****

www.linkedin.com/in/dr-sandeep-tiwari-7a186029

+91 9891460727

**DR. SANDEEP TIWARI**

**Principal , Darbhanga College of Engineering, Darbhanga**



+919891460727, 9415427948



sandeeptiwari1970@gmail.com

CPC-001, Omaxe Palm Green Society, Sector: MU, Greater Noida



**WORK EXPERIENCE**

***Academics***

25+Years

***Industrial***

5 Years

***Research***

16 Years

**ABOUT ME**

**Prof. (Dr.) Sandeep Tiwari** is currently serving as Principal of Darbhanga College of Engineering, Darbhanga.Prior to this, he served as the Director of Rajkiya Engineering College, Ambedkar Nagar, Krishna Engineering College, Ghaziabad, Uttar Pradesh and Global Institute of Mgmt. and Technology, Gurgaon. He has also served in the capacity of Prof. In charge, UIIC AKTU and Dean Innovation Hub, AKTU Lucknow. He has been a Member of Executive Council and Finance Committee, AKTU Lucknow, Uttar Pradesh. Under his able guidance, REC Ambedkar Nagar has received NBA recognition for Electrical Engineering and Information Technology. REC, Ambedkar Nagar is the first REC to get NBA accreditation among all government engineering colleges of Uttar Pradesh.

As part of his Industrial experience, Dr. Tiwari worked and gained enormous understanding as a Production Engineer with two renowned companies namely, Tribhuvan Steel Industries Limited, Lucknow and Subhash Projects and Marketing Limited, Delhi.

With this record of affluent Academic and Industry experience, time and again, he’s been conferred crucial roles in academics by University. Owing to his virtues such as; Result-Oriented approach, Integrity, Commitment, Creativity and Innovation, his quest and desire for a persistent improvement, through in-depth teaching and perennial monitoring, make him an adored Leader amongst his team members.

As a Technologist, He brings the most crucial skills on the table, namely Critical Thinking and Communication Skills. And to be an ideal leader, He always go the extra mile to help my team identifying their potential, encouraging them to perform better and thereby, bringing out the best in them. As a responsible employee, He always strive to keep even my simplest commitments and do justice to my job by seeing the task through to completion. Also, the vital factors such as flexibility and pro-activeness, which are the pre-requisites to take up new responsibilities even at ungodly hours, help him to conduct himself efficaciously. Hence, as a leader, facilitator, mentor, manager, mediator, and agent of development he takes every task with zestful spirit as my core responsibility, to ensure the outcome is always productive and rewarding.

**KEY SKILLS**

Community Engagement

Innovative Strategic Thinking

Entrepreneurial Drive

Working across Boundaries

Courage & Resilience

Building Alignment

**KEY ROLES  
  
Advisor, International Youth Fellowship (IYF), South Korea**

Director

Head of the Department  
  
Executive Member, Governing Council, Govt. Of Bihar

Observer

Member, Academic Council, BEU Patna  
  
Project In charge

Proctor

Engineer

**Doctorate in Philosophy (Ph.D.) in Mechanical Engineering**



**Education**

Awarded in 2011 from **Gautam Budh Technical University, Lucknow (Now Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh, Lucknow)**

|  |  |
| --- | --- |
| Research Place: | **Indian Institute of Technology-BHU**, **Varanasi,** Uttar Pradesh, India from **2004-2008** |
| **Title:** | Strategic Approach for Environmentally Conscious Traditional Machining by Effective Coolant Disposal |

**Guides: Prof. P. C. Pandey**, Emeritus, Indian Institute of Technology, Kanpur, Former Prof. and Head (Mechanical and Industrial Engineering Department), University of Roorkee (I.I.T.R.), Roorkee and **Prof. Harvendra Singh**, Former Director, Bundelkhand Institute of Engineering and Technology, Jhansi.

**Master of Engineering (Mechanical Engineering)**

First Division**,** 1998 from **University of Roorkee (Now Indian Institute of Technology), Roorkee**

**Bachelor of Engineering**

FirstDivision, 1993 from **Karnataka University (Central University), Dharwad.**

The Central University established in October 1949; campus spans 750 acres (3 km²). The university was recognized with the "Potential for Excellence" by the [University Grants Commission](https://en.wikipedia.org/wiki/University_Grants_Commission_(India)" \o "University Grants Commission (India)). The university is the second oldest, after [University of Mysore](https://en.wikipedia.org/wiki/University_of_Mysore" \o "University of Mysore), in the state of Karnataka.



**Work Experience**

***Academic Experience: 25+ Years***

|  |  |  |
| --- | --- | --- |
| **Institute** | **Designation** | **Duration** |
| Darbhanga College of Engineering, Darbhanga | Principal | Nov 14, 2022 to till date |
| Rajkiya Engineering College, Ambedkar Nagar | Director | April 05, 2021 to Nov 12, 2022 |
| Krishna Engineering College, Ghaziabad, Uttar Pradesh | Director | July 06,2017 to April 03, 2021 |
| Global Institute of Mgmt. and Technology, Gurgaon | Director | September 23, 2015 to July 01,2017 |
| Amity School of Engineering, Amity University, Noida | Professor, Mechanical and Automation Engineering | Mar. 2014 -Sept. 2015 |
| Accurate Institute of Management and Technology, Greater Noida | Director &Director Research  Professor and Head [Mechanical Engineering] | Sept. 2011 – Sep. 2013  Mar 2010 – Sep 2011 |
| College of Engineering and Technology, IILM-AHL, Greater Noida | Professor and Head of Mechanical Engineering Department | Oct 2009 – Mar 2010 |
| Accurate Institute of Management and Technology, Greater Noida | Associate Professor and Head of Department [Mechanical Engineering] | August 2008 – Oct 2009 |
| G.L.A. Institute of Technology and Management, Mathura | Reader in Department of Mechanical Engineering | Jan 2007 – August 2008 |
| Azad Institute of Engineering and Technology, Lucknow | Assistant Professor and Senior Lecturer | June 2000 – Jan 2007 |

