## **BIO-DATA**



1.	Ι	Name		NIL	NILESH SONU VARKUTE					
2.	I	Designation			Assistant Professor					
3.		Residential Address			Khadakpada, kalyan, Thane, Mumbai.					
4.		Date of birth			25 <sup>th</sup> January					
5.	1	Total Experience			14 Years 11 Months (Till May 2024)					
i.		Teaching			14 years 7 Months					
ii.		Industrial			4 Months					
6.	(	Qualifications								
		Exam	Year	]	Institution/ University	<b>Branch/Specialization</b>				
		Passed								
		M. E.	2012		SPCE/Mumbai	Mechanical Engineering				
						(Thermal Engineering)				
		B. E	2006		SSJCOE/Mumbai	Mechanical Engineering				
		HSC	2001	GVK	V/Maharshtra State board	d Science				
		SSC	1999	GVK	V/Maharshtra State board	-				
	A	Additional Qu								
			•		Entrance Test – valid for lif	-				
	• <b>PET-2013</b> qualified (Ph.D Entrance Test – valid for 3 years).									
_	+		-	Ph.D E	Entrance Test – valid for 3	years).				
7.		Employment l	Record	Ph.D E						
7.		Employment l	-	Ph.D E	Year	Designation				
7.		Employment l Instit	Record tution	Ph.D E	Year (From	Designation Fo)				
7.		Employment I Instit Fr.C.R.I.T., Va	Record tution shi, Navi	Ph.D E	Year	Designation Fo)				
7.		Employment I Instit Fr.C.R.I.T., Va Mumbai (Univ	Record tution shi, Navi	Ph.D E	Year (From	Designation Fo)				
7.		Employment I Instit Fr.C.R.I.T., Va Mumbai (Univ Mumbai)	Record tution shi, Navi versity of		Year (From 7 22/01/13 - Till date	Designation Γο) Assistant Professor				
7.		Employment I Instit Fr.C.R.I.T., Va: Mumbai (Univ Mumbai) A.C.P.C.E., Kh	Record tution shi, Navi versity of arghar, Na		Year (From	Designation Γο) Assistant Professor				
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7.		Employment I Instit Fr.C.R.I.T., Va: Mumbai (Univ Mumbai) A.C.P.C.E., Kh	Record tution shi, Navi versity of arghar, Na versity of		Year (From 7 22/01/13 - Till date	Designation         Γο)         Assistant Professor         3       Assistant Professor				
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7.		Employment I Instit Fr.C.R.I.T., Va: Mumbai (Univ Mumbai) A.C.P.C.E., Kh Mumbai (Univ Mumbai) S.S.J.C.O.E., D	Record tution shi, Navi versity of arghar, Na versity of ombivli Mumbai)	avi	Year (From 7 22/01/13 - Till date 03/09/12 – 19/01/13	Designation       Fo)       Assistant Professor       Assistant Professor       Assistant Professor       D       Lecturer				
7.		Employment I Instit Fr.C.R.I.T., Va: Mumbai (Univ Mumbai) A.C.P.C.E., Kh Mumbai (Univ Mumbai) S.S.J.C.O.E., D (University of	Record tution shi, Navi versity of arghar, Na versity of combivli Mumbai) une	avi	Year (From 7 22/01/13 - Till date 03/09/12 – 19/01/13 01/08/07 – 30/06/10	Designation       Fo       Assistant Professor       Assistant Professor       Assistant Professor       Lecturer       GET				
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	6.	Thermal and Fluid Power Engineering					VI						
	7.	Hydraulic Machinery					V						
	8.	Mechanical Utility systems				VII							
	9.	Renewable Energy Sources					VIII						
	10.	Non-conventional Energy Sources					VIII						
	11.	Engineering Mechanics					Ι						
	12.	Strength of					III						
-	13.	Engineering		-			II						
	-	s Taught at P					C						
	Sr.No.	Name of Sub	ject				Se	me	ester				
9.	Researc	1 Experience											
10.		n Funding / C	onsult	ancv Se	ervices:								
