

Profile Page

Name : Disha Dewangan
Designation : Assistant Professor
Department : Industrial and Production Engineering
Qualification : **M.Tech.** Energy System & Pollution (NIT, Raipur)
B.E. Mechanical Engineering, (Government Engineering College, Pt. RRSU, Raipur, Chhattisgarh)
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Research Interests:

Hybrid power system, Solar, Wind Energy, Solar Dryers, Solar Photo Voltaic systems, Biogas.

Other Profile Links:

Google Scholar Link: Disha Dewangan [Click here](#)

Journal Publications:

Year	Journal	Publication
2022	International Journal of Ambient Energy (2.3), 07 Apr 2022. 1-60. https://doi.org/10.1080/01430750.2022.2063386 .	Disha Dewangan, Jasinta Poonam Ekka, TV Arjunan. Solar Photovoltaic Thermal System: A Comprehensive Review on Recent Design and Development, Applications and Future Prospects in Research.
2021	Environment Science and Pollution Research (4.2). Under review.	Jasinta Poonam Ekka, Disha Dewangan, TV Arjunan. A Comprehensive Review on Recent Developments and Future Aspects of a Heat Pipe Assisted Solar Collectors.
2018	International Journal of Technical Innovation in Modern Engineering & Science (IJTIMES) (3.45) Volume 4, Issue 5.	Disha Dewangan. Computational Fluid Dynamic Analysis of Centrifugal Pump.
2018	International Journal of Technical Innovation in Modern Engineering & Science (IJTIMES) (3.45).	Disha Dewangan. Computational Analysis of a UAV and Developing an Improved Design to Enhance its Performance by Reducing Drag Force

Conference Publications:

Year	Conference	Publication
2021	Proceedings of the 26th National and 4th International ISHMT-ASTFE Heat and Mass Transfer Conference,	Disha Dewangan, Jasinta Poonam Ekka, Hybrid Power System: A Clean Renewable Energy Resource for the Development of Rural Areas in India.

	December 17-20, 2021, IIT Madras, Chennai-600036, Tamil Nadu, India.	
2021	International Conference on Energy and Environment, (ICEE-2021), April 9-10, 2021	Disha Dewangan, Prof. T.V. Arjunan, Jasinta Poonam Ekka, "Performance Enhancement Study of Solar PVT Collector – A Comprehensive Review".
2019	National Conference on Advancements in Materials, Design & Manufacturing Methods (AMDMM 2019), 29-30 th March 2019.	Disha Dewangan, Rajesh Kumar Bhushan, "Energy Recovery from Vehicle Suspension System".
2014	Proceedings of the Applied Mechanics and Materials 592, 2336-2340. International Mechanical Engineering Congress - 2014 (IMEC-2014), 13-15 th June,	Disha Dewangan, SL Sinha, JP Ekka, "Biogas Power System: A Step towards Utilization of Clean Renewable Energy Resource for Providing Optimum Energy Needs of Rural Areas in India".
2011	International Conference on Advances in Energy Research, 9-11 th , Dec 2011	Disha Dewangan, SL Sinha, "Hybrid Power System: A Step Towards Utilization of Clean Renewable Energy Resource for the Development of Rural Areas in India."
2011	International Conference on Advances in New & Renewable Energy Sources, 14-15 th , May 2011	Disha Dewangan, SL Sinha, "Hybrid Power system: A Clean and Renewable Energy Source in Rural India".
2011	Global Warming: Problems & Solutions NACGLOW-2011, 16-17 th , Mar. 2011	Disha Dewangan, SL Sinha, "Hybrid Power system: A Measure to reduce Global warming".
2011	Technologia-2011, 10-11 th , Mar. 2011	Disha Dewangan, SL Sinha, "Hybrid Power system".
2011	Recent Advances in Mechanical Engineering (NCRAIME-2011), 28-29 th , Jan. 2011	Disha Dewangan, SL Sinha, "Electrification of Un-electrified Remote Village by Hybrid Bio-Solar Power Plant for Providing Minimum Energy Needs".

Book/Chapter Publications:

Type	Title	Publisher	Author	ISBN/ISSN No. Year	Year

Research Projects:

Role	Project Type	Title	Funding Agency	From	To	Amount	Status	Co-Investigator
Co-PI	Sponsored	To create awareness among school students especially rural and backward community on POCSO Act and Child Rights.	DST	Submitted on 10/09/2021	-	52.07 Lacs	Under Review	Prof. T.V. Arjunan (Co-PI)
Co-PI	Sponsored	Enhancing the Socio-Economic Status and Sustainable livelihood of Tribal	DST-SEED	Submitted on 30/10/2020	-	39.64 Lacs	Under Re-revision	-

		Community of Bastar, by the use of processing unit for Minor Forest Product (Chironji Kernels)						
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Events Organized:

Category	Type	Title	Venue	From	To	Designation
Webinar	One Day Webinar	Funding Opportunities for Research Innovation and Technology transfer	GGV Bilaspur	11-March 2022	11-March 2022	Coordinator
Webinar	One Day Orientation Session	Effective Utilization of Web of Science	GGV Bilaspur	7-Aug. 2021	7-Aug. 2021	Coordinator
Workshop	One day National Workshop	Emerging trend in the research areas & opportunities in Science and Technology.	GGV Bilaspur	31-July 2021	31-July 2021	Coordinator
Workshop	One day National Workshop	Intellectual Property Rights	GGV Bilaspur	28-Nov. 2020	28-Nov. 2020	Coordinator

Professional Affiliations:

Designation	Organization

PhD Supervised:

Scholar Name	Research Topic	Status	Year	Co-Supervisor

PG Dissertation Guided:

Student Name	Dissertation Title	Status	Year	Co-Supervisor
Saurabh Dhiwar	Detection of Isomorphism in Planar Kinematic Chains	Completed	2014	Prof. S. Sanyal, NIT, Raipur

Patents:

Name	Reg. No./Ref. No.	Date of Award/Filing	Organization	Status

Admin. Responsibilities:

Position Held	Organization	From	To

Award and Honors:

YEAR	ACTIVITY
2011	Won Best Paper award in Aurora – A technical paper presentation competition organized by OP Jindal Institute of Engineering & Technology, Raigarh from 24-26 th , Feb., 2011