

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

Department       Mechanical Engineering         Address       Campus       Mechanical Engineering Department         Residence       12/13- Civil Lines, Bareilly (U.P) 243001         Mobile No.       09412738873	Title D	r.	Visha	il S	Saxena	L		Photograph		
Address       Campus       Mechanical Engineering Department Residence       Iz/13- Civil Lines, Bareilly (U.P) 243001         Mobile No.       09412738873       Image: Compute	<b>Designation</b>			tant Professor	(Sr. S	cale)				
Residence       12/13- Civil Lines, Bareilly (U.P) 243001         Mobile No.       09412738873         Email ID       Personal       vishal25111977@gmail.com         University Domain       vishal25111977@gmail.com         Vishal.saxena@mjpru.ac.in       vishal.saxena@mjpru.ac.in         Professional       vishal.saxena@mjpru.ac.in         Networking ID, i.e.       vishal.saxena@mjpru.ac.in         Linkedin, Twitter etc.       vishal.saxena@mjpru.ac.in         Educational Qualifications (Graduation Onwards)       Details/Thesis Topic/Subjects         Course/Degree       Institution       Year       Details/Thesis Topic/Subjects         1. B.E (Mechanical)       NIT(GEC)- Raipur C.S       2000       Thermal analysis for performance augmentation of cryogenic oxygen air separation plant.         3. Ph.D (Fuel Engineering)       IIT- Dhanbad       2020       Experimental investigations on the feasibility of emulsified biodiesel with nanoparticle additives (modified fuel) in a modified compression ignition engine.         Career Profile       Organization / Institution       Designation       Nature of Duties         1. IET, MJP, Rohilkhand       Guest Faculty       Aug.2000- 18May2004       Academics (teaching)         University- Bareilly (U.P)       Zestiant Prof. (Sr. Scale)       Cademics (teaching/ research)       Teaching/ Research         1. IET, M	Departme	ent	Mech	anical Engine	ering					
Mobile No.         09412738873           Email ID         Personal         vishal25111977@gmail.com           University Domain         vishal25111977@gmail.com           Professional         vishal.saxena@mjpru.ac.in           Networking ID, i.e.         vishal.saxena@mjpru.ac.in           Linkedin, Twitter etc.         vishal.saxena@mjpru.ac.in           Educational Qualifications (Graduation Onwards)         Course/Degree         Institution           Year         Details/Thesis Topic/Subjects           1. B.E (Mechanical)         North Maharashtra         1998           Design and Fabrication of Pneumatic Knuckle press.         Pneumatic Knuckle press.           2. M.E (Mechanical)         NIT(GEC)- Raipur C.S         2000           Thermal analysis for performance augmentation of cryogenic oxygen air separation plant.         separation plant.           3. Ph.D (Fuel Engineering)         IIT- Dhanbad         2020         Experimental investigations on the feasibility of emulsified biodiesel with nanoparticle additives (modified fuel) in a modified compression ignition engine.           Career Profile         Organization / Institution         Designation         Nature of Duties           1. IET, MJP, Rohilkhand         Guest Faculty         Aug.2000- 18May2004         Academics (teaching)           University- Bareilly (U.P)         Lecturer         19May2009- t	Address	Campus	Mech	anical Engine	ering l	Department	t			
Email ID       Personal       vishal25111977@gmail.com         University Domain       vishalneiet@mjpru.ac.in         Vishal.saxena@mjpru.ac.in       vishal.saxena@mjpru.ac.in         Professional       vishal.saxena@mjpru.ac.in         Networking ID, i.e.       vishal.saxena@mjpru.ac.in         Linkedin, Twitter etc.       vishal.saxena@mjpru.ac.in         Course/Degree       Institution       Year         Details/Thesis Topic/Subjects       1. B.E (Mechanical)       North Maharashtra       1998         University, Jalgaon- M.S       2000       Thermal analysis for         Preformace augmentation of cryogenic oxygen air separation plant.       2020       Experimental investigations on the feasibility of emulsified biodiesel with nanoparticle additives (modified fuel) in a modified compression ignition engine.         Career Profile       Organization / Institution       Designation       Nature of Duties         1. IET, MJP, Rohilkhand       Guest Faculty       Aug.2000-18May2004       Academics (teaching)         University- Bareilly (U.P)       IPMay2004-18May2009       Academics (teaching/ research)         3. IET, MJP, Rohilkhand       Lecturer/ Assistant Prof. (sr. Scale)       19May2009- till date.       Teaching/ Research (other allied duties related to academics)		Residence	12/13	- Civil Lines, I	Bareill	y (U.P) 243	001			
University Domain       vishalmeiet@mjpru.ac.in         Vishal.saxena@mjpru.ac.in       vishal.saxena@mjpru.ac.in         Professional       vishal.saxena@mjpru.ac.in         Networking ID, i.e.       vishal.saxena@mjpru.ac.in         Linkedin, Twitter etc.       vishal.saxena@mjpru.ac.in         Educational Qualifications (Graduation Onwards)       Professional         Course/Degree       Institution       Year       Details/Thesis Topic/Subjects         1. B.E (Mechanical)       North Maharashtra       1998       Design and Fabrication of Pneumatic Knuckle press.         2. M.E (Mechanical)       NIT(GEC)- Raipur C.S       2000       Thermal analysis for performance augmentation of cryogenic oxygen air separation plant.         3. Ph.D (Fuel Engineering)       IIT- Dhanbad       2020       Experimental investigations on the feasibility of emulsified biodiesel with nanoparticle additives (modified fuel) in a modified compression ignition engine.         Career Profile       Organization / Institution       Designation       Duration       Nature of Duties         1. IET, MJP, Rohilkhand       Lecturer       19May2004- 18May2004       Academics (teaching)         0ryearization / Institution       Lecturer/       19May2009- till date.       Treaching/ Research (other allied duties related to academics)	Mobile No		09412	2738873						
