

RESUME

Dr. Gyanendra Kumar Singh



Plot No-167, Pocket-A, Sector-Omicron-1A, Greater Noida (U.P) 201310

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Objective: To work whole-heartedly towards the achievements of goals and objectives of organization, using my creativity and outright positive attitude to build a force to work together.

Academic Qualification:

- **Ph.D.** in Mechanical Engineering from **Motilal Nehru National Institute of Technology, Prayagraj (Allahabad), Uttar Pradesh** in May 2011.
- **M.E.** in Production Engineering (Automated Manufacturing System) from **Birla Institute of Technology, Mesra, Ranchi (Jharkhand)** in March 2002 with First class (78.30%).
- **B.E.** in Mechanical Engineering from **SJM Institute of Technology, Chitradurga (Karnataka)** in August 1998 with First class (62.12%).

Experience:23years: Teaching-20 years, Research-3.2 Years

- **Working as a Professor and Head in Greater Noida Institute of Technology, Greater Noida, U.P. from 11 November 2024 to till date.**
Work Summary: Departmental Administration, Teaching (UG and PG), Research (Paper Publishing, Research Proposal Prepared for funded agency Like external and internal), University and AICTE affiliation, NAAC and NBA, Organizing Conference, Seminar, Lecture FDP, Developed the Research Labs, etc.
- **Worked as a Principal / Director in Laxmi Chand Institute of technology Bilaspur Chhattisgarh from 1 February 2024 to 31 October 2024.**
Work Summary: Administration, Teaching (UG, PG and Ph. D), Research (Paper Publishing, Research Proposal Prepared for funded agency Like external and internal), University and AICTE affiliation, NAAC and NBA, Head in Mechanical Engineering Department, Organizing Conference, Seminar, Lecture, Developed the Research Labs, etc.
- **Worked as an Associate Professor in Adama Science and Technology University, Adama, Ethiopia from 31 January 2020 to 25 January 2024.**
Work Summary: Teaching (UG, PG and Ph. D), Research (Paper Publishing, Research

Proposal Prepared for funded agency Like external and internal), Developing the Research Labs etc.

- **Worked as a *Lecturer* in Federal Technical Vocational Education and Training Institute, Addis Abba, Ethiopia from 22 October 2017 to 22 October 2019.**

Work Summary: Teaching (UG and PG), Research (Paper Publishing, Research Proposal Prepared for funded agency Like external and internal), Training Works, Developed the Research Labs etc.

- **Worked as a *Professor* in Amity University Uttar Pradesh, Noida from 1 February 2016 to 17 October 2017.**

Work Summary: Teaching (UG, PG and Ph. D), Research (Paper Publishing, Research Proposal Prepared for funded agency Like external and internal), NAAC and NBA In-charge in Mechanical Engineering Department, Organizing Conference, Seminar, Lecture, Developed the Research Labs, etc.

- **Worked as a Professor and Head in Bharat Institute of Technology, Meerut from 27 January 2015 to 15 January 2016.**

Work Summary: Teaching (UG and PG), Research (Paper Publishing, Research Proposal Prepared for funded agency), NBA In-charge in Mechanical Engineering Department, Organizing Seminar, Lecture, Developed the Labs etc.

- **Worked as a *Professor and Dean, Student Welfare* in Galgotias University, Greater Noida from 1 July 2011 to 31 May 2014.**

Work Summary: Teaching (PG and Ph. D), Research (Paper Publishing, Research Proposal Prepared for funded agency) and NAAC and NBA In charge in Mechanical Engineering Department, Organizing Seminar, Lecture, Student activity Organizing and Student related problem solving, Developed the Labs, Examination superintendent etc.

- **Worked as an *Associate Professor and Head* in Babu Banarasi das National Institute of Technology & Management, Lucknow from 14 September 2010 to 30 June 2011.**

Work Summary: Teaching (UG and PG), Research (Paper Publishing, Research Proposal Prepared for funded agency) and NAAC and NBA In-charge in Mechanical Engineering Department, Organizing Seminar, Lecture, Student related problem solving, Syllabus Development In-charge etc.

- **Worked as an *Institute Research Scholar* in M.N.N.I.T., Allahabad from 20 January 2008 to 13 September 2010.**

Work Summary: Research (Paper Publishing, Research Proposal Prepared for funded agency)

- **Worked as a *Assistant Professor* in IEC College of Engineering & Technology, Greater Noida from 15 January 2007 to 16 January 2008.**

Work Summary: Teaching (UG) etc.

- **Worked as a *Sr. Lecturer* in ITS Engineering College, Greater Noida from 14 August 2006 to 13 January 2007.**

Work Summary: Teaching (UG), Hostel Warden etc.

- **Worked as a *Lecturer* in Shobhit Institute of Technology, Gangoh, Saharanpur from 29**

Aug. 2002 to 14 Jun. 2006.

Work Summary: Teaching (UG) etc.

- **Worked as a Lecturer in S.J.M.I.T. Chitradurga (Karnataka) from 02 Sept. 1998 to 25 Jun. 2000.**

Work Summary: Teaching (UG) etc.

Research Interest:

- ✓ Machining of Advanced Materials
- ✓ Modeling, Optimization and Simulation of Machining Processes
- ✓ Advanced & Hybrid Manufacturing Processes
- ✓ Advanced Composite Materials
- ✓ Nano-fiber
- ✓ Biomimetic 4D Printing
- ✓ Bio Diesel Fuel Etc.

Research Activities: Detail Available in Annexure

Patent: 3

Paper Publications in International Journals: 68

Scopus Id: 57880652100,

SCI Profiles Id: 231367

Orchid Id: 0000-0003-3765-9071

Google scholar Id: scholar.google.com/citations?user=VG0dZxEAAAAJ&hl=en

Google citations: 1574

h- index-23,

i10- index-47

SCI, SCIE & ESCI Index: 36

Scopus Index: 30

Other Index: 3

Papers Publication in International Conferences: 23

Papers Publication in National Journal: 1

Papers Publication in National Conferences: 3

Book Chapter publication: 4

Membership:

- ✓ Life time member of *The Indian Society of Technical Education*(LM51786)
- ✓ Membership of the International Association of Engineers, IAENG membership number is: 500151.
- ✓ Membership of the IEEE, membership number is: 98618505

Computer Skills:

MINITAB Software, C, C++, Auto-Cad, Pro-E & Solid works.

