

BIO-DATA

1) PERSONAL:

NAME DR. SONAGE B. K.

DESIGNATION PROFESSOR IN MECHANICAL ENGINEERING,
N.K. Orchid College of Engg. & Tech., Solapur.

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2) EDUCATIONAL QUALIFICATIONS:

EXAMINATION	NAME OF INSTITUTION	YEAR OF PASSING	MARKS OBTAINED
Ph. D. in Mechanical Engineering	NITK, Surathkal, Mangalore, Karnataka	March-2015	---
Master of Mechanical - Power Engineering	Walchand College of Engg. Sangli, M.S., India.	April. 2006	66%
Bachelor of Mechanical Engineering	Govt. College of Engineering, Karad	June 1995	63%

3) TEACHING EXPERIENCE: (Total 23years)

Name of Institution	Post Held	Period
NK Orchid College of Engg. & Tech., Solapur. India.	Professor	Since 1 st August, 2015 Till today
NK Orchid College of Engg. & Tech., Solapur. India.	Associate Professor and Head of Mechanical Engg. Dept.	Since 10 th June, 2008 To 31 st July, 2015
SVERI's, College of Engineering, Pandharpur	Assistant Professor in Mechanical Engg.	2007-2008

Shri Tuljabhavani college of Engineering, Tuljapur	Lecturer in MechanicalEngg.	1997-2007
Pravara Rural Engineering College, Loni	Lecturer in MechanicalEngg	1996-1997
Gharada Chemicals Pvt. Ltd., Ratnagiri	Management Trainee	1995-1996

4) RESEARCH PUBLICATIONS

- Papers in refereed **International Journals** : List is attached as **Annexure**
- Papers in **International Conference** proceedings : List is attached as **Annexure**

Cited by

	All	Since 2014
<u>Citations</u>	25	25
<u>h-index</u>	3	3
<u>i10-index</u>	1	1

5) ADMINISTRATIVE EXPERIENCE

5.1 Worked as the Head of Mechanical Engineering Department since June 2008 to December, 2015 at Nagesh Karajagi Orchid College of Engg. And Tech., Solapur.

5.2 Presently Working as NAAC/NBA co-ordinator of the Institute

5.3 Presently Working as IQAC Co-ordinator of the Institute

5.4 Presently working as Member of College Development Committee (CDC)

5.5 Major Achievements as HOD

- Established all the laboratories of the department for UG and PG courses as founder head of Department
- Started PG course in Thermal Engineering.
- Students are encouraged to appear for GATE, MPSC and other competitive examinations.

6) ROLES & RESPONSIBILITY HANDELED AT AFFILIATED UNIVERSITY

- Chairman, LIC committee to various Colleges formed by Solapur University and Dr. Babasaheb Technological University, Lonere

- Member, Staff Selection Committee.

7) PG DISSERTATIONS GUIDED

Many students have completed their PG Dissertations under my guidance. **(List is attached as annexure)**

8) CONTINUING EDUCATION PROGRAMMES CONDUCTED

- Organized a one-week FDP course on Applied Thermodynamics
- Worked as Resource Person for short-term courses at various institutes.

9) AWARDS, HONORS AND RECOGNITION &

9.1 AWARDS

- 1) Best teacher of the college,
Shri Tuljabhavani College of Engineering, Tuljapur.
- 2) Best Faculty member of Mechanical Engg. Deptt, for the Year 2010-11
Nagesh Karajagi Orchid College of Engineering and Technology, Solapur.
- 3) JMST best paper award 2015 for the paper “Miniaturization of automobile radiator by using zinc-water and zinc oxide-water nanofluid” by Korean society of Mechanical Engineers.
- 4) Best Faculty member of Mechanical Engg. Deptt, for the year 2018-19
Nagesh Karajagi Orchid College of Engineering and Technology, Solapur

9.2 RECOGNITION

Recognised as PG teacher in Mechanical Engineering for Solapur University.

Date : 28/10/2019.

Place : Solapur.

Signature
(Dr.Sonage B.K.)

ANNEXURE

List of Publications, UG projects, PG projects (This list is available at <https://scholar.google.com>)

Dr. Sonage B K

Professor in Mechanical Engineering, Nagesh Karajagi Orchid College of Engineering and Technology, Solapur