	Sr.No.	Name of	Addro			Product		Consulting		Consultin		Period	
		the		200				Service		Fees			
		Company											
-													
-		n Grants:		-	0								
	Sr.No.	Name of Fun		Type of Grant	1c	Amount			Year	Name of Re		search	
	01	Organization University of		Minor		(Rs.) 40000		2019-		Project Passive Thermal		rməl	
	01	Mumbai		resear		40000			2017-	energy storage			
				grant					-	system		0	
	02	Fr. C. Rodrig	gues	Depar	tmental	10000			2019-	Active Thermal		mal	
		Institute of		grant			20		20	Energy system		em	
		Technology,											
-	Toohnio	Vashi al Collaborati	on / I	h Fun	ding wit	h Induct	rioc						
-	Sr.No.	Name of the			<u> </u>	f Support			Amount (Rs.) Year				
	51.100.	Organization		5	Type 0	i Support	port Amount (Ks.) Fear						
	01	Government		a	Seed M	Aoney 50000 202			2020-2	2020-21			
	02	Crompton G	reaves		Solar la	amps	<b>v</b>			2022-23			
11.		onal Societies											
		SHRAE membe			•		• •						
10		ISFMFP life m			ership N	10: LIVI /2	4).						
12.	Achievel	nents / Awar	IS / PO	sition									
	1. L	Jnnat Bharat	Abhiva	in (UBA	) coordi	inator sir	nce	00	ct-2019:	Schei	me for	technical	
	<ol> <li>Unnat Bharat Abhiyan (UBA) coordinator since Oct-2019: Scheme for techn development of rural areas, launched by government of India (MHRD)</li> </ol>												
	collaboration with AICTE, Delhi. We have adopted 5 villages under the UBA sche												
	<ol> <li>National Service Scheme (NSS), departmental coordinator (2019-20): It is an It</li> </ol>												
	government-sponsored public service program conducted by the Ministry of You												
	Affairs and Sports of the Government of India.						or routin						
	<ol> <li>Student Co-chair of ISHRAE Mumbai chapter (2020-21 and 2021-22).</li> </ol>												
						• •					<i>∠)</i> .		
		,											
	Э. г	Project Coordinator: Mechanical Engineering Department.											
13.	Projects	guided in UG	/PG le	evel									
	1. [	Design and Dev	/elopm	ent of I	Hydropo	nic syster	n. ()	20	23-24)				
		Design and Dev	•				-		-				
		Design and Dev	•			•	-		-	23-24)	)		
	<ol> <li>Design and Development of Zero energy consumption pumping system. (2023-2</li> </ol>					2023-24)							
	5. Design and fabrication of Earth Air tunnel heat exchanger. (2022-23)												
		Design and fabrication of Ground coupled heat exchanger for cooling school											
	t	uildings in rural area. (2021-22)											

	7. Design and fabrication of PCM based solar Cell cooling system. (2021-22)
	surface with different orientations. (Ongoing)
	9. Design and fabrication of Thermal Energy storage system by using an active
İ	(nanomaterial and PCM) methods. (2019-20, 2020-21)
İ	10. Design and fabrication of Thermal Energy storage system by using passive methods.
İ	(2019-20, 2020-21)
İ	11. Experimental and Computational Study of Phase Change Material Based Shell and
İ	Tube Heat Exchanger for Energy Storage. (2018-19)
İ	12. Experimental setup of Hybrid Cooling of Multi-Junction Concentrated Photovoltaic
	Cells. (2016-17 and 2017-18)
	13. Design and fabrication of fully automatic solar tracking system. (2014-15 and 2015-
İ	16)
İ	14. Design and fabrication of a Peltier operated portable air cooling system. (2015-16)
İ	15. Numerical Investigation of performance of Brake Shoe Liner to Fabricate and test
İ	Modified Design. (2014-15)
İ	16. Thermal Analysis of Earth Air tube heat exchanger by using experimental setup and
I	simulation. (2013-14)
	Simulation. (2015-14)
14.	Short Term Training Programmes attended
<b>1</b>	Short Term Trummy Trogrammes acconced
	1. Skill Development Program (11/01/2024 to 16/04/2024) "Energy Literacy Training",
	Organized by Swayam and Energy Swaraj Foundation, IIT Bombay.
	2. Six Days (29/01/2024 to 03/02/2024) Industrial training program "Hand-on Training
	on Power Plant Familiarization" organized by Adani Dahanu Thermal Power Station.
	3. Two week (21/10/2023 to 31/10/2023) FDP on "Astang Yoga" organized by Fr. C.
	Rodrigues Institute of Technology, Vashi.
	4. Two Days (18/08/2023 to 19/08/2023) training program on "Applied Psychometrics
	and Carrier method heat load calculation" organized by ISHRAE Thane Chapter.
