

## Curriculum Vitae

**Mr. GOPAL KUMAR DESHMUKH**

Present Address:

J-143, Harshwardhan Nagar,

Bhopal, Madhya Pradesh,

Pin code: 462003, India

Email: gopal035manit@gmail.com

M. N.: +91-9752910191



### Objective:

To work for the organization to the best of my knowledge and ability, the organization could benefit from my services and provide me with professionally important knowledge to me and society.

### Educational Qualifications:

Exam (Degree)	Specialization (Subject)	Passed Year	% of Marks / CGPA	Mode of Study	Institution
SSC	Mathematics	May 2001	70.4 %	Regular	M.P. Board, Bhopal
HSC	Mathematics	May 2003	54 %	Regular	M.P. Board, Bhopal
B.E.	Mechanical Engineering	June 2009	6.41	Regular	B.U.I.T. Bhopal
M. Tech.	Thermal Engineering	June 2013	8.4	Regular	M.A.N.I.T. Bhopal
PhD	Automobile Engineering	January 2023	7.78	Regular	M.A.N.I.T. Bhopal

### Teaching Experience:

S. N.	Name of Employer	Designation	Nature of Duties	Nature of Employment	Period		
					From	To	Years
01	Parul University, Vadodara	Assistant Professor	Teaching & Research	Permanent	July 2013	June 2016	03
02	Samrat Ashok Technological Institute, Vidisha	Assistant Professor	Teaching & Research	Contractual	August 2022	Continuous	0.8

### **Research Projects Undertaken:**

<b>S.N.</b>	<b>Name of the Sponsoring Agency</b>	<b>Project Title</b>	<b>Amount Sanctioned (Rs.)</b>	<b>Period of the Project</b>	<b>Status</b>
<b>01</b>	M.P. Council of Science & Technology, Bhopal	Design, development and performance investigation of direct cylinder barrel high-pressure injection in two-stroke SI (HP2S-DI) engine.	1.48 Lakh	2019 to 2022	Completed

### **Thesis Supervision:**

<b>Research Students</b>	<b>Awarded (In Figures)</b>	<b>Under Submission (In Figures)</b>	<b>In Progress (In Figures)</b>
<b>M. Tech.</b>	<b>04</b>	<b>00</b>	<b>00</b>

### **M. Tech. Project Title:**

- Numerical Simulation of Buoyancy Induced Flame through a Vertical Combustor.

### **Research Publications: (SCI/SCOPUS-Indexing)**

1. Deshmukh, G.K., Rehman, A. and Gupta, R., 2022. Performance Enhancement of Two-Stroke Spark-Ignition Engine Using High-Pressure Fuel Injection. 中國機械工程學刊, 43(4), pp.347-353.
2. Deshmukh, G.K., Rehman, A. and Gupta, R., 2021. Experimental Investigations of a Compression-Ignition Engine Fuelled with Transesterified-Jatropha Biodiesel Diesel Blend. Mehran University Research Journal of Engineering and Technology, 40(3), pp.474-481.
3. Deshmukh, G.K., Rehman, A. and Gupta, R., 2021. Combustion and Emission Characteristics of a Compression-Ignition Engine fuelled with Transesterified-Jatropha Biodiesel-Diesel Blends. International Journal of Renewable Energy Research (IJRER), 11(2), pp.899-907.
4. Deshmukh, G.K., Rehman, A. and Gupta, R., 2021. Impact of Temperature on the Spray Characteristics of Jatropha Curcas Biodiesel and Diesel Fuel Blends. Journal of Testing and Evaluation, 49(6).
5. Deshmukh, G.K., Rehman, A. and Gupta, R., 2021. High pressure direct fuel injection as a solution for performance enhancement in two-stroke spark-ignition engine. Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, pp.1-10.

