

# GOVERNMENT POLYTECHNIC KARAD

## Faculty Profile



1. Name of the Faculty : **Dr. Aniruddha Ashok Gadhikar**
2. Designation : Lecturer
3. Name of the Department : Department of Mechanical Engineering
4. Date of Birth : 03 May 1972
5. Date of joining in this institute : 08 June 2023
6. Address for correspondence : Mechanical Engg. Department, Govt. Polytechnic Karad
7. Mobile No.: +91-7588762260 Email id : aniruddha.gadhikar@gov.in
8. Academic Qualification (Bachelor Degree onwards)

Sr. No.	Degree Held	University	Year of Passing	Specialization
01	B.E.	Govt. College of Engg. Amravati	1993	Mechanical Engineering
02	M.Tech	VRCE Nagpur (Now VNIT)	1995	Ferro Alloy Technology & Alloy Steel Making
03	PhD	MNIT Jaipur	2012	Erosion Resistant Materials

### 9. Experience (Industrial and Teaching) :

Sr.No	Name of Industry/ Institute	Experience in Yrs.
01	Govt. Polytechnic Ratnagiri	3.07
02	Govt. Polytechnic Pune	19.08
03	Govt. Polytechnic Nashik	5.00
04	Govt. Polytechnic Karad	0.01

### 10. Research Publication :

#### a) Journals :

##### **National**

1. Aniruddha A. Gadhikar, C. P. Sharma, D. B. Goel, Ashok Sharma and S. K. Goel, Study of Carbides in Austenitic Stainless Steel, Indian Foundry Journal, Vol 56, No. 10, October 2010, 23-28
2. Aniruddha A. Gadhikar, C. P. Sharma, D. B. Goel, Ashok Sharma and S. K. Goel, Physical metallurgy and melting practice of nitrogen-bearing austenitic stainless steels, Indian Foundry Journal, Vol 56, No. 3, March 2010, 23-31

##### **International**

3. Aniruddha A. Gadhikar, C.P. Sharma, D.B. Goel, Ashok Sharma, Effect of Heat Treatment on carbides in 23-8-N Steel, *Metal Science and Heat Treatment* Vol. 53, Nos. 5 – 6, September, 2011 (Translated from (Russian) *Metallovedenie i Termicheskaya Obrabotka Metallov*, No. 6, June, 2011, pp. 37– 42).
4. Aniruddha A. Gadhikar, Ashok Sharma, D.B. Goel, C.P. Sharma, Fabrication and Testing of Slurry Pot Erosion Tester, *Transactions of Indian Institute of Metals*, Volume 64, Issue 4-5, Aug-Oct 2011, pp. 493-500.
5. Aniruddha A. Gadhikar, Ashok Sharma, D.B. Goel, C.P. Sharma, Effect of Carbides on Erosion Resistance of 23-8-N Steel, *Bulletin of Materials Science*, Volume 37, No. 2, April 2014, pp. 315-319.
6. Chaudhari V. H., A. A. Gadhikar, Alternative refrigerants to R134a with low GWP: A Review, *Int. J. of Mech. Engg. and Mat. Sc.*, Volume 7, No.1, Jan-Jun 2014, pp 143-149

b) National and International conferences/ Conference Proceedings:

**National**

- *Aniruddha A. Gadhikar, Strategies for development of Industry Institute partnership, Principal's Conference organized by TTTI Bhopal, January 1999*
  - *Aniruddha A. Gadhikar, Industry Institute Partnership – Case study of Government Polytechnic Pune, Innovation in Technician Education Project organized by DTE and NPIU, August 1999*
1. Aniruddha A. Gadhikar, Ashok Sharma, D.B. Goel, C.P. Sharma, Nitronic steel as erosion resistant material for hydro turbine applications, Presented in National Conference on Allied Trends of Engineering for Development of Technological Aspects, March 2, 2012, Dhamangaon (Rly)
  2. Aniruddha A. Gadhikar , Ashok Sharma , D.B. Goel, S. K. Goel, C.P. Sharma, Study of Nitronic Steels for Hydro Power Plant Application, Presented in National Seminar on Metallurgical Problems in Power Projects in India, February, 22 & 23, 2013 MNIT Jaipur
  3. Aniruddha A. Gadhikar , Ashok Sharma , D.B. Goel, S. K. Goel, C.P. Sharma, Effect of Heat Treatment on Erosion Behaviour of 23-8-N Steel, Presented in National Seminar on Metallurgical Problems in Power Projects in India, February, 22 & 23, 2013 MNIT Jaipur
  4. Aniruddha A. Gadhikar, Ashok Sharma, D.B. Goel, S. K. Goel, Prospects of Nitronic steel as an substitute to 13/4 steel for hydro power plant, Presented in National Conference on Recent Trends in Materials Engineering, October 4-5, 2013, BRCM COET Bahal, Haryana

**International**

5. Aniruddha A. Gadhikar, C.P. Sharma, Ashok Sharma, S. K. Goel, D.B. Goel, Effect of Heat Treatment on Carbide Morphology in 21-4-N Steel, *International Symposium on Emerging*

Challenges for Metals & Materials: Engineering & Technology, NMD-ATM 2009, November 14 – 17, 2009 Kolkata

