


STANDARD TEMPLATE OF FACULTY PROFILE FOR UPLOADING OF UNIVERSITY WEBSITE

Title	DR.	First Name	RAJENDRA KUMAR	Last Name	ARYA	
Designation		Assistant Professor				
School /Dept. Name		USAR				
Address:		T4/B8 GGSIP University-East Campus, Surajmal Vihar, Delhi				
Phone No.	Office	GGSIP University-East Campus, Surajmal Vihar, Delhi				
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Email	1. rajendra.usar@ipu.ac.in			2. rarya@me.iitr.ac.in		
Web Page (if any)	https://www.linkedin.com/in/dr-rajendra-arya-phd-a46b2137/					
Subjects Taught	Engineering graphics, Mechatronics, Material Science, Manufacturing science, Strength of Material, Manufacturing Technology, Non-conventional manufacturing					
Areas of Interest/ Specialization	Intelligent Manufacturing, Additive Manufacturing, Mechatronics (automation and control), Product Design and Development					
Experience (in years)	Total	6 Years				
	Industry	0				
	Teaching	4				
	Research	2				
Educational Qualifications	UG	B-Tech (Industrial and Production Engineering)				
	PG	M-Tech (Mechanical Engineering)				
	Doctorate	PhD (Intelligent Manufacturing)				
	Any other – Diploma in IPR	-				
Research Publications in Journals (last 5 years)	<ul style="list-style-type: none"> • Rajendra Kumar Arya and Akshay Dvivedi. "Improving the electrochemical discharge machining (ECDM) process for deep-micro-hole drilling on glass by application of the electrolyte-air injection." Ceramics International, (In-Press) • Rajendra Kumar Arya and Akshay Dvivedi. "Investigations on quantification and replenishment of vaporized electrolyte during deep micro-holes drilling using pressurized flow-ECDM process." Journal of Materials Processing Technology, 266 (2019) 217-229. 					

	<ul style="list-style-type: none"> • Rajendra Kumar Arya, Shivangi Paliwal, Akshay Dvivedi and Maran R., "Investigation on deposition of the machined by-products and its reduction during electrochemical discharge machining (ECDM)." Journal of The Electrochemical Society, 169 (2022) 023506. • Tarlochan Singh, Akshay Dvivedi and Rajendra Kumar Arya. "Fabrication of micro-slits using W-ECDM process with textured wire surface: An experimental investigation on kerf overcut reduction and straightness improvement." Precision Engineering, 59 (2019) 211-223. • Tarlochan Singh, Rajendra Kumar Arya and Akshay Dvivedi. "Experimental investigations into Rotary Mode Electrochemical Discharge Drilling (RM-ECDD) of Metal Matrix Composites." Machining Science and Technology, 24 (2) (2019) 195-226. • Navin Kumar Jha, Sandeep Kumarb, Rajendra Kumar Arya, Akshay Dvivedi, & Shivanna Rajesha "Performance evaluation and multi-response hybrid optimization of grinding assisted rotary disk ECDM during cutting of Al-6063 SiCp MMC." Indian Journal of Engineering & Materials Sciences, 29 (2022) 445-458. 			
Papers Published in Conference Proceedings(last 5 years)	<ul style="list-style-type: none"> • Rajendra Kumar Arya and Akshay Dvivedi. "Thermal Loading Effect During Machining of Borosilicate Glass Using ECDM Process." IOP Conference Series: Materials Science and Engineering. Vol. 647. No. 1. IOP Publishing, 2019. • Rajendra Kumar Arya and Akshay Dvivedi. "ANFIS for Modelling of Aspect Ratio in drilling of glass using Pressurized Flow Electrochemical Discharge Machining Process". Proceedings of the International Conference on Precision, Meso, Micro& Nano Engineering (COPEN-11) held at IIT, Indore. • Rajendra Kumar Arya, B. A. Naidu and Akshay Dvivedi. "Investigation of exerted load on work material during the ECDM process for development of adaptive tool feeding system". International Conference on Industrial and Manufacturing Systems (CIMS - 2020) held at Dr B R Ambedkar National Institute of Technology Jalandhar, Punjab, INDIA. 			
Books Authored/ BookVolume Chapters	<ul style="list-style-type: none"> • Rajendra Kumar Arya and Akshay Dvivedi. "Enhancement in Machining Efficiency and Accuracy of ECDM Process Using Hollow Tool Electrode." Advances in Unconventional Machining and Composites. Springer, Singapore, 2020. 313-323. (Book chapter) • Rajendra Kumar Arya, Ratnesh Bafna, Ujwal Pawar and Prasanna Gandhi. "Mechatronics and algorithms for analysis and control of the laser beam spot size for 3D-microprinting machine". 5th International Conference on Machines and Mechanisms (iNaCoMM 2021) held at IIITDM Jabalpur, India 			
No. of Conferences	National	Attended	Organized	
		0	1	
	International	4	0	
Research Guidance	Awarded	PG	M. Phil	Doctorate
		0	0	0
	Undergoing	0	0	0
Research Projects	Completed	2		
	Undergoing	0		
Awards & Distinctions	Editors' Choice Article award from Precision Engineering Journal (ELSEVIER)			
Administrative Assignments Handled	<ul style="list-style-type: none"> • T&P Officer • Member of Result Preparation Cell • Diploma Program Coordinator • Member of Examination Cell 			

Association with Professional Bodies	NA
Any other Achievements	<p>Training Certificates:</p> <ul style="list-style-type: none"> • Line Side Improvement in Transmission and VTU assembly • Mahindra & Mahindra Ltd., Rudrapur, Uttarakhand, (16-07-2009 to 14-08-2009). • Finish Machining: A Stat-of-the-Art • Indian Institute of Technology, Rookee, (02-09-2013 to 06-09-2013). • Manufacturing: Hindsight to Foresight • AICTE Training and Learning (ATAL) Academy, (16-07-2021 to 20-07-2021). • Operation & use of CNC Lathe & Milling Machine • Electronic Service & Training Centre, Ramnagar, Uttarakhand, (08-06-2009 to 20-06-2009). • Satellite Communication & Networking in ONGC • Oil and Natural Gas Corporation Limited, (14-06-2006 to 13-07-2006).