***Industrial Experience: 5 Years***

|  |  |  |  |
| --- | --- | --- | --- |
| **Organization** | **Designation** | **Duration** | **Responsibilities** |
| Tribhuvan Steel Industries Limited | Production Engineer | April 1998 – May 2000 | Direct reporting to General Manager (Production). Key responsibilities involved Production, Heat Treatment, Finishing, Inspection, Testing and Dispatch. |
| Subhash Project and Marketing Limited, New Delhi | Mechanical Engineer | Jan 1994 – May 1996 | Direct reporting to Vice-President (Planning). Being an active member of the team, visited Chamoli (Uttaranchal) for the site selection of 6 MW Hydroelectric stations. Also, a part of the group, responsible for technical collaboration with foreign clients. |



**Published Research Work**

**INTERNATIONAL JOURNALS**

1. Sharma S., Tiwari A.K., **Tiwari S.,** Prakash R., Particle Optimization of Ceo2/Water Nanofluids in Flat Plate Solar Collector, International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249 – 8958, pp. 1467-1474 Volume-9 Issue-2, December, 2019.
2. Patel N. U., **Tiwari S.**, Kulkarni C., Solar Operated Agribot For Green House Farming, International Journal of Mechanical and Production Engineering Research and Development (IJMPERD), Vol. 9, Issue 5, Oct 2019, 643-656, ISSN (P): 2250-2378; ISSN (E): 2319-4510 **[UGC].**
3. Srivastava A.K., Nag A., Dixit A.R., Scucka. J., Hloch S., Klichova D., Hlavacek P., **Tiwari S.,** Hardness measurement of surfaces on hybrid metal matrix composite created by turning using an abrasive water jet and WED, Measurement Volume 131, January 2019, pp. 628-639, ISSN: 0263-2241, Impact Factor: 3.364 **[*SCOPUS*]**.
4. Raghuwanshi R.K., **Tiwari S.,** Enhancement in mechanical properties of EDTA reinforced KP/PMMA composite, International Journal of Emerging Technology and Innovative Research (JETIR), Volume 5 Issue 12, pp. 51-57, December 2018, ISSN: 2349-5162, **Impact factor: 5.87[UGC].**
5. Raghuwanshi R. K., **Tiwari S.,** To investigate the Fracture Assessment of PMMA/KP Polymer Composites, applying EWF Mechanism, IJRASET, Volume 6 Issue XII, pp. 644-649, Dec 2018 ISSN: 2321-9653, IC Value 45.98, **SJ Impact Factor: 6.887[UGC].**
6. Verma S.K., Tiwari A.K., **Tiwari S.,** Chauhan D.S., [Performance analysis of hybrid nano fluids in flat plate solar collector as an advanced working fluid.](https://sci-hub.tw/https:/www.sciencedirect.com/science/article/pii/S0038092X18303621" \t "_blank), Solar Energy, Vol. 167, pp. 231-241, June 2018, Publisher: Elsevier, **Impact factor: 4.608** ISSN: 0038-092X**[*SCOPUS*].**
7. Patel N.U., **Tiwari S.,** Implementation of Modern Technology in Agriculture, International Journal of Creative Research Thoughts (IJCRT), Volume 6 Issue 1, pp. 1446-1451, January 2018, ISSN: 2320-2882**[UGC].**
8. Patil N.U., **Tiwari S.,**Effective Design of an Agribot for Smart Farming, International Journal of Computing and Business Research, Volume 7 Issue 4 November - December 2017, International Manuscript ID 22296166V7l4201707, ISSN (online) 2229-6166, **Impact Factor 4.197[ESCI]**.
9. Dwivedi B.K., **Tiwari S.,**Performance Evaluation of Subsonic Axial-Flow Tandem Airfoils of a Core Compressor Rotor, International Journal in IT & Engineering, Vol. 05, Issue-09, September 2017, ISSN: 2321-1776, **Impact Factor – 6.341[SCIE]**.
10. Srivastava A.K., Nag A., Dixit A.R., **Tiwari S.**, Scucka J, Zelenak M, Hloch S, Hlavacek P, Surface integrity in tangential turning of hybrid MMC A359/B4C/Al2O3 by abrasive waterjet, Journal of Manufacturing Processes, Volume 28 pp. 11–20, August 2017 **[*SCOPUS*]**.
11. Patil N. U., **Tiwari S.,**An Effectual Design of Agribot and Novel Implementation for Smart Agriculture, International Refereed Journal of Review and Research, Volume 5 Issue 4 July 2017, International Manuscript ID 23482001V514072017-03, ISSN 2348-2001 **[SSCI]**.
12. Dwivedi B.K., **Tiwari S.,**Study of Flow in Axial Compressor with the help of Off-Design Analysis, International Journal of Research in Engineering and Applied Sciences (IJREAS), Vol.6, Issue10, pp. 251-260, October 2016, ISSN(O):2249-3905, ISSN(P): 2349-6525 | **Impact Factor: 6.573 [ESCI]**.
13. Ashoka C.C., **Tiwari S**., Study of Ultrasonic Waves and the Temperature Effects on its Applications, International Journal in IT and Engineering, VOL.03 ISSUE-10, October 2015 pp 112-120, ISSN: 2321-1776, **Impact Factor- 4.747**.
14. Dwivedi B.K., **Tiwari S.,**Theoretical Aspects of Axial-Compressor & its effectiveness on Pressure rise of Mass Flow and Rotor Speed, International Journal in Physical & Applied Sciences, Vol.02 Issue-04, pp. 87-94, April 2015, ISSN 2394-5710, **Impact Factor-2.871[ESCI]**.
15. Srivastava. A, Dixit. A.R., **Tiwari S.,** Experimental Investigation of Wire EDM Process Parameters on Aluminum Metal Matrix Composite Al2024/SiC, International Journal of Advance Research and Innovation, Volume 2 issue 2 (2014), pp. 511-515, ISSN 2347-3258 [Non paid peer reviewed] **[ESCI]**.
16. Pandey S.D., **Tiwari S.**, Experimental Studies of Heat Transfer and Pressure Drop Characteristics of Nanofluids under Turbulent Flow Regime, International Journal of Engineering and Science, Volume 1, January 2014, ISSN: 2348-330X **[SCIE]**.
17. Madheshiya S., Srivastava. A, Dixit. A.R., **Tiwari S.**, A Review on Fabrication and Characterization of Composite Material and its Buckling Analysis through FEM, International Journal of Advance Research and Innovation, Volume 2, issue 1, (2014), pp. 185-193, ISSN: 2347-3258 [Non paid]**[ESCI]**.
18. Srivastava. A, Dixit. A.R., **Tiwari S.**, A Review on Fabrication and Characterization of Aluminum Metal Matrix Composite (AMMC), International Journal of Advance Research and Innovation, Volume 2 (2014), pp. 516-521 **[ESCI]**.
19. **Tiwari S.,** Gupta V.K., Pandey P.C., Singh H., Mishra P., Adsorption of Emulsified Oil from Spent Metal Working Fluid Using Agro-Waste of Cajanus-Cazan, International Journal of Environmental Technology and Management, Volume 14, No.1/2/3/4, pp. 115-131, 2011 ISSN 1466-2132 **[*SCOPUS*].**
20. **Tiwari S.,** Pandey P.C., Singh H., Mishra P.K., A Comparative Study of the Performance Behaviour of Adsorbent Materials Used for the Treatment of Spent Cutting Fluids, International Journal of Environmental Technology and Management, Volume 13, Issue 2, pp. 206-220, 2010, ISSN 1466-2132 DOI: 10.1504/IJETM.2010.034302 **[ESCI Indexed].**
21. **Tiwari S.**, Pandey P.C., Singh H., Mishra P.K., A Multi-Criteria Approach for the Selection and Grading of Adsorbent Materials for the removal of oil from spent cutting fluids, International Journal of Physical Sciences, Volume 21 (1), pp. 85-98, 2009 **[SCIE Indexed].**
22. **Tiwari S.,** Pandey P.C., Singh H., Mishra P.K., Adsorption Chemistry of Oil-In-Water Emulsion from Spent Oil Based Cutting Fluids Using Sawdust of MangiferaIndica, International Journal of Environmental Application and Science, Volume 4 (1), pp. 99-107, 2009 **[SCIE Indexed].**

