

Faculty Profile on University Website www.mjpru.ac.in

Title Di	r.	Visha	1 5	Saxena			Photograph	
Designation	on	Assistant Professor (Sr. Scale)						
Departme	ent	Mechanical Engineering						
Address	Campus	Mech	anical Engine	ering l	Department	t		
	Residence	12/13	- Civil Lines,	Bareill	y (U.P) 243	001		
Mobile No).	09412	2738873					
Email ID	Email ID Per		nal	visha	125111977@	gma	il.com	
		Unive	rsity Domain	visha	ılmeiet@mjj	oru.ac	.in	
				visha	ıl.saxena@n	njpru.	ac.in	
Profession	nal			1				
Networkii	ng ID, i.e.							
Linkedin,	Twitter etc.	vishal	.saxena@mjpr	u.ac.in				
Education	nal Qualification	ns (Gr	aduation Onv	vards)				
Course/Do	egree	Inst	stitution Year De		Deta	etails/Thesis Topic/Subjects		
1. B.E (M	echanical)		h Maharashtra		1998		esign and Fabrication of	
2 M F (N	Techanical)		ersity, Jalgaon (GEC)- Raipur		2000	The	matic Knuckle press.	
2. WI.E (W	iechanicai)	1111	GEC)- Kaipui	C.S	2000		ormance augmentation of	
							genic oxygen air	
2 Dh D (1	Fuel Engineering)	шт	Dhanbad		2020		ration plant. erimental investigations	
3. FII.D (F	uei Engineering)	1111-	Dilaiibau		2020	on	the feasibility of	
						emu	lsified biodiesel with	
							particle additives	
						`	dified fuel) in a modified pression ignition engine.	
Career Pr	ofile				l	Com	pression ignition engine.	
Organizati	on / Institution		Designation	Dura	ition		Nature of Duties	
	JP, Rohilkhand		Guest Faculty		000- 18May20		Academics (teaching)	
	ity- Bareilly (U.F	')	Lastrone	,	ars, 09 month		Anadomica (the artists of	
· ·	JP, Rohilkhand ity- Bareilly (U.F	P)	Lecturer	1	y2004- 18May years.	4009	Academics((teaching/ research)	
	JP, Rohilkhand	,	Lecturer/	·	y2009- till dat	e.	Teaching/ Research	
· ·	ity- Bareilly (U.F	P)	Assistant Prof.			(other allied duties		
			(Sr. Scale)				related to academics)	
Research	Interests / Spec	ializat	ion:					

