

Faculty Profile on University Website

www.mjpru.ac.in (NAAC A++ University)

Title	Dr.		First Name	KARU	JNA	Last	M.S	Photograph
						Name		
Designation			Senior Assis	tant Pro				
Department			Department	of Chen	nical E	Engineering		
Address	Car	npus	Pilibhit Bye	Pass Ro	ad. M	ahatma Jyo	tibha	
			Phule Rohilk	khand U	nivers	ity Bareilly		
	Res	idence	E16 TYPE4	Professo	ors Qı	arters. MJP	•	
			Rohilkhand 1	Universi				
Mobile/Lan	dline l	No.	+91581-2521947					
Email ID			Personal <u>mysore_karuna@hotr</u>				nail.com	
			University Domain <u>m.karuna@mjpru.ac.i</u>					<u>n</u>
Professional	Netw	orking	https://www.linkedin.com/in/karuna-mysuru					
ID, i.e. Link	ID, i.e. Linkedin, Twitter		facebook: Karuna Mysore					
etc.		/karuna.mysore						
Educational	Educational Qualification (G		raduation Onwards)					
Course/Degree Insti		tution Year Details/Thesis					Topic/Subjects	
Ph.D IFTM Unit			versity	2019	Trend of Air Quality and its impact on Vegetation			

Course/Degree	Institution	Year	Details/Thesis Topic/Subjects
Ph.D	IFTM University	2019	Trend of Air Quality and its impact on Vegetation
M. Tech.	University of Mysore	1995	Environmental Engineering
B.E	University of Mysore	1991	Civil Engineering

Career Profile

Organization/ Institution	Designation	Duration	Name of Duties
Department of Mechanical	Lecturer	1997-2002	Teaching, Proctor
Engineering, FET, MJPRU			
Department of Chemical	Senior Assistant	2002 to till date	Head In Charge, Teaching &
Engineering, FET, MJPRU	Professor		Research.
			Proctor (2002-2010)

Research Interests/Specialization

Environmental Engineering: (1) Waste Water Treatment (2) Atmospheric Air Pollution (3) Solid Waste Management

Research Experience in Years: 10 Years No. of Research Scholars Successfully Guided Name of Programme Awarded **Under Supervision** Ph.D. Nil Nil M.Phil. Nil Nil Nil Nil **Dissertation (M.Ed./M.A.)** Researcher/ Scopus Orchid **Publons** Vidwan Google Scholar AAX-9380-165774 7R63I10AAAAJ **Expert ID** 57402662100 0000-0002-6115-6055 2020 **Teaching Experience (Subjects/Courses Taught)** 1997 to till date (26 years 10 months) Fluid Mechanics, Engineering Mechanics, Industrial Pollution Control (Wastewater). Atmospheric Air Pollution. Municipal & Bio Medical Waste Management, Environmental Management. Honours/Awards & Fellowship FOR OUTSTANDING WORK Felicitated on the occasion of Teachers Day 2021 for significant contribution to the field of Higher Education. Awarded By Name of Award/ Name of Governmental Name of Government Name of International **Fellowship Supported Organization Recognized Body** Agency **Department** Nil Nil Nil Nil **Publication/Academic Activities (Numbers Only)** Books & Research **Papers** Seminar/ Research **Monographs Papers** Presented in Conferences **Project** Nil 19 Seminar/ 34 (Single Published in **Organized** 01 (Complet 01 Author) International Conferences ed) Journals Books (Co-Research Seminar/ Workshops Research authored) **Papers** Conferences **Organized Project** 0408 09 Published in Attended 32 (Ongoing Nil Other Journals Books Articles Sessions **Membership** Foreign (Edited) Published in Chaired in 01 of Academic/ **Countries**

Seminars/

Resource

Lectures

Delivered

Conferences

01

Popular For

Newspapers,

Magazines etc

a, e.g., Websites,

Blogs

14

Chapters in

Edited

Books

Nil

Professional

Bodies

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Visited

Academic

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Details of Publication / Academic Activities (2010 Onwards)

