

BIODATA



- **Name:** Kumudini Sayaji Gharge
- **Date Of Birth:** 3rd Dec 1979
- **Designation:** Assistant Prof. in Mechanical Engineering
- **Contact Information:** kumudghargel@gmail.com, 9967013461
- **Residential Address:** Swasti Niwas, Modern colony, Behind Holy family school, Vidyanagar Karad (M.S.)
- **Qualification:** B.E. (Auto.), M.E. (Mech.- Heat Power Engineering)
- **Area of Interest:** Automobile Engineering, Internal combustion Engine, Power Plant Engineering
- **Selection category & Sr. No.** MPSC Selection Sr. No. 12
- **Appt. Letter No. & Date** GR No. ACT-6510/(231/10)/-01 Dated 05/01/2011

➤ **Educational Details:**

Sr. No	Degree/Branch	College/Institute	University	Year of Passing	Class Obtained
1	B.E. (Automobile)	Rajarambapu Institute of Technology Islampur, Sangli,	Shivaji University, Kolhapur	July 2001	First Class with Distinction
2	M.E. (Mech - Heat Power Engineering)	PVPIT Budhgaon Sangli	Shivaji University, Kolhapur	July 2009	First Class with Distinction

➤ **Experience Details:**

Sr. No.	University/College	Designation	Period	Experience in years & months
1	Govt. College Of Engineering Karad	Assistant Professor in Mechanical Engineering	20-01-2011 to till date	Till date
2	Govt. Polytechnic Mumbai	Lecturer in Mechanical	01-08-2008 to	02 Year

		Engineering	13-08-2010	
3	Govt. Polytechnic Karad	Lecturer in Mechanical Engineering.	06-12-2005 to 30-07-2010	02 Year 8 month
4	Govt. Polytechnic Mumbai	Lecturer in Mechanical Engineering.	13-01-2004 to 05-12-2005	02 Years
5	Govt. Polytechnic Karad	Lecturer in Mechanical Engineering.	27-07-2001 to 09-01-2004	02 Years & 05 Months

➤ **STTP and Expert lecture conducted :**

Sr.	Title	Period/Date	Remark
1.	Micro hydro Power Stations	12/12/2013	Expert lecture
2.	Recent trends in solar energy and C WET center	28/05/2015	Expert lecture
3.	Recent Trends in Non Conventional Energy with the Focus on Solar and Wind Energy	25 to 28 May 2015	Co-coordinator
4	Fundamental and application of computational Fluid Dynamics	2- 6 April 2019	Co-coordinator
5	Advances and Practices in power generation systems	9-13 Dec 2019	Coordinator
6	Experimental Methods in Engineering (Online)	5-9 July, 2021	Coordinator

➤ **Seminar/Conference/Workshop/STTP Attended:**

Sr no	Name of course	Arranged by	Duration From	To
1	Recent Trends in Power Generation and Storage Systems (Online)	Aher College of Engineering Karad	14/06/2021	19/06/2021
2	Alternative Fuel (Online)	ARAI Pune	06/10/2020	09/10/2020
3	Applications of Finite Element Analysis(FEA) and CFD using ANSYS	GCE Karad	13/06/2020	17/06/2020
4	Research Methodology	Dr V B Kolte college of Engg Buldhana	26/05/2020	30/05/2020
5	Advances and Practices in	GCE Karad	9/12/2019	13/12/2019

	power generation systems			
6	Fundamental and Application Computational Fluid Dynamics	GCE Karad	2/4/2019	6/4/2019
7	Internet of Things Mechatronics	GCE Karad	25/06/18	29/06/18
8	Faculty Induction Program	College Of Engineering Pune	27/11/17	02/12/17
9	Power Plant Familiarization	Walchand College of Engg Sangli	28/11/16	03/12/16
10	MATLAB & SIMULINK- Learning by Doing	GCE Karad	06/06/2016	18/06/2016
11	LaTeX –Article and Report Writing	GCE Karad	09/05/2016	13/05/2016
12	Advance Research Thrust Areas in Engineering & Sciences.	GCE Karad	21/11/2015	30/11/2015
13	Foundation Course-2014	YASHADA Pune	10/02/2014	22/03/2014
14	New trends in Hydro electric power project	GCE Karad (Civil Dept)	09/12/2013	13/12/2013
15	Nanomaterials and Nano compositions	C O E Pune	03/12/2012	07/12/2012
16	Conducting Interactive Classes	GCE Karad (Civil Dept)	26/12/2012	27/12/2012
17	Automotive Engineering: Advances and Research Opportunities	RIT Sakharale	12/06/2012	22/06/2012
18	Solar Photovoltaics': Fundamental Technologies and Application	RIT Sakharale	12/12/2011	22/12/2011
19	Installation and maintenance of real time solar radiation monitoring system.	CWET Chennai	10/10/2011	12/10/2011

➤ **Publications: International/ National: Conferences/Journal**

Sr No	Name of Paper	Name of Conference and Date	Authors	Organized by
1	A review on experimental and analytical method of the heat transfer characteristics of molten salt flow in a circular pipe	International Journal of Advanced Research in science, communication and technology technology.	Santosh Kengar, K S Gharge	IJARST Vol 10 Issue 1 Oct 2020