Professional       vishal.saxena@mjpru.ac.in         Professional       vishal.saxena@mjpru.ac.in         Networking ID, i.e.       vishal.saxena@mjpru.ac.in         Linkedin, Twitter etc.       vishal.saxena@mjpru.ac.in         Educational Qualifications (Graduation Onwards)         Course/Degree       Institution       Year       Details/Thesis Topic/Subjects         1. B.E (Mechanical)       North Maharashtra       1998       Design and Fabrication of Pneumatic Knuckle press.         2. M.E (Mechanical)       NIT(GEC)- Raipur C.S       2000       Thermal analysis for performance augmentation of errogenic oxygen air separation plant.         3. Ph.D (Fuel Engineering)       IIT- Dhanbad       2020       Experimental investigations on the feasibility of emulsified biodiesel with nanoparticle additives (modified fuel) in a modified compression ignition engine.         Career Profile       Organization / Institution       Designation       Nature of Duties         1. IET, MJP, Rohilkhand       Guest Faculty       Aug.2000- 18May2004       Academics (teaching)         University- Bareilly (U.P)       Ecturer       19May2004- 18May2009       Academics (teaching/ teaching/ teachi	Email ID		Person	nal	visha	125111977@	@gma	il.com		
Professional       vishal.saxena@mjpru.ac.in         Networking ID, i.e.       vishal.saxena@mjpru.ac.in         Linkedin, Twitter etc.       vishal.saxena@mjpru.ac.in         Educational Qualifications (Graduation Onwards)       Course/Degree       Institution       Year       Details/Thesis Topic/Subjects         1. B.E (Mechanical)       North Maharashtra       1998       Design and Fabrication of Pneumatic Knuckle press.         2. M.E (Mechanical)       NIT(GEC)- Raipur C.S       2000       Thermal analysis for performance augmentation of cryogenic oxygen air separation plant.         3. Ph.D (Fuel Engineering)       IIT- Dhanbad       2020       Experimental investigations on the feasibility of emulsified biodiesel with nanoparticle additives (modified fuel) in a modified compression ignition engine.         Career Profile       Organization / Institution       Designation       Duration       Nature of Duties         1. IET, MJP, Rohilkhand University- Bareilly (U.P)       Lecturer       19May2004- 18May2004 (Academics (teaching) 05years.       Academics (teaching/ research)         3. IET, MJP, Rohilkhand University- Bareilly (U.P)       Lecturer/ Assistant Prof. (Sr. Scale)       19May2009- till date.       Teaching/ Research (other allied duties related to academics)		-	Unive	ersity Domain	visha	lmeiet@mjj	pru.ac	<u>e.in</u>		
Networking ID, i.e. Linkedin, Twitter etc.       vishal.saxena@mjpru.ac.in         Educational Qualifications (Graduation Onwards)         Course/Degree       Institution       Year       Details/Thesis Topic/Subjects         1. B.E (Mechanical)       North Maharashtra University, Jalgaon- M.S       1998       Design and Fabrication of Pneumatic Knuckle press.         2. M.E (Mechanical)       NIT(GEC)- Raipur C.S       2000       Thermal analysis for performance augmentation of cryogenic oxygen air separation plant.         3. Ph.D (Fuel Engineering)       IIT- Dhanbad       2020       Experimental investigations on the feasibility of emulsified biodiesel with nanoparticle additives (modified fuel) in a modified compression ignition engine.         Career Profile       Organization / Institution       Designation       Nature of Duties         1. IET, MJP, Rohilkhand University- Bareilly (U.P)       Guest Faculty 03years, 09 months       Nature of Duties (teaching/ 03years.       Academics( (teaching) 05years.         2. IET, MJP, Rohilkhand University- Bareilly (U.P)       Lecturer/ Assistant Prof. (Sr. Scale)       19May2009- till date.       Teaching/ Research (other allied duties related to academics)					visha	ll.saxena@n	njpru.	ac.in		
Linkedin, Twitter etc.vishal.saxena@mjpru.ac.inEducational Qualifications (Graduation Onwards)Course/DegreeInstitutionYearDetails/Thesis Topic/Subjects1. B.E (Mechanical)North Maharashtra University, Jalgaon- M.S1998Design and Fabrication of Pneumatic Knuckle press.2. M.E (Mechanical)NTr(GEC)- Raipur C.S2000Thermal analysis for performance augmentation of cryogenic oxygen air separation plant.3. Ph.D (Fuel Engineering)IIT- Dhanbad2020Experimental investigations on the feasibility of emulsified biodiesel with nanoparticle additives (modified fuel) in a modified compression ignition engine.Organization / InstitutionDesignationDurationNature of Duties1. IET, MJP, Rohilkhand University- Bareilly (U.P)Guest Faculty 0Syears.Academics (teaching) of years.Academics (teaching) research)3. IET, MJP, Rohilkhand University- Bareilly (U.P)Lecturer/ Assistant Prof. (Sr. Scale)19May2009- till date.Teaching/Research (other allied duties related to academics)	Profession	nal			<u> </u>					
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	Research	Interests / Speci	ializat	, ,	1			1		