(a) Authorised Books/ Monographs

Name of Book	Year of Publication	Publisher	ISBN No.
Environmental Management	November 2022	P.K. Publishers & Distributors	978-93-92239-30-4
in Hostel		New Delhi	
Pollution, Health and	October 2022	AGPH, Bhopal	978-93-95468-39-8
Environment			
Solid Waste Management	September 2022	AGPH, Bhopal	978-93-95468-12-1
Processing and Disposal			
Environmental Management	March 2019	Kindle Direct Publishing	979-8-493-03684-2
		Washington United States	

(b) Edited Books

Year of	Title	Publisher	ISBN No.	DOI No.	Citations
Publication					
Nil	Nil	Nil	Nil	Nil	Nil

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

Year of	Title	Name of	ISBN No.	Citations	Impact
Publication		Journals			Factor
November 2023	Synthesis of Biodegradable Film Made from Sodium Alginate Embedded with Magnesium Nanoparticles	Theoretical Foundations of Chemical Engineering	DOI: 10.1134/S00405 79523050457	-	0.8
March 2023	Evaluating the effect of magnesium oxide nanoparticles on the thermal energy storage characteristics of the inorganic PCM	Materials Today Proceedings	DOI: <u>10.1016/j.</u> matpr.2023.02.2 <u>97</u>	11	3.2
February 2023	Synthesis of biodegradable carboxymethyl cellulose film-loaded magnesium nanoparticles	Emergent Materials	DOI: <u>10.1007/s</u> <u>42247-023-</u> <u>00473-4</u>	-	4.04
November 2022	Synthesis of magnesium oxide nanocomposite film made from sugarcane bagasse waste	Emergent Materials	DOI: <u>10.21203/</u> <u>rs.3.rs-</u> <u>2232994/v1</u>	-	4.04
August 2022	Influence of nanomaterial coated condensing surface on the productivity of evacuated tube assisted solar still	Materials Today Proceedings	DOI: 10.1016/j.matpr. 2022.07.285	01	3.2
May 2022	Sustainable manufacturing for turning of Inconel 718 using uncoated carbide inserts	Materials Today Proceedings	DOI: 10.1016/j.matpr. 2022.05.002	-	3.2

National	Intern ational	Book	Cha	apter	Addres s of		No		Google/ web of
Publica	tion	Title of the		of the	Name &	Year	ISBN	DOI	Citation
(d) Chapte		riction Characterist Published in Edite		Science Power Generat Technol	ion	Volume Issue 11 100023			
November 2021	Solar	omprehensive Revi	ransfer	Journal Nuclear	0.	Online IS 2325-980)9	-	0.155
2021	Hybri Recta	id Nano Fluid Ingular Duct	in a	Journal Comput Method Enginee Science Mechan	for rational s in cring s and	ISSN1550-225 ISSN 1550- 2287 (Print)		-	
December 2021 December	On Attrib Subri Ideal Hybri	Fundamental Algorities of $\omega - Q$ and an arrange of ω and a subring Thermal Performantal Nano Fluid angular Duct.	Fuzzy ng and nces of in a	Internat Journal Mechan Enginee	of ical cring	ISSSN: 0974- 5823 03.12.2021		01	0.903
January 2022	Grand Beam Using	inable Concrete (alated Blast-furnac a: Numerical Invest by Hybrid FRP and aniques	e Slag	Internat Journal Mechan Enginee	of ical	ISSSN: 0974- 5823 01.01.2022		-	2.1
February 2022	pinea husk	r absorption stud pple leaf fiber/nar powder reinforced x hybrid composite	no rice epoxy	Materia Proceed	ls Today ings	DOI: 10.1016/ 2022.01.		02	3.2
February 2022	aggre prope nanoc	nvestigation on syr gation, and mecharties of Al composites reinforcium carbide	hanical 6082	Materia Proceed	ls Today ings		DOI: 10.1016/j.matpr. 2022.01.406		3.2
February 2022	Mech Kevla Reinf	orced Epoxy Comp	r of Fibre posites	Journal Nanoma Hindaw	i	https://do 0.1155/2 02222	_	07	3.791
March 2022	reinfo	on the impact of orcements on the gth of adhesive join	fatigue	Materia Proceed	ls Today ings	DOI: 10.1016/ 2022.02.		02	3.2

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Science

Direct.