Personal Strength:

Problem solving abilities, Creative minded, Reliable verbal and written communication skills

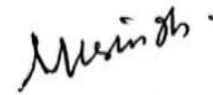
Personnel Details:

Father Name : Late S.N. Singh
Mother Name : Smt. Shanti Devi
Spouse Name : Nitu Devi
Children Names : Kritika Singh, Prabhakar Singh and Virat Singh
Date of Birth : 13/07/1973
Sex/Marital Status : Male / Married
Nationality : Indian
Passport Number : U0082422
Place of Issue : Addis Ababa, Date of Issue: 20/05/2019
Aadhaar No : 913930674889
PAN Number : AVXPS8846C
Languages known : English, Hindi
Permanent Address : Shanti Bhavan, Kailashpuri, Ara, Nearby West Railway Gumti,
Ara Dist. - Bhojpur (Bihar), Mobile No: 09955555237

References			
1) Name	Dr. B.K Singh	Contact No.	+918577095191
Professional Relationship	Mentor	E-mail	balkeshwar.singh@astu.edu.et
Job Title	Professor	Address	Adama Science and Technology University, Adama, Ethiopia
2) Name	Dr. N K Sharma	Contact No.	+919837921001
Professional Relationship	Mentor	E-mail	nksharma@gmail.com
Job Title	Group Director	Address	HRIT Group of Intuition, 8th Km Stone, Delhi-Meerut Road, Morta, Ghaziabad-201003 (U.P)
3) Name	Pro. JSP Rai	Contact No.	+919997974949
Professional Relationship	Teacher	E-mail	jsprai51@gmail.com
Job Title	Ex. Vice Chancellor	Address	Jaypee University of Engineering and Technology, Guna M.P. India

Date:

Place: Greater Noida



(Gyanendra Kumar Singh)

Annexure

Research Activities:

Patent:

1. Sharma S, Jacob S, Sharma R, Vates. U.K, **Singh G.K**, Srivastva P, “**An improve wiper for car window**” Filed Application number- 2016110325181A, International classification: B60R21. Publication date: 30/3/2018.

Abstract:

The present invention provides an improved wiper for car window with adjustable length. The wiper has one specific type of component throughout its length. A number of these components are repeatedly laid out coaxially. These contain the rubber strips on their underside to wash off rain water on the side window of car while the top part is plane. At the bottom of the mechanism is required a base which must be fixed but rotates along the axis perpendicular to the plane of the window. At the top, there is a simple device with wheels on its bottom which runs the length of the upper part of the window to facilitate the mechanism.

2. Title: “INTERMITTENT TYRE TUBE”

Novelty: “The novelty resides in the shape and configuration of the “INTERMITTENT TYRE TUBE” as illustrated”

Applicant Name: Karteek Navuri, Dr. Balkeshwar Singh, Dr. Rajeev Kumar, **Dr. Gyanendra Kumar Singh**

Application Number: 392688-001

Date: 14/08/2023

Agency: Controller General of Patents, Designs and Trademarks, Department of Industrial Policy and Promotion, Ministry of commerce and Industries, Government of India

3. Title: “Laboratory device for identification of drug content in human blood” (Certificate of Registration for a UK Design)

Applicant Name: Gunawan Widjaja, Dr. Indireddy Sreevani, **Gyanendra Kumar Singh**, Dr. Kudamala Raveendra, Gagan Varshney, Lt. Dr. Manoj Prabhakar Bearatty Shanmugam, Baibaswata Mohapatra, Dr. Bijaya Bijeta Nayak, Prof. Pradeep Devendra Gaikwad, Venkatesan Hariram

Design number: 6424071

Grant date: 24 February 2025

Registration date: 15 February 2025

Agency: International Design Classification: Version: 15-2025 Class: 24 Medical And Laboratory Equipment Subclass: 02 Medical Instruments, Instruments and Tools for Laboratory Use.

4. Title: Stir Casting Experimental Apparatus for Composite Manufacturing

Applicant Name: Md. Faiz Ahmad, Md. Atif., Sumit Kumar Verma, Shoaib Akhtar, Girendra Bhati, Syed, Qaisar Hussain, Sandeep Chauhan, Gyanendra Kumar Singh

Design No. : 455439-001

Date of issue: 18/07/2025

Registration date: 15/04/2025

Agency: Controller General of Patents, Designs and Trademarks, Department of Industrial Policy and Promotion, Ministry of commerce and Industries, Government of India

5. **Title:** Stir Casting Experimental Apparatus for Composite Manufacturing

Applicant Name: Md. Faiz Ahmad, Md. Atif, Sumit Kumar Verma, Shoaib Akhtar,

Girendra Bhati, Syed, Qaisar Hussain, Sandeep Chauhan, Gyanendra Kumar Singh

Design No. : 455439-001

Date of issue: 18/07/2025

Registration date: 15/04/2025

Agency: Controller General of Patents, Designs and Trademarks, Department of Industrial Policy and Promotion, Ministry of commerce and Industries, Government of India

Funded Project:

Topic: “Development of hybrid metal matrix composites based on Cu- TiC -SiC for different engineering applications.”

Agency: University Research and Community Service Council (URCSC), Adama Science and Technology University, Adama Ethiopia

Amount: 245,000 ETB

Duration: 2 years

Investigators: Dr. Gyanendra Kumar Singh, Dr. Devendra Kumar Sinha, Dr. Perumalla Janaki Ramulu, Mr. Mengistu Gelaw

Paper Publications in International Journals:

SCI/SCIE/ESCI Index:

1. B. Chandrasekhar Abothula, Vinod Yadava and **Gyanendra Kumar Singh**, Development and experimental study of electro-discharge face grinding. Materials and Manufacturing Processes, Taylor & Francis, 25(6), (2010), pp. 482 – 487. ISSN 1042-6914 (Print), 1532-2475 (Online), **Impact factor-5.07.(SCI Q1)** H-INDEX-96
2. **Gyanendra Kumar Singh**, Vinod Yadava and Raghuvir Kumar, Multi response optimization of electro-discharge diamond face grinding process using robust design of experiments. Materials and Manufacturing Processes, Taylor & Francis, 25,(2010), pp. 1-6. ISSN 1042-6914 (Print), 1532-2475 (Online), **Impact factor-5.07.(SCI Q1)** H-INDEX-96
3. **Gyanendra Kumar Singh**, Vinod Yadava and Raghuvir Kumar, Diamond face grinding of WC-Co composite with spark assistance: Experimental study and parameter optimization. International Journal of Precision Engineering and Manufacturing, Springer, 11(4),(2010), pp.509-518. ISSN: 2234-7593 (print version) ISSN: 2005-4602 (electronic version), **Impact factor-1.887.(SCI Q2)** H-INDEX-72
4. Ravindra Nath Yadav, Vinod Yadava and **Gyanendra Kumar Singh**, Application of Non-Dominated Sorting Genetic Algorithm for Multi-Objective Optimization of Electrical Discharge Diamond Face Grinding Process, Journal of Mechanical Science and Technology, Springer, 28(6), (2014), pp.2299-2306, ISSN: 1738-494X (print version) ISSN: 1976-3824 (electronic version). **Impact factor-1.734. (SCI Q2)** H-INDEX-78
5. Yashvir Singh, Abhishek Sharma, **Gyanendra Kumar Singh**, Amneesh Singla, Nishant Kumar Singh, Optimization of performance and emission parameters of direct injection

- diesel engine fuelled with pongamia methyl esters-response surface methodology approach. *Industrial Crops & Products*. 126, (2018), pp.218–226, ISSN: 0926-6690. **Impact Factor: 6.449. (SCI Q1)** H-INDEX-186
6. Nand Jee Kanu, Umesh Kumar Vates, **Gyanendra Kumar Singh**, Sachin Chavan, Fracture problems, vibration, buckling and bending analyses of functionally graded materials-a state-of-the-art review including smart FGMS, *Particulate Science and Technology*,37(5), (2019), pp. 583-608, doi.org/10.1080/02726351.2017.1410265, ISSN: 0272-6351 (Print) 1548-0046 (Online).**Impact Factor · 2.312. (SCI Q3)** H-INDEX-52
 7. Nand Jee Kanu, Eva Gupta, Umesh K Vates, **Gyanendra Kumar Singh**, Self-healing composites: A state-of-the-art review. *Journal Composites Part A: Applied Science and Manufacturing*. 121, (2019), pp. 474-486, ISSN: 1359-835X. **Impact Factor: 9.463, H-Index 152.(SCI Q1)** H-INDEX-227
 8. Nand Jee Kanu, Eva Gupta, Umesh Kumar Vates, **Gyanendra Kumar Singh**, An Insight into the Biomimetic 4D Printing, *Royal Society of Chemistry Advances*, DOI: 10.1039/c9ra07342f, 9 (2019), pp.38209-38226.ISSN: 2046-2069, **Impact factor: 4.036. (SCI Q1)** H-INDEX-230
 9. Nand Jee Kanu, Eva Gupta, Umesh Kumar Vates, **Gyanendra Kumar Singh**, Electrospinning Process Parameters Optimization for Bio-functional Curcumin / Gelatin Nano-fiber, *Material Research Express*,7(3), doi.org/10.1088/2053-1591/ab7f60, (2020), pp.1-38. Online ISSN: 2053-1591, **Impact factor: 2.025.(SCI Q2)** H-INDEX-75
 10. Nand Jee Kanu, Eva Gupta, Umesh Kumar Vates, **Gyanendra Kumar Singh**, Stochastic and deterministic mathematical modeling and simulation to evaluate the novel COVID-19 pandemic control measures, *American Journal of Infectious Diseases*,16 (4), (2020), pp. 135-170,ISSN: 1553-6203 (Print), ISSN: 1558-6340 (Online).(**ESCI**) H-INDEX-21
 11. Shreyash A. Sakhare, Sourabh M. Pendkar, Nand Jee Kanu, Eva Gupta, Umesh Kumar Vates, **Gyanendra Kumar Singh** & Girish C. Verma, Design suggestions on modified self-sustainable space toilet, *SN Applied Sciences*, Springer, 4,13, doi.org/10.1007/s42452-021-04878-w (2021). Electronic ISSN: 2523-3971. **Impact Factor. 2.114. (ESCIQ2).**
 12. Nand Jee Kanu, Eva Gupta, Umesh Kumar Vates, **Gyanendra Kumar Singh**, An insight into processing and properties of smart carbon nanotubes reinforced nano composites. *Smart Science*, Taylor & Francis, Vol: 10, Issue 1, Page 40-55 (2021). ISSN 2308-0477. **Impact Factor:2 (ESCI Q2)** H-INDEX-21
 13. Umesh Kumar Vates, Bhupendra Prakesh Sharma, **Gyanendra Kumar Singh**, Nand Jee Kanu, Eva Gupta, Modeling and Optimization of IoT Factors to Enhance Agile Manufacturing Strategy-based production system using SCM and RSM, *Journal: Smart Science*, Taylor & Francis, Vol: 10, Issue 2, Page 158-173, (2021), ISSN 2308-0477. **Impact Factor: 2 (ESCI Q2).** H-INDEX-21
 14. Birhane Assefa Gameda, Devendra Kumar Sinha, **Gyanendra Kumar Singh**, Abudulaziz H. Alghani, Vineet Tirth, Ali Algahtani, Getinet Asrat Mengesha, Gulam Mohammed Sayeed Ahmed and Nazia Hossain, Effect of sintering Temperatures, Reinforcement size