**NATIONAL JOURNALS**

1. Yadav M., Singh S.K., Pandey A.K., Agarwal P., **Tiwari S**., Role of high technology medical devices and its uses in patient care,Paper accepted in Indian Journal of Forensic Medicine and Toxicology (IJFMT) in July 2020.
2. Sharma S., Tiwari A.K., **Tiwari S.,** Prakash R., Viscosity of hybrid nanofluids: Measurement and comparison, Journal of Mechanical Engineering and Sciences,Volume 12, Issue 2, pp. 3614-3623, June 2018, ISSN (Print): 2289-4659; e-ISSN: 2231-8380 **[*SCOPUS*]**.
3. Srivastava A.K., Nag A., Dixit AR, Hloch S., **Tiwari S.,**Scucka J., Surface integrity in wire-EDM tangential turning of in-situ hybrid metal matrix composite A359/B4C/Al2O3, Science and Engineering of Composite Materials, Volume 26, Issue 1, pp. 122-133, March –April 2018**,** ISSN 2191-0359, **Impact Factor 0.7[*SCOPUS*].**
4. Raghuwanshi R.K., **Tiwari S.,** Technical necessities and progressive improvement in Aerospace composite materials in the light of PMMA; JJST (print), Vol. 1, No. 2, July-Dec 2017, ISSN: 2581-6691 **[UGC]**.
5. Ashoka C.C., **Tiwari S**., A Performance Evaluation of Temperature Effects on Ultrasonic Fluid Flow Using Various Flow Measurement Techniques, A Journal of Advances in Management, IT & Social Sciences, VOL. 6, ISSUE 8, August 2016, pp 43-51, **Impact Factor 4.282**, ISSN: (2231-4571).
6. Srivastava A.K., Dixit A.R., **Tiwari S.,** Investigation of microstructural and mechanical properties of metal matrix composite A359/B4C through electromagnetic stir casting, Indian journal of engineering & materials sciences, Volume 23 (2&3), pp. 171-180, 2016 (April & June), ISSN 0975-1017 (online) **[*SCOPUS*]**.
7. Srivastava A.K., Dixit A.R., **Tiwari S.,** A review on intensification of metal matrix composite and its non-conventional machining, Science and Engineering of Composite Materials, Volume 25, Issue 2, pp. 213-228, May 2016, **Impact factor 0.619**, DOI 10.1515/secm-2015-0287 **[*SCOPUS*]**.