June

2023

Nil

(DOI):

10.1016/B

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Der Der Der Normalization New IGI January Nil DOI: 31		ence		Sub	algebra in					<u>.00040</u>	
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Management of Bioresources 2023										-	
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Dr. M. S. Karuna Two day All India "Environmental 17th Organized by The	Dr. M. S.	Karuna	· · · · · · · · · · · · · · · · · · ·								
Seminar on "Recycle Regulations for October Institution of Engineers			_	ele	_						
& Reuse of Waste Sustainable Growth" 2022 (India) at Rajshree			& Reuse of Waste		Sustainable	Growth"	2022		(In	dia) at Rajshı	ree

	Water"			Institute of Management & Technology, Bareilly.
				17th and 18th October 2022
Dr. M. S. Karuna	One-week NSS coordinators camp of affiliated colleges of MJP Rohilkhand University @ T&P Cell Building, MJPRU	"Municipal Solid Waste Management through NSS"	24.03.2021	NSS coordinators of affiliated colleges of MJP Rohilkhand University, at T&P Cell Building MJPRU
Dr. M. S. Karuna	By Mysuru Akashwani (AIR) FM 100.6MHZ in Yuva Vani career program between 8.00 pm and 8.30 on 27.02.2020	"Opportunities in the field of Chemical Engineering"	30.01.2020	Mysore Akashwani (AIR)
Dr. M. S. Karuna	FDP on "Green Chemistry"	"Green Chemistry for Cleaner Technology"	26.02.2020	Department of Chemical Engineering, Sponsored by TEQIP -3 (25th -29th February 2020)
Dr. M. S. Karuna	Broadcast by Bareilly Akashwani (AIR) in Yuva Vani career program between 9.30 pm and 9.40 pm	"Solid Waste Management and Environment"	30.05.2018	Bareilly Akashwani (AIR)
Dr. M. S. Karuna	Industry Institute Partnership Programme	Campus to Corporate	18.04.2018	Department of Chemical Engineering, Sponsored by TEQIP -2 (17th April - 20th April 2018)
Dr. M. S. Karuna	Broadcast by Bareilly Akashwani (AIR) in Yuva Vani career program between 8.00pm and 8.30 pm	Composting of Spent wash using Dry pith	30.03.2017	Department of Chemical Engineering, Sponsored by TEQIP-2 (27th -30th March 2017)
Dr. M. S. Karuna	NSS students' volunteers camp of MJP Rohilkhand University, Bareilly	"Youth leadership"	25.02.2017	MJP Rohilkhand University Campus NSS camp in Dohra village, Bareilly district
Dr. M. S. Karuna	FDP on "Municipal Solid Waste Management"	Incineration and Pyrolysis	09.12.2016	Department of Chemical Engineering, Sponsored by TEQIP-2 (07th -11th December 2016)
Dr. M. S. Karuna	FDP on "Municipal Solid Waste Management"	Ambient Air Quality Modelling	09.02.2016	Department of Chemical Engineering, Sponsored by TEQIP-2 (07th -11th December 2016)
Dr. M. S. Karuna	1st International Conference on Academic Research in Engineering,	"Environmental Management"	February 23rd, 2015	Department of Mechanical Engineering M.J.P Rohilkhand University, Bareilly.