		Thermal I	Eng	ineering, F	leat t	ransfe	r, IC engines	s, Nar	ofluid fuels.	
Research Ex	perienc	e in Years: 04	yea	ars						
No of Researc	ch Scho	lars Successfu	ılly	Guided						
Name of Progr	ramme	Awa	rde	d			Under S	uperv	vision	
Ph.D.										
M.Phil./ M.Te	ch.	0	3				As Guio	łe.		
Dissertation										
(M.Ed./M.A.)										
Researcher/	Scopu	IS	(	Orchid	Pub	lons	Vidwan	Goo	gle Scholar	
Expert ID	vishal.sa	xena@mjpru.ac.in						vishal	25111977@gmail	l.com
Teaching Exp	erience	e (Subjects/Co	urs	es Taught	;)					
Thermodynam		-				nd flu	id machinery	Hea	t transfer En	ergy
conversion, O	,	,		0			5	,	,	0.
Power plant, C			iuci	ion manag	,ciller	n, nei			conditioning	••
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Publications /	'Acader	nic Activities	(Nu	mbers Or	nly)					
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Author)	Jou	rnals		Seminars	s/		Organized		d)	
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-	1	, Websites,		Seminars	s/		Profession		Academic	
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<b>Details of Pu</b>	blications /Academ	nic Activities (20	010 Onwards)		
(a) Authored	<b>Books/ Monograp</b>	hs			
Name of Boo	k Vear of I	Publication	Publisher	1	ISBN No
		NI			
(b) Edited Bo	oks	111			
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Year of	Title	Publisher	ISBN	DOI No	o. Citations
Publication					
	03 bo	ook chapters in	·		·
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(c) Papers Pu	blished in UGC C	are Listed /Ind	exed/ Peer Revie	ewed Journ	als
Year of	Title	Name of	ISSN/DOI.	Citations	Impact Factor
Publication		Journal	No		
2014	Development of	International	2230-7680		
	Mathematical	Journal of			
	model of chiller	Mechanical			
	system	Engineering			
	considering heat	MIT-			
	as well as	Publications			
	pressure losses"				
2014	The impact of	BLB,	0976-3074		
	Fouling on the	International			
	condenser and	Journal of			
	evaporator of	Science and			
	the chiller	Technology			
	system: "An				
	experimental observation"				
2015	A review paper	International	2319-8354(E).		
	on most	Journal of	2517 0554(L).		
	significant and	Advance			
	sub significant	Research in			
	parameters of	Science and			
	Abrasive water	Engineering			
	jet Machining"				
2015	Effect of	International	2319-8354(E).		
	different	Journal of			
	operating	Advance			
	parameters on	Research in			
	heat transfer	Science and			
	charactertics	Engineering			
	using				
	impingement				
2017	spray cooling	Donorschler 1	doi 070/10/10	107	16 700
2017	A comphensive review on	Renewable and	U	127	16.799
	combustion and	Sustainable	16/j.rser.2016. 11.067		
	stability aspects	Energy reviews/RSER	11.007		
	of metal	ICVIEWS/NOLK			
	nanoparticles	Elsevier			
	nunopuncios				