**RESEARCH PAPERS IN BOOKS/PROCEEDINGS**

1. Srivastava A.K., Nag. A., Dixit A R., **Tiwari S.,** Srivastava V.S., Parametric study during abrasive water jet turning of hybrid metal matrix composite, ISSN 2195-4356, Lecture Notes in ME 2019, pp. 72-84, cited by 5, DOI: 10.1007/978-3-319-99353-9\_9 **[SCOPUS]**.
2. Sharma S., Tiwari A.K., **Tiwari S.,** Gopal Nandan, Ravi Prakash, Thermal Performance Enhancement of Flat-Plate Solar Collector using CeO2-Water Nanofluid, International Conference on Efficient Solar Power Generation and Energy Harvesting ESPGEH 2019, Feb12th-14th Feb 2019, Page No- 150, Abstract Book.In: Jain V., Kumar V., Verma A. (eds) Advances in Solar Power Generation and Energy Harvesting. Springer Proceedings in Energy. Springer, Singapore, First Online: 24 March 2020, DOI https://doi.org/10.1007/978-981-15-3635-9\_12, Publisher Name: Springer, Singapore, Print ISBN: 978-981-15-3634-2, Online ISBN 978-981-15-3635-9**[UGC].**
3. Patil Nagesh U., **Tiwari S.,** Gaikwad N., Demda A., Pangale S., Choudhari M., SMART Cattle Feeding Machine for Current Agriculture Scenario, Proceedings of the 2nd International Conference on Future Learning Aspects of Mechanical Engineering, Department of Mechanical Engineering, Amity School of Engineering and Technology (FLAME 2020 August 05-07, 2020).
4. Sharma S., Prakash R., **Tiwari S.,** Tiwari A.K., Study of Water-based Hybrid Solar Photovoltaic Thermal Collector, International Conference in Mechanical and Energy Technology 2019, Galgotias College of Engineering & Technology, Greater Noida, November 07-08, 2019, vol 174. pp 519-527, Springer, Singapore. First Online: 02 June 2020, DOI- https://doi.org/10.1007/978-981-15-2647-3\_47, Publisher Name: Springer, Singapore, Print ISBN- 978-981-15-2646-6, Online ISBN978-981-15-2647-3**[*SCOPUS*].**

**INTERNATIONAL CONFERENCE**

1. Md Asjad Mokhtar, Ankit Kumar, Dr. Sandeep Tiwari, Theoretical Simulations and Experimental Studies on the Crack Growth of Cr-Mo alloy steel using Finite Element Method, Proceedings of International Conference on Mechanical & Industrial Technologies (ICMIT 2025), Muzaffarpur Institute of Technology, Muzaffarpur May 24-25 , 2025 ISBN : 978-81-988021-6-3
2. Vinayak Jha, Kumar Amit, Sandeep Tiwari, Combustion Modeling of CH4-Air Mixture in an Axisymmetric Channel with an Obstacle Proceedings of International Conference on Mechanical & Industrial Technologies (ICMIT 2025), Muzaffarpur Institute of Technology, Muzaffarpur May 24-25 , 2025 ISBN : 978-81-988021-6-3
3. Pant R., Kalra J., Negi P., Pant S., **Tiwari S.,** Investigation of Hydro Energy Potential and its Challenges in Himalayan State: Uttarakhand, Proceedings of International Conference on Machine Learning, Advances in Computing, Renewable Energy and Communication (MARC 2020), Krishna Engineering College, Ghaziabad December 17-18, 2020 **(Scopus Indexed).**
4. Kalra J., Pant R., Negi P., Gupta P.K., Pant S., **Tiwari S.,** Design optimization of solar thermal energy storage tank: Using the stratification coefficient, Proceedings of International Conference on Machine Learning, Advances in Computing, Renewable Energy and Communication (MARC 2020), Krishna Engineering College, Ghaziabad December 17-18, 2020 **(Scopus Indexed).**
5. Kumar S., Chattopadhyaya S., **Tiwari S.,** Assessment of the Environmental Performances of the Small and Medium Scale Indian Industries in the context of Green Supply Chain Management, Proceedings of International Conference on Optimization Techniques and Recent Innovations in Mechanical Engineering (ICOTRIME), Krishna Engineering College, Ghaziabad December 11-12, 2020. The paper will be published in IOP Material Science & Engineering - Conference Series **(Scopus Indexed).**
6. Kumar V., **Tiwari S.,** Sachdeva G., Jain V., Mittal V., Sharma P., Rajput V., Bhardwaj H., Performance analysis of ERS using R134a - An experimental investigation (Part 1) – Ejector design and performance analysis, International Conference on Optimization Techniques and Recent Innovations in Mechanical Engineering (ICOTRIME), Krishna Engineering College, Ghaziabad December 11-12, 2020. The paper will be published in IOP Material Science & Engineering - Conference Series **(Scopus Indexed).**
7. Kumar V., **Tiwari S.,** Sachdeva G., Jain V., Devanshu., Raghav P., Nagar A., Uttam, Performance analysis of ERS using R134a - An experimental investigation (Part 2) – System Design, International Conference on Optimization Techniques and Recent Innovations in Mechanical Engineering (ICOTRIME), Krishna Engineering College, Ghaziabad December 11-12, 2020. The paper will be published in IOP Material Science & Engineering - Conference Series **(Scopus Indexed).**
8. Kumar V., **Tiwari S.,** Sachdeva G., Jain V., Performance analysis of ERS using R134a - An experimental investigation (Part 3) – Experimental Results, International Conference on Optimization Techniques and Recent Innovations in Mechanical Engineering (ICOTRIME), Krishna Engineering College, Ghaziabad December 11-12, 2020. The paper will be published in IOP Material Science & Engineering - Conference Series **(Scopus Indexed).**
9. Shukla R.K., **Tiwari S.,** Kumar A., Effects of Modulus of Elasticity on airflow in Human Respiratory airway, International Conference on Optimization Techniques and Recent Innovations in Mechanical Engineering (ICOTRIME), Krishna Engineering College, Ghaziabad December 11-12, 2020. The paper will be published in IOP Material Science & Engineering - Conference Series **(Scopus Indexed).**
10. Kumar S., **Tiwari S.,** Kumar J.S., Kumar S.S., Prakash O., Sachendra., Mechanical Characterization & Phase Evaluation of ODS Aluminum Alloy, International Conference on Optimization Techniques and Recent Innovation in Mechanical Engineering (ICOTRIME), Krishna Engineering College, Ghaziabad December 11-12, 2020. The paper will be published in IOP Material Science & Engineering - Conference Series **(Scopus Indexed).**
11. Patil N.U., Tripathi S., Sabu A., Thakur U., Tripathi N., **Tiwari S.,** Traffic Control System Using Image Processing, International Conference on Future Learning Aspects of Mechanical Engineering (FLAME 2020), Paper communicated **[ESCI]**.
12. **Tiwari S.**, Thermal deterioration of P.M.M.A. nano-composites induced Kaolinite clay mineral exhibits reduced peak heat release rate, 6th International Conference on Chip, Circuitry, Current, Coding, Combustion & Composites” – i7C-2018 at Sri Sairam College of Engineering at Bengaluru, Karnataka on 28th and 29th November 2018 **[UGC].**
13. Srivastava. A K., Dixit. A.R., **Tiwari S.,**Zelenak M., Experimental investigation of wire EDM machining performance of in-situ hybrid metal matrix composite using response surface methodology and desirability approach, International Conference on Advances in Materials & Manufacturing (ICAMM-2016), December 8-10, 2016, Hyderabad, INDIA, e-ISBN: 978-93-86256-19-5 **[UGC].**
14. **Tiwari S.,** Pandey P.C., Singh H., Mishra P.K., et.al. Applicability of Freundlich and Langmuir Model in the Removal of Emulsified Oil, International Conference on Separation Processes, Chemical Engineering Department, Institute of Technology (Banaras Hindu University), Varanasi, October 20-22, 2009 **[UGC].**
15. **Tiwari S.**, Pandey P.C., SinghH., Mishra P.K., Eco-Friendly Disposal of Spent Cutting Fluid, International Conference on Challenges and Strategies for Sustainable Energy, Efficiency and Environment, Organized by Uttar Pradesh Technical University, Lucknow, June 10-11, 2006 **[UGC].**

