Name of the	:	Dr. Rajkumar Bhimg	onda Patil I	Parm	nappa		4	
Teaching Staff								
Designation	:	Associate Professor						
Department	:	Mechanical Engineer	ing					\$/
Date of Joining	:	December 21, 2023						-
Email ID	:	rajkumar.patil@djsce	e.ac.in				- ST	
Personal Website	:	https://sites.google.co	om/view/raj	kum	arbpatil/home	?authuser=0		
Link								
Google Scholar Link	:	https://scholar.google	e.co.in/citati	ions'	?user=vqMJYA	AsAAAAJ&hl	<u>=en</u>	
Scopus Link	:	https://www.scopus.c	om/authid/	deta	il.uri?authorId=	<u>=57162294600</u>	<u>)</u>	
Web of Science Link	:	https://publons.com/r	esearcher/2	371	844/rajkumar-t	<u>p-patil/</u>		
ORCiD Link	:	https://orcid.org/0000)-0002-6292	<u>2-13</u>	<u>37</u>			
Vidwan Link	:	https://vidwan.inflibr	et.ac.in/pro	ofile/	453784			
Qualifications with	:	Academic	Duratio	n	Universi	ity/Boord	Morks	Crada
Class / Grade		Credentials	Duratio	11	Universi	ity/Doaru	IVIAI'KS	Graue
		Post-Doctoral	Sept. 201	19	University of	of Maryland,		
		Fellow (Research	to Sept.	•	College Par	k, Maryland,		Completed
		Associate)	2020		U	SA		
		Ph.D. (Mechanical	August 20)14	Savitribai	Phule Pune		
		Engineering)	to Octob	er	Univers	ity. Pune		Awarded
		8 6,	2018			, , , , , , , , , , , , , , , , , , ,		
		M.E. (Mechanical	August 20)11	Shivaji U	Jniversity,	- 1 - 0	
		- Design	to Sept.	•	Koll	hapur	71.09%	Distinction
		Engineering)	2013		<u> </u>	* • • ·		
		B.E. (Mechanical	August 20	106	Shivaji U	niversity,	75.64%	Distinction
Total Expansional in		Organizati	10 May 20		Non	Enom	То	Total
Voors	•	Dimmer Chinghang College of			FTOIL	10	Total	
1 cars		Engineering	College of		Professor	May 2021	Till date	2 years
		Annasaheh Dange (College of		110103301			
		Engineering and Te	chnology		Assistant 16/06/2014 15/05/		15/05/202	1 7 years
		Ashta	, ,		Professor	10,00,2011	10,00,202	, jeurs
								2 years,
		Dr. J. J. Magdum C	College of		Assistant	03/01/2012	31/05/201	4 5
		Engineering, Jay	sıngpur		Professor			months
		Sharad Institu	te of					
		Technology, Col	lege of		Assistant	01/08/2011	21/12/201	1 5
		Engineering, Ya	adrav,		Professor	01/08/2011	51/12/201	months
		Ichalkaran	ji					
		MOJJ Engg. System	ms LTD.,		Trainee	15/07/2010	15/07/201	1 1 vear
		Pune			Engineer	15/07/2010	15/07/201	i i youi
						Tota	13	
		years			years			
Papers Published in	:	1. Sonawane, P. R., Bhandari, S., Patil, R. B, and Al-Dahidi, S., 2023, Reliability and			eliability and			
Journals		Criticality Analy	sis of a L	arge	-Scale Solar F	hotovoltaic S	ystem Usin	g Fault Tree
		Analysis Approach, Sustainability, MDPI, Vol. 15, Issue 5, pp. 4609,						
		$\frac{\text{nups://doi.org/10.3390/sui3034009}}{Portion Portion Po$						
		2. Koy, A., Patil, K. B., and Sen, R., 2022 , The Effect of Fast Charging and Equalization						
			and Cycle	LIIC	or the Leau-ac	10 Datie 108, J	ninai 0j Ľľ	ergy siorage,

	Elsevier, <u>https://doi.org/10.1016/j.est.2022.105841</u> (Impact Factor = 8.907, Cite
	Score = 8.4).