	5. Seven Days (13/10/2022 to 20/10/2022) "Yoga session" organized by Fr. C.
	Rodrigues Institute of Technology, Vashi.
	6. One week (28/06/2021 to 02/07/2021) online FDP on "Inculcating Universal Human
	Values in Technical Education" organized by All India Council for Technical
	Education (AICTE).
	7. Three days (18/12/2020 to 20/12/2020) national level online workshop on "Latex"
	organized by Amity University Maharashtra.
	8. One week (2/11/2020 to 6/11/2020) faculty development program on "Electric
	vehicles" organized by AICTE Training and Learning (ATAL) Academy.
	9. Two weeks (28/10/2020 to 10/11/2020) workshop on "Energy simulation and CFD
	analysis in buildings" organized by Easwari engineering college, Ramapuram,
	Chennai in association with ISHRAE.
	10. One Week (16/12/2019 - 21/12/2019) ISTE approved Short term training program
	on "Advances in Heating, Ventilation, Air-Conditioning and Refrigeration (HVAC &
	R)" organized by Lokmanya Tilak college of Engineering, Koparkhairane in
	association with ISHRAE (Mumbai Chapter).
	11. Three days (06/07/2019, 20/07/2019 and 14/09/2019) training program on
	"Measurement, Control and virtual instrumentation" organized by Fr. C. Rodrigues
	Institute of Technology, Vashi.
	12. One Week (25/06/2019 - 29/06/2019) Hands on Training Program on "ANSYS
	Mechanical and CFD" organized by Fr. C. Rodrigues Institute of Technology, Vashi.
	13. One week (17/06/2019 - 21/06/2019) short term course on "Solar thermal
	technologies for process heat and power" organized by IIT Bombay.
	14. Three days (05/12/2017 to 07/12/2017) workshop on "ANSYS skill development
	program" conducted by VJTI in association with Fr. C. Rodrigues Institute of
	Technology.
	15. One week (29/05/2017 to 02/06/2017) short term training program on "First course
i '	in Computational Fluid Dynamics" conducted by IIT Bombay.

	16.	One week (23/02/2017 to 28/02/2017) short term training program on "Fluid Flow
	17	and Computational Methods" organized by V.J.T.I., Matunga, Mumbai.
	17.	One week (30/06/2014 to 04/07/2014) short term training program on "Introduction to PLM" organized by Siemens.
	18.	One week (07/05/2014 to 11/05/2014) short term training program on "Advanced
	10.	Combustion, Emissions and Modeling Aspects" organized by IIT Kanpur
	19.	One week (09/12/2013 to 13/12/2013) QIP short term course on "Changing
		Scenario in Energy and Environment" organized by NIT Calicut.
	20.	One week (24/06/2013 to 28/06/2013) QIP Short Term Course on "Challenges in
		Measurement of single phase and Two Phase flow – A recent Trends" organized by
		IIT Roorkee.
	21.	Two weeks (29/11/2011 to 10/12/2011) ISTE workshop on "Heat Transfer"
	22	organized by IIT Bombay.
	22.	Two weeks (04/07/2011 to 15/07/2011) "Computational Fluid Dynamics" workshop in Sardar Patel College of Engineering, Andheri (W).
	23	Two days (11/02/2011 & 12/02/2011) Technical seminar on HVAC "ACRESERVE
	25.	2011" organized by ISHRAE in Mumbai.
	24.	One-week short term training program on "Integrate, Create, Manufacture &
		Manage Digitally (ICMMD-2010)" in SVNIT, Surat (Jan 2010).
15.	List of	Journal Papers Published
	1	Badal Kudachi, Nilesh Varkute, Bipin Mashilkar, Srikant Guthula, Prabhav
		Jayaprakash, Alex Aaron, Simran Joy, "Experimental and Computational Study of
		Phase Change Material Based Shell and Tube Heat Exchanger for Energy Storage",
		Materialstoday procedings, Elevier, 26/05/2021.
		https://doi.org/10.1016/j.matpr.2021.05.295
	2.	
		"Hybrid Cooling of Multi-junction Concentrated Photovoltaic Cells" in IJMPE,
	2	Volume 5, Issue 7, Sept 2017, pp. 44 to 49.
	3.	Nilesh Varkute, Bipin B.Mashilkar, Pallavi Khaire and Kamlesh Sasane, "Numerical simulation of heat transfer augmentation in a rectangular solar air heater duct" in
		IRJET, Volume 3, Issue 11, November 2016, pp. 114 to 118.