**NATIONAL CONFERENCE**

1. **Tiwari S.**, Wire Electro Discharge Machining and its Applications, National Conference on “Recent Innovations in Mechanical Engineering & Technology” RIMET-2014 on June 28-29, 2014 **[UGC].**
2. Pandey S.D., **Tiwari S.,** Theoretical Analysis of Swing Jaw Plates Used in Heat Exchanger, Workshop on Advances in Energy, Engineering and Technology (WAEET2013), Indian Institute of Technology (Banaras Hindu University), Varanasi, June 28-30, 2013 **[UGC].**
3. Pandey S.D., **Tiwari S.,** Characteristics of Walter’s B Visco-Elastic Nanofluid Layer, Workshop on Advances in Energy, Engineering and Technology (WAEET2013), Indian Institute of Technology (Banaras Hindu University), Varanasi, June 28-30, 2013 **[UGC].**
4. Pandey P.C., **Tiwari S.,** Eco-Friendly Disposal of Spent Cutting Fluids Using Agro Wastes, National Conference on Recent Advances in Mechanical and Productive Engineering (RAMP-2009), College of Technology, GovindBallabh Pant University of Agriculture and Technology, Pantnagar, February 12-14, 2009 **[UGC].**
5. **Tiwari S.**, Soota T., Singh H., Process Capability Analysis for Quality Improvement and Calculation of Taguchi Capability Index, National Conference of Advanced Manufacturing and Robotics (AMR 2004), Central Mechanical Engineering Research Institute, Durgapur, 10-11 January 2004 **[UGC].**
6. **Tiwari S.,**Soota T., Singh H., Engineering Tolerances and Functional Tolerance Design for Assembly, National Conference of Advanced Manufacturing and Robotics (AMR 2004), Central Mechanical Engineering Research Institute, Durgapur, 10-11 January2004 **[UGC].**



**Participation in Technical Programmes**

**KNOWLEDGE ENHANCEMENT PROGRAMMES**

* Attended **Management Development Programme** on “Financing and Valuation of New Ventures and Start-Ups at Indian Institute of Management, Lucknow from December 06-08, 2019.
* Participated in **The Executive Leadership Program** offered by The Art of Living from July 12-14, 2019 organized by APJ Abdul Kalam Technical University.
* Participated in the **Knowledge Exchange Program (Principals’ Meet)** on “Effective Learning Through Facilitation – Role of Academic Leaders” at IBS Gurgaon Campus on September 01, 2018.
* Attended Short **Term Training Program** on “Improving Industry Institute Interaction” conducted by the Entrepreneurship Development &Indl. Coordn. Department, National Institute of Technical Teacher’s Training and Research, Ministry of Human Resource Development, Government of India Chandigarh, from March 08-12, 2004.
* Attended **Continuing Education Program** on “Advanced Manufacturing” from May 21 - July 20, 2001 organized by Department of Mechanical Engineering, Indian Institute of Technology, Kharagpur.
* **Industrial Program** on “Manufacturing Automatic Lathes and Special Purpose Machines” (Four Weeks) was attended at “Kirloskar Limited”, Hubli, Karnataka on June 01 – 30, 1991.
* Attended **One Month Training** on “To Set-up Own Industry” at Haryana State Industrial Development Corporation, Faridabad, Haryana.

