

# National Institute of Technology, Tiruchirappalli:

## Performa for CV of Faculty/ Staff Members

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### Curriculum Vitae

#### **Brief Profile: 1-2 paragraphs (not exceeding 500 words)**

Dr. Vineet Kumar Yadav is working in the Department of Production Engineering, National Institute of Technology Tiruchirappalli (NITT), as an Assistant Professor. He obtained a Ph.D. from the Department of Mechanical and Industrial Engineering, IIT Roorkee, and an M.Tech. in Production Engineering from the Department of Mechanical Engineering, MNNIT Allahabad. He obtained B.Tech in Mechanical Engineering with honors from Uttar Pradesh Technical University. Dr. Vineet Kumar Yadav has research interests in the broad area of Advanced Manufacturing Processes. He also served in the Department of Mechanical Engineering, National Institute of Technology Allahabad, Prayagraj, as a Guest Faculty from July 2015-December 2015.



Dr. Yadav has taught a broad spectrum of courses related to Production Engineering and Industrial Engineering. He has published research papers in International Journals, Book Chapters, and International and National Conferences. Dr. Yadav is a reviewer of reputed journals such as the Journal of Cleaner Production, Materials and Manufacturing Processes, Journal of Nanoparticle Research, Materials Research Express, Engineering Research Express, Advanced Powder Technology, Fusion Engineering and Design, Journal of the Brazilian Society of Mechanical Sciences and Engineering, Journal of Materials Engineering and Performance, International Journal of Sustainable Engineering, Physica Scripta, Petroleum Science and Technology, Journal of Physics D: Applied Physics, Sādhanā, etc. He delivered expert talks/keynote addresses in reputed engineering colleges and societies across India. Dr. Yadav also handled technical sessions and served as a member of the Technical Advisory Committee in International Conferences organized by NITs and IITs.

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|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Name:                            | Dr. Vineet Kumar Yadav                                                                                                                                                 |
| 2. Designation:                     | Assistant Professor Grade II                                                                                                                                           |
| 3. Office Address:                  | OJAS Building, Room No.- 118, NIT<br>Tiruchirappalli.                                                                                                                  |
| 4. Telephone (Direct) (Optional):   |                                                                                                                                                                        |
| Telephone :                         | Extn                                                                                                                                                                   |
| (Optional):                         |                                                                                                                                                                        |
| Mobile (Optional):                  | +91-9456049198                                                                                                                                                         |
| 5. Email (Primary): vineet@nitt.edu | Email (Secondary): vineet437@gmail.com                                                                                                                                 |
| 6. Field(s) of Specialization:      | Advanced Manufacturing Processes, Hybrid<br>Machining Processes, Micro-Machining,<br>Electrical Discharge Machining, Laser<br>Beam Machining, Laser Surface Treatment, |

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3D Printing

Industrial Engineering: Smart  
Manufacturing, Sustainable Manufacturing,  
Industry 4.0, Supply Chain Sustainability

## 7. Employment Profile

Job Title	Employer	From	To
Assistant Professor	National Institute of Technology Tiruchirappalli, Tiruchirappalli-620015, Tamil Nadu, India.	May-2020	Till Date
Guest Faculty	Motilal Nehru National Institute of Technology (MNNIT), Allahabad, Prayagraj, Uttar Pradesh, India.	July-2015	Dec-2015

## 8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D.	Indian Institute of Technology, Roorkee, India	2019	--	Advanced Machining
M.Tech.	Motilal Nehru National Institute of Technology Allahabad, Payagraj India	2015	First with Distinction	Production Engineering
B.Tech.	Uttar Pradesh Technical University, Lucknow, India	2013	First with Distinction	Mechanical Engineering
Intermediate	Board of High School and Intermediate Education Uttar Pradesh, Allahabad, India	2008	First	Science (Mathematics)
High School	Board of High School and Intermediate Education Uttar Pradesh, Allahabad, India	2006	First	Science

## 9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
Staff Advisor and PAC Chairman	Production Engineering, B.Tech.	Aug-2022	Till Date
Member, Data collection and coordination for preparing the format for Best Department Award 2020 & 2021	Production Engineering	March 2021	Till Date
Member, NBA Committee	Production Engineering	March 2021	Till Date
Member, Seating and Logistics	Institute Convocation Committee	July 2022	Aug 2022

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Committee		
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### 10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
Doctoral Committee Member	SRM Institute of Science & Technology, Modinagar	2021	Till Date
Ph.D. Examiner	Osmania University, Hyderabad	2022	2022
Paper-Setter	Anna University, Chennai	2020	Till Date
Paper-Setter	GHRIET, Nagpur	2021	Till Date
Paper-Setter	Bikaner Technical University, Rajasthan	2021	Till Date

