

Faculty Name: Deepika Singh Singraur

Designation: Assistant Professor

Department: Mechanical Engineering

Educational Qualifications:

1. Ph.D.: Pursuing Ph. D. (Technology) in Mechanical Engineering from Fr. Conceicao Rodrigues College of Engineering, Mumbai University
2. Post-Graduation: M.E. Design Engg., BITS - Pilani, Goa Campus, 2011
3. Graduation: B.E. Mechanical Engg., S.G.S.I.T.S., Indore, 2006

Qualified GATE Examination in the year 2009.

Areas of Interest: Strength of Materials, Fluid Mechanics, Theory of Machines, Manufacturing Processes, Engineering Mechanics

Technical Experience:

1. Assistant Professor in Mechanical Engineering Department since 2022 till date.
2. Assistant Professor in Production Engineering Department from 2014 to 2022.
3. Assistant Professor (Adhoc) in Mechanical Engg. Dept. at Sardar Patel College of Engineering, Mumbai from July 2013 to Nov 2013.
4. Worked as Lecturer in Mechanical Engg. Dept. at Sardar Patel College of Engineering, Mumbai from Jan 2013 to June 2013.
5. Worked as Project Assistant in BITS-Pilani, Goa Campus for 3 semesters.
6. Worked as a lecturer in Malwa Institute of Technology, Indore for 2 years.
7. Worked as a lecturer in Truba college of Engg. and Tech. for 6 months.

Publications

Journal Publications

1. Singh, D., Joshi, K., & Patil, B. (2022). Comparative Economic Analysis of Injection-Moulded Component with Conventional and Conformal Cooling Channels. Journal of The Institution of Engineers (India): Series C, 103(3), 307-317. DOI: <https://doi.org/10.1007/s40032-021-00778-5> (Scopus Indexed)
2. Singraur, D. S., Patil, B. T., & Shaikh, V. A. (2021). Defect Minimization of an Injection Molded Plastic Component Using Conformal Cooling Channels. In Materials Science Forum (Vol. 1019, pp. 205-210). Trans Tech Publications Ltd. DOI: <https://doi.org/10.4028/www.scientific.net/MSF.1019.205> (Scopus Indexed)

3. Singraur, D. S., Patil, B. T., & Rampariya, Y. (2019). Advancements in design and fabrication of conformal cooling channels for improvement in plastic injection molding process. *Ind Eng J*, 12(5), 1-6. DOI: <https://doi.org/10.26488/IEJ.12.5.1171> (UGC Approved Journal as per UGC-Care List)
4. Singraur, D. S., & Patil, B. (2016). Review on performance enhancement of plastic injection molding using conformal cooling channels. *Int J Eng Res General Sci*, 4(4), Volume 4, Issue 4, July-August, 2016 ISSN 2091-2730

International Conferences

1. Singh D. S., Patil B. T., Shaikh, V. A., (2020) “Investigation of Cooling Time Reduction of Door Handle for Plastic Injection Molding Using Conformal Cooling Channels”, *Materials Today: Proceedings*. First International Conference on Recent Advances in Materials and Manufacturing ICRAMM, Sept 2019, Belagavi, India. Accepted in materials today proceedings by Elsevier Publications <https://doi.org/10.1016/j.matpr.2019.11.316> (Scopus Indexed)
2. Singraur D.S., Patil B.T., Rampariya Y.T. (2020) Finite Element Analysis of Conformal Cooling for Reduction of Cycle Time to Enhance Performance in Plastic Injection Molding Process. In: Parwani A., Ramkumar P. (eds) *Recent Advances in Mechanical Infrastructure. Lecture Notes in Intelligent Transportation and Infrastructure*. Springer, Singapore doi:https://doi.org/10.1007/978-981-32-9971-9_26
3. D. S. Singraur , B. T. Patil, Y. Rampariya., (2018) “Advancements in Thermoplastic Injection Molding System with Conformally Cooled Channels” International Conference on Role of Industrial Engineering in Industry 4.0 Paradigm, organized by IIIE, Bhubaneshwar in association with SOA, (ICIEIND– 2018)
4. Sharma S., Singraur D. S., Sudhakar D. S.S., “Transient analysis of an injection mound with conformal cooling channels”, International Conference on Recent Advances in Mechanical Infrastructure (ICRAM-2019), In: Parwani A., Ramkumar P. (eds) *Recent Advances in Mechanical Infrastructure. Lecture Notes in Intelligent Transportation and Infrastructure*. Springer, Singapore doi:https://doi.org/10.1007/978-981-32-9971-9_26