**INTERNATIONAL EXCHANGE PROGRAMMES**

* Attended **India International Education Conclave** on “Counselling Skills for Student Recruitment Professionals – MDP for Head Admission and Outreach” organized by Institute of Counsellor Training Research and Consultancy (ICTRC) at India International Centre, New Delhi on December 20, 2019.
* Attended Conference on **The International Education & Skill Summit (TIESS), Exhibition and Workshop** on September 24-26, 2019 organized by DIDAC India, Bangalore.
* Attended **Global Education Summit** on September 10, 2019 (Tuesday) organized by International Youth Fellowship, International Chamber of Media & Entertainment Industry & Centre for Education and Growth & Research at Marwah Studios, FC 14/15, Film City, Sector 16A, Noida.
* Participated as Patron in **4th IEEE International Conference** on IoT Smart Innovation & Usages at Krishna Engineering College, Ghaziabad on April 18-19, 2019.
* Attended **India International Education Conclave** on “Counselling Skills for Student Recruitment Professionals – MDP for Head Admission and Outreach” on February 22, 2019 organized by Institute of Counsellor Training Research and Consultancy (ICTRC) at India International Centre, New Delhi.
* Participated in **6th International Conference** on Chip, Circuitry, Current, Coding, Combustion& Composites (i7C-2018) on November 28-29, 2018 at Bengaluru, Karnataka & presented his research paper titled “Thermal deterioration of P.M.M.A. Nano-composites included Kaolinite clay mineral exhibits reduced peak heat release rate”.
* Attended Conference on **The International Education & Skill Summit (TIESS) and Exhibition** on October 4-6, 2018 organized at DIDAC India, Conference Hall, PragatiMaidan, New Delhi.
* Attended **the International Symposium on Physical Rehabilitation & Assistive Robotics Technologies**-**2018(ISPRART’18)** on January 11, 2018 at Department of Mechanical & Aerospace Engineering, Bennett University, Greater Noida, Uttar Pradesh.
* Attended the Certiport (A Pearson VUE business)’s **World Education Summit** onAugust 11-12, 2017 at New Delhi.
* Attended **International Course** on “Transportation Planning and Safety” from November 30 to December 08, 2014 at **Indian Institute of Technology, New Delhi.**
* Participated in **International Conference** on “Separation Process” on October 20-22, 2009 organized by Department of Chemical Engineering & Technology, Institute of Technology, Banaras Hindu University, Varanasi - 221005.
* Participated in **International Conference** on “Challenges and Strategies for Sustainable Energy, Efficiency and Environment” on June 10-11, 2006 organized by Uttar Pradesh Technical University (UPTU), Lucknow.

**NATIONAL CONFERENCES & SEMINARS**

* Participated as KEYNOTE SPEAKER at the **National Conference on “Zero Waste Discharge: Issues, Challenges & Way Forward”** (NSZWD-2019) on April 28, 2019 organized by K.N.G.D. Modi Engineering College, Modinagar.
* Attended as **Keynote Speaker** in **National Conclave** on “Recent Innovations in Mechanical & Civil Engineering on April 07, 2017 organized by K.N.G.D. Modi Engineering College, Modinagar.
* Attended and Perform as **Keynote Speaker** in **National Conclave on “Recent Trends in Solar Energy Developments” (RTSED-2015)** organized by K.N.G.D. Modi Engineering College, Modinagar on November 06, 2015.
* Perform as **Keynote Speaker** in **National Conference** on “Recent Innovations in Mechanical Engineering & Technology” organized by K.N.G.D. Modi Engineering College, Modinagar on June 28-29, 2014.
* Attended and Perform as **Keynote Speaker** in **National Seminar on “Energy Policies – Issues & Challenges** on organized by K.N.G.D. Modi Engineering College, Modinagar on March 06, 2014.
* Participated in **National Conference** on “System Thinking and System Dynamics” organized by Department of Mechanical Engineering, Institute of Technology, Banaras Hindu University, Varanasi – 221005 from February 29 – 1 March, 2008.

**WORKSHOPS**

* Attended Two days Workshop on **Intellectual Property Rights** on 05-06 September, 2020 organized under Internal Quality Assurance Cell, Axis Colleges, Kanpur.
* Attended online Workshop on **Universal Human Values on the theme “Inculcating Universal Human Values in Technical Education”** During May 26-30, 2020 as organized by All India Council for Technical Education (AICTE).
* Participated in **National Workshop** on “Awareness of Intellectual Property Rights” on June 25-26, 2015 organized by Amity University, Noida, Uttar Pradesh, India in association with Department of Electronics and Information Technology (DeitY, Delhi).
* Participate in 1-Day Workshop on “MATLAB” on March 19, 2015 organized and conducted by Amity Club of Embedded System &CetpaInfotech Pvt. Ltd. respectively at Amity University, Noida.
* Participated in the **Workshop** on “Cloud Computing and Big Data” from October 7-9, 2014conducted in collaboration with Infosys Limited at Amity University, Noida

**FACULTY DEVELOPMENT PROGRAMMES**

* Participated in **Faculty Development Program (FDP)** on “Optimization Techniques in Engineering” on June 29-30, 2015 at Amity University, Noida Uttar Pradesh, India.
* Participated in **Faculty Development Program (FDP)** on “Amity Academic Structure & System” on May 27-28, 2014 organized by Amity University, Noida (Uttar Pradesh), India.
* Participated in **Faculty Development Program (FDP)** on “Entrepreneurship Development” on May 05-20, 2014 organized by Amity University, Noida Uttar Pradesh, India sponsored by National Science & Technology Entrepreneurship Development Board, Department of Science & Technology, Govt. of India.