6. Deshmukh, G.K., Rehman, A. and Gupta, R., 2020. Effect of high-pressure fuel injection on two-stroke spark-ignition engine performance. *Maejo International Journal of Science and Technology*, 14(3), pp.261-271.
7. Deshmukh, G.K., Rehman, A. and Gupta, R., 2020. Numerical Simulation on Effect of Spray Cone Angle on Emissions in Diesel-Engine using AVL-FIRE, *International Journal of Engineering and Advanced Technology*, 9(4), pp.1595-1599.
8. Deshmukh G.K., Gupta R., Dubey P., 2016. Combustion Simulation in a Differentially Heated Diffuser under Free Convection, *Trends in Industrial and Mechanical Engineering*, pp.178-185.
9. Deshmukh, G.K., Kuvadiya, M.N., Patel, R.A. and Bhoi, R.H., 2015. Parametric Analysis of Tube in Tube Helical Coil Heat Exchanger at Constant Wall Temperature. *International Journal of Engineering Research & Technology*, 1(10), pp.279-285.
10. Deshmukh, G.K., and Gamit Sandip, 2015. Numerical and experimental investigation of heat transfer in double pipe heat exchanger with inner and annular twisted tape. *International Journal of Engineering Research & Science (IJOER)*, 1, pp.9-12.
11. Deshmukh, G.K., Kumar, K. 2014. Numerical Simulation of Differentially Heated Diffuser tube under free Convection Combustion. 5th National Conference on Emerging Vistas of Technology in 21<sup>st</sup> Century (NCEVT), pp. 4-5, April 2014.
12. Deshmukh, G.K., Gupta, R., 2013. Numerical Simulation of Wood –Volatiles & Air Combustion in Differentially Heated Diffuser Tube under Free Convection. *International Journal of Engineering Trends and Technology*, Volume 4, Issue 7, pp. 2751-2757.

### **Book Publication(s):**

1. Gopal Deshmukh; Rajesh Gupta; Arvind Patel; 2021. **Numerical Simulation of Buoyancy Induced Flame Through a Combustor**. LAMBERT Academic Publishing. ISBN-13: 978-620-4-21044-5.
2. Gopal Kumar Deshmukh; Arvind Kumar Patel; 2019. **CFD Analysis of High Reynolds Number Flow in an Elliptical Cylinder**. LAMBERT Academic Publishing. ISBN-13: 978-620-0-27582-0.

### **Short-Term Training Programme and Workshops:**

1. Webinar on “**Transformation of Business Operations Using Industry 4.0 technologies**” Organized by IFERP, 31 October 2020.
2. Webinar on “**Recent Development in Nanostructured Metals and Alloys**” Organized by IFERP, 25 October 2020.

3. Webinar on “**Renewable Energy System And Sustainability- Education, Research And Outreach**” Organized by IFERP, 16 October 2020.
4. Webinar on “**General Awareness to the Educators & Institutions - Insights of National Education Policy-2020**” Organized by IFERP, 13 October 2020.
5. Webinar on “**Personality Development & Winning Attitude**” Organized by IFERP, 18 September 2020.
6. Webinar on “**National Educational Policy**” Organized by IFERP, 13 September 2020.
7. Webinar on “**Scope, Opportunities and Challenges for E-Vehicle in India**” Organized by IFERP, 12 September 2020.
8. Webinar on “**Latest Trends in Nanotechnology**” Organized by IFERP, 10 September 2020.
9. Webinar on “**Technology-Based Teaching In Class Room**” Organized by IFERP, 10 September 2020.
10. Webinar on “**PhD End to End Assistance & Guidance**” Organized by IFERP, 14-20 August 2020.
11. Webinar on “**Research Article Writing and Publications - Advanced Concepts**” Organized by IFERP, 1-5 August 2020.
12. Webinar on “**Virtual Interactive Classroom for Teachers and the Challenging Technologies in Post Covid-19 Era**” Organized by IFERP, 5 June 2020.
13. National workshop on “**Inspire Awards-Manak**” Organized by National Innovation Foundation-India at Incubation Centre, MANIT, Bhopal, 29-30 December 2018.
14. Course on “**Advanced CFD for I.C. Engine Applications using Converge**” Organized by Skill Lync Advanced Engineering Courses, September 2018.
15. STTP on “**Advanced Course on Engine Combustion, Diagnostics, Emissions Control and Emerging Fuels**” Organized by Mechanical Engineering Department, IIT-Kanpur, August 3-7, 2018.
16. STTP on “**Heat Transfer 2<sup>nd</sup> level Course**” Organized by Mechanical Engineering Department, PIET, Limda, Vadodara, January 2014.
17. STTP on “**Soft Computing Techniques In Computational Fluid Dynamics**” Organized by Mechanical Engineering Department, MANIT, Bhopal, 17-21 Dec 2012.
18. National workshop on “**Recent Trends in Renewable Energy**” Organized by Mechanical Engineering Department, MANIT, Bhopal, 09-10 Nov 2012.