- on mechanical Properties and fortification mechanisms on the particle size distribution of B₄C, SiC and ZrO₂ in Titanium metal matrix composites, Materials, MDPI, 2022, 15, 5525, doi.org/10.3390/ma15165525.ISSN: 1996-1944,(2022). **Impact Factor:3.623 (SCIE Q2)** H-INDEXT-191
15. Biranu Kumsa Gonfa, Devendra Kumar Sinha, Umesh Kumar Vates, Irfan Anjum Badruddin, Mohamed Hussien, Sarfaraz Kamangar, **Gyanendra Kumar Singh**, Gulam Mohammed Sayeed Ahmed, Nand Jee Kanu and Nazia Hossain, Invesstigation of mechanical and tribological Behaviors of aluminum-based hybrid metal matrix composite and multi-objective optimization, Materials, MDPI, (2022), Volume:15, Issue:16, 5607, doi.org /10. 3390 /ma15165607. ISSN: 1996-1944. **Impact Factor: 3.623. (SCIE Q2)** H-INDEXT-191
 16. Rajat Kumar, Abhinav Saxena, Raj Kumar, Sanjay Marwaha, Jay Singh, **Gyanendra Kumar Singh**, A Comprehensive Overview on Modified Versions of Stockwell Transform for Power Quality Monitoring, IEEE Access, Volume:10, pp. 91963-91975, (2022), doi: 10.1109/ ACCESS.2022.3202309, Print ISSN: 2169-3536, Online ISSN: 2169-3536. **Impact Factor: 3.367. (SCIE Q1)** H-INDEXT-290
 17. Sachin Chavan, Nand Jee Kanu, Sachin M. Shendokar, Balkrishna Narkhede, Mukesh Sinha, Eva Gupta, **Gyanendra Kumar Singh**, Umesh Kumar Vates, An insight into nylon 6,6 nano-fibers interleaved E-glass fiber reinforced epoxy composites, Journal of Institution of Engineer (India): Series C, Volume: 104(1), pp.15-44, doi.org/10.1007/s40032-022-00882-0, (1 November 2022) Print ISSN:2250-0545, Electronic ISSN: 2250-0553. **Impact Factor: 1.312. (SCI Q3)** H-INDEXT-29
 18. Ashish Kumar Srivastava, Suryank Dwivedi, Ambuj Saxena, Deepak Kumar, Amit Raj Dixit, **Gyanendra Kumar Singh**, Javed Khan Bhutto, Rajesh Verma, Tribological characteristics Al359/Si3N4/Eggshell surface composite produced by friction stir processing, Coatings, MDPI, (2022), 12, 1362, pp.1-12, doi.org/ 10.3390/ coatings 12091362, ISSN: 2079-6412.**Impact Factor: 3.236. (SCIE Q2)** H-INDEXT-191
 19. Abhinav Saxena, Rajat Kumar, Jay Singh, **Gyanendra Kumar Singh**, Sampath Kumar V, J P Pandey, An Invasive Weed Optimization for Sensor Less Control of Grid Integrated Wind Driven Doubly Fed Induction Generator, IEEE Access, Volume:10, pp:109082-1-9096, (2022), doi: 10.1109/ ACCESS. 2022.3213982, Print ISSN: 2169-3536, Online ISSN: 2169-3536. **Impact Factor: 3.367. (SCIE Q1)** H-INDEXT-290
 20. Abhinav Saxena, Rajat Kumar, Arun Kumar Rawat, Mohd Majid, Jay Singh, Devakirubakaran S, **Gyanendra Kumar Singh**, Abnormal health monitoring and assessment of three phase induction motor by using supervised CNN-RNN based machine learning algorithm, Mathematical Problems in Engineering, Hindawi Limited, doi.org/ 10.1155/2023/1264345, Vol. 2023, Article Id 1264345, (2023), ISSN: 1024123X, 15635147. **Impact Factor: 1.576.(SCIEQ2)** H-INDEXT-95
 21. Manoj Kumar, Syed Sadique Anwer Askari, Purnendu Shekhar Pandey, Yadvendra Singh, Rajesh Singh, Sanjeev Kumar Raghuwanshi, **Gyanendra Kumar Singh**, Santosh Kumar, Experimental investigation and DFT study of tin-oxide for its application as light absorber

- layer in optoelectronic devices, IEEE Access, doi: 10.1109/ACCESS.2023.3252890, Volume :11, pp.23347-23354, (2023), Print ISSN: 2169-3536, Online ISSN: 2169-3536. **Impact Factor: 3.36.7(SCIE Q1)** H-INDEXT-290
22. Rabesh Kumar Singh, Mahesh Shindhe, Prashant Rawat, Ashish Kumar Srivastava, **Gyanendra Kumar Singh**, Rajesh Verma, Javed Khan Bhutto and Hany S. Hussein, The Effect of Various Contaminants on the Surface Tribological Properties of Rail and Wheel Materials: An Experimental Approach, Coatings, MDPI, doi.org/10.3390/coatings13030560, pp.-1-14, (2023), ISSN: 2079-6412. **Impact Factor: 3.236. (SCIE Q2)** H-INDEXT-85
23. Mohd. Majid, Love Goel, Abhinav Saxena, Ashish Kumar Srivastava, **Gyanendra Kumar Singh**, Rajesh Verma, Javed Khan Bhutto, Hany S. Hussein, Firefly algorithm and neural network employment for dilution analysis and Study the Effect of GTA Cladding Parametric Variation on SDSS Clads over AISI 1020 Steel, Coatings, MDPI, doi.org/ 10.3390/coatings13050841,13, 841, pp.-1-24, (2023), ISSN: 2079-6412. **Impact Factor: 3.236.(SCIEQ2)**. H-INDEXT-85
24. Aditya Singh, Ashish Kumar Srivastava, **Gyanendra Kumar Singh**, Akash Deep Singh, Hritik Kumar, Ajay Kumar, Gyanendra Kumar Singh, Utilization of plastic waste for developing composite bricks and enhance mechanical properties: A review on challenges and opportunities, Advances in Polymer Technology, Hindawi Limited, doi.org/ 10.1155/2023/6867755, Vol:2023, pp-1-24, (2023),ISSN: 1098-2329. **Impact Factor: 3.1, (SCIEQ2)**. H-INDEXT-60
25. Chandra Prakash, Anurag Barthwal, **Gyanendra Kumar Singh**, Shwetank Avikal, FSAS: An IoT-based Security System for Crop Field Storage, International Journal of Distributed Sensor Networks, doi.org/10.1155/2023/2367167,Vol: 2023, pp.-1-13, Hindawi Limited, (2023), Online ISSN: 1550-1477. **Impact Factor: 2.300,(SCIQ2)**. H-INDEXT-73
26. Abhishek Kaushal, Anuj Kumar Sharma, Ashish Kumar Srivastava, **Gyanendra Kumar Singh**, Color-Coded Light Signals based Communication for Swarming Behaviors in Mobile Robotic System, Journal of Sensors, doi.org/10.1155/2023/8660847, (2023),Hindawi Limited, Vol:2023, pp.1-15, ISSN: 1687-7268 (Online). **Impact Factor: 1.9,(SCIEQ3)**. H-INDEXT-70
27. Awaneendra Kumar Tiwari, Kalyan Chatterjee, Sanjay Agrawal, **Gyanendra Kumar Singh**, Performance evaluation and contemporary development of photovoltaic-thermal (PVT) technology: A comprehensive review, Energy Reports, doi.org/10.1016/j.egy.2023.09.043, 10 (2023), pp. 2655–2679, ISSN 2352-4847. **Impact Factor: 4.9, Impact Factor: 1.9, (SCIEQ1)**. H-INDEXT-108
28. Nirmal Kumar Agarwal, Manish Prateek, Abhinav Saxena, **Gyanendra Kumar Singh**, A Novel Design of Hybrid Fuzzy Poisson Fractional Order Proportional Integral Derivative Controller for the Wind Driven Permanent Magnet Synchronous Generator, IEEE Access, doi: 10.1109/ACCESS.2023.3329941, (2023), Print ISSN: 2169-3536, Online ISSN: 2169-3536. **Impact Factor: 3.367. (SCIE Q1)** H-INDEXT-290