Manageme	nt and	February 20-23, 2015
Information	n	
Technolog		

(f) Seminars/Conferences/Workshops Organized

- 1. "Green Chemistry" Faculty Development Program, sponsored by TEQIP-3 Ministry of HRD, Government of India, February 25-29, 2020, M.J. PRohilkhand University, Bareilly.
- 2. "Industry-Institute Program", sponsored by TEQIP-3 Ministry of HRD, Government of India, April 16-18, 2018, M.J. PRohilkhand University, Bareilly.
- 3. "Water Quality Monitoring, Network Design, Sampling, Analysis & Quality Assurance" Faculty Development Program, sponsored by TEQIP-2 Ministry of HRD, Government of India, March 27-31, 2017, M.J. PRohilkhand University, Bareilly.
- 4. "MunicipalSolidWasteManagement", FacultyDevelopmentProgram, sponsoredbyTEQIP-2 Ministry of HRD, Government of India, December 07-11, 2016, M.J.P RohilkhandUniversity, Bareilly.
- 5. "Ambient Air Quality and Stack Monitoring", Faculty Development Program, sponsoredby TEQIP-2 Ministry of HRD, Government of India, February 08-10, 2016, M.J.P RohilkhandUniversity, Bareilly.
- 6. **"Environmental Impact Assessment**", Faculty Development Program, sponsored by TEQIP-2 Ministry of HRD, Government of India, March 26-28, 2015, M.J.P Rohilkhand University, Bareilly.
- 7. "Personality Development-Soft Skills Development for Organizational & AcademicEffectiveness" sponsoredbyTEQIP-3MinistryofHRD,GovernmentofIndia,November30-December01,2013,M.J.PRohilkhandUniversity,Bareilly.
- 8. "PersonalityDevelopment" Workshop, April 21-December 07, 2005, M.J. PRohilkhand University, Bareilly.
- 9. "CommunicationClinic" Written"Workshop, May17-19,2005, M.J.PRohilkhandUiciBareilly.

(g) Projects (With Title, Year, Grants, Funding Agency and Collaborations)

Year	Name of Project	Funding Agency	Amount	Du	Duration	
	Traine of Frageer	1 unumg rigency		From	Till	
Aug.	A Green approach to prepare	Higher Education	3.35 Lakh	Communic		
2023	biodegradable film from office	Department,		ated. In		
	waste paper for food packaging	Government of		process.		
	applications	Uttar Pradesh				
1997	Recycling of Paper Waste in	AICTE	20 Lakh	20.11.199	20.11.2000	
	University Campus			7		

(h) Administrative Positions/Assignments Held

Post	Organization	Duration			
1 OSt	Organization	From	Till		
Head In Charge	Department of Chemical Engineering,	July 2008	Till Date		
	MJP Rohilkhand University, Bareilly				
Head	Department of Chemical Engineering,	November 2002	June 2008		
	MJP Rohilkhand University, Bareilly				
Superintendent	B.Tech End Semester Exams Odd	December 2019			
	Semester Final Year FET MJPRU				
Member Academic Council	MJP Rohilkhand University	2009	2014		
Member Academic Council	MJP Rohilkhand University	March 2010	February		

			2011
Chairman	B.Tech Program of Chemical Engineering	November 2002	June 2008
	B.O.S Department of Chemical		
	Engineering MJP Rohilkhand University		
	Bareilly		
Coordinator	B.Tech Program of Mechanical	July 2008	Till Date
	Engineering		
Member	B.O.S Department of Chemical	1997	2011
	Engineering MJP Rohilkhand University		
	Bareilly		
Engineering Section In	MJP Rohilkhand University	31.05.2017 and	Continuing
charge (Civil works		renewed on	
		22.06.2021	
Observer	MSc Entrance Exam. MJP Rohilkhand	22.09.2020	
	University		
Observer	MJP Rohilkhand University Degree	22.07.2009	
	examination, Hindu College, Moradabad		
Observer	B.Tech Entrance Examination, MJP	1998, 1999,	
	Rohilkhand University, Bareilly	2000, 2001,	
		2002, 2003	
Proctor	Department of Chemical Engineering,	2008	2009
	MJP Rohilkhand University Bareilly		
Proctor	Department of Mechanical Engineering,	2002	2005
	MJP Rohilkhand University Bareilly		
Building Committee	MJP Rohilkhand University Bareilly	December 1997	April 2002
Member		December 2007	December
			2013