### 11. Awards, Associateships, etc.

Year of Award	Name of the Award	Awarding Organization

### 12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)
2013	Graduate Aptitude Test Engineering (GATE) Fellowship	Ministry of Human Resource & Development, Govt. of India	July-2013	July-2015
2015	Research Fellowship	Ministry of Human Resource & Development, Govt. of India	Dec-2015	Sept-2019

### 13. Details of Academic Work

- (i) Curriculum Development
- (ii) Courses taught at Postgraduate and Undergraduate levels

#### 1. Course taught at PG Level (M.Tech):

- Production Planning and Control (NIT Allahabad, Prayagraj)

#### 1. Course taught at UG Level (B.Tech):

- Forming and Machining Technology
- CNC Systems
- Manufacturing Technology
- Analysis of Production System
- Quality Engineering

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- Engineering Graphics
- Operations Management
- 2. Laboratory UG level (B.Tech):
  - Manufacturing Processes
  - Engineering Practice
  - Advanced Manufacturing and Machine Tools Processes Laboratory (NIT Allahabad, Prayagraj)
  - Computational Laboratory (NIT Allahabad, Prayagraj)

(iii) Projects guided at Postgraduate level: 03 completed, 02 Ongoing

(iv) Other contribution(s)

## **Reviewer International Journals**

- Journal of Cleaner Production (Elsevier)
- Materials and Manufacturing Processes (Taylor & Francis)
- Journal of Nanoparticle Research (Springer)
- Materials Research Express (IOPscience)
- Engineering Research Express (IOPscience)
- Advanced Powder Technology (Elsevier)
- Journal of the Brazilian Society of Mechanical Sciences and Engineering (Springer)
- International Journal of Six Sigma and Competitive Advantage (Inderscience Publishers)
- Fusion Engineering and Design (Elsevier)
- Journal of Materials Engineering and Performance (Springer)
- International Journal of Sustainable Engineering (Taylor & Francis)
- Physica Scripta (IOPscience)
- Petroleum Science and Technology (Taylor & Francis)
- Sādhanā (Springer)
- Advances in Materials & Processing Technologies (Taylor & Francis)
- Advances in Materials Science and Engineering (Hindawi)
- Surface Review and Letters (World Scientific)
- Archives of Metallurgy and Materials (PAS Journals)
- Journal of Physics D: Applied Physics (IOPscience)

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14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed

15. Number of PhDs guided

Name of the PhD Scholar	Title of Ph.D. Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award

16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

Date (s)	Title of Activity	Level of Event (International / National/ Local)	Role (Participant/ Speaker/ Chairperson , Paper presenter, Any other)	Event Organized by	Venue
July 01-05, 2014	CAD/CAM and Advance machining 2014	National	Participant	Motilal Nehru National Institute of Technology Allahabad, Prayagraj, India	Prayagraj, India
December 17-18, 2014	<i>Fatigue and Fracture of Engineering Materials and structures</i>	National	Participant	Motilal Nehru National Institute of Technology Allahabad, Prayagraj, India	Prayagraj, India
June 1, 2020	<i>Smart Manufacturing</i>	National	Participant	Shri G. S. Institute of Technology and Science, Indore, India	Online
Aug 10-14, 2020	E-Content Development	Local	Participant	National Institute of Technology Tiruchirappalli	Online

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				, India	
August 26-27, 2020	<i>National Conference on Research and Development of Materials Processing, Modelling and Characterization 2020 (RDMPMC20)</i>	National	Session Chair	Department of Metallurgical and Materials Engineering and Department of Production and Industrial Engineering, National Institute of Technology Jamshedpur, Jamshedpur, India	Jamshedpur, India
October 30 - November 01, 2020.	<i>International Conference on Energy, Materials Sciences and Mechanical Engineering (EMSME 2020)</i>	International	Session Chair	National Institute of Technology Delhi, Delhi, India	Delhi, India
November 05-06, 2020	<i>International Conference on Advances in Materials Processing &amp; Manufacturing Applications (ICADMA 2020)</i>	International	Session Chair	Malaviya National Institute of Technology (MNIT) Jaipur, India in collaboration with TU WIEN, Austria and NIT Uttarakhand, India	Jaipur, India
December 07-18, 2020	<i>Quality Management &amp; Business Process Reengineering</i>	National	Participant	Department of Mechanical and Industrial Engineering, Indian Institute of Technology Roorkee, India	Online
April 12-13, 2021	<i>International Conference on Latest Trends in Civil, Mechanical and Electrical Engineering</i>	International	Session Chair	Department of Mechanical, Civil and Electrical Engineering,	Bhopal, India

