

<b>Name: Dr Dinesh P Chawde</b>		<b>E-mail:dineshc@somaiya.edu</b>	
<b>Contact No: 022 - 66449534/66449191 {M- 9769968647}</b>			
Department/Section: Mechanical Engineering			
College: K J Somaiya School of Engineering			
DOJ Somaiya:7 July 2012	Career Experience: 26 Yrs	Industry Experience: 1.5Yrs	Teaching Experience: 24.5_Yrs
Present Academic Designation: Associate Professor		Present Administrative Designation: Faculty	

<b>Area of research/specialization and Courses Delivered</b>
<b>Research domain/interests/areas:</b> <ol style="list-style-type: none"> <li>Solid Mechanics – FG Materials</li> <li>Stress Analysis, Machine Design</li> </ol> <b>Courses Delivered:</b> <ol style="list-style-type: none"> <li>Solid Mechanics/Strength of Materials</li> <li>Process Equipment Design</li> <li>Theory of Machine</li> <li>Engineering Mechanics</li> <li>Machine Design</li> </ol>

Recognition as a teacher by any University	UG: Yes	PG: Yes	Ph.D : Eligible now
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Details of Recognitions <ol style="list-style-type: none"> <li>Mumbai university recognitions as Faculty</li> </ol>
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<b>Education</b>					
<b>Examination</b>	<b>Name of the Degree</b>	<b>University/Board</b>	<b>Institute/College</b>	<b>Year</b>	<b>CPI/SPI/ %Marks</b>
Ph.D	PhD	IIT Bombay	IIT Bombay	2022	--
PG	ME	Mumbai University	S P College of Engineering, Andheri, Mumbai	2005	68%
UG	BE	Nagpur University	B D College of Engineering, Sewagram	1997	70%

<b>Notable Experience Details</b>					
<b>Sr. No</b>	<b>Name of the organization</b>	<b>Designation</b>	<b>Date of Joining</b>	<b>Date of Leaving</b>	<b>Experience (Years)</b>
1.	K J Somaiya College of Engineering, Vidyavihar	Associate Professor	2 July 2012	Still working	12
2.	Don Bosco Institute of Technology	Asst. Prof and Head	2 <sup>nd</sup> December 2006	28 <sup>th</sup> June 2012	6
3.	Vidyavirdhini college of Engineering	Lecturer	July 2002	May 2006	4
4.	L &T Institute of Technology Powai	Lecturer	Aug 2000	June 2002	2

5.	Datta Meghe College of Engg, Airoli,	Lecturer	Aug 1999	June 2000	1
6.	Baja Plastics Ltd	Production Engineer	June 1998	July 1999	1
7.	Asha Industry, Wardha	Production Engineer	Jan 1998	May 1998	6 Months

### Research Accomplishments and Projects

No of students pursuing Ph.D as on date: NIL		No of students completed Ph.D as on date: NIL
No of students completed PG thesis / Project work as on date: 2 + 1 (ongoing)		No of students / groups completed UG projects as on date: 25+
Publications Total: 9	Number of Peer review Journal papers: 3	Number of Conference papers: 7

#### Details of Publications:

##### International Journals

- Dinesh P Chawde**, Tanmay K Bhandakkar, Mixed boundary value problems in power-law functionally graded circular annulus, International Journal of Pressure Vessels and Piping, 192(1), 104402, 2021, <https://doi.org/10.1016/j.ijpvp.2021.104402>, Elsevier publisher, (Scopus Indexed, Impact factor – 3, Cite score – 5.3).
- Kunal Khadke, **Dinesh P Chawde**, Design and Finite Element Analysis of Pressure Vessel, International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 10 Issue VII July 2022. <https://doi.org/10.22214/ijraset.2022.46076>. (UGC Approved Journal, Impact factor -7.5.)
- Aditya Deshpande, Raturaj Desai, **Dinesh Chawde**, Stress Analysis of Functionally Graded Beams and Finite Element Analysis using ANSYS, International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET), Vol 11, Issue 12, Dec 2022 . <https://doi.org/10.15680/IJIRSET.2022.1112016>, (Impact factor -8.54, Follows UGC Guidelines Indexed in Google scholar and Semantic scholar)
- Priyank Patil, **Dinesh Chawde**, Yash Mhatre, “Experimental investigation of Fault Simulation in Rotating Machinery, Accepted in International Journal of Innovative Research in Technology , Oct 2024, weblink:<https://ijirt.org/Article/manuscript=169062> UGC approved Journal, Impact factor-8.01)
- Dinesh P Chawde**, Archit Yadav, Manas Shah, “Experimental Investigation of Tribological Characteristics of Materials”, International Journal of Automotive and Mechanical Engineering, (submitted in Oct 2024 and under review). (Scopus Indexed, Impact factor 1)