(i) Seminar/Conference Presentations

- 1. **Dr MS Karuna** delivered expert talk on "**Pollution Related Laws**" at College of Technology GBPUAT Pantnagar, Uttarakhand on 27 September 2023, Context: Celebrating India's G20 Presidency organized from Sep 25 to 09 Oct 2023 by College of Technology GBPUAT Pantnagar, *Uttarakhand*.
- 2. Participated and presented paper on "Air Quality Index: An Assessment" in nationalconference on "Strategies for Management of Bioresources", organized by Department of Animal Science, MJP Rohilkhand University, Bareilly on March 26-27, 2023.
- 3. Participated in the two days round table national conference on "The Indian Renaissance: AATM-NIRBHAR Bharat Transforming India's Management Landscape" organized by Department of Business Administration and Rohilkhand Incubation Foundation, MJP Rohilkhand University, Bareilly on 26th & 27th March 2023.
- 4. Participated in paper presentation on "Development of agro-waste derived activated biocharalginate composite beads for defluorination process in batch and column system" in the 8thInternational Conference on "Advances in Chemical and Material Sciences (ACMS-2022)" organized by Indian Institute of Chemical Engineers, at Heritage Institute of Technology (HIT), Kolkata on14th and16thApril, 2022.
- 5. Participated in paper presentation on "Various techniques for wastewater treatment: A Review" in

- the 8thInternational Conference on "Advances in Chemical and Material Sciences (ACMS-2022)" organized by Indian Institute of Chemical Engineers, at Heritage Institute of Technology (HIT), Kolkata on 14th and 16thApril, 2022.
- 6. Participated in paper presentation on "Pressure Swing Adsorption (PSA) technology for oxygen plants and oxygen concentrators: A Review" in the 8thInternational Conference on "Advances in Chemical and Material Sciences (ACMS-2022)" organized by Indian Institute of Chemical Engineers, at Heritage Institute of Technology (HIT), Kolkataon14th and16th April,2022.
- 7. Participated in paper presentation on "Synthesis and application of agro-waste derived nanocellulose/PVA hybrid hydrogel for treatment of textile dye containing wastewater: Batch and Column study" in the 8thInternationalConference on "Advances in Chemical and Material Sciences (ACMS-2022)" organized by Indian Institute of Chemical Engineers, at Heritage Institute of Technology (HIT), Kolkata on14th and16th April, 2022.
- 8. Participated in paper presentation on "Development of Nano composite hydrogel film using extracted nanocellulose, PVA and their applications in dye removal process" through online mode in the 8th National Conference on "Sustainable Trends in Energy and Environment Resources (STEER2022)" Organized by ACE-IIChE student chapter, at Department of Chemical Engineering, SSN College of Engineering, Chennai on 11th and 12th March, 2022.
- 9. Participated in paper presentation on "Green Manufacturing: Benefits, Implementation and Challenges". International conference on Futuristic Advancement in Materials, Manufacturing and Thermal Sciences (ICFAMMT2022), January 20-22, 2022. Jointly organized by Department of Mechanical &Aero- space Engineering, IITRAM, Ahmedabad, Gujrat, India and Space Society of Mechanical Engineers (SSME), Space Applications Centre, ISRO, Ahmedabad.
- 10. Presented paper on "Heavy Metals in Vegetables" in the International Conference on "Academic Research in Engineering, Management and Information Technology", organized by Department of Mechanical and Department of Electronics & communication, M.J.P Rohilkhand University, Bareilly during February 17-19, 2018
- 11. Presented paper on "Air Pollution Equipment- a review" in the National Conference on "Advanced Engineering Materials", organized by Department of Mechanical Engineering, M.J.P Rohilkhand University Bareilly during February24-25,2016
- 12. Presented paper on "*Effluent Treatment in Pulp and Paper Industry*" in the National Conference on "Advanced Engineering Materials", organized by **Department of Mechanical Engineering,** M.J.P Rohilkhand University, Bareilly during February 24-25,2016
- 13. Presented paper on "Study on Processing Clay Nano Composite" in the National Conference on "Advanced Engineering Materials", organized by Department of Mechanical Engineering, M.J.P Rohilkhand University, Bareilly during February 24-25, 2016
- 14. Presented paper on "Advance Methods in Textile Waste Water Treatment An Overview" in the National Conference on "Advanced Engineering Materials", organized by Department of Mechanical Engineering, M.J.P Rohilkhand University, Bareilly during February 24-25,2016
- 15. Presented paper on "Polymeric composite materials in manufacturing of light weight Helicopters" in the international Conference on "Academic Research in Engineering, Management and Information Technology", organized by Department of Mechanical and Department of Electronics & Communication, M.J.P Rohilkhand University, Bareilly during February21-23,2015
- 16. Presented paper on "Newton-Raphson method for simulation of multiple-effect evaporator system" in the international Conference on "Academic Research in Engineering, Management and Information Technology", organized by Department of Mechanical and Department of Electronics & Communication, M.J.P Rohilkhand University, Bareilly during February21-23,2015
- 17. Presented paper on "Self-healing in polymers and polymer composites: A review" in the international Conference on "Academic Research in Engineering, Management and Information Technology", organized by Department of Mechanical and Department of Electronics &