<u>TITLE</u>	<u>YB DETIC</u>	<u>YEAR</u>
<u>Miniaturization of automobile radiator by using zinc-water and zinc oxide-water nanofluids</u> BK Sonage, P Mohanan Journal of Mechanical Science and Technology 29 (5), 2177-2185	<u>11</u>	2015
<u>Heat transfer and pressure drop characteristic of zinc-water nanofluid</u> BK Sonage, P Mohanan Heat and Mass Transfer 51 (4), 521-527	<u>8</u>	2015
<u>Characterization of zinc Oxide nanoparticles used for preparation of nanofluids</u> MP Sonage B.K. International Conference on Advances in Manufacturing and Materials ...	<u>3</u>	2014
<u>Adaptation and implementation of solar distillation plants for pure water: a review</u> SV Kumbhar, BK Sonage Journal of Water Pollution & Purification Research 4 (1), 1-3	<u>2</u>	2019
<u>Enhancement of thermal efficiency and cost effectiveness by development of melting furnace by revamping and troubleshooting fuel-fired furnace</u> SVK BK Sonage Heat transfer-Asian research, 1-18	<u>1*</u>	2018
<u>PG Thesis-Evaluation of Heat Transfer and Pressure Drop Characteristics of Green Nanofluids</u> PKP Sonage B K Nagesh Karajagi Orchid College Of Engg. And Tech., Solapur		2019
<u>Assessment of Thermal Conductivity of Liquids by Modified Parallel Plate Method</u> BKS Ajaykumar B. Bhosale Journal of Emerging Technologies and Innovative Research 6 (6), 574-579		2019
<u>Synthesis and Characterization of Zinc Oxide Green Nanoparticles</u> SBK Pawar K.P, Bijja Shanti Ramchandra Journal of Emerging Technologies and Innovative Research		2019

<u>TITLE</u>	<u>YB DETIC</u>	<u>YEAR</u>
(JETIR), (ISSN-2349 ...		
<u>Experimental Investigations of Developed Solar Still for Increment in Efficiency and Rate of Distillate Experimental Investigations of Developed Solar Still for Increment in ...</u> SV Kumbhar, BK Sonage International Journal of Heat and Technology 3 (2), 471-480		2019
<u>Development and calibration of modified Parallel plate method for measurement of thermal conductivity of liquids: A review</u> BKS Ajaykumar B. Bhosale International Research Journal of Engineering, Management & Technology ...		2019
<u>UG Project-Tender Sorghum Seperater</u> KHP Sonage B K Nagesh Karajagi Orchid College Of Engg. And Tech., Solapur		2019
<u>UG Project-Production of Biofuel from Kitchen waste</u> NB Sonage B K Nagesh Karajagi Orchid College Of Engg. And Tech., Solapur		2019
<u>PG Thesis-Development of test set up for determination of thermal conductivity of liquids</u> BAB Sonage B K Nagesh Karajagi Orchid College Of Engg. And Tech., Solapur		2019
<u>Unsteady State Lumped Heat Capacity System Design for Tube Furnace for Continuous-Inline Wire Annealing Process</u> S Sonage Heat Transfer—Asian Research		2019
<u>Performance Evaluation of Air Conditioner Using Earth Air Tunnel Heat Exchanger</u> SSK Sameer B. Nadaf, B. K. Sonage, D. D. Bhoge International Journal of Innovative Science and Research Technology 3 (Issue ...		2018
<u>Performance Evaluation of Thermoelectric Water Cooler and Heater</u> SSM Rakesh Macharla, Dipak Bhoge, B. K. Sonage International Journal of Latest Technology in Engineering, Management ...		2018
<u>Study of Surface Temperature Distribution of Plain tube and Rifled tube by CFD Analysis</u> SBK Kute S. B International Research Journal of Engineering and Technology (IRJET) 5 (02 ...		2018

<u>TITLE</u>	<u>YB DETIC</u>	<u>YEAR</u>
<u>UG Project-Testing of flat and spherical solar collectors</u> BRM Sonage B K Nagesh Karajagi Orchid College Of Engg. And Tech., Solapur		2018
<u>PG Thesis-Performance evaluation of earth tunnel heat exchanger</u> NSB Sonage B K Nagesh Karajagi Orchid College Of Engg. And Tech., Solapur		2018
<u>Performance Enhancement of Air Conditioner Using Earth Air Tunnel Heat Exchanger</u> SB Nadaf, DD Bhoge, BK Sonage		2018
<u>Comparison of Heat Transfer Performance of Plain Tube and Rifled Tube by Experimentation and CFD Analysis</u> SBK Kute S. B. International Conference on Advancement in Engineering, Applied Science and ...		2018
<u>Comparison of Heat Transfer Performance of Plain Tube and Rifled Tube by Experimentation and CFD Analysis</u> SB Kute, BK Sonage		2018
<u>Lumped Heat Capacity System Design for Revampment in Tube Furnace for Continuous-Inline Wire Annealing</u> BKS Siddharaj V. Kumbhar* , Mahesh M. Salotagi International Journal of Scientific Research in Knowledge 5 (2), 050-056, 2017		2017
<u>Development of Empirical Correlation for Heat Transfer to Nanofluids</u> BK Sonage, P Mohanan Heat Transfer—Asian Research 46 (4), 305-315		2017
<u>Experimental Study on Collection efficiency of Solar Cooking System</u> BKS P.D.Karande, S.V.Kumbhar International Research Journal of Engineering and Technology(IRJET) 4 (02 ...		2017
<u>UG Project-Spherical shaped solar collector with embedded concentrators</u> MPS Sonage B K Nagesh Karajagi Orchid College Of Engg. And Tech., Solapur		2017
<u>PG Thesis-Heat Transfer Enhancement in Fire Tube Boiler Using Helically Ribbed Surface</u> SK Sonage B K Nagesh Karajagi Orchid College Of Engg. And Tech., Solapur		2017

