

Curriculum Vitae

Dr. Anand Kumar				
Address:				
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Career Objective:				
Willing to work as a key player in challenging & creative environment with committed & dedicated people, which will help me to explore myself fully and utilize my potential.				
Educational Qualifications:				
Degree	Year	Board / University	Specialization	Remarks
Ph.D.	2023	NIT Patna	Mechanical Engineering	Awarded
M.Tech	2013	IIT BHU	Metallurgical Engineering	First class
B.E	2009	Shivaji University Kolhapur (Maharashtra)	Mechanical Engineering	First class
Professional Experience:				
Organization			Duration	Remarks
[1] Nalanda College of Engineering, Chandi, Nalanda, Bihar (AKTU), (Under Government of Bihar)			05-09-2013 to 20-08-2016	Excellent rating
[2] Columbia Institute of Engineering and Technology, Raipur			16-08-2023 to 11-06-2025	
Research Title:				
B.E	Design and Manufacturing of Peristaltic Pump.			
M.Tech	Centrifugal casting of A356 Alloys and its microstructure and wear behavior.			
Ph.D.	Characterization of clad layer developed on Aluminium alloy using T.I.G heat source.			
Area Of Specialization:				
	Welding Technology		Composite materials	
	Mechanical behavior of materials		Surface Coating	
	Materials Characterizations		Additive Manufacturing	
	Modern Manufacturing Process			
Courses Taught:				
	Engineering Graphics		Machine Design	
	Material Science		Thermodynamics	
	Manufacturing Process		Fluid Mechanics, etc.	
	Strength of Material			
List of Publication:				
[1]Anand Kumar,and Anil Kumar Das 2022,“Development of Al-Ni-TiC composite coating on commercially pure Al usingTungsten inert gas welding route and its wear behavior”. Journal of Materials Engineering and Performance (SCI Indexed,Q2,IF1.8192022, https://doi.org/10.1007/s11665-022-06662-2).				
[2]Anand Kumar, Anil Kumar Das 2022,“Tribological behaviour of Al-Ni-TiB ₂ composite coating on AA1100 Al-alloy prepared using TIG torch welding route”. Transactions of Indian Institute of Metals, (SCI, Q2, IF 1.499). - 2022, https://doi.org/10.1007/s12666-021-02509-x .				
[3]Anand Kumar, and Anil Kumar Das 2022,“Fabrication of Al-Ni-Al ₂ O ₃ metal matrix composite coating on AA1100 wrought aluminium alloy by Gas Tungsten Arc (GTA) coating technique”. Engineering Research Express (ESC IIndexed, Q3, IF 1.205) August 2022 https://doi.org/10.1088/2631-8695/ac8b64 .				
[4]“Effect of B ₄ C content on the microstructure and wear response of Al-Ni-B ₄ C coating using the TIG coating route”. (under review, Dec. 2025).				
[5]“Fabrication of Al-Ni-TiB ₂ composite coating on AA6061 Aluminum alloy using T.I.G cladding route”. (under review, March 2026).				
[6]“An Investigation on the Microstructure and Wear Properties of WC Reinforced metal matrix composite AA1100 Aluminium Alloy Produced by T.I.G. cladding route” (under review, Jan 2026)				
[7]“Investigation on micro structural characterization of Si-Fe metal matrix composite on aluminium by G.T.A cladding.” (under review).				

[8]“Fabrication of SiC Reinforced Fe composite layer on AA1100 aluminium substrate by T.I.G.arcroute”. (under review).		
List of patent:		
[1] Design To Hand Operated Double Acting Grater (Design No. 438777-001)		
[2] Shoulder Lifting Equipment For Construction Material (Design No. 437998-001)		
Workshops And Conferences Attended:		
[1] Attended two-week workshop “ ISTE Workshop on Fluid Mechanics ” under the National Mission on Education through ICT (MHRD) , conducted by IIT Kharagpur , India, May 20-30, 2014.		
[2] Attended Conference cum“ Workshop on Electron Microscopy-2012 ”organized by Department of Metallurgical Engineering Indian Institute of Technology (BHU)Varanasi , India in December 6-8, 2012.		
Skills:		
Platform Known	Windows XP	
Software Languages	SOLIDWORKS	FEBINO
	PREPOMAX	ABACUS
	HIGHSCORE PLUS	CAD & CAM
Tools Used	Origin	
	JCPDS (Joint Committee on Powder Diffraction Standards)	
Machines Operated	Centrifugal Casting Machine	TIG Welding
	Wear Testing	UTM(Universal Testing Machine)
	Micro hardness Testing,	Optical Microscopy
	Plasma Arc Welding Machine	Polishing Machining
	Centre Lathe	CNC Machine
Achievements:		
	Qualified Graduate Aptitude Test in Engineering (GATE) in 2011, 2012,2013&2014 in paper Mechanical Engineering.	
	Worked as Centre Superintendent in End Semester Examinations conducted by AKTU (Patna) at ‘Nalanda College of Engineering Chandi in December 2014.	
	Qualified BPSC assistant professor (Prelims) in 2016	
	Qualified BPSC(Prelims) in 2014.	
	Qualified BPSC & JPSC (Prelims) in 2015.	
Extracurricular Activities:		
	Member of quality improvement committee of all the hostels of IIT (BHU).	
	Class Representative during Bachelor of Technology Course.	
	Participated in different play sand quizzes during the school days.	
	Active participation and significant contribution in institute level cultural and technical festivals.	
References:		
[1] Dr. Vikash Kumar. Assistant professor, MNIT Bhopal, Email: vikashism2012@gmail.com , Mobile No: 9905690168		
[2] Dr. Vinay Kumar Soni. Assistant Professor, CIET Raipur Email: vinaysoni2011@gmail.com , Mobile No: 9584747738		
Language Proficiency:	Hindi, English	
Marital status:	Married	
I hereby declare that the information given above is true to the best of my knowledge and belief.		
Date.....	Dr. Anand Kumar	