			Thermal	Eng	ineering, F	leat to	ansfe	r, IC engines	, Nan	ofluid fuels.	
Research Ex	per	ience in	Years: 04	l ye	ars						
No of Resear	ch S	Scholars	Successfu	ully	Guided						
Name of Prog	ran	ıme	Awa	arde	d			Under St	upervision		
Ph.D.											
M.Phil./ <i>M.T.</i>	ech.		0)3				As Guid	le.		
Dissertation											
(M.Ed./M.A.)											
Researcher/		copus			Orchid	Pub	lone	Vidwan	Coo	gle Scholar	
Expert ID		-	@mjpru.ac.in		Ji Ciliu	1 ub	10115	viuwan		25111977@gmail	com
_									Visital	23111777@gman	.com
Teaching Exp											
Thermodynan											
conversion, O	-		· ·	duc	tion manag	emen	t, Ref	rigeration an	d Air	conditioning	,
Power plant, 0	jas	dynamic	es.								
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Honours / Av			llowship F	OR	ROUTSTA	ANDI	NG V	VORK			
Name of Awa	rd/	1						ded By	1		
Fellowship				Name of Governmenta		al	Nam			me of	
			Agency				Government		International		
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Dublications	/ ^ ^	adamia	Activities	(Nu		NIL	_	artment			
Publications	/Ac				ımbers On		Depa				
Books &	/Ac	Researc	ch Papers	(Nu	Papers	ıly)	_	Seminars/	08	Research	02
Books & Monograph	/Ac	Researce Publish	ch Papers ed in		Papers Presented	ily)	Depa	Seminars/ Conferenc	08	Projects	02
Books & Monograph s (Single	/Ac	Researce Publish Internat	ch Papers ed in tional		Papers Presented Seminars	ily)	Depa	Seminars/ Conferenc	08	Projects (Complete	02
Books & Monograph s (Single Author)	/Ac	Researce Publish Internat Journal	ch Papers ed in tional	10	Papers Presented Seminars Conference	ily)	Depa	Seminars/ Conferenc es Organized		Projects (Complete d)	
Books & Monograph s (Single Author) Books (Co-	/Ac	Researce Publish Internat Journal Researce	ch Papers ed in tional s ch Papers		Papers Presented Seminars/ Conference Seminar/	in /ces	Depa	Seminars/ Conferenc es Organized Workshop	08	Projects (Complete d) Research	02
Books & Monograph s (Single Author)	/Ac	Researce Publish Internat Journal Researce Publish	ch Papers ed in tional s ch Papers ed in	10	Papers Presented Seminars/ Conference Seminar/ Conference	in /ces	Depa	Seminars/ Conferenc es Organized Workshop s		Projects (Complete d) Research Projects	
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Books & Monograph s (Single Author) Books (Co- authored)	//Ac	Researce Publish Internat Journal Researce Publish Other J	ch Papers ed in tional s ch Papers ed in ournals	10	Papers Presented Seminars/ Conference Seminar/ Conference Attended Sessions	in /ces	Depa	Seminars/ Conferenc es Organized Workshop s Organized Membersh		Projects (Complete d) Research Projects (Ongoing) Foreign	
Books & Monograph s (Single Author) Books (Co- authored) Books (Edited)	/ Ac	Researce Publish Internat Journal Researce Publish Other J Articles Publish	ch Papers ed in tional s ch Papers ed in ournals s ed in	10	Papers Presented Seminars Conference Seminar/ Conference Attended	in / ces ces	15 21	Seminars/ Conferenc es Organized Workshop s Organized		Projects (Complete d) Research Projects (Ongoing)	01
Books & Monograph s (Single Author) Books (Co- authored) Books (Edited) Chapters in		Researce Publish Internat Journal Researce Publish Other J	ch Papers ed in tional s ch Papers ed in ournals s ed in r Fora,	10	Papers Presented Seminars, Conference Seminar/ Conference Attended Sessions Chaired in	in / ces ces	15 21	Seminars/ Conferenc es Organized Workshop s Organized Membersh ip of		Projects (Complete d) Research Projects (Ongoing) Foreign Countries	01
Books & Monograph s (Single Author) Books (Co- authored) Books (Edited) Chapters in Edited		Researce Publish Internat Journal Researce Publish Other Journal Articles Publish Popular	ch Papers ed in tional s ch Papers ed in ournals s ed in r Fora,	10	Papers Presented Seminars/ Conference Attended Sessions Chaired in Seminars/	ces n // ces	15 21	Seminars/ Conferenc es Organized Workshop s Organized Membersh ip of Academic/		Projects (Complete d) Research Projects (Ongoing) Foreign Countries Visited for	01
Books & Monograph s (Single Author) Books (Co- authored) Books (Edited) Chapters in		Researce Publish Internat Journal Researce Publish Other J Articles Publish Popular e.g., We	ch Papers ed in tional s ch Papers ed in ournals s ed in r Fora, ebsites,	10	Papers Presented Seminars, Conference Seminar/ Conference Attended Sessions Chaired in Seminars, Conference	ces n / ces	15 21 03	Seminars/ Conferenc es Organized Workshop s Organized Membersh ip of Academic/ Profession		Projects (Complete d) Research Projects (Ongoing) Foreign Countries Visited for Academic	01

Details of Pub (a) Authored			ic Activities (20 ns	010 Onwards)		
Name of Book		Year of Publication		Publisher	ISI	BN No
			NI	L	·	
(b) Edited Bo	oks					
Year of Publication	Title		Publisher	ISBN	DOI No.	Citations
			N.	<u>i</u> IL	<u> </u>	<u> </u>