3.	Patil, R. B., Patil, S. S., Gupta, G., Bewoor, A. K., 2022, A Generalized Model Selection
	Framework for Multi-State Failure Data Analysis, International Journal of Quality and
	Reliability Management, Emerald, Vol. 39, Issue 7, pp. 1637-1647,
	https://doi.org/10.1108/IJORM-08-2021-0280 (Cite Score = 4.9).
4	Kumar A Saini M Patil R B Al-Dahidi S and Mellal M A 2022 Reliability
	Availability Maintainability and Dependability of Tube-Wells Integrated with
	Underground Pipelines in Agricultural Fields for Irrigation Advances in Mechanical
	Engineering SAGE Vol 14 No 8 pp 1-17
	$\frac{1}{100} = \frac{1}{100} = \frac{1}$
	$\frac{1}{1}$
5	Detil S. S. Bawaar, A. K. and Detil D. B. 2022. A New Approach for Failure Modes
5.	Effects and Criticality Analysis Using Eyl DSL Model A Case Study on Doilor
	Effects, and Chucanty Analysis Using ExJ-PSI Model – A Case Study on Boller
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10	. Gaonkar, A., Patil, R. B., Kyeong, S., Das, D., and Pecht, M., 2021, An Assessment of
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Conferences		International Conference on Innovations in Machanical and Civil Engineering (i
		MACE) Materials Today: Proceedings Vol 77 No 3 pp 687-691
		$\frac{1}{1000} \frac{1}{1000} \frac{1}{10000} \frac{1}{10000} \frac{1}{10000000000000000000000000000000000$
		2 Mellal M A Al-Dahidi S Patil R B Kothavale B S and Powar R S 2022
		2. Monal, M. A., Al-Danidi, S., Fatti, K. D., Kottavate, D. S., and Fowar, K. S., 2022, System Reliability-Redundancy Ontimization with High-Level of Subsystems
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	 Patil, R. B., Kothavale, B. S., and Tripathi, V. K., 2016, "Multi-state Reliability Analysis of CNC Turning Center", <i>Proceedings of World Congress on Engineering and</i> <i>Applications (WCEA - 2016)</i>, December 16-17, 2016, Bangkok, Thailand. Patil, R. B., Jadhav, V., S., and Waghmode, L., Y., 2015, Failure mode effect and criticality analysis of manually and electrically operated butterfly valve, 2nd SRESA
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		Saw Cutting Machine th	rough Reliability Analysis", Proceedings of 1st International		
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		of Fault Tree Analysis (F	TA) Method for Reliability Analysis & Life Cycle Cost (LCC)		
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		Implementation of Relia	ability Techniques for Life Cycle Cost Optimization of an		
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		Mechanical Engineering	g (AIM 2013), November 7-8, 2013, Vasavi College of		
		Engineering, Hyderabad,	, India, pp. 251-257, ISBN: 978-93-82570-16-5.		
		20. Patil, R., B., Bhilawade,	M., A., Nikam, A., A., and Powar, R., S., 2013, "Comparative		
		Analysis of Aesthetic and	d Ergonomic Considerations in Toyota Etios", Proceedings for		
		National Conference or	Design Considerations in Automobile Industries (RDME-		
		2014), July 27-28, 2013, ATS's SBGI College of Engineering, Miraj, Maharashtra, pp.			
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		2013, ATS's SBGI, Mira	ij, College of Engineering, Miraj, Maharashtra, pp. 161-167.		
		N 1 1 1 1			
Area of	:	Reliability Engineering	1.1		
Specialization		Specific research interests in	clude:		
		• Reliability, Maintainabi	lity, and Availability Modeling and Analysis, Product Life		
		Cycle Costing, Handboo	ok-based Reliability Prediction, and Physics-of-failure.		
		• Data science – analysis	of data collected from the field and reliability tests.		
		• Artificial Intelligence ar	nd Machine Learning for reliability modeling and predictions		
		Software Skills (Proficien	t): Weibull++, ALTA Pro, BlockSim, XFMEA, Windchill,		
		MiniTab, Python			
		Software Skills (Moderate	: AFRACAS, Lambda Predici		
PhD Guide: Give	:	Field: University:			
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PhDs / Projects	•	PHDS: Projects at Masters level:			
Books Published /		Projects at Masters level.	02		
Book Chanters/	•	1 Indian Patent on "Unma	nned Aerial Vehicle-based Real-time Fault Detection System		
IPRs / Patents		for Photovoltaic Power Station and Methods Thereof' by D. D. Songwong, S. U.			