29. Helen Tadesse, Balkeshwar Singh, Habtamu Deresso, Shimelis Lemma, **Gyanendra Kumar Singh**, Ashish Kumar Srivastava, Namrata Dogra, Ajay Kumar, Investigation of production bottlenecks and productivity analysis in soft drink industry: a case study of East Africa Bottling Share Company, International Journal on Interactive Design and Manufacturing (IJIDeM), doi.org/10.1007/s12008-023-01715-9,(2024),pp.1-13, ISSN: 19552505, 19552513.**Impact Factor: 2.1(ECI Q2)** H-INDEXT-44
30. Md. Abul Kalam, Abhinav Saxena, Md. Zahid Hassnain, Amit Kumar Dash, Jay Singh, **Gyanendra Kumar Singh**, An explicit investigation in demand side management based on artificial intelligence techniques, IEEE Access Doi Number 10.1109/ACCESS.2022, (2024), Print ISSN: 2169-3536, Online ISSN: 2169-3536. **Impact Factor: 3.367. (SCIE Q1)** H-INDEXT-290
31. Manoj Kumar, Purnendu Shekhar Pandey, Banoth Ravi, Bittu Kumar, SVS Prasad, Rajesh Singh, Santosh Kumar Choudhary, **Gyanendra Kumar Singh**, Impact of Sn-doping on the optoelectronic properties of zinc oxide crystal: DFT approach, PLOS ONE, doi.org/10.1371/journal.pone.0296084,(2024),ISSN:19326203,**Impact Factor: 3.730. (SCIE Q1)** H-INDEXT-467
32. Manoj Kumar, Vivek Kumar Srivastava, M. Sudhakara Reddy, Ram Bharos Yadav, Manoj Sharma, Amrindra Pal, Purnendu Shekhar Pandey, Yadendra Singh, **Gyanendra Kumar Singh**, Balkeshwar Singh, Experimental investigation of Si/SnOx hetero junction for its tunable optoelectronic properties, IEEE Photonic Journal,(2024), DOI: 10.1109/JPHOT.2024.3452514, Volume: 16, Issue: 5,pp: 1-7, Print ISSN: 1943-0655, Online ISSN: 1943-0655,**Impact factor: 2.250,(Web of Science Q2)** H-INDEXT-100
33. Balkeshwar Singh,Manoj Kumar, Purnendu Shekhar Pandey, Vivek Kumar Srivastava, M. Sudhakara Reddy, Anita Gehlot, Yadendra Singh, Gyanendra Kumar Singh, Two-dimensional Graphene/MoS2 vertical heterostructure for detection of hemoglobin concentration in blood samples PONE-D-24-25438R1, doi.org/10.1371/journal.pone.0310166 PLOS ONE, (2024), ISSN: 19326203, **Impact Factor: 3.730. (SCIE Q1)** H-INDEXT-467
34. Azhar Shadab; Purnendu Shekhar Pandey; Ankit Kumar; Sanjeev Kumar Raghuvanshi, Mahaveer Singh Naruka; Rajesh Singh; Manoj Kumar; Gyanendra Kumar Singh; Balkeshwar Singh, Real-Time Assessment of Mental Stress through HRV Analysis for the Prediction of Cardiovascular Disease, PLOS ONE, (2024),ISSN: 19326203, **Impact Factor: 3.730. (SCIE), Accepted (SCIE Q1)** H-INDEXT-467
35. Md. Abul Kalam Abhinav Saxena Md. Zahid Hassnain Amit Kumar Dash Jay Singh **Gyanendra Kumar Singh**, An Explicit Investigation in Demand Side Management Based on Artificial Intelligence Techniques, IEEE Access (Volume: 12), DOI: 10.1109/ACCESS.2024.3432805, pp: 178928 – 178940, (2024),Electronic ISSN: 2169-3536,**Impact Factor: 3.367. (SCIE Q1)** H-INDEXT-290.
36. Manoj Kumar , "Purnendu Shekhar Pandey , M. Sudhakara Reddy Anita Gehlot "Santosh Kumar Choudhary, Gyanendra Kumar Singh and Balkeshwar Singh, Investigating SnOx/Graphene Oxide Hetero-structure for Methane Sensing and Its Application as a

Tunable Light Absorber for Optoelectronic Devices, PLOS ONE, doi.org/10.1371/journal.pone.0326657, (2025), ISSN: 19326203, **Impact Factor: 3.730. (SCIE), (SCIE Q1)** H-INDEX-467.

37. Nand Jee Kanu, Eva Gupta, Umesh Kumar Vates, **Gyanendra Kumar Singh**, B.P. Sharma, Analysis of 3D Printed PLA/Carbon Fibres Composite Gears" (IJDM-D-24-01015). International Journal on Interactive Design and Manufacturing (IJIDeM), ISSN: 19552505, 19552513. Impact Factor: 2.1 **(ESCI Q2)** (Under review)
38. Nand Jee Kanu, Eva Gupta, Umesh Kumar Vates, **Gyanendra Kumar Singh**, Advancing to the next generation: Breakthroughs in Self- Healing Composites, Journal Composites Part A: Applied Science and Manufacturing. ISSN: 1359-835X. **Impact Factor: 9.463, H- Index 152. (SCI Q1)** (Under review)

Scopus Index:

1. **Gyanendra Kumar Singh**, Vinod Yadava and Raghuvir Kumar, Experimental study and parameter optimization of electro-discharge diamond face grinding. International Journal of Abrasive Technology, Inderscience Publishers, 4, (2011), pp. 14 - 40. ISSN online: 1752-265X ISSN print: 1752-2641. **(Scopus Q3)** H-INDEX-17
2. **Gyanendra Kumar Singh**, Vinod Yadava and Raghuvir Kumar, Robust parameter design and multi-objective optimization of electro-discharge diamond face grinding of HSS. International Journal of Machining and Machinability of Materials, Inderscience Publishers, 11(1), (2012), pp. 1-19. ISSN online: 1748-572X, ISSN print: 1748-5711 **(Scopus Q3)** H-INDEX-31
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7. Ravindra Nath Yadav, Vinod Yadava and **Gyanendra Kumar Singh**, Multi-Objective Optimization of Process Parameters in Electro-Discharge Diamond Face Grinding based on ANN-NSGA-II Hybrid Technique, *Frontiers of Mechanical Engineering*, Springer, 8(3),(2013), pp.319-332. SSN: 2095-0233 (print version) ISSN: 2095-0241 (electronic version) **Impact factor: 0.874 (Scopus Q1)** H-INDEXT-48
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9. Ravindra Nath Yadav, Vinod Yadava and **Gyanendra Kumar Singh**, Modelling and simulation of Spark Assisted Diamond Face Grinding of Tungsten Carbide- Cobalt Composite using ANN, *International Journal of Manufacturing Technology and Management*, Inderscience Publishers, 28(1/2/3), (2014), pp.146 – 163. ISSN online: 1741-5195ISSN print: 1368-2148 **(Scopus Q4)** H-INDEXT-26
10. Prashant Sinha, Rajeev Kumar, **Gyanendra Kumar Singh**, Dain Thomas, Tushar Srivastav, Optimization of wire EDM of AISI D3 tool steel using orthogonal array with principal component analysis, *Materials Today: Proceedings*, Elsevier, 2(4–5), (2015),pp.2512-2521.ISSN: 2214-7853.**(Scopus)** H-INDEXT-0.585
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12. Dain Thomas, Rajeev Kumar, **Gyanendra Kumar Singh**, Prashant Sinha, Sachin Mishra, Modelling of process parameters in coated wire electric discharge machining through response surface methodology, *Materials Today: Proceedings*, Elsevier, 2(4–5), (2015), pp.1642-1648.ISSN: 2214-7853. **(Scopus)** H-INDEXT-0.585
13. Dain Thomas, Rajeev Kumar, **Gyanendra Kumar Singh**, Prashant Sinha, Sachin Mishra, Modelling of Surface Roughness in Coated Wire Electric Discharge Machining Through Response Surface Methodology, *Materials Today: Proceedings*, Elsevier, 2(4–5), (2015),pp.3520–3526.ISSN: 2214-7853.**(Scopus)** H-INDEXT-0.585
14. Himanshu Gupta, Umesh Kumar Vates, Shubham Sharma, **Gyanendra Kumar Singh** and Vivek Kumar, Optimization of Influencing Drilling Parameters in HSS T1 Using Response Surface Methodology, *Middle-East Journal of Scientific Research* 24 (10), (2016),pp. 3067-3077, ISSN: 1990-9233. **(Scopus Q1)**
15. Shubham Rai, S.K. Prashant, Anurag Kumar, Rahul, Mishra, Umesh Kumar Vates and **Gyanendra Kumar Singh**, Optimization of Process Parameters in Ti-6Al-4V During CNC Turning, *Middle East Journal of Scientific Research*, 25 (5),(2017), pp. 939-949. ISSN 1990-9233, **(Scopus Q1)**
16. Bhupendra Prakash Sharma, **Gyanendra Kumar Singh**, Umesh Kumar Vates & Gopal Nandan, Implementation of Agile Manufacturing Technique in the Indian Engineering

- Industries using Interpretive Structural Modeling Approach, International Journal of Recent Research Aspects, 4(2), (June 2017), pp. 134-138, ISSN:2349- 7688.(Scopus).
17. Rajat Sharma, Umesh Kumar Vates, **Gyanendra Kumar Singh**, Electrical Discharge Diamond Grinding (EDDG): A Review, Advances in Engineering Design, (2019), pp. 523-533, Lecture Notes in Mechanical Engineering. Springer, Singapore, doi.org/10.1007/978-981-13-6469-3_49. Print ISBN: 978-981-13-6468-6, Online ISBN: 978-981-13-6469-3.(Scopus).
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 24. Eva Gupta, Nand Jee Kanu, Monika S. Agrawal, Ashwin A. Kamble, Alimoddin N. Shaikh Umesh Kumar Vates, **Gyanendra Kumar Singh**, Sachin S. Chavan, An insight into numerical investigation of bioreactor for possible oxygen emission on mars, Materials Today: Proceedings, Elsevier.doi.org/10.1016/j.matpr.2021.04.059, Volume 47, Part 14, Pages 4149-4154 (2021), ISSN: 2214-7853. (Scopus). H-INDEX-0.585

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27. Vivek Pandey, Addisu Bekele, Gulam Mohammed Sayeed, and Nand Jee Kanu, **Gyanendra Kumar Singh**, An Application of Conjugate Gradient Technique for Determination of Thermal Conductivity as an Inverse Engineering Problem, *Materials Today: Proceedings*, Elsevier.doi.org/10.1016/j.matpr.2021.06.073, Volume 47, Part 11, Pages 3082-3087 (2021), ISSN: 2214-7853.(**Scopus**). H-INDEXT-0.585
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29. Subodh M. Kale, Piyush M. Kirange, Tushar V. Kale, Nand Jee Kanu, Eva Gupta, Sachin S. Chavan, Umesh Kumar Vates, **Gyanendra Kumar Singh**, Synthesis of Ultrathin ZnO, Nylon-6,6, and Carbon Nano-fibers using Electro-spinning Method for Novel Applications, *Materials Today: Proceedings*, Elsevier.doi.org/ 10.1016/j.matpr.2021.06.289, Volume 47, Part 11, pp. 3186-3189, (2021), ISSN: 2214-7853. (**Scopus**) H-INDEXT-0.585
30. Umesh Kumar Vates, Nand Jee Kanu, Eva Gupta, **Gyanendra Kumar Singh**, Naveen Anand Daniel and Bhupendra Prakash Sharma, Optimization of FDM 3D Printing Process Parameters on ABS based Bone Hammer using RSM Technique, *IOP Conference Series: Materials Science and Engineering*,1206 (2021) 012001, pp.1-12, IOP Publishing, doi:10.1088/1757-899X/1206/1/012001. Online ISSN: 1757-899X, Print ISSN: 1757-8981. (**Scopus**)
31. Nand Jee Kanu, Eva Gupta, Umesh Kumar Vates, **Gyanendra Kumar Singh**. Bio-functional Nano-fibers and Self-Healing Biomaterials: Innovations and Applications, *Frontiers in Bioengineering and Biotechnology – Journal* (**Scopus Q1**) (**Under review**)
32. Dr. Nand Jee Kanu., Eva Gupta., Gyanendra Kumar Singh, Radiation-Tolerant Coatings for Extreme Environments: Advancements in Ceramics, Composites, and Coating Techniques for Nuclear and Aerospace Applications, *Frontiers in Nuclear Engineering*, ISSN :28133412, **Impact Factor: 0.27**. (**Scopus**) (**SCIE Q3**) H-INDEXT-6.