(c) Papers Published in UGC Care Listed /Indexed/ Peer Reviewed Journals

Year of	Title	Name of	ISSN/DOI.	Citations	Impact Factor
Publication		Journal	No		
2014	Development of Mathematical model of chiller system considering heat as well as pressure losses"	International Journal of Mechanical Engineering MIT- Publications	2230-7680		
2014	The impact of Fouling on the condenser and evaporator of the chiller system: "An experimental observation"	BLB, International Journal of Science and Technology	0976-3074		
2015	A review paper on most significant and sub significant parameters of Abrasive water jet Machining"	International Journal of Advance Research in Science and Engineering	2319-8354(E).		
2015	Effect of different operating parameters on heat transfer charactertics using impingement spray cooling	International Journal of Advance Research in Science and Engineering	2319-8354(E).		
2017	A comphensive review on combustion and stability aspects of metal nanoparticles	Renewable and Sustainable Energy reviews/RSER Elsevier	doi.org/10.10 16/j.rser.2016. 11.067	127	12.11

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	and its additive				
	effect on diesel				
	and biodiesel				
	fuelled C.I.				
	engine				
2018	Biodiesel	Energy	doi.org/10.10	01	1.89
	synthesis from	Sources, Part	80/15567036.		
	Acacia concinna	A: Recovery,	2018.1486912		
	seed oil: A	Utilization, and			
	comprehensive	Environmental			
	study	Effects.			
		Taylor and			
		Francis			
2019	Experimental	IOP-	doi:10.1088/17		0.53
	investigations	Material	57-899X/691/1		
	for rheological	science and	/012022.		
	characteristics	Engineering	/012022.		
	of TiO ₂				
	nanoparticles				
	doped diesel,				
	biodiesel fuel				
	blends for use in				
	compression				
	ignition engine.				
2019	Numerical	IOP-	doi:10.1088/17		0.53
	simulation of	Material	57-899X/691/1	_ 	0.33
	flow past a flat	science and	/012021		
	plate with anti-	Engineering	/012021		
	*	Engineering			
	singing trailing adge				
2019	trailing edge.	Annlind	doi 0=0/10 10	14	8.848
2017	Multi-objective	Applied	doi.org/10.10	14	0.040
	optimization of	Energy	16/j.apenergy.		
	modified	(Elsevier)	2019.04.091		
	nanofluid fuel				
	blends at				
	different TiO ₂				
	nanoparticle				
	concentration in				
	diesel engine:				
	Experimental				
	assessment and				
2020	Modeling.	2.5	4		
2020	RSM/DFA	Materials	doi.org/10.1016		0.97
	computation	Today:	/j.matpr.2020.0		
	approach for	Proceedings	7.421		
	optimization and	(Elsevier)			
	modeling of CI				
	engine				
	performance and				
	emission				
	characteristics				
	fuelled with				
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(d) Chapter/P	preheate blend m withTiO nanoma	odified 02 terial	Edited Book	(6				
	aper rui					ı		
Publication National	Interna tional	Title of the Book	Title of the Chapter	Name & Address of	Year	ISB N	DOI	Citation Google/ web of
	Interna tional	Advanc es in Interdisc iplinary Enginee ring	process optimization of biodiesel synthesis from Acacia- Concinna seed oil using TOPSIS and GRA	Publisher (Springer- Singapore)	2018	798- 981- 13- 6576- 8	10.1 007/ 978- 981- 13- 6577 - 5_33	science
	Interna tional	notes in	approach Design optimization of Intake Manifold for Naturally Aspirated SI engine to improve the Volumetric Efficiency Using 1-D	Springer	2020	Ассер	ted for	publication
National		Applicat ions in	Performance Analysis of Centrifugal Compressor Unit (IFFCO, AONLA) Using Computer Aided Simulation Technique.			978- 81-92- 11-24- 7-3		
राष्ट्रीय		विज्ञान गरिमा सिन्धु, हिन्दी में	प्रशीतन प्रणाली के प्रदर्शन और	www.sttpp ublication. mhrd. gov.in		2320 - 7736		

वैज्ञानिक	TiO ₂ +			
एवं	R134a नैनो			
तकनीकी	प्रशीतक के			
लेखन	प्रभावों का			
	प्रयोगिक			
	अध्ययन.			