II KS / I atcints		Bhandari Raikumar B Patil and Anindita S Roy published on March 10, 2023			
		(Application No. 202221031194 filing date $= 31/05/2023$)			
		\ II	, , , , , , , , , , , , , , , , , , , ,		
		Book Chapters:			
		1. Patil, R. B., Al-Dahidi, S	., Newale, S., and Mellal, M. A., 2023, Fault Tree Analysis of		
		Centerless Grinding Mac	hine, in the Predictive Analytics in System Reliability. Springer		

		Series in Rel	iability, Springer, https://doi.org/10.100	7/978-3-031-	-05347-4 13.
		(Scopus).			
		2. Patil. S. S., Bewo	or. A. K., Patil, R. B., Mellal, M. A., 2020 , M	laintenance I	Data – Trends
		Based Reliability Availability and Maintainability (RAM) Assessment of a Steam			
		Boiler in the Predictive Analytics: Modeling and Ontimization Taylor & Francis			
		2 Patil P B and	Mellol M \wedge 2020 Fault Tree Analysis of	$C_{\text{omputerize}}$	d Numerical
		5. I all, K. D., all	Contor in the Predictive Analytics Modeling	and Ontimir	ation Toylor
		& Eronaia	Center, in the Fredictive Analytics. Modeling	ana Optimiz	anon, Tayloi
		A Detil D D K	where the Decision of the second decision of	Effects of	II
		4. Patil, R. B., Ko	binavale, B. S., and Powar, R. S., 2020 ,	Effects of	Human and
		Organizational F	actors on the Reliability and Maintainability	of CNC Tu	rning Center,
		in the <i>Reliabilit</i>	y, Safety and Hazard Assessments for K	Risk-Based T	l'echnologies,
		Springer, pp. 751	-/64, (Scopus).	T 22	
		5. Patil, R. B., and $$	Kothavale, B. S., 2020, Failure Modes and	Effects Ana	lysis of CNC
		Turning Center,	in the Reliability and Risk assessments in E	ngineering,	Springer, pp.
		49-59, (Scopus).			
		6. Patil, R. B., and	Kothavale, B. S., 2020, Criticality Analysis	s of CNC Tu	rning Center
		Using Analytic	Hierarchy Process, in the Reliability a	nd Risk as	sessments in
		Engineering, Spr	inger, pp. 61-76, (Scopus).		
Professional	:	1. Life Member, S	Society for Reliability and Safety (SRESA), B	BARC, Mum	bai. LM-125.
Memberships		2. Life member of	f Indian Society for Technical Education (IS	<i>TE</i>): LM 103	3049.
		3. ISHRAE: Mer	mber of the Indian Society of Heating,	Refrigerati	ng, and Air
		Conditioning E	Engineers (ISHRAE). #: 22522.		
Grants fetched/	:	Funding Agency/	Title of the Scheme/ Project/	Duration	Amount
Fellowships		Body	Fellowship	Duration	Amount
			SIRO funding "Development of		
			Reliability Analysis Model and Fault	2022 24	Rs.
			Detection and Diagnosis System for	2022 - 24	15,00,000
			Solar Photovoltaic System"		
		Pimpri	PCCOE Seed Funding – "Assessment of		
		Chinchwad	Reliability Allocation Methods and	2021 22	Rs.
		College of	Development of a Generalized	2021-22	90,000
		Engineering, Pune	Methodology for Reliability Allocation"		
			PCCOE Darpan Fellowship for Personal	2022 22	D (000
			Website Development	2023 - 23	Rs. 6000
			PCCOE Darpan Fellowship for Personal		D (000
			Website Development	2021 - 22	Rs. 6000
		Shivaji	Development of Hybrid Reliability		
		University,	Model for the Analysis of Manufacturing	2020 - 21	Rs.