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	<i>(LTCMEE - 2021)</i>			(MANIT), Bhopal, India and RTU Kota, Rajasthan, India	
July 24-25, 2021	<i>International Conference on Advanced Manufacturing and Materials Processing CAMMP-2021</i>	International	Session Chair	Malaviya National Institute of Technology (MNIT) Jaipur, India	Jaipur, India
August 05-07, 2021	<i>Progressive Research in Industrial &amp; Mechanical Engineering (PRIME - 2021)</i>	International	Session Chair	National Institute of Technology Patna, Patna, India	Patna, India
August 25-27, 2022	<i>International Conference on Recent Advances in Mechanical Engineering (ICRAM- 2022)</i>	International	Session Chair	Indian Institute of Technology Jodhpur, Jodhpur, India	Jodhpur, India
May 6- 7, 2022	<i>International Conference on Advancements in Interdisciplinary Research (AIR-2022)</i>	International	Member of Technical Programme Committee	Motilal Nehru National Institute of Technology Allahabad, Prayagraj, India	
July 24-25, 2021	<i>International Conference on Advanced Manufacturing and Materials Processing CAMMP-2021</i>	International	Member of Technical Advisory Committee	Malaviya National Institute of Technology (MNIT) Jaipur, India	Jaipur, India
August 05-07, 2021	<i>Progressive Research in Industrial &amp; Mechanical Engineering (PRIME - 2021)</i>	International	Member of Technical Advisory Committee	National Institute of Technology Patna, Patna, India	Patna, India

17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/  
Organizing Secretary/ Convenor / Co-Convenor)

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
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18. Invited Talks delivered

Topic	Date/Event Date	Inviting Organization
<i>Advances in Electrical Discharge Machining (EDM) Process</i>	August 03-07, 2020	National Institute of Technology Patna, Patna, India
<i>Electrical Discharge Machining (EDM) Process</i>	September 12-13, 2020	Katihar Engineering College, Katihar, India
<i>Conduction with Internal heat Generation for plane wall and Cylinder</i>	July 31, 2020.	G. H. Rasoni Academy of Engineering & Technology, Nagpur India
<i>Introduction to Advanced Manufacturing Processes</i>	October 24, 2020	G. H. Rasoni Institute of Engineering and Technology (Poly), Nagpur India
<i>Electrical Discharge Machining Process: Basics and Process Variants</i>	November 16-22, 2020	RMK College of Engineering and Technology, Tamil Nadu India
<i>Dry and Near-dry Electrical Discharge Machining Processes</i>	November 16-20, 2020	National Institute of Technology Manipur Manipur, India
<i>Adaptive control systems for manufacturing</i>	January 19-23, 2021	Shrinathji Group of Institutions Nathdwara, Rajasthan, India
<i>Heat Transfer</i>	January 25, 2021	G. H. Rasoni College of Engineering, Nagpur, India
<i>Development of Novel Bone Tissue Engineering Scaffolds Using 3D Printing</i>	February 08-12, 2021	National Institute of Technology Patna, Patna, India
<i>Smart Manufacturing- Factory of future</i>	February 01-06, 2021	Mahendra Engineering College (Autonomous)- Namakkal, Tamil Nadu, India
<i>Additive Manufacturing</i>	February 08-12, 2021	Shri G. S. Institute of Technology and Science, Indore, India
<i>Electrical Discharge Machining (EDM) Process and its Process Variants</i>	July 26- August 06, 2021	Inderprastha Engineering College Ghaziabad, India
<i>Design Thinking in Manufacturing</i>	January 17-21, 2022	Government Engineering College Bikaner, Bikaner, India
<i>Collective Idea Generation: Tools and Techniques</i>	January 17-21, 2022	Government Engineering College Bikaner, Bikaner, India
<i>Evolution of Industrial Engineering and its Role in</i>	January 27, 2022	IIIE (Indian Institution of Industrial Engineering) 65 <sup>th</sup>



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<i>the Development of Industries</i>		Foundation Day Celebrations, BHEL Trichy, India
<i>Design Thinking and Critical Thinking</i>	February 22, 2022.	VPM.'s Polytechnic, Thane, India (MHRD/MoE's Institution Innovation Council)
<i>Design Thinking</i>	April 12, 2022	Lovely Professional University, Punjab, India

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member )	Organization	Membership No. with date