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1. **Gyanendra Kumar Singh**, N. K. Chauhan, Rajeev Kumar and V. Yadava, Grey Relational Analysis Coupled with Principal Component Analysis for Optimization Design of the Machining Parameters in Electro-Discharge Diamond Face Grinding, International Journal of Current Engineering and Technology, Special Issue-2, (2014), pp. 23-27. ISSN: Electronic-2277 – 4106, 2347 – 5161. **(Impact Factor: 1.274)**.
2. Rajeev Kumar, Anmol Bhatia, Somnath Chattopadhyaya, Sanjeev Kumar and **Gyanendra Kumar Singh**, Multi-objective Optimization of Wire Electric Discharge Machining of EN31 Tool Steel using Orthogonal array with Principal Component Analysis, International Journal of Current Engineering and Technology, 4(2), (2014), pp.1027-1033.ISSN: Electronic-2277 – 4106, Print-2347 – 5161. **(Impact Factor: 1.274)**.
3. Sachin Sharma, Akash Singh, Shubham Sharma, Umesh Kumar Vates &**Gyanendra Kumar Singh**, Optimization of Cutting Parameters in Steel During CNC Turning, The International Journal of Emerging Technology and Advanced Engineering ,7(9), (2017), pp.311-322 September. ISSN: 2250-2459, **UGC Approval ID 42256**.

Papers Publication in International Conferences:

1. **Gyanendra Kumar Singh**, Vinod Yadava and Raghuvir Kumar, Application of Taguchi method in the optimization of machining parameters for material removal rate in electro-discharge diamond face grinding, Proceedings of the International Conference on Advances in Mechanical and Building Sciences in the 3rd millennium (ICAMB2009) at VIT University, Vellore, December 14-16, 2009, pp. 880-884.
2. **Gyanendra Kumar Singh**, Vinod Yadava and Raghuvir Kumar, Multi-objective optimization of electro-discharge diamond face grinding process based on the Taguchi methodology, Proceedings of the International Conference on Advances in Mechanical Engineering (ICAME-2010) at Sardar Vallabhbhai National Institute of Technology, Surat, January 4-6, 2010, pp. 727-731.
3. **Gyanendra Kumar Singh**, Vinod Yadava and Raghuvir Kumar, Robust parameter design and multi-objective optimization of electro-discharge diamond face grinding of HSS, Proceedings of the 36th International Conference (MATADOR-10) at University of Manchester, Manchester, UK, July 14 -16, 2010, pp. 429-433.ISBN978-1-84996-431-9,Online ISBN978-1-84996-432-6.
4. **Gyanendra Kumar Singh**, Vinod Yadava and Shyam Sunder Agarwal, Comparative study of EDFM, EDFG and EDDFG of HSS, Proceedings of the All-India Manufacturing Technology, Design and Research (AIMTDR-2010), at Andhra University, December 13-15, 2010, Vol.1, pp.171-175.
5. **Gyanendra Kumar Singh**, Vinod Yadava and Raghuvir Kumar, Study of the parameters in electro-discharge diamond face grinding through response surface methodology approach,

Proceedings of the 2nd International Conference on Mechanical, Industrial and Manufacturing Technologies (MIMT-2011) at Singapore, February 26-28, 2011 Vol.1, pp.637-642.

6. Ravindra Nath Yadav, Vinod Yadava and **Gyanendra Kumar Singh**, Intelligent modeling of electro-discharge diamond face grinding, Proceedings of the International Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering, at Punjab Technical University, Kapurthala (Punjab), October 5-7, 2012, pp. 399-403.
7. Ravindra Nath Yadav, Vinod Yadava and **Gyanendra Kumar Singh**, Modeling Spark Assisted Diamond Face Grinding of Tungsten Carbide- Cobalt (WC-Co) Composite, Proceedings of the 4th International & 25th All India Manufacturing Technology Design and Research (AIMTDR-2012) Conference to be held in the Department of Production Engineering, Jadavpur University, Kolkata, India, during 14th to 16th December, 2012, Vol. 1, pp.379-383.
8. **Gyanendra Kumar Singh**, Vivek Kumar, Umesh Kumar Vats, Gopal Nandan, Parametric Analysis of Electro-Discharge Diamond Face Grinding of HSS Using Regression Analysis, Proceedings of the 3rd International Conference on Manufacturing Excellence (MANFEX-2016) conference to be held in the Department of Mechanical Engineering, Amity University Uttar Pradesh, Noida, India, during 17&18 March, 2016, pp.36-41.
9. Umesh Kumar Vats, Vivek Kumar, **Gyanendra Kumar Singh**, Shubham Sharma, Modelling & Optimization of Honing Parameters of AISI 302 Cylinder Liners Using RSM Technique, Proceedings of the 3rd International Conference on Manufacturing Excellence (MANFEX-2016) conference to be held in the Department of Mechanical Engineering, Amity University Uttar Pradesh, Noida, India, during 17&18 March, 2016, pp.42-49.
10. Sanjeev Kumar, Gopal Nandan, **Gyanendra Kumar Singh**, Numerical Study of Natural Convection and Radiative Heat Transfer of Heated Inner Cylinder Placed Inside A Isothermally Cooled Circular Enclosure, Proceedings of the 3rd International Conference on Manufacturing Excellence (MANFEX-2016) conference to be held in the Department of Mechanical Engineering, Amity University Uttar Pradesh, Noida, India, during 17&18 March, 2016, pp.179-183.
11. Rajeev Kumar, R.K. Shukla, **Gyanendra Kumar Singh**, Vivek Kumar, Optimization of Process Parameters of Electric Discharge Machining of EN44 Tool Steel for Making Circular Hole, Proceedings of the 2nd International Conference on Advancements and Recent Innovations in Mechanical, Production and Industrial Engineering conference to be held in Department of Mechanical Engineering, I.T.S Engineering College, Greater Noida, Uttar Pradesh, India during 15 & 16 April, 2016, pp.191-196.
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13. Harshita Khangarot, Shubham Sharma, Umesh Kumar Vates, **Gyanendra Kumar Singh**, Vivek Kumar, Optimization of Surface Grinding Process Parameters through RSM, Proceedings of the 1st International Conference on "Modern Research in Aerospace Engineering"(MRAE 2016), conference to be held in the Amity Institute of Aerospace Engineering, Amity University Uttar Pradesh, India during 22-23 September, 2016, pp.33.
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15. Sahil Sharma, **Gyanendra Kumar Singh**, Umesh Kumar Vates, Sushil Kumar, Experimental Investigation and Optimization of Surface Roughness of Die Steel in WEDM Process with Influence of Heat Treatment, Proceedings of the 6th International and 27th All India Manufacturing Technology, Design and Research (AIMTDR) conference will be organized at College of Engineering Pune from December 16 to December 18, 2016.
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18. Ishita Gupta, Gauri Tyagi, Satpal Sharma, **Gyanendra Kumar Singh** and Rajeev Kumar, "Experimental Investigations into spark erosion drilling of Ti-alloy", 3rd International Conference on Advancements and Recent Innovations in Mechanical, Production and Industrial Engineering (ARIMPIE-2017), at I.T.S Engineering College, Greater Noida (UP), April 21-22, 2017.
19. N. Kadian, K. Sejwal, M. Farooquee, I. Ansari, B. P. Sharma, **Gyanendra Kumar Singh**, "Modelling the Leagile Manufacturing Implementation Barriers: An ISM Approach" 3rd International Conference on Advancements and Recent Innovations in Mechanical, Production and Industrial Engineering (ARIMPIE-2017), at I.T. S Engineering College, Greater Noida (UP), April 21-22, 2017.
20. Rajeev Kumar, **Gyanendra Kumar Singh**, Umesh Kumar Vates and B.P. Sharma, "Analysis and Experimental Study of Electrical Discharge Face Grinding on Tungsten Copper Alloy", 10th International Conference on Precision, Meso, Micro and Nano Engineering