(e) Invited as Resource Lectures Person/Examiner/Expert

Resource	Detail of	Title of	Date	Institution
person	Event	Lecture		
Invited lecture	Lecture series	Thermal Engineering and Fluid Mechanics	2008	Invertis institute of engineering and technology- Bareilly (U.P)
Invited lecture	Technical lecture	Turbo machines	2011	Future institute of engineering and technology- Bareilly
Technical lecture	Technical workshop	Advances in heat exchanger design	2012	Prem Prakash Gupta Institute of Engineering- Bareilly
Technical lecture	Int. Conference (ICAREMIT- 2015),	Cryogenics	2015	M.J.P, Rohilkhand University- Bly (U.P).
Key speaker	Int. Conference (ICAREMIT- 2016)	Internal combustion engines.	2016	M.J.P, Rohilkhand University- Bly (U.P).
Lecture delivered	M.Tech sequential Program	Advanced heat transfer, advanced fluid mechanics, internal combustion engines	2014,2015	WCET, Uttrakhand Technical University- Dehradun
Technical lecture	National Con. Advancement in engineering materials (NCAEM- 2016)	Biofuels and lubricants.	2016	M.J.P, Rohilkhand University- Bly (U.P).
Speaker	International Workshop	Youth empowerment through skill development	2018	M.J.P, Rohilkhand University- Bly (U.P).
Technical lecture	Int. Conference (ICAREMIT-	Concepts of spray cooling in Industrial	2019	M.J.P, Rohilkhand University- Bly (U.P).

	2016)	applications		
Technical	Int.	Future	2020	Amity University- Noida
session chair	Conference	learning		
		aspects of		
		Mechanical		
		Engineering,		
		FLAME-2020		
panel of	Technical fest	Technical	2019	Dr. APJ Abdul Kalam
judges		literary and		Technical University-
		management		Luck now (U.P)

(f) Seminars/Conferences/Workshops Organized

- 1. National Seminar on "Software Applications in Engineering and Technology" (SAET-2012), ISBN:978-81-921124-7-3.
 - Organizing Committee (Souvenir & Proceeding).
- 2. National conference "Advancements in engineering materials, NCAEM-2016". M.J.P, Rohilkhand University- Bareilly (U.P).
 - Organizing Committee (Convener).
- 3. International conference "Academic research in Engineering Management and information technology (ICAREMIT-2015), M.J.P Rohilkhand University- Bly (U.P). Organizing Committee (Member).
- 4. 2nd International conference "Academic research in Engineering Management and information technology (ICAREMIT-2016), M.J.P Rohilkhand University- Bly (U.P). Organizing Committee (Convener).
- 5. 4th International conference "Academic research in Engineering Management and information technology (ICAREMIT-2019), M.J.P Rohilkhand University- Bly (U.P). Organizing Committee (Convener).
- 6. 5th International conference "Academic research in Engineering Management and information technology (ICAREMIT-2020), M.J.P Rohilkhand University- Bly (U.P). Organizing Committee (Convener).
- 7. National Workshop on "ANSYS and Cryo parametric- 2.0" Department of ME, MJP, RU- Bly in collaboration with CCTS- Bly 14/15/April2015.

 Organizing Committee (Coordinator).
- 8. National Workshop on "MATLAB" Department of ME, MJP, RU-Bly. 3/4 Dec2014. Organizing Committee (organizing secretary).
- 9. Faculty development program on Frontier areas of research in Mechanical Engineering, sponsored by MHRD under TEQIP-II. 25/29 March 2014.

 Organizing Committee (Coordinator).
- 10. Faculty development program on Innovations and trends in Mechanical and Production Engineering, Department of ME, MJP, RU- Bly under TEQIP-II. 25/29 March 2014. Organizing Committee (Member).