Reviewer

Industrial Engineering Journal by IIIE

STTP/FDP/SEMINAR Attended:

1. 4- Weeks “Innovation, IPR, Entrepreneurship and start-ups” approved by IIC of MHRD’s Innovation Cell from 28 April to 22 May 2020
2. 1- Week “Innovation, Entrepreneurship and its Relevance in industry 4.0 practices in the post covid-19 situation” approved by IIC of MHRD’s Innovation Cell from 25 May 2020 to 29 May 2020
3. 1- Week “Renewable Energy sources” Approved by ASM International from 15 May 2020 to 21 May 2020

4. 1- Week “Python” approved by MHRD, Govt., DJ Sanghvi College of Engineering from 3 May 2020 to 07 May 2020
5. 1- Week “LaTex” approved by MHRD, Govt., Sanjay Ghodawat University from 27 April to 02 May 2020
6. Poster presentation at Symposium on “**Recent Trends in Engineering**” at Sardar Patel College of Engineering on 6-7 May 2019.
7. One Week STTP on “**Research Methodology in Engineering & Technology**” organised by Shri Bhagubhai Mafatlal Polytechnic, Vile Parle, Mumbai, 14th -18th May 2018
8. 2-Days Faculty Development Program on “**Computational Fluid Dynamics using Simulations**” organised by Department on Production Engineering, Fr. CRCE, 3rd and 4 th Feb 2017
9. Two Day **Faculty Development Program** on "**Intellectual Property Rights**" from 5th and 6th February 2016 at Fr. Conceicao Rodrigues College of Engineering, Bandra
10. Two Day **Faculty Development Program** on” **Hands-on Training on Computational Fluid Dynamics using Simulations**” on 3rd and 4thFebruary 2017 at Fr. Conceicao Rodrigues College of Engineering, Bandra
11. Two days FDP on "**Hands- on Training on Mechatronic System**" on 19-20 August 2016 at Fr. Conceicao Rodrigues College of Engineering, Bandra
12. Attended ICORD’11, an International Conference on “**Research into Design**” at IISc, Bangalore, 2011

FDPs/ STTPs/ Workshops Organized:

1. 5-Days Student Development Program on “Advanced Technologies for Employability in Mechanical and Manufacturing Engineering” organized by Department on Production Engineering, Fr. CRCE, Bandra, 12th to 16th June 2020.
2. 2-Days Faculty Development Program on “Multivariate Statistical Techniques used in Research” organised by Department on Production Engineering, Fr. CRCE, 9th and 10th March 2018
3. 2-Days Faculty Development Program on “Computational Fluid Dynamics using Simulations” organised by Department on Production Engineering, Fr. CRCE, 3rd and 4 th Feb 2017
4. 2-Days Faculty Development Program on “Hands-on Training on Mechatronic Systems” organised by Department on Production Engineering, Fr. CRCE in association with Christiani Sharpline, 19th and 20th August 2016

Courses Done:

8- Weeks “Introduction to Thermodynamics: Transferring Energy from Here to There” on **Coursera**
Completed on 11 July 2022

Professional Memberships:

- Indian Society of Technical Education (**ISTE**)
LM 123408
- Indian Institute of Industrial Engineering (**IIIE**)
SM 11171

Guest Lectures Taken:

Delivered in Indian Oil Corporation Limited (**IOCL, Mumbai**) under “**Skill Upgradation Training Programme**” for employees

Duration: 26 Sept to 15 Oct 2016

2 May to 20 May 2017