20. Academic Foreign Visits

Country	Duration of Visit	Programme

21. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
V. K. Yadav, P. Kumar, & A. Dvivedi	Effect of Tool Rotation in near-dry EDM Process on Machining Characteristics of HSS	Materials and Manufacturing Processes	34 (7)	779-790	2019	
V. K. Yadav, P. Kumar, & A. Dvivedi	Performance enhancement of rotary tool near-dry EDM of HSS by supplying oxygen gas in the dielectric medium	Materials and Manufacturing Processes	34 (16)	1832-1846	2019	
V. K.	Performance	Journal of the	43	72	2021	

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Yadav, R. Singh, P. Kumar, & A. Dvivedi	enhancement of rotary tool near-dry EDM process by modification in tool geometry	Brazilian Society of Mechanical Sciences and Engineering				
S. Kumar, V. K. Yadav, S. K. Sharma, C. Pandey, A. Goyal, & P. Kumar	Role of dissimilar Ni-based ERNiCrMo-3 filler on the microstructure, mechanical properties and weld induced residual stresses of the ferritic/martensitic P91 steel welds joint	International Journal of Pressure Vessels and Piping	193	104443	2021	
V. K. Yadav, R. Singh, P. Kumar, & A. Dvivedi	Investigating the performance of the rotary tool near-dry electrical discharge machining process through debris analysis	Journal of Materials Engineering and Performance	177	-	2022	
P. Sarulkar, Kumar S., A. Kumar, V. K. Yadav	Implementation of Internet of Things (IoT) in Micro, Small and Medium Enterprises: A Case Study	International Journal of Industrial and Systems Engineering	Accepted		2022	
Ramver, V. K. Yadav, A. Dvivedi & P. Kumar,	Evaluating the feasibility of using biodegradable castor oil as a dielectric medium during micro-EDM of Inconel 718	Journal of Materials Engineering and Performance	Accepted		2022	
Kumar S, V. K.	Prioritizing the mitigation	International Journal of	Accepted		2022	

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Yadav, A. Kumar, Bala T, Janish J & Anshu Kumar	strategies to Lean and Green barriers using fuzzy BWM-FTOPSIS method in the food supply chain: An empirical case study	Lean Six Sigma	DOI: 10.1108/IJLSS-10-2021-0171			
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**(B) Conferences/Workshops/Symposia Proceedings**

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year
V. K. Yadav, A. K. Dubey	Parametric Analysis of Laser Percussion Drilling of Yttria Stabilized Zirconia	National Conference on Product Design and Manufacturing (NCPDM)	254-259	-	Motilal Nehru National Institute of Technology Allahabad, Prayagraj, India	2015
V. K. Yadav, P. Kumar, & A. Dvivedi	Parametric investigations on near-dry Electric Discharge Machining	10th International Conference on Precision, Meso, Micro and Nano Engineering (COPEN 10)	575-578	-	Indian Institute of Technology Madras Chennai, India	2017
V. K. Yadav, P. Kumar, & A. Dvivedi	Investigations on rotary tool near-dry Electric Discharge Machining	The Minerals, Metals & Materials Society (TMS), San Diego, California, USA	-	-	The Minerals, Metals & Materials Society (TMS), San Diego, California, USA	2017
Kumar S, & V. K. Yadav	A Framework for The Adoption of Agri 4.0 in a Developing Economy: A Case Study	International Conference on Advances in Industrial Engineering Applications, ICAIEA2022	129-136	Sustainable Development, Industrial Hygien	Online (Anna University, Chennai, India)	2022

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				e & Competitiveness		
Avinash S, Chockalingam G, V. K. Yadav, Sreelakshmy K, Vijayan K, & R Sinha	Effect of laser shock peening on surface morphology of 17-4 PH stainless steel	National Conference on Frontiers of Aerospace Systems and Technologies	58-61	-	Vikram Sarabhai Space Centre Thiruvananthapuram, India.	2022
S Avinash, Vineet Kumar Yadav, Tony M Shaju, K Vijayan and K Pradeep	Improvement of plasma nitriding efficacy of alloy steel by laser peening	International Conference on Innovations in Mechanical and Materials Engineering	Accepted	Manufacturing Engineering	MNNIT Allahabad, Prayagraj, India.	2022

**(C) Book Chapters**

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number
V. K. Yadav, P. Kumar, & A. Divedi,	Applications of Process Engineering Principles in Materials Processing, Energy and Environmental Technologies	Springer	2017	ISSN 2367-1181
V. K. Yadav, Ramver, P. Kumar, & A. Divedi	Recent Advances in Mechanical Infrastructure, Lecture Notes in Intelligent Transportation and Infrastructure	Springer	2020	ISSN 2523-3440
Ramver, V. K. Yadav, A. Divedi & P. Kumar	Recent Advances in Mechanical Infrastructure, Lecture Notes in Intelligent Transportation and Infrastructure	Springer	2020	ISSN 2523-3440