- communication, M.J.P Rohilkhand University, Bareilly during February 21-23, 2015
- 18. Presented paper on "Alternative Fuel" in the National Conference on "Recent Engineering Trends in Energy, Environment & Ecology", organized by Rajshree Institute of Management & Technology, Bareilly duringSeptember27-28,2014
- 19. Presented paper on "Computer Aided Design (CAD), Computer Aided Manufacturing (CAM) and its typical application" in the National Conference on "Recent Engineering Trends in Energy, Environment & Ecology", organized by Rajshree Institute of Management & Technology, Bareilly during September 27-28, 2014.
- 20. Presented paper on "Solar Energy- The ultimate Renewable Resource" in the National Conference on "Recent Engineering Trends in Energy, Environment & Ecology", organized by Rajshree Institute of Management & Technology, Bareilly during September 27-28, 2014.
- 21. Presented paper on "A Review on Renewable Energy for Reducing Air Pollution" in the National Conference on "Recent Engineering Trends in Energy, Environment& Ecology", organized by Rajshree Institute of Management & Technology, Bareilly during September27-28,2014.
- 22. Presented paper on "Transition towards Green Economy-An improve Human Being and Social Equity" in the National Seminar on "Climate Change, Environment and Economic Development", organized by Department of Humanities, M.J.P Rohilkhand University, Bareilly during February 7-8,2014.
- 23. Presented poster on "Biodiesel from waste frying oil" in the International Conference on "Recent Trends in Material Science", organized by Department of Applied Physics MJP Rohilkhand University, Bareilly during November 21,2013.
- 24. Presented paper on "A review treatment technologies for petroleum refinery waste" in the international conference on "Sustainable Innovative Techniques in Civil and Environmental Engineering, organized by Krishi Sanskriti, New Delhi during June 5th-6th, 2013
- 25. Presented paper on "A review on alternatives to conventional fuels" in the international conference on "Sustainable Innovative Techniques in Civil and Environmental Engineering", organized by Krishi Sanskriti, New Delhi duringJune5th-6th, 2013
- 26. Presented paper on "Biodiesel as a Renewable Source of Energy" in the All India Seminar on "Pollution Prevention Through Development of Bio Based Material and Energy", organized by Department of Chemical Engineering, Malaviya National Institute of Technology, Jaipur during February 22-23, 2013
- 27. Presented paper on "Bio Ethanol as a Renewable Source of Energy" in the All India Seminar on "Pollution Prevention Through Development of Bio Based Material and Energy", organized by Department of Chemical Engineering, Malaviya National Institute of Technology, Jaipur during February22-23,2013
- 28. Presented paper on "Software Applications making Chemical Engineer's Jobs Efficient and Effective" in the National Seminar on "Software Applications in Engineering and Technology", organized by Department of Mechanical Engineering, M.J.P Rohilkhand University, Bareilly during February 12,2012.
- 29. Presented paper on "Fuel Cell- A perfect solution to the Global warming" in the National Seminar on "Advancements and Futuristic Trends in Material Science", organized by Department of Applied Science, M.J.P Rohilkhand University, Bareilly during March26-27,2011.
- 30. Presented paper on "Environmental Acts" in the National Seminar on "Management of Environmental Pollution for Sustainable Energy Production", organized by Department of Plant Science, M.J.P Rohilkhand University, Bareilly during April10-11, 2010.
- 31. Presented paper on "Hazardous Waste Management" in the National Seminar on "Management of Environmental Pollution for Sustainable Energy Production" organized by Department of Plant Science, M.J.P Rohilkhand University, Bareilly during April10-11,2010. Presented paper on "SHE

