad, May-2006, Andhra, India.

1. Girish Pandit, Dr. Kaushal Prasad, **Review on Changing Technology Based Rural Development**, 2nd National Conference on Changing Technology and Rural Development on 22nd and 23rd December 2017, held at Rajendra Mane College of Engineering & Technology, Ambav.
2. D.V.Patil, Dr. Kaushal Prasad, **A Review and Approach to Vibration Analysis of Stiffened Plate**, at 2nd National Conference on Recent Advances in Science and Technology on 17th & 18th February 2016, held at FAMT, Ratnagiri, pp: (62-67).
3. Girish Pandit & Dr. Kaushal Prasad **Optimization of Drilling Parameters for hole quality of Composite Material**, at 2nd National Conference on Recent Advances in Science and Technology on 17th & 18th February 2016, held at FAMT, Ratnagiri, pp: (39-41).
4. Prabhod B Horambe, Dr. Kaushal Prasad & S. S. Mestry **Experimental Study and Analysis of Tensile Stress in Scarf Joint**, at 2nd National Conference on Recent Advances in Science and Technology on 17th & 18th February 2016, held at FAMT, Ratnagiri, pp: (28-34).
5. Suraj Patinge & Dr. Kaushal Prasad **Effect of Various Parameters on the screw feeder performance using discrete element method**, at 2nd National Conference on Recent Advances in Science and Technology on 17th & 18th February 2016, held at FAMT, Ratnagiri, pp: (38-3).
6. Pravin Nana Jadhav, Prasad Kaushal, Study of spot welded stiffeners, in National Conference in **"Recent Advanced in Engineering and Technology"** Organized by Gharda Institute of Technology on November-2013, Maharashtra, India.
7. Prasad K., Agrawal A., and Sharma A., **Effect of Rotationally Oscillating Side Cylinders on Free Stream flow across a Stationary Cylinder**, Thirty Ninth National Conference on Fluid Mechanics and Fluid Power, SVNIT Surat, December-2012, Gujarat, India.
8. Prasad K., Agrawal A., and Sharma A., **Numerical Analysis of Forced Convective heat Flow across a Rotating Cylinder in a Channel**, National Conference on advances in Heat and Mass Transfer, FAMT, Ratnagri, October-2009, Maharashtra, India.
9. Kaushal Prasad, **Importance of industry institute Interaction**, Fourth Maharashtra- Goa State ISTE Convention, Yavatmal, November- 1999, Maharashtra, India

Books / Book Chapter - 1

Experimental analysis of scarf adhesive joint under tensile load, Publisher- Lambert Academic Publishing, ISBN No- 978365997608

Awards / Honors / Prizes / Achievements

1. **Best Teacher in the area of Engineering Education** by Higher Education Forum (HEF) in **2017**.
2. **Best Paper Award** in International Conference on Sustainable Development in Design and Manufacturing, held on 12th -13th January 2017 at Saraswati College of Engineering Navi

Mumbai for the research paper entitled, "Screw Feeder performance prediction using Discrete Element Method (DEM)".

3.Best Teacher in Engineering Education by Higher Education Forum (HEF) in **2015**.

Students projects Guided at UG/PG/Doctoral Level

Projects Guided at Doctoral Level

1. Design and development of Solar Fish Dryer

Projects Guided at PG Level

1. Optimization of Process Parameters for Die Sinking Electrical Discharge Machining (EDM) of SS-316
2. Experimental Study of Residual Tensile Strength of Drilled Composite
3. Analysis of Parameters Affecting Performance of the Screw Feeders
4. Influence of Stiffener's Profile on the Natural Frequencies of Spot Welded Stiffened Plates
5. Effect of Hardening on Corrosion Behavior Series Aluminum Alloy
6. Experimental Parametric Study of Scarf Adhesive Joint Under Static Tensile Load
7. Vibration Analysis of Plates with Spot Welded Stiffeners
8. Investigation of Metal Stiffeners in FRP Composite Gears for Increasing Tooth Bending Strength