(COPEN10,2017), at Indian Institute of Technology Madras, Chennai, December, 7-9, 2017, pp. 680-685. ISBN: 978-93-80689-28-9.

21. Umesh Kumar Vates, Nand Jee Kanu, Eva Gupta and **Gyanendra Kumar Singh**, Review Article: Recent advances in self-healing composites, 1st International Conference on Future Learning Aspects of Mechanical Engineering (FLAME - 2018) conference to be held in the Department of Mechanical Engineering, Amity University Uttar Pradesh, Noida, India.
22. Rajat Sharma, **Gyanendra Kumar Singh**, Electrical Discharge Diamond Grinding (EDDG): A Review, 1st International Conference on Future Learning Aspects of Mechanical Engineering (FLAME - 2018) conference to be held in the Department of Mechanical Engineering, Amity University Uttar Pradesh, Noida, India.
23. Umesh Kumar Vates, Bhupendra Prakash Sharma, **Gyanendra Kumar Singh**, Nand Ji Kanu and Vivek Kumar, Optimization of Critical Process Parameters of Tungsten Carbide in Electro Discharge Drilling, 1st International Conference on Future Learning Aspects of Mechanical Engineering (FLAME - 2018) conference to be held in the Department of Mechanical Engineering, Amity University Uttar Pradesh, Noida, India.

Papers Publication in National Journal

1. Umesh Kumar Vates, **Gyanendra Kumar Singh**, Tanmay Jain, “Change in Microstructure of Heat Treated Ti6Al4V Alloy in Different Temperatures and Strain Rate” Journal of Manufacturing Engineering, 12(3), 2017; pp. 174-178.

Papers Publication in National Conferences:

1. **Gyanendra Kumar Singh**, Vinod Yadava and Raghuvir Kumar, Optimal parameter design for electro-discharge diamond face grinding using the Taguchi method, Proceedings of the National Conference on Recent Advances in Manufacturing (RAM-2010), at Sardar Vallabhbhai National Institute of Technology, Surat, July 19-21, 2010, pp.108-113.
2. **Gyanendra Kumar Singh**, Vinod Yadava and Raghuvir Kumar, Application of Taguchi method for parametric design during electro-discharge diamond face grinding, Proceedings of the National Conference on Recent Advances in Manufacturing Technology and Management (RAMTM) at Jadavpur University, Kolkata, February 19 - 20, 2010, pp. 236-241.
3. **Gyanendra Kumar Singh**, Vinay Sharma, Design and development of experimental based water jet cutting system for Indian mining industry, Proceedings of the National Conference on Conference of Mechanical Engineering and Technology (COMET) Institute of Technology (BHU), Varanasi, February 2 - 3, 2002.

Book/ Chapter publication

1. Khangarot. H, Sharma. S, Vates. U.K, **Singh. G.K**, “Optimization of Surface Grinding Process Parameters through RSM”, Proceedings of the International Conference on Modern Research in Aerospace Engineering, chapter 29, springer book. (Scopus based), BookISBN: 978-981-10-5848-6, Book ID: 428151_1_En, Page: 291-302.2018.
2. Nand Jee Kanu, Eva Gupta, Umesh Kumar Vates, **Gyanendra Kumar Singh**, “An insight into smart self-lubricating composite” Publisher: Elsevier; Book: Smart Polymer Nanocomposites (3rd Chapter: Processing and Properties of smart polymer composites), ISBN: 978-0-12-819961-9 (Print), ISBN: 978-0-12-819961-1(Online), doi.org/10.1016/B978-0-12-819961-9.00012-8,pp.85-98, 2021.
3. Nand Jee Kanu, Eva Gupta, Umesh Kumar Vates, **Gyanendra Kumar Singh** “An insight into bio-functional curcumin/gelatin nano-fibers”, Publisher: Intech Open; Book: Nanofibers DOI: dx.doi.org/10.5772/intechopen.97113, pp.1-22, 2021.
4. Umesh Kumar Vates, Nirav Khattar, Rohit Kumar, Ansh Bhardwaj, Bhupendra Prakash Sharma, Nand Jee Kanu, Eva Gupta, **Gyanendra Kumar Singh**, Sivaraos Subramanian, “Al 6063 Hybrid Metal Matrix Reinforced Composites with TiC Nano-particles and NEEM Leaf Ash Using Stir Casting Method”, Advances in