		Kolhapur	Systems		28,000
		University of			
		Marvland, College	Post-doctoral Fellowship	2019 - 20	\$47,000
		Park, USA	I		+ -)
Interaction with	:	Interaction with Ou	tside World and Guest Lectures Delivered	d:	
Professional		1) Delivered lecture	es on "Scopus and Web of Science: Relevan	t Perspective	e" and "How
Institutions		to write abstract	and conclusion" in FDP on "Research Paper	Writing and	l Publishing"
		at Nutan College	of Engineering and Research, Pune, on 20-2	24 Feb. 2023	
		2) Delivered a lectu	re on "Recent advances in safety and reliab	ility of solar	photovoltaic
		systems", in FD	OP on "Advances in Clean Energy Tech	nologies for	Sustainable
		Development" at Sharad Institute of Technology Polytechnic Yadray Ichalkaranii			
		Kolhapur, on January 28, 2023.			
		3) Guest lecture on "Reliability Engineering" at Annasaheb Dange College of Engineering			
		and Technology,	Ashta, on 31/12/2022.		5 0

2. ISTE approved STTP on "AI/ML and Its Applications", 17 th April to 24 th April 2023,
at K. J. College of Engineering and Management Research, Pune, India.
3. Faculty Development Program on "Research Paper Writing and Publishing", 20th
January to 24 th January 2023, at Nutan College of Engineering and Research, Talegaon
Dabhade, Pune, India.
4. ISTE approved STTP on "Role of Artificial Intelligence, Machine Learning, and Data
Science in Emerging Trends in Mechanical Industries" from 23 rd January to 30 th January
2023, at Zeal College of Engineering and Research, Pune, India.
5. ISTE approved Faculty Development Program on "Advances and Applications of
Artificial Intelligence and Machine Learning", 22 nd November to 02 nd December 2021
(02 Weeks), at Sinhgad Technical Society's Sinhgad College of Engineering, Vadgaon,
Pune. India.
6. IETE approved STTP on "Research Methodology and Optimization Techniques", 07 th
June to 18 th June 2021 (02 Weeks), at Pimpri Chinchwad College of Engineering, Pune,
India.
7. Workshop on "Manuscript Preparation for International Journal", 05 th July to 09 th July
2021 (01 Week), at Pimpri Chinchwad College of Engineering, Pune, India.
8. Faculty development program on "Data Sciences", 14 th December to 18 th December
2020 (01 Week), AICTE Training and Learning (ATAL) Academy, at Indian Institute
of Information Technology (IIIT), Tiruchirappalli, Tamilnadu.
9. Faculty development program on "Data Science and Analytics using Python", 30 th
November to December 04 th , 2020 (01 Week), AICTE Training and Learning (ATAL)
Academy, at Indian Institute of Information Technology (IIIT), Nagpur, Maharashtra.
10. Faculty development program on "Data Science and Machine Learning", 17th
November to 21 st November 2020 (01 Week), AICTE Training and Learning (ATAL)
Academy, at KIET Group of Institutions, Ghaziabad, UP.
11. Faculty Development Program on "Prerequisite for HP Vertica Essentials", $11^{\text{th}} - 12^{\text{th}}$
and 18 th – 19 th August 2017, Annasaheb Dange College of Engineering and Technology,
Ashta, Maharashtra.
12. AICTE Sponsored Short Term Course on "Application of Principles of Reliability and
Risk Analysis to Various Sub-disciplines of Civil Engineering", 29th May to 09th June
2017 (02 Weeks, Indian Institute of Technology (IIT-BHU), Varanasi, Utter Pradesh.
13. STTP on "Life Long Researchers", 19-23 rd Dec. 2016 (01 Week), Sardar Vallabhbhai
National Institute of Technology (SVNIT) Surat, Gujrat.
14. ISTE Approved STTP on "Vibration Monitoring and Analysis using FFT Analyzer",
28th Dec. 2015 to 1st Jan. 2016, (01 Week), Annasaheb Dange College of Engineering
and Technology, Ashta, Maharashtra.
15. ISTE Approved One Week Workshop on "Advanced Trends in PLC-Automation", 30th
Nov. to 4th Dec. 2015, (01 Week), SIT College of Engineering, Yadrav, Maharashtra.
16. National Seminar on "Recent Trends in Teaching English in Higher Education
(RTTEHE 2015)", 08th Aug. 2015 (01 Day), Annasaheb Dange College of Engineering
and Technology, Ashta, Maharashtra.
17. ISTE Approved and TSI Sponsored STTP on "Recent Trends in Design, Failure
Analysis and Maintenance of Bearings", 22 nd to 26 th June 2015 (01 Week), Dr. J. J.