2	Performance Enhancement of Hot Water Generator With Diesel and Bio-Diesel	International Research Journal of Engineering and Technology (IRJET)	Lokhande Suraj, K S Gharge, Atul Kamtikar	IRJET Vol 07, Issue 05 May 2020
3	Review paper on post processing of turmeric rhizome	International Research Journal of Engineering and Technology (IRJET) Date -3 March 2020	Manuraj Dhawale, K S Gharge A T Pise	IRJET Vol 7
4	Performance enhancement of solar collector using Heat pipe	India International Science Festival 4-8 Dec. 2015	K S Gharge Amrut Ghodake, S.S.Gharge	IIT Delhi
5	Experimental study of microchannel heat sink with secondary flow and pin fin	Science plus International conference, Pune Dt. 19 June 19, 4-7	Pankaj Devade, Rahul Londhe, K. S. Gharge, V.P. Gaikwad	ICCMIE – Pune Science Plus, IRAL Odisha, India
6	Experimentation on Microchannel Enhanced with Pin Fins for Electronic cooling	Science plus International conference, Pune Dt. 19 June 19 8-11	Rahul Londhe, Pankaj Devade, K. S. Gharge, V.P. Gaikwad	ICCMIE – Pune Science Plus, IRAL Odisha, India
7	Review of Waste Heat Recovery from Exhaust Gas of IC Engines	International Conference on Recent Innovations in Science, Engineering and Management (ISBN 978-81-931039)	Amol Patil, K.S.Gharge Dinesh Kawale	AR Research Publication, International of Advances in Science and Technology, Vol 13, Issue no.1, March-2017, ISSN 2230-9659
8	Design and Experimental Investigation of Heat Recovery System for I.C.Engine using TEG	IJSART Volume 3 Issue 4 ISSN(ONLINE):2395-1052	Amol Patil, K.S.Gharge, A.T. Pise	1276 – 1281
9	Expt investigation on performance and emission of single cylinder 4 stroke diesel engine by adding nanoparticles in lubricating oil.	JSART - International Journal for Scientific Research & Development - 2017 03 945-950 (ISSN ONLINE :2395-1052)	Yogesh Awate, madhu Kasturi, K. S. Gharge	VOLUME 3, Issue 4 in April 2017
10	Experimental study of Otto cycle and its effects on exhaust emission from multi cylinder 1196 cc	International Journal of Advanced Technology in Engineering and	Pankaj, Prof. Sali, K.S.Gharge	Volume 03 Issue 01, May 2015

	petrol engine	Science Volume 03, (ISSN 2348-7550) Issue S.I.(01), may 2015		
11	Experimental study of kalian cycle and its effects on exhaust emission from multi cylinder 1196 cc petrol engine	International conference on recent innovations in science, engineering and management	Pankaj, Prof. Sali , K.S.Gharge	ISBN: 978-81-931039-4-4 Date 30 th may 2015 AR Research Publications
12	A review on CFD Analysis of Control Valves	Global Research and Development Journal For Engineering- ISSN-2455-5703	Yevale Swapnil, K.S.Gharge	Volume 3, Issue 7, In June 2018
13	Performance Investigation of Cascade System with Latent Heat Storage	IJRASET Volume 6, Issue VII July 2018	Sutar K.S Gharge	ISSN NO. 2321-9653
14	Some studies of reduction in surface tension of water due to physical water treatment for fouling control	National conference on Recent Trends in Energy RTIE 09	K.H.Patil	Pad. Vasandraodada Patil Institute of Techonology Budhgaon Sangli

➤ **M tech students guided :**

Sr No	Name of student	Year of passing	Dissertation topic
1	Yogesh Sukumar Awate	2017	Experimental performance investigation of I C engine by adding nanoparticles in lubricating oil
2	Amol Suresh Patil	2017	Design and experimental investigation of heat recovery system For I C engine using TEG and inlet air preheating
3	Dilip Sutar	2018	Experimental investigation for performance enhancement of cascade refrigeration system with PCM
4	Swapnil Ravindra Yewale	2018	Investigation for flow coefficient for needle valve
5	Rahul Kamraj Londhe	2019	Analysis of thermal performance of microchannel heat sink with pin fins for electronic cooling
6	Pankaj Balasaheb Devade	2019	Numerical and experimental analysis of microchannel heat sink with secondary flow ad by insertion of pins
7	Satpal Chandrakant Babre	2019	Exergy analysis of cogenerative steam power plant
8	Manuraj Suresh Dhawale	2020	Experimentation on turmeric rhizome cooking process using vacuum.
9	Suraj Ramesh Lokhande	2020	Performance enhancement of hot water generator fueled with diesel ad bio diesel.
10	Santosh A. Kengar	2020	Simulation of molten salt natural circulation loop and its Validation with experimental data.

➤ **Membership:**

1. Society of Automotive Engineer's. No.7170511824
2. Solar Energy Society of India (SESI) No. IM/558/2017

➤ **Institutional & Departmental Portfolios:**

- Co coordinator SAE collegiate club
- Faculty Advisor Team Efiicycle, Tifan and BAJA
- Lab In charge –Thermodynamics, Automobile Engineering and Energy Engineering
- SRRRA coordinator.
- PG-coordinator (Heat Power Engineering)

Place : Karad

Name : **Kumudini S. Gharge**