**WEBINARS**

* Attended a Webinar on **“Employability Opportunities and Hurdles in Post COVID Scenario”** organized by Jaipuria School of Business, Indirapuram, Ghaziabad on June 19, 2020.
* Attended a Webinar on **“Classroom of Future”** organized by Zotalabs Pvt. Ltd. on June 13, 2020.
* Attended a Webinar on **“Enablers of Quality in Technical Education for Employability”** organized by Prof. PremVrat, Former Vice-Chancellor, AKTU on May 24, 2020.
* Attended a Webinar on “**Corona Kaal Ke Baad Takniki Chattron Ke Liye Bante Gaye Avsar”**organized by Prof. Durg Singh Chauhan, Founder Vice-Chancellor, AKTU on May 17, 2020.
* Attended a Webinar on **“Challenges of Post Covid 19 Era: Discover the Power of Change your life for Good”** organized by Carving Talent on May 10, 2020.



**Ph.D. Supervised**

**Ph.D. Degree Awarded = 05**

**Ph.D. Pursuing = 01**

1. **Dr. Ashish Kumar Srivastava** completed his Ph.D. from Indian Institute of Technology (ISM) Dhanbad in February 2018 in the department of Mechanical Engineering.

**Research Topic:** Synthesis Characterization and Machinability of Hybrid Aluminium metal matrix composite **(Awarded in 2018)**

1. **Dr. Patil Nagesh Umakant** completed his Ph.D. in Mechanical Engineering from Shri Venkateshwara University, Uttar Pradesh. Two patents have been filed and published.

**Research Topic**: Design and Development of Multifunctional Agribot **(Awarded in 2018)**.

1. Dr. **Rakesh Kumar Raghuwanshi** completed his Ph.D. in Mechanical Engineering from Shri Venkateshwara University, Uttar Pradesh.

**Research Topic:** Mechanical and thermal characterization of aero grade poly methyl methacrylate (PMMA) Nano composites used in aircraft canopy **(Awarded in 2019)**.

1. **Dr. Bipin Kumar Dwivedi** is pursuing his Ph.D. in Mechanical Engineering from Shri Venkateshwara University, Uttar Pradesh.

**Research Topic:** A Critical Study on Efficiency of Axial-Compressor on Pressure Rise of Mass Flow and Rotor Speed **(Awarded in 2019)**.

1. **Mr. Chattrapati Chakravarti** is pursuing his Ph.D. in Mechanical Engineering from Shri Venkateshwara University, Uttar Pradesh.

**Research Topic:** An Analysis of Temperature Effects on Ultrasonic Fluid Flow **(Awarded in 2021).**

1. **Mr. Shubham Sharma** is pursuing his Ph.D. in Mechanical Engineering from Amity University, Noida

**Research Topic:** Experimental investigation of the effect of Nano-fluids on solar collectors and photovoltaic thermal units in solar thermal applications **(Thesis writing started).**

****

**Fund Mobilized from Government Agencies**

* **Darbhanga College of Engineering, Darbhanga**

**Involved as CO-PI in Project “Finishing School Program on 3D Printing & Additive Manufacturing Technology for Engineering Students of West Bengal and Bihar,”** a flagship project of **MeitY, Government of India** implemented by C-DAC Kolkata and WTL Kolkata. The project has a total sanctioned budget outlay of **Rs. 5448.27 lakh (Rupees Fifty-Four Crore Forty-Eight Lakh and Twenty-Seven Thousand Only)**, allocated for the establishment and operation of **eight nodal centers**, among which **Darbhanga College of Engineering (DCE), Darbhanga, proudly serves as one of the key implementing institutions**.

* **Rajkiya Engineering College, Ambedkar Nagar**

**Involved as CO-PI in Project on “Development of IoT & Drone based Agriculture Monitoring System with objective of Skill Development of Socially Deprived Community by Madan Mohan Malviya University of Technology (MMMUT), Gorakhpur (Nodal Agency)** with Participating Institutes: Regional Engineering College- Bijnor, Banda and Ambedkar Nagar with a total grant of Rs. 289.5 Lacs, out of which REC Ambedkar Nagar got Rs. 44.648 Lacs. The Project will be completed in 2022.

* **Krishna Engineering College, Ghaziabad**

|  |  |  |
| --- | --- | --- |
| **S.No.** | **Grant Received From** | **Total Grant Received** |
| **2017-18: 41.66Lacs** | | |
| 1. | EDI Ahmadabad, Govt of India | 14.5 Lacs |
| 2. | AICTE, Govt of India | 6.96 Lacs |
| 3. | DST, Govt of India | 17.75 Lacs |
| 4. | CST – UP, Govt of UP | 20K |
| 5. | AKTU | 2.25 Lacs |
| **2018-19: 33.96Lacs** | | |
| 1. | MeitY, Govt of India | 1.957 Lacs |
| 2. | DST, Govt of India | 9.75 Lacs |
| 3. | EDI Ahmadabad, Govt of India | 13.50Lacs |
| 4. | DST, Govt of India (NSTDB) | 8.00 Lacs |
| 5. | AKTU | 75K |
| **2019-20: 43.26 Lacs** | | |
| 1. | DST, Govt of India | 17.25 Lacs |
| 2. | EDII, Ahmedabad | 2.78 Lacs |
| 3. | AICTE | 6.33 Lacs |
| 4. | AKTU under Visvesvaraya Research Promotion Scheme 2019-20 | 16.90 Lacs |

****

**Funded Projects & Grant**

* **Two projects** have been approved by AKTU under Visvesvaraya Research Promotion Scheme and grant of Rs. 4.40 Lakh, Rs. 4.50 Lakh and 4.0 Lakh is approved in session 2019-20 and completed in May 2021. I am Co-Principal Investigator.
* Total 15 innovative ideas have been developed to prototype and are in process of commercialization. Each project has been sanctioned a grant of **Rs. 1 Lac by DST**, Govt. of India.
* **Two projects** have been approved by AKTU and a grant of Rs. 12,000/- each have been sanctioned in session 2018-19. Also, one project has been sanctioned a grant of Rs. 20000/- by UP-CST during 2017-18.
* **Two innovative projects** have been selected by AKTU for innovation gallery of AKTU.
* **Two projects** have been selected under NIDHI PRAYAS by KIET-TBI, and one project by TBI-IIM Bangalore for seed fund of Rs. 20.00 Lacs each.