<u>TITLE</u>	YB DETIC	<u>YEAR</u>
<u>Performance Evaluation of Internal Combustion Engine With Hydrogen addition in Fuel</u> APB S. S. Kale, B. K. Sonage International Journal of Innovative and Emerging Research in Engineering 4 ...		2017
<u>Failure Analysis of Sheet Metal Utensils During Deep Drawing Process</u> KSVS B K 1 st International Conference on Materials, Manufacturing and Design ...		2016
<u>A Review on Revampment of Phase Change Material</u> BKS R. R. Shinde, C.V.Papade International Journal of Engineering Trends and Technology (IJETT) 38 (1), 1-4		2016
<u>A Review on Design & Analysis of Lancashire Boiler</u> BKS R.V.Sanga, C.V.Papade International Journal of Latest Trends in Engineering and Technology (IJLTET) ...		2016
<u>UG Project-Design & development of solar collector for jaggery manufacturing</u> K Sonage B K Nagesh Karajagi Orchid College Of Engg. And Tech., Solapur		2016
<u>PG Thesis-Enhanceing The Performance of Lancashire Boiler</u> SRVS Sonage B K Nagesh Karajagi Orchid College Of Engg. And Tech., Solapur		2016
<u>PG Thesis-Revampment of Phase Change Material For Solar Cooker Application</u> SRR Sonage B K Nagesh Karajagi Orchid College Of Engg. And Tech., Solapur		2016
<u>PG Thesis-Development of horizontal wire annealing furnace for continuous operation</u> SMM Sonage B K Nagesh Karajagi Orchid College Of Engg. And Tech., Solapur		2016
<u>PG Thesis-Design development and testing of melting furnace</u> KSRV Sonage B.K Nagesh Karajagi Orchid College Of Engg. And Tech., Solapur		2016
<u>Failure analysis of sheet metal utensils during deep drawing process</u> SBK Kumbhar Siddharaj V Journal of Mechatronics and Automation 3 (3), 1-7		2016

<u>TITLE</u>	<u>YB DETIC</u>	<u>YEAR</u>
<u>Ph.D Thesis-Augmentation Of Forced Convective Heat Transfer Through Tube By Using Nanofluid</u> MP Sonage B K National Institute of Technology Karnataka, Surathkal.		2015
<u>UG Project-Design & development of vertical axis wind turbine</u> GSS Sonage B K Nagesh Karajagi Orchid College Of Engg. And Tech., Solapur		2015
<u>PG Thesis-Heat transfer performance of green nanofluid</u> Sonage B K, Bijja Shanti Ramchandra Nagesh Karajagi Orchid College Of Engg. And Tech., Solapur		2015
<u>PG Thesis-Analysis of parabolic concentrator type solar cooker by using heat storing material</u> GSR Sonage B.K Nagesh Karajagi Orchid College of Engg. and Tech., Solapur		2015
<u>Experimental Investigation of Forced Convective Heat Transfer Through Tube to Zinc Oxide–Water Nanofluid</u> BK Sonage, P Mohanan Journal of Nanofluids 3 (4), 318-327		2014
<u>UG Project-Performance Evaluation and testing of commercial coolants</u> BSR Sonage B K Nagesh Karajagi Orchid College Of Engg. And Tech., Solapur		2014
<u>Testing of experimental set up for determination of heat transfer coefficient of working fluids</u> P Sonage, B.K. and Mohanan International Conference on Recent Trends in Engineering and science, ICRTES ...		2013
<u>A study on synthesis of zinc oxide-water nanofluid and its thermo physical properties.</u> BKSP Mohanan. Int.J. of Mechanical Engg. and Material Sciences 6 (2), 187-191		2013
<u>Nanofluid: Future working fluid for heat exchanging devices</u> BKSP Mohanan International J. of Engg. Research &Indu. Appls., 6 (No. II), pp 203-220		2013
<u>UG Project-Development of experimental setup for performance evaluation different coolants</u> ASD Sonage B K Nagesh Karajagi Orchid College Of Engg. And Tech., Solapur		2013

<u>TITLE</u>	<u>YB DETIC</u>	<u>YEAR</u>
<u>UG Project-Determination of viscosity of fluid by Hagen-poiseuille's flow method</u> SPM Sonage B K Nagesh Karajagi Orchid College Of Engg. And Tech., Solapur		2012
<u>UG Project-Manufacturing of nanoparticles and finding the thermophysical properties of nanofluid</u> BSS Sonage B K Nagesh Karajagi Orchid College Of Engg. And Tech., Solapur		2012
<u>Selection of nanofluids for heat exchanging devices</u> MP Sonage B.K. International conference on Frontiers In Mechanical Engineering, FIME 2010 ...		2010
<u>Augmentation of heat transfer through pipe-A review</u> SBKN N.G A national conference on Recent developments in Mechanical Engineering ...		2007
<u>Augmentation of heat transfer through tube using internal threaded fins</u> SBKNNGS N.K An International Technical Symposium, TECHNOMILLENNIUM-2006, 277-283. Articles 1-52		2006