	1., 1.1.,				
	and its additive				
	effect on diesel				
	and biodiesel				
	fuelled C.I.				
2018	engine		1. (10.10	00	2 4 4 7
2018	Biodiesel	Energy	doi.org/10.10	08	3.447
	synthesis from	Sources, Part	80/15567036.		
		A: Recovery,	2018.1486912		
	seed oil: A	Utilization, and			
	comprehensive	Environmental			
	study	Effects.			
		Taylor and			
2019		Francis	1 : 10 1000/17	0.4	0.52
2019	Experimental	IOP-	doi:10.1088/17	04	0.53
	investigations	Material	57-899X/691/1		
	for rheological	science and	/012022.		
	characteristics	Engineering			
	of TiO <sub>2</sub>				
	nanoparticles				
	doped diesel, biodiesel fuel				
	blends for use in				
	compression				
2019	ignition engine.	IOP-	doi:10.1099/17	05	0.53
-01 <i>7</i>		IOP- Material	doi:10.1088/17	05	0.35
	simulation of		57-899X/691/1		
	flow past a flat plate with anti-	science and	/012021		
	1	Engineering			
	singing trailing edge.				
2019		Applied	doi 0rg/10 10	14	9.76
	Multi-objective optimization of	Applied	doi.org/10.10	14	2.70
	modified	Energy (Elsevier)	16/j.apenergy. 2019.04.091		
	nanofluid fuel		2017.04.071		
	blends at				
	different TiO <sub>2</sub>				
	nanoparticle				
	concentration in				
	diesel engine:				
	Experimental				
	assessment and				
	Modeling.				
2020	RSM/DFA	Materials	doi.org/10.1016	04	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				
	raciica with				

	preheate blend m withTiC nanoma	odified D2						
2021	Combus perform and emi of Acac concinn esel ble diesel e with van specific ratio.	ance ssions <i>ia</i> biodi nds in a ngine riable	<u>Journal of</u> <u>Thermal</u> <u>Analysis and</u> <u>Calorimetry</u> Springer	s10973-0	doi.org/10.1007/ s10973-020- 10483-7.			4.626
2021	Tribolog response modified fuel usin dioxide material influence	e of l nanofluid lg titanium nano under the		<u>doi.org/10</u> .4049739	.1115/1	20	3	.09
( <b>d</b> ) Chapter/P Publication	aper Pul	blished in Title of	Edited Book	s Name &	Year	ISB	DOI	Citation
National	Interna tional	the Book	the Chapter	Address of Publisher		N		Google/ web of science
	Interna tional	es in Interdisc iplinary Enginee ring	objective process optimization of biodiesel synthesis from Acacia- Concinna seed oil using TOPSIS and GRA approach	(Springer- Singapore)	2018	798- 981- 13- 6576- 8	10.1 007/ 978- 981- 13- 6577 - 5_33	
	Interna tional	notes in	Design optimization of Intake Manifold for Naturally Aspirated SI engine to improve the Volumetric Efficiency Using 1-D	Springer	2020	Accep	ted for	publication