Projects Guided at UGLevel

1. Battery Operated Detachable Brush Cutter
2. Development of Centrifugal Pump using Battery
3. Development of Battery Operated Water Sprayer For Agricultural Purpose
4. Development of a Hybrid Vehicle which runs on both Battery and Engine
5. Design and Fabrication of Winnowing Machine
6. Design and Development of Water Tank Cleaning Machine For Cylindrical Tanks
7. Design and Fabrication of Staircase Climbing Trolley
8. Highway Wind Turbine
9. Analysis of Heat Pipe using nanofluids for electronic cooling applications.
10. Design sorting and grading machine
11. Design, Manufacturing and Flight testing of a fixed wing delivery drone
12. Project on Efficient insulation for commercial refrigerator

Number of Workshops, Seminars, STTPs, FDPs Attended – 6, 6

STTP / FDPs

1. One Week short term training program on "Advancements in Cryptography, Blockchain, and Cryptocurrency" conducted by Finolex Academy of Management and Technology, Ratnagiri, approved by ISTE from December 05-16, 2022.
2. One Week short term training program on "Open Source Solutions in Teaching Learning Process" conducted by Finolex Academy of Management and Technology, Ratnagiri, approved by ISTE from June 24-28, 2019.

3. One Week ISTE training on "NAAC" at Saraswati College of Engineering, Kharghar, from 20th July to 25th July 2015.
4. Two days ISTE e-Seminar on "Steps 2 Research" organized by Amal Jyoti College of Engineering, Kanjirappaly, in association with ISTE Kerala Section from 19th September to 20th September 2014.
5. Two days orientation program on "Computational Fluid Dynamics" conducted by Sardar Patel College of Engineering Bombay from 18th September to 19th September 2009.
6. One Day training on "Quality Education on Engineering and Technical Institution" conducted by Finolex Academy of Management and Technology, Ratnagiri, on 24th January 2009.

Workshops

1. One Week coordinator workshop on "Fluid Mechanics," conducted by Indian Institute of Technology Kharagpur from 11th March to 15th March 2014.
2. Two days workshop on "Engineering Mechanics" conducted by Indian Institute of Technology Bombay in association with ISTE from 26th Nov. to 06th Dec 2013.
3. One Day Workshop on "Violence against Women" conducted jointly by RPGC and WDC of University of Mumbai on 6th August 2013.
4. Two-week workshop on "Cyber Security" conducted by Indian Institute of Technology Bombay in association with ISTE from 10th Jul. to 20th Jul 2013.
5. Two days workshop on "LINUX," Conducted by CSEA by Indian Institute of Technology Bombay from 18th August to 19th August 2007.
6. Two days Workshop on "SONIC-06" Conducted by International Institute of Information Technology, Pune, and Fluent India and WDC of University of Mumbai from 22nd September to 23rd September 2006.

Technical Seminars/ Workshop/ Lecture/ Invited Talks As a Resource Person - 3

1. Two week workshop on "Fluid Mechanics" Conducted by Indian Institute of Technology, Kharagpur in association with ISTE from 5th May to 16th May 2014.
2. Two days Workshop on "Computational Fluid Dynamics" in November 2013 at Finolex Academy of Management and Technology
3. Two days Work shop on "Computational Fluid Dynamics" at Finolex Academy of Management and Technology, Ratnagiri

Professional Membership

1. Member, Indian Society for Technical Education (ISTE)
2. Member, Society of Automotive Engineers (SAE)

Subject Taught

Sr. No.	Name of the Subject	Year/Branch/Semester	Experience (Years)
1	Computation Fluid Dynamics	PG	3
2	Engineering Thermodynamics	UG	2
3	Engineering Drawing	UG	5
4	Fluid Mechanics	UG	6
5	Heat Transfer	UG	2
6	Internal Combustion Engine	UG	2
7	Power Plant Engineering	UG	3
8	Kinematics of Machinery	UG	3
9	Refrigeration and Air Conditioning	UG	2
10	Engineering Mechanics	UG	2
11	Strength of Material	UG	3