##### Book Chapter Published:

- Parth Matalia, Amod Zack, **Dinesh P Chawde**, Classification and Stress analysis Using Artificial Neural Network, ICTEAH 2024., K J Somaiya College of Engineering, Somaiya Vidyavihar University. DOI: [10.1201/9781003596707-43](https://doi.org/10.1201/9781003596707-43) (Under Production)

##### Conferences

- Parth Matalia, Amod Zack, **Dinesh P Chawde**, Presented paper on “Classification and Stress analysis Using Artificial Neural Network”, ICTEAH 2024., K J Somaiya College of Engineering, Somaiya Vidyavihar University. DOI: [10.1201/9781003596707-43](https://doi.org/10.1201/9781003596707-43)
- Dinesh P Chawde**, Tanmay K Bhandakkar, Stress Analysis of Functionally Graded Compound Cylinder, International Conference on Advances in Mechanics, Modelling, Computing and Statistics (ICAMMCS-2022) organized (online) by Department of Mathematics, BITS Pilani - Pilani Campus during March 19-21, 2022.
- Vivek Panchal, **Dinesh Chawde**, “Finite Element Analysis of Compound Cylinder using Ansys, International Conference on Recent Developments in Mechanical Engineering (ICRDME-22), Ramdev baba College of Engineering, Nagpur, 23rd – 24th September 2022.

- 4 Samad Khan, Raja Narsima, **Dinesh P Chawde**, Modelling The Tibial Bone Using Reverse Engineering Technique and FGM Modelling of Simple Bar Using ANSYS, 2nd National E-Conference on Innovative Trends in Mechanical Engineering (NECITME-2021), 6th of July 2021.
- 5 Pradeep Suryavanshi, **Dinesh Chawde**, “ Vehicle Safety in India : Present and Future” in National conference “Recent trends in Mechanical Engineering 2010” in Datta Meghe College of Engineering, Airoli. Navi Mumbai.
- 6 Savio D’Souza , **Dinesh Chawde**, “ Automatic Tennis Ball Launcher “ in National conference “Recent trends in Mechanical Engineering 2010” in Datta Meghe College of Engineering, Airoli. Navi Mumbai.
- 7 **Dinesh Chawde**, “Mechanical Solar Tracking System” in National level conference at Parshnath College of Engineering, Thane.

**Consultancy Projects:**

1. Ongoing Consultancy work (Rs 8.1 Lacs) at Kohli Printing and Converting Machines Pvt. Ltd, Ambarnath (**On-going**). .
2. Received a research project entitled “Design and Development of Industrial Scale Crusher for Sugar Beat” at Godavari Bio-Refinery Ltd, Sameerwadi (**On-going**).
3. Received Material Testing for Research scholar from VJTI (**Completed**).
4. Design Consultancy for design of Retractable Ladder Technika, G 69, Siddhi Apartment, CAMA Lane, Ghatkopar (**Completed**).