	4.	Nilesh Varkute, Akshay Chalke, Deepak Ailani, Ritesh Gogade and Ajay Babaria,
		"Design and fabrication of a Peltier operated portable air cooling system" in IJERT,
		Volume 3, Issue 3, March 2016, pp. 1801 to 1805.
	5.	Nilesh Varkute, Bipin Mashilkar, Sanjay Rukhande, Akshay Vengal, Vishal Madhavi,
		Mayur Karche and Amar Ingle, "Experimentation and Testing of an OP-AMP
		operated Solar Tracking Mechanism" in IRJET, Volume 2, Issue 7, October 2015, pp.
	c	781 to 784. Nilosh Varkuta, Aditus Vaishampayan, Ninad Sania, Brasad Batil and Kunal Attarda
	6.	Nilesh Varkute, Aditya Vaishampayan, Ninad Sonje, Prasad Patil and Kunal Attarde, "Numerical Investigation of performance of Brake Shoe Liner to Fabricate and test
		Modified Design" in IJERT, Volume 4, Issue 4, April 2015, pp. 400 to 404.
	7.	Bipin B. Mashilkar and Nilesh Varkute "Numerical Investigation of Heat Transfer
		Augmentation in a Rectangular Solar Air Heater Duct" in IJERT, Volume 3, Issue 10,
		October 2014, pp. 1245 to 1248.
	8.	Kiran Prakashrao Deshmukh, Manisha Jayprakash Dhanokar and Nilesh Sonu
		Varkute, T.R.B. Sanjai Kumar, "Numerical simulation of enhancement of heat
		exchanger in a tube with and without rod helical tape swirl generators" in IJMET,
	0	Volume 5, Issue 6, June 2014, pp. 01 to 13. Journal Impact Factor: 7.5377.
	9.	Nilesh S. Varkute and R. S. Maurya, "CFD Simulation in Township Planning – A Case Study" has indexed in ANED (American National Engineering Database) with an
		article ANED-DDL (Digital Data link) number 03.3005/033065072 (www.aned.us).
	10.	Nilesh S. Varkute and R. S. Maurya, "CFD Simulation in Township Planning – A Case
		Study" in International Journal of Computational Engineering Research (IJCER),
		Volume 3, Issue 3, March 2013, pp. 65 to 72.
1	1	

16.	List of	Papers Published in National and International Conferences
	1	Chamim Dathan Dadal Kudashi Nilash Varkuta Anaksha Kini Dashma Hadawala
	1.	Shamim Pathan, Badal Kudachi, <b>Nilesh Varkute</b> , Apeksha Kini, Reshma Hadawale,
		Chinmayee Mithagri, Rahul Sitha, "Experimental Study of Solar Water Heater
		System Using Phase Change Material", in Proc. Of International Conference on
		Technologies for Energy, Agriculture and Healthcare (ICTEAH-2024), Mumbai, India,
	2	April 15-16, 2024.
	2.	Badal Kudachi, Nilesh Varkute, Roshin Saviour Robinson, Parth Sachin Sawant,
		Shaikh Adnan Ahmed and Sanchart Raina, "Experimental Study of Various Properties of Nano Enhanced Phase Change Materials", in Proc. International
		Conference on Sustainability: Integrated and Scientific Approach, Mumbai, India,
		Aug. 4-6, 2022.
	3.	Badal Kudachi, Bipin Mashilkar, Nilesh Varkute, Omkar Mawalankar, Ashish
		Shanbhag, Shalom Gaikwad and Antony Maria Camillus, "Experimental Study of
		PCM Based Latent Heat Thermal Energy Storage System Using Fins", in Proc. 8th
		International Conference on Advances in Energy Research, Bombay, India, July 7-9,
		2022.
	4.	Nilesh Varkute, Badal Kudachi, Shardul Kachare, Chintan Mange, Jigar Gandhi,
		Harish Menon, "Thermal Analysis of Earth Tube Heat Exchanger Using Experimental Setup and Simulation", 2nd International Congress on Advances in Mechanical and
		system Engineering (CAMSE – 2021), National Institute of Technology Jalandhar,
		Panjab, INDIA, 17th July, 2021 – 19th July, 2021.