### **Industrial Training Visits:**

1. 10 Days Vocational training in **NTPC Vindhyachal**, Singrauli (M.P.), 2014
2. 2 Week Industrial training In **Sapura Thermal Power Station**, Sarni (M.P.), 2007
3. 4 Week Industrial training In **Bhilai Steel Plant**, Bhilai (C.G.), 2008

### **Duties & Responsibilities:**

- Reviewer in more than 10 SCI/Scopus –Indexed international/national journals.
- Course coordinator for P.G. level courses in Thermal Engineering and Automobile Engineering (August 2013 – December 2015).
- Course coordinator for I.C. Engine, Basic Mechanical Engineering and Refrigeration and Air Conditioning for the undergraduate level course in Mechanical Engineering (July 2014 - December 2015).
- Lab In-charge of development of I.C. Engine laboratory (January 2014 - June 2015).
- Exam and Results Coordinator (January 2015-June 2016).
- External examiner for dissertation reviews and other courses at the U.G. and P.G. level for the Gujarat Technological University.
- A mentor of international students from the Mechanical Engineering Department at Parul University (January 2015-December 2015).
- Team member of the departmental committee for NBA and NAAC accreditation.

### **Achievement(s):**

- **GATE** Exam Qualified (2011-2014).
- **Indian Engineering Service** (written) Exam Qualified (2010).
- Selected as a junior Scientist at **Bhabha Atomic Research Centre** (2011).

### **Member of Technical Society(s):**

- Society of Automotive Engineers- (**SAE-Membership: 7190525076**).
- American Society for Testing and Materials - (**ASTM Membership: 2286577**).
- Institute For Engineering Research And Publication- (**IFREP Membership: SM76401283**).

### **Software Knowledge:**

- AVL-Fire, Converge Simulation, Ansys.

### **Strengths:**

- Positive Attitude, Creativity & Hard work.
- Ability to build interpersonal relationships.
- A high degree of self-motivation.
- Teamwork Spirit & Adaptable.

**Subject Interest:**

- Automobile Engineering, Internal Combustion Engine, Basic Thermodynamics, Fluid Mechanics, Heat Transfer, Thermal Engineering, Computational Fluid Dynamics & Power Plant Engineering.

**Hobbies:**

- Likes to watch Cricket and Football.
- Listening to Soft Music.
- Playing Chess and Carom.

**Personal Information:**

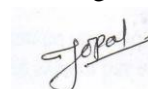
Date of Birth : 18-July-1985  
Father's Name : Manohar Deshmukh  
Mother's Name : Leela Deshmukh  
Marital Status : Married  
Languages Known : English & Hindi

**Reference(s):**

Name(s):	Dr. S.P.S. Rajput	Dr. A. Rehman	Dr. G. Dixit
Designation:	Professor	Professor	Professor
Department:	Mechanical Engineering	Mechanical Engineering	Mechanical Engineering
Institute Name:	Maulana Azad National Institute of Technology, Bhopal	Maulana Azad National Institute of Technology, Bhopal	Maulana Azad National Institute of Technology, Bhopal
Email Id:	spsrajput@gmail.com	manitars@gmail.com	dixitg@manit.ac.in
Office Contact No.:	0755-4051613	+91-7772903985	0755-4051153

**Declaration:**

I hereby declare that all the information given above is true to the best of my knowledge & belief.



**Signature**

**Place: Bhopal**

**(Gopal Kumar Deshmukh)**