Magdum College of Engineering, Jaysingpur.
18. ISTE-SRM Approved STTP on "Mechanics of Fibrous Composites", 23 rd to 27 th June
2014 (01 Week), Annasaheb Dange College of Engineering and Technology, Ashta,
Maharashtra.
19. Faculty Enablement Program on "Introduction to Aircraft Industry and Aircraft
Systems", 6th to 10th May 2013 (01 Week), MDC, Infosys Limited, Mysore.
20. STTP on "Numerical Methods for Engineers with Matlab", 17 th to 21 st Dec. 2012 (01
Week), Annasaheb Dange College of Engineering and Technology, Ashta,
Maharashtra.

		21. Seminar on "Aesthetics, Ergonomics, and Creativity in Product Design", 10th April
		2012 (01 Day), Walchand College of Engineering, Sangli.
		Additional Academic/ Research responsibilities held:
		• Member of DAAB – Mechanical Engineering Department Sharad Institute of
		Technology Polytechnic Vedray January 2021 to date
		$\frac{1}{2} = \frac{1}{2} $
		• PCCOE - Institute Level In-charge of Quality Publications – July 2022 to till date.
		• PCCOE (Mechanical) - Coordinator of Research and Innovation (R&I) Cell – July 2022
		to till date.
		• PCCOE - Program Assessment Committee (PAC) member – July 2022 to till date.
		• PCCOE - Member of SIG coordination team – Member – August 2021 to till date.
		• PCCOE (Mechanical) - Coordinator foreign collaborations - July 2021 to June 2022.
		• PCCOE (Mechanical) In-charge Quality Publications – June 2021 to till date.
		• ADCET Ashta - Dean Research and Development – January 2019 to August 2019
		• ADCET, Ashta In charge of Machanical Engineering Students Association (MESA)
		• ADCE 1, Ashta - III charge of Mechanical Engineering Students Association (MESA)
		- Julie 2014 to May 2021.
		• Society for Reliability and Safety (SRESA) – Coordinator Western Maharashtra
		Chapter (WMC) – December 2015 to May 2021.
		• Society for Reliability and Safety (SRESA) – Coordinator ADCET, Chapter – 2015 to
		2021.
		• ADCET, Ashta (Mechanical) - In charge – Department Library, - June 2017 to June
		2018.
		• ADCET, Ashta - Incharge Saturday Activities — June, 2014 to August, 2019.
Subjects Taught	:	First Year (UG): Engineering Graphics; Basic Mechanical Engineering.
		Second Year (UG): Strength of Materials; Numerical Methods and Optimization; Fluid
		and Turbo Machinery: and Engineering Drawing.
		Third Year (UG): Artificial Intelligence & Machine Learning: Numerical and Statistical
		Methods Machine Design I: Machine Design II: and Research Methodology
		Final Vear (IIG). Mechanical System Design: Machine Tool Design: Production
		Management
		Polishility Engineering, and Automobile Engineering
		DC Level: Descereb Methodology: Deliebility Engineering, and Design for Deliebility
		FG Level: Research Methodology; Reliability Engineering; and Design for Reliability
Projects Guided	:	UG Level = 12
		PG Level = 02
Recommended	:	Name of the Student: More than 20 students for PG level
Students for Higher		University/Industry: Various Universities across the USA, Canada, Germany and
Education		Singapore
Institute/Department	:	Dean, Research and Development
Responsibility		Institute Level In-charge of Quality Publications
handled:		Coordinator of Research and Innovation (R&I) Cell
		Program Assessment Committee (PAC) member
		• Member of SIG coordination team
		Coordinator foreign collaborations
		Ecolutive coordinator - Machanical Engineering Students Association (MESA)
		• Faculty coordinator - Mechanical Engineering Students Association (MESA)
		• Department Library coordinator
	<u> </u>	In charge Saturday Activities
Pedagogy	:	
Development	<u> </u>	
Special	:	\rightarrow Top performer of the Mechanical Engineering of PCCOE, Pune for the year 2022-23.
Achievements:	1	\rightarrow Best outgoing student for the year 2009-10 at ADCET, Ashta.
	1	\rightarrow Academic Deputy for the year 2006-07 at ADCET, Ashta.