**Patents Filed**

1. Patil N. U., **Tiwari S.,**Design and Development of Multifunctional Agribot, The Patents Act, 1970 (39 of 1970) &The Patents Rules, 2003 (Evaluation in process).
2. Yadav Y.N., **Tiwari S.,** Yadav M.**,** Centrifugal & transmission Synchronization design process to develop self electricity generating machine and multi fuel engine efficiency enhancement (Evaluation in process).
3. Yadav Y.N., **Tiwari S.,** Yadav M.**,**Optimised Air Fuel Mixing and Filtering device (AFMFD) for enhanced fuel efficiency in Spark Ignition Engine.(Evaluation in process).
4. Yadav Y.N., **Tiwari S.,** Special Design Sprocket with Chain Support (Efficiency Enhancement of Engine Mileage Improvement) (Evaluation in process).
5. Yadav Y.N., **Tiwari S., N**ew Design (Modification in Carburettor) Main Carburettor jet petrol engines. (Efficiency Enhancement of Engine Mileage Improvement) (Evaluation in process).



**Academic Achievements**

**ACADEMIC EXCELLENCE:**

* Awarded with the **CMI** **Level 5 Award in Management and Leadership for the completion of the AICTE/UKIERI Leadership & Management Programme** and will be felicitated by AICTE, New Delhi.
* Got responsibility of a **Coordinator to establish Incubation Centre in all Government Engineering Colleges of Uttar Pradesh.**
* **Appointed as a Margdarshak in AICTE for NBA** from June 15, 2019.
* **Appointed as Advisor (India)** of International Youth Fellowship (IYF) on December 19, 2019. IYF is a worldwide youth organization with its headquarters in South Korea and spread in 92 countries around the world, works for giving the best mind education for the betterment of the society.
* Honoured with **Global Education Award** for the untiring contribution to Promote Higher Education on September 10, 2019 by International Youth Fellowship (IYF), South Korea.
* Got **Certificate of Participation towards helping Krishna Engineering College** secure an All India Rank of 271 out of 2830 colleges participating in Internship Day 2019.
* Achieved **4 Star Rank** towards Institution Innovation Council (IIC) established at Krishna Engineering College, Ghaziabad has undertaken various activities prescribed by innovation Cell, Ministry of HRD, Govt. of India to promote Innovation
* Got **Certificate of Appreciation towards Great Contribution in Education Sector** by Rashtriya Shakshik Mahasangh, Uttar Pradesh.
* **Awarded for Excellence Academic Performance** for consecutive two years at G.L.A. Institute of Technology and Management, Mathura.
* Honored with **Corona COVID-19 Fighter (lsukuh)Award** by Drop Roball Federation of India for providing help to the public during the COVID-19 crisis.
* During his tenure as Director of Accurate Institute of Management and Technology, The institute was awarded as Best Private Engineering Institute, North India, by a committee constituted by the ABP National B-School Awards 2012.



**Membership**

* Life Member of **International Youth Fellowship (IYF), South Korea** from December 19, 2019.
* Life Member of **Institution of Engineers, India**.
* Member of **India Didactics Association**, Higher Education Leaders Community, India.



**Consultancy Services**

* Working for Slog Square Electromech Pvt. Ltd. as **Senior Consultant** from Aug 01, 2017 to till date.
* Working for Jyoti Cero Group as **Technical Consultant** from December, 2018 to till date.
* Working for Rosa tech. Pvt. Ltd. as **Technical Consultant** from April, 2021 to till date.
* Working for Long Straw Carbon as **Technical Consultant** from May, 2018 to till date.



**References**

|  |  |
| --- | --- |
| **Prof. P. C. Pandey,** Former Professor and Head  Mech.and Ind. Engg. Deptt.,University of Roorkee,  3/149, Vinaykhand, Gomti Nagar,  Lucknow-226010 Uttar Pradesh, India  Mobile: +91 94155 81955, 0522-239 1184 | **Prof. Harvendra Singh,** Former Director,  Bundelkhand Institute of Engineering and Technology (BIET), Jhansi, Uttar Pradesh, India  Mobile No.: +91 94153 59102 |
| **Prof. (Dr.) S.N.Gupta**  Former Professor and Head  Mechanical Engineering Department,  Institute of Technology-BHUVaranasi,  Uttar Pradesh, India  Mobile: +91 9415619561, 9718492002 | **Prof. (Dr.) J.K.Sharma,**  Former Prof. FMS, New Delhi  Amity Business School,  Amity University, Noida  Mobile No.: +91 09810068510 |



**Personal Dossier**

Father’s Name: Shri. Om Prakash Tiwari Nationality: Indian  
Birthday: April 26, 1971 Passport No.: L1906241 valid till 07/07/2023

Gender: Male

**Declaration**

I, Dr. Sandeep Tiwari, hereby declare that the information contained herein is true and correct to the best of my knowledge and belief.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
PROF. (DR). SANDEEP TIWARI Greater Noida, Uttar Pradesh

Date: 15.10.2021