(g) Projects (With Title, Year, Grants, Funding Agency and Collaborations)						
Year	Name of	Funding	Amount	Duration		
	Project	Agency		From	Till	

2019/20	Tribological and Endurance behaviour of Nanobiofluid fuelled diesel engine.	TEQIP-III	250000/-	2019	2020
18/06/2019	Solar Pump Irrigation based on PV Cell technology-	TEQIP collaborative research scheme National Project Implementation Unit- MHRD GOI	976700/-	2019	2020

(h) Administrative Positions/Assignments Held

Post	Organization	Duration			
		From	To		
In charge	Mechanical Engg Dep't,	2013.	2019.		
Head ME.	IET, MJP, Rohilkhand				
	University- Bareilly				

(i) Seminar/Conference Presentations

International Conference.

- Design of fuel cell bio plant with gas turbine hybrid system.
 Energy technologies, changing environmental trends and sustainable development,
 Guru Jambeshwar University of Agriculture science and technology, Hissar (Haryana).
 2004. Dr. O.P Upadhyay, Vishal Saxena, N. K. Kedia.
- 2. Experimental investigations on the lubricity of Acacia Concinna biodiesel contaminated lubricating oil in a simulated environment. Published in Proceedings of International conference "Academic research in Engineering Management and information technology" (ICAREMIT-2016), M.J.P, Rohilkhand University- Bareilly (U.P). Vishal Saxena, Niraj Kumar, Vinod Kumar Saxena. Sant Ram Chauhan, Varun.
- 3. Effect of surfactant at varying nozzle standoff distance on heat transfer characteristics of enhanced hot metal surfaces in a non boiling region: An experimental evaluation. Published in Proceedings of International conference "Academic research in Engineering Management and information technology" (ICAREMIT-2016), M.J.P, Rohilkhand University- Bareilly (U.P). Vishal Saxena, Aditya Prakash.
- 4. Influence of surface characteristics and different operating parameters on heat transfer rates from heated metal surface via spray cooling.
 Published in Proceedings of International conference "Academic research in Engineering Management and information technology" (ICAREMIT-2016), M.J.P, Rohilkhand University- Bareilly (U.P). Vishal Saxena, Sarvesh Sahai.
- 5. Experimental investigations to analyze the effect of enhanced profile on metallic surfaces and role of surfactant on heat transfer characteristics in a non boiling regime. New Scintillations on Materials horizon (ICNSMH-2016). M.J.P, Rohilkhand University- Bareilly (U.P). Vishal Saxena, Aditya Prakash.

- 6. Effect of different operating parameters on heat transfer characteristics of Heated metal surfaces using impingement spray cooling- An experimental methodology. New Scintillations on Materials horizon (ICNSMH-2016). M.J.P, Rohilkhand University-Bareilly (U.P). Vishal Saxena, Sarvesh Sahai.
- 7. Experimental investigations on the tribological characteristics of TiO2 metal nano particles (MNP) additives with Acacia Concinna biodiesel- diesel fuel blends.

 XVII th International seminar on Mineral processing technology- MPT-2018, Department of Fuel and Mineral Engineering, IIT (ISM)- Dhanbad, India. 2018.

 Vishal Saxena, Niraj Kumar, Vinod Kumar Saxena.
- 8. Experimental investigations for rheological characteristics of TiO₂ nanoparticles doped diesel, biodiesel fuel blends for use in compression ignition engine, paper presented in 2nd International conference on computational and experimental methods in Mechanical Engineering (ICCEMME-2019). Vishal Saxena
- 9. Numerical simulation of flow past a flat plate with anti-singing trailing edge paper presented in 2nd International conference on computational and experimental methods in Mechanical Engineering (ICCEMME-2019). Vishal Saxena
- 10. Solar pump irrigation-A Review. ICAREMIT-2020 at MJPRU, Bareilly 2020. V. Singh, V. Saxena, V. S. Yadav, N. Kumar and A. Maheswari
- 11. Tribological aspects of internal combustion engine. ICAREMIT-2020 at MJPRU, Bareilly 2020. Vishal saxena, Sudesh kumar, Shrikesh Jalan, Mohd Taseem, Mayank Singh and Mohd. Asif Khan.
- 12. Exergy and Energy analysis of process industries. ICAREMIT-2020 at MJPRU, Bareilly 2020. Vishal Saxena.
- 13. RSM/DFA computation approach for optimization and modeling of CI engine performance and emission characteristics fuelled with preheated fuel blend modified with TiO2 nanomaterial presented in International conference Future learning aspects of Mechanical Engineering, FLAME-2020. Vishal Saxena
- 14. Design optimization of Intake Manifold for Naturally Aspirated SI engine to improve the Volumetric Efficiency Using 1-D Approach, presented in International conference Future learning aspects of Mechanical Engineering, FLAME-2020. Vishal Saxena

National Conference/Seminars.