**FDPs/Seminars/Workshops/Training Programs Attended/ Organized/ Delivered**

**Attended and Delivered**

1. Workshop on "Writing Quality Research Paper: Hands on" organized at Dept. of Mechanical , K J Somaiya College of Engineering, 14<sup>th</sup> Aug 2024 – Oct2024
2. A session delivered as a guest speaker for workshop on “Sustainable Research and Development” on 6<sup>th</sup> Jan 2024 by Dept of Mechanical Engineering in association with IQAC, SVU sponsored by Department of Science and Technology.
3. International Online Faculty Development Program on ‘Data Visualization and Analytics’ with Excel, Power BI, Tableau and Generative AI organized by the PG Department of Computer Applications and IQAC of Marian College Kuttikkanam (Autonomous) in association with ipsr solutions limited and Valin - UK, USA and Canada from 05 July 2024 to 11 July 2024.
4. Training on “Composite Materials and its Application”, ICAR-IRCOT , 6-8 Jan 2024, Matunga
5. SYSCON Summer School 2023 (IITB) - 05-07 July, 2023.
6. STTP on “Current Trend in Industrial Engineering”, G H Patel College of Engineering & Technology, Vallabhnagar, Gujrat, 2 March to 8 March 2021
7. Online faculty development program (FDP) On “Challenges, Opportunities and Possible effects caused due to COVID- 19 in Process equipment Industries”, Held from 4th to 5th May 2020. Pillai HOC College of Engineering & Technology, Rasayani.
8. Training on SolidWorks by Addonix Technologies Pvt ltd in K J Somaiya College of Engineering in Jan 2015.
9. ISTE Sponsored STTP on “Fluid Mechanics” at K J Somaiya College of Engineering in 20th /may to 30 May 2014.
10. STTP on “ Advanced Machine design” organized by V J T I, Mumbai , 2nd Dec to 6 Dec 2013
11. ISTE approved STTP on “New Generation Project Management for Engineers “ at Don Bosco Institute of Technology, Kurla, 10 – 14 Jan, 2011.

**Organized**

1. Interactive session with Mr Kedar from Toyo India our Alumni for LYsem VII student to understand role of Mechanical in Static/Rotating Process Equipment at TOYO , Dt 9 Nov 2024.

## Somaiya Vidyavihar University

<ol style="list-style-type: none"> <li>2. Training on Tribometer for Faculty and Staff of Mechanical Engineering Department, K J Somaiya college of Engineering, 16 March 2022 in TOM LAB</li> <li>3. Expert Talk on “Glimpses of Research in Computational Solid Mechanics at IIT Bombay” for PhD/MTech Mechanical students by Prof Parag Tandaiya from IIT Bombay on 4 Oct 2023</li> <li>4. Expert Talk “Introduction to Piping and Piping Layout “, Mr Rajabhau shinde, Worly India.</li> </ol>
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<b>Notable Key Scholastic Achievements</b>	
1.	Elite grade in NPTEL Course on “Aircraft Stability and Controls” in July Oct 2024 (12 weeks)
2.	Topper in the NPTEL Course on “Solid Mechanics” in 2022 (12 weeks)

<b>Notable Positions and Responsibility</b>	
1.	<b>Member</b> Unfair means (UPUMC) – Somaiya Vidyavihar University ( From - Dec 2022 onwards)
2.	<b>Open Electives <u>Coordinator</u></b> for Mechanical Department (From July 2019 onwards)
3.	<b>Convener</b> – Sem Long Internship (July 2023)
4.	<b>Member Industry Institute Interface (IAI)</b> for KJSCE (Sept 2024)
5.	<b>Thrust Area Coordinator</b> Mechanical– Design Area (March 2022 onwards)
6.	<b>BoS Member</b> Mechanical – Asst Prof (March 2022 onwards)
7.	<b>RAI – Thrust Area</b> member (March 2023 onwards)
8.	<b>UGC – Mandate</b> – KJSCE faculty member -Mechanical (2019-2024)
9.	Theory of Machine Lab <b>Incharge</b> (July 2012)
10.	<b>Member</b> -Time Table Committee (July 2019 onwards)

### Lab Facility Developed:

1. **Pin on Disc Tribometer (Ducom make)** purchased in April 2023 and is used for mini project/Internship for TY and LY students of Mechanical.
2. A research paper on work done in mini project by LY honors in Design Engineering submitted to Journal (**under Review**)
3. **Machinery Fault Simulator (Tiera – Mini)** purchased in May 2023 and is used for LY Project/miniproject/ Internship for TY and LY students of Mechanical.
4. A research paper on work done in mini project by LY honors in Design Engineering submitted to Journal (**under Review**)

**Date: 19 / 11 / 2024**

**Signature of Faculty Member**