6. Aniruddha A. Gadhikar , Ashok Sharma , D.B. Goel, C.P. Sharma , S. K. Goel, Melting practice of Nitrogen Bearing Austenitic Stainless Steels , Proceedings of International conference , 59<sup>th</sup> Indian Foundry Congress, 11-13 February 2011, Chandigarh, 157-166
  7. Aniruddha A. Gadhikar , Ashok Sharma , D.B. Goel, C.P. Sharma, Combating erosion in hydro turbine applications, Proceedings of International Conference on Advancements in Engineering & Technology (ICAET-2012) October12-13, 2012 Sangrur, Punjab, India, 47-51
  8. Ketan Jagtap, Aniruddha Gadhikar, Suresh Sanap and Vijay Bukka, Photochemical Machining (PCM) – An effective tool for Precision Engineering Proceedings of International Conference on Advancements in Engineering & Technology (ICAET-2012) October12-13, 2012 Sangrur, Punjab, India, 54-57
  9. Aniruddha A. Gadhikar , Effect of Work Hardening Ability of Nitronic Steels on Erosion Resistance, International conference on Advances in Thermal Systems, Materials and Design Engineering (ATSMDE2017) December 21-22, 2018 Mumbai, Maharashtra, India
- 11.Details about training / seminars / workshop etc (From Years 2019-20, 2018-19, 2017-18)

a) Expert Lecture/Seminar delivered (From years 2019-20, 2018-19, 2017-18)

<b>Sr. No.</b>	<b>Title of Lecture / Seminar</b>	<b>Date</b>	<b>Venue</b>
1.	Industrial Hydraulics and Pneumatics	15.05.2020	Shriram Polytechnic Bihar
2.	FDP on 'Research- Motivation and Methodology	29 and 30 Oct 2018	AISSMS Polytechnic Pune
3.	Chemistry of Engg. Materials	6.01.2018	K. K. Wagh Polytechnic, Nashik
4.	FDP on Advanced Material Science Practices (MSBTE).	18-19 Dec 2017	Guru Govind Sing Polytechnic Nashik
5.	FDP on Scope of Metallurgical Processes and Material Testing of Advanced Materials (AICTE).	12 Dec 2017	PVPIT Engg. College Budhgaon, Sangli
6.	Ultimate Gift	13.09.2017	Hostel of GP Pune
7.	Iron Carbon Diagram and Heat Treatment Processes	24.07.2017	Sandip Polytechnic, Nashik
8.	Iron Carbon Diagram and Heat Treatment Processes	24.07.2017	Sandip Institute of Polytechnic, Nashik

b) Workshop / Seminar Attended (From years 2019-20, 2018-19, 2017-18)

Sr. No.	Name of Workshop / Seminar Attended	Date	Venue	Days/Week
01	The BodhiTree and SAFE Tools for Effective Online Teaching: A Hands-On Workshop	20-21 June 2020	Online Mode IIT Bombay	02
02	Effective and Efficient Online Teaching in the Age of Corona: A Hands-On Workshop	14 – 17 May 2020	Teaching Learning Centre (ICT), IIT Bombay blended mode	01
03	Preparation of Question Paper Profile and Sample Question Paper of I Scheme 6 <sup>th</sup> Semester	26 – 27 Aug.2019	MSBTE Pune at Govt. Poly. Pune	02

c) Training attended (From years 2019-20, 2018-19, 2017-18)

S. No.	Name of the Training programme	Name of the Organizing Institute/ agency (AICTE/ Others)	Period/ Duration	
			From	To
1.	Oil Hydraulics and Pneumatics	SWAYAM NPTEL online certification (12 Weeks)	Jan 2021	Apr 2021
2.	Industrial Automation and Control	SWAYAM NPTEL online certification (12 Weeks)	Jan 2021	Apr 2021
3.	Mechatronics	SWAYAM NPTEL online certification (8 Weeks)	Jan 2021	Mar 2021
4.	Novel Materials	MNIT Jaipur (ATAL AICTE)	4 Jan 2021	8 Jan 2021
5.	Moodle LMS	G .P. Mumbai in association with Spoken Tutorials	12 June 2020	16 June 2020
6.	Smart Materials and Intelligent System Design	SWAYAM NPTEL online certification (4 Weeks)	July 2019	Aug 2019
7.	Editing and Validation of Lab instruction and Question Paper (MSBTE)	NITTTR Bhopal at Regional centre Pune	12.02.18	16.02.18
8.	Design and development of Lab instruction and Question Paper (MSBTE)	NITTTR Bhopal at Regional centre Pune	01.01.18	05.01.18
9.	Industrial Hydraulics and Pneumatics	PSG Coimbatore (AICTE)	30.10.2017	11.11.2017

12. Membership and position in professional societies:

Sr. No.	Technical Societies/ Institution	Membership	Membership No
1.	Indian Society for Technical Education	Life Member	LM (22208)
2.	The Indian Institute of Metals	Life Member	LM (54725)

13. Book publication:

Sr. No.	Title of Book	Publication Year	Edition Status
1.	Nitronic Steels for Erosion Resistant Applications	27.07.2015	Lambert Academic Publishing Germany, ISBN 978-3-659-66175-4

14. Award and Merit certificates: NIL

Sr No	Title	Authority	Work contribution	Year
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15. Product development, Consultancy, manufacturing Contract, Testing Contract (if any)

Sr. No	Details of Product development, Consultancy, Manufacturing Contract, Testing Contract	Period of Work	Amount in Rs. Work completed
	NIL	--	--