- 1. New generation alternative refrigeration systems.
 - National conference on advancements and futuristic trends in mechanical and materials engineering- G.Z.S college of engineering- Bhatinda (P.B)- 13/14/2006. Saxena Vishal, Pathak R.K.
- 2. Rapid prototyping and rapid tooling are ready for the prime time.

 National conference on advancements and futuristic trends in mechanical and materials engineering- G.Z.S college of engineering- Bhatinda (P.B)- 13/14/2006.

 Saxena Vishal, Pathak R.K.
- 3. Micro electro mechanical systems. A brief study.

 National conference on advances in product design, materials and manufacturing engineering, B.S.A Cresent engineering college- Vandalur, Chennai. 24/25/2008.

 Dr. O.P Upadhyay, Vishal Saxena, N. K. Kedia.
- 4. An assessment of Fluidized bed technology.

 National conference on Recent trends in Mechanical and Production Engineering.

- PantNagar, pp. 611-615, 2009. Vishal Saxena, N. K. Kedia.
- 5. To determine the theoretical refrigeration possible using the given evacuated tube air heating assembly.
 - National conference on Recent trends in Mechanical and Production Engineering. PantNagar, pp. 623-627, 2009. V. Saxena, H. Jaiswal.
- 6. Performance Analysis of Centrifugal Compressor Unit (IFFCO, AONLA) Using Computer Aided Simulation Technique.
 - National seminar on Software Applications in Engineering and Technology" (SAET-2012) 17th Feb, 2012 MJP, RU Bly. Vishal Saxena, Manoj Kumar Singh, Saurabh Vats.
- 7. Experimental investigation of different mechanical properties on glass fibre reinforced composites for Machine/structural components. National Seminar on Advancements and Futuristic trends in material science. MJP, Rohilkhand University- Bareilly 26/27 march 2011. Vishal Saxena, Aditya Prakash.

(j) Memberships of Academic/Professional Bodies

1. Institution of Engineers.

(k) Participation in Community Service / Exchange Program / Consulting Activity

- 1. Industry institute interaction program (TEQIP-II) discussing various technical aspects of plant as well as training and placement issues of B. Tech graduates of MJP, RU-Bly. 03-07/Nov 2014. Radico- Khaitan ltd- Rampur (U.P)
- 2. DREAM GREEN "Tree Plantation Drive". Green week campaign for planting 200 trees at MJP, Rohilkhand University- Bly in collaboration with CADD centre Bly.2015
- 3. Member of panel of judges in Technical literary and management fest, organized by Dr. APJ Abdul Kalam Technical University- Lucknow.2019.
- 4. Consultancy given to M.Tech students for conducting Dissertation on various analysis in Advanced Material testing lab of Department of Mechanical Engineering, MJP, Rohilkhand University Bly. 2016/2017.(Ref letter No- INVU/1701-07/ 2017).
- Consultancy given to M.Tech students for conducting Dissertation on various analysis on composite materials in Material testing laboratory of Department of Mechanical Engineering, MJP, Rohilkhand University – Bly. 2016/2017.(Ref letter No-INVU/1701-07/2017).
- 6. Consultancy given to M.DS students (Rohilkhand Medical and Dental college- Bly) for conducting Dissertation on various friction, wear and surface roughness analysis on developed tooth materials on Pin on Disc machine, in Tribology laboratory of Department of Mechanical Engineering, MJP, Rohilkhand University Bly.

(1) International Academic Exposure: NIL

(m) Any Other Details

Developed IC engine lab, biofuel processing facility, Industrial cooling of metals heat spray and jet impingement/ pool boiling heat transfer lab facility.

Signature of Faculty Member