	5.	Nilesh Varkute, Badal Kudachi, Bipin Mashilkar, Priyan Kamble, Anmol Rane,
		Aishwarya Harad, Glen Rebello, "Experimental and Numerical Investigation of
		Latent Heat Based Energy Storage System Using Nano Enhanced Phase Change
		Material", 2nd International Congress on Advances in Mechanical and system
		Engineering (CAMSE – 2021), National Institute of Technology Jalandhar, Punjab, INDIA, 17th July, 2021 – 19th July, 2021.
	6.	Badal Kudachi, Nilesh Varkute, Bipin Mashilkar, Srikant Guthula, Prabhav
		Jayaprakash, Alex Aaron, Simran Joy, "Experimental and Computational Study of
		Phase Change Material Based Shell and Tube Heat Exchanger for Energy Storage",
		2nd International Mechanical Engineering Congress – 2019, National Institute of
		Technology Tiruchirappalli, Tamil Nadu, INDIA, 29th November, 2019 – 1st
	-	December, 2019.
	7.	Pallavi Khaire, Libin Kaleeckal, Abrar Upadhye, Nilesh Varkute, Girish Dalvi, "Condition monitoring of centrifugal pump using vibration analysis and artificial
		intelligence', Souvenir cum book of abstract in association with springer 6th
		international conference on production and industrial engineering, National
		Institute of Technology Jalandhar, Panjab, INDIA, 8-10 June, 2019.
	8.	Nilesh Varkute, Deepak Devasagayam, Atul Shenoy, Simon Fernandes, Pranav
		Chaulkar, Samuel Cerejo, Aashish Yadav, "Design, fabrication and testing of cooling
		system for Multi-junction CPV cells", International Conference on Nascent
		Technologies in Engineering (ICNTE), FCRIT, Vashi, Navi Mumbai, INDIA, 4-5 January, 2019. Proceedings were published in IEEE explore digital library,
		DOI: 10.1109/ICNTE44896.2019.8945867.
	9.	Pallavi Khaire, Nathan Dmello, Ronald Joseph, Justin Jolly, Nilesh Varkute,
		"Generation of Energy from Tides", International Conference on Frontiers in
		Engineering, Applied Sciences and Technology (FEAST 2018), National Institute of
		Technology Tiruchirappalli, INDIA, 27 April, 2018.
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17.	Books/Reports/General articles etc.						
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	<ol> <li>Nilesh Varkute, Badal Kudachi, Shardul Kachare, Chintan Mange, Jigar Gandhi, Harish Menon, "Thermal Analysis of Earth Tube Heat Exchanger Using Experimental Setup and Simulation", Lecture Notes in Mechanical Engineering, book chapter in Recent Advances in Mechanical Engineering, Springer Nature, 09/09/2022. https://doi.org/10.1007/978-981-19-2188-9_41</li> </ol>						
	<ol> <li>Nilesh Varkute, Badal Kudachi, Bipin Mashilkar, Priyan Kamble, Anmol Rane, Aishwarya Harad, Glen Rebello, "Experimental and Numerical Investigation of Latent Heat Based Energy Storage System Using Nano Enhanced Phase Change Material", Lecture Notes in Mechanical Engineering book chapter, Recent Advances in Mechanical Engineering, Springer Nature, 09/09/2022. https://doi.org/10.1007/978-981-19-2188-9_51</li> </ol>						
18.	Invited Lectures in FDP/ STTP						
19.	International Conference Technical Program Committee Member / Reviewer						
	<ol> <li>Research paper Reviewer in Journal of Green Engineering (Scopus indexed).</li> <li>Research paper Reviewer in IEEE xplore (Scopus indexed).</li> <li>Registration committee member in INTERNATIONAL CONFERENCE on VIBRATION ENGINEERING, SCIENCE and TECHNOLOGY (INVEST-22)</li> </ol>						
	<ol> <li>Publicity committee member in IEEE sponsored, International Conference on Nascent Technologies in Engineering (ICNTE-2019).</li> </ol>						
	5. Member of judging panel in student academic conference, Inter IIT Tech meet 2018 organized in IIT Bombay.						
	6. Technical committee member in IEEE sponsored, International Conference on Nascent Technologies in Engineering (ICNTE-2017).						
	7. Technical committee member in IEEE sponsored, International Conference on Nascent Technologies in Engineering (ICNTE-2015).						
20.	Patents						