management system -the twenty first century Environmental Management" in the National Seminar on "Management of Environmental Pollution for Sustainable Energy Production", organized by the Department of Plant Science, M.J.P Rohilkhand University, Bareilly during April10-11, 2010.

- 32. Presented paper on "SHE management system the twenty first century Environmental management" in the national seminar on "Management of Environmental Pollution for Sustainable Energy Production", organized by Department of Plant Science, M.J.P Rohilkhand University, Bareilly during April10-11, 2010.
- 33. Presented paper on "The Future Scenario of Refrigeration & Air Conditioning Industry" in the "National Conference on Recent Advance in Mechanical and Production Engineering", organized by Department of Mechanical Engineering, G.B. Panth University of Agriculture & Technology, Panthnagar during February 12-14, 2009.
- 34. Presented paperon"*Role of Civil Engineering Conservation of Soil*" in the "1st National Symposiumon Earthworm Ecology & Environment", organized by Department of Animal Science, M.J.PRohilkhand University, Bareilly during April 26-28,2007.

(j) Membership of Academic/Professional Bodies

- 1. Indian Society for Technical Education (ISTE)
- 2. Environmental Audit

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

1. External expert for selection of Scientific Assistant, Technical Assistant, Field man posts of Uttar Pradesh Pollution Control Board under national air monitoring program. (2009 & 2010)

(l) International Academic Exposure

NIL
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- 1,

(m) Any Other Details

Patent: 02

- 1. Dr. M.S. Karuna et al., "Estimation of catchment-scale soil moisture from topography". (INDIA, Published/Granted) Patent Application No. 202321039430 A. The Patent Office Journal No. 34/2023 Dated 25/08/2023 Page No. 153
- 2. Dr. M.S. Karuna et al., "Neural Network for ECG Anomaly Detection in IoT Environment," (INDIA, Published/Granted on 30/12/2022) Patent Application No. 202241072720.

Papers Published in NON-UGC Care Listed /Indexed/ Peer Reviewed Journals

- 1. Dr. M.S. Karuna et al AIR QUALITY INDEX, VENTILATION COEFFICIENT AND POLLUTION POTENTIAL STUDIES OVER BAREILLY CITY, UTTAR PRADESH, International Journal of Current Research, DOI: 10.13140/RG.2.2.33949.82404, Online ISSN: 0975-833X, January 2018, Citation-04
- 2. Dr. M.S. Karuna et al Ambient Air Quality Monitoring And Prediction of Air Pollutants Using ISCST3 And CALINE4 Dispersion Models For Vehicular Emissions At Bareilly, Uttar Pradesh, India, IOSR Journal of Environmental Science, Toxicology and Food Technology (IOSR-JESTFT), e-ISSN: 2319-2402, p- ISSN: 2319-2399, **December 2017**

- 3. Dr. M.S. Karuna et al Seasonal Variations of LeadAccumulation in the Spinacea OleraceaLinn. During 2014-2017, DesignEngineering, ISSN:0011-9342, Year 2021 Issue:7 | Pages: 15655-15666, October 2021.
- 4. Dr. M.S. Karuna et al Identification and Prioritization ofProperties for Composite MaterialsUsage in Automobiles: An AnalyticalHierarchicalProcess(AHP) Approach, DesignEngineering, ISSN:0011-9342, Vol2021Issue 7|, Pages:12751-12764, August2021
- 5. Dr. M.S. Karuna et al "Effect of Air Pollution on Environment, Vegetation & Human Health", Journal of Civil Engineering and Environmental Technology, p- ISSN: 2349-8404; e-ISSN: 2349-879X: Volume 4, Issue 6: October December, 2017,

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