National		Applicat ions in	Performance Analysis of Centrifugal		978- 81-92- 11-24-		
		Engineer ing and Technol ogy	Compressor Unit (IFFCO, AONLA) Using Computer Aided Simulation		7-3		
			Technique.				
National	MHRD	foKku		www.sttpp	2320		
		xfjek	- 1	ublication.	-		
		flU/kq] fgUnh es	izn'kZu vkSj gkfu ij	mhrd. gov.in	7736		
	Internati onal	Feedstock s and Precursors for Catalysts Synthesis	logies for	Advancemen <u>t in</u> Oxygenated <u>Fuels for</u> Sustainable Development Elsevier	323- 90875 -7	doi.org/1 0.1016/B 978-0- 323- 90875- 7.00014- 9	

(e) Invited as	۵۶۲۶۲۵۵ אלאליטל ס, ר rduhdł ys[ku Resource Lectu	R134a uSuks iz'khrd ds izHkkoksa dk iz;ksfxd v/;;u.	miner/Expert	
Resource	Detail of Event	Title of Lecture	Date	Institution
person 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).

	Project	Agency		From	Till
<u>(g) Projects ('</u> Year	With Title, Year Name of	, Grants, Fundi Funding	ing Agency an Amount		
	_				
-	ering, Departmen		KU- Bly under	TEQIP-II. 25/2	9 March 2014.
-		-			al and Production
0	zing Committee	· · · · · · · · · · · · · · · · · · ·			
	red by MHRD u		25/29 March 20	14.	
-		-			nical Engineering,
-	zing Committee		-		
	al Workshop on '		•	E, MJP, RU- Bl	y. 3/4 Dec2014.
Organi	zing Committee	(Coordinator).			
RU- B	ly in collaboratio	n with CCTS- B	ly 14/15/April2	2015.	
7. Nation	al Workshop on '	'ANSYS and Cr	yo parametric-	2.0" Departme	nt of ME, MJP,
	zing Committee				/
	ation technology				
-	rnational confere		research in Eng	gineering Mana	gement and
	zing Committee		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
	ation technology				
-	rnational confere		research in Fno	tineering Mana	gement and
	zing Committee		(10), WI.J.F KOI		Sity- Diy (0.P).
	ernational conferent ation technology				
0	zing Committee	, ,	nagaanah in En	ainaanina Mana	comont on d
	ation technology		015), M.J.P Rol	ulkhand Univer	sity- Bly (U.P).
	tional conference		_		
-	zing Committee				4 1
	hand University-	• • •			
	al conference "A		engineering ma	aterials, NCAE	M-2016". M.J.P,
-	zing Committee		-		
	-2012), ISBN:97				
	al Seminar on "S			ering and Tech	nology"
(f) Seminars/	Conferences/Wo	-	ized	Luck I	5w (0.1)
judges		literary and management			cal University- ow (U.P)
panel of	Technical fest	Technical	2019		J Abdul Kalam
		FLAME-2020			
		Engineering,			
		aspects of Mechanical			
session chair	Conference	learning			
Fechnical	Int.	Future	2020	Amity	University- Noida
TI 1 ' 1					

2019/20	Tribological	TEQIP-III		250000/-	2019	2020		
	and	-						
	Endurance							
	behaviour of							
	Nanobiofluid							
	fuelled diesel							
	engine.							
18/06/2019	Solar Pump	TEQIP		976700/-	2019	2020		
	Irrigation	collaborati	ve					
	based on PV	research sc	heme					
	Cell	National P	roject					
	technology-	Implement	ation					
		Unit- MHF	RD					
		GOI						
(h) Administrat	ive Positions/As	signments <b>H</b>	Ield					
Post	Organization		Duration					
		Fron	1	То				
In charge	Mechanical Eng	2013		2019.				
Head ME.	IET, MJP, Roh							
	University- Bar	eilly						
(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 <sup>th</sup> 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.
- Experimental investigations for rheological characteristics of TiO<sub>2</sub> nanoparticles doped diesel, biodiesel fuel blends for use in compression ignition engine, paper presented in 2<sup>nd</sup> 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 2<sup>nd</sup> International conference on computational and experimental methods in Mechanical Engineering (ICCEMME-2019). Vishal Saxena
- 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 withTiO2 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.

- 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.
- 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.
- 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.
- 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 Advamcements 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

- 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.

## (I) 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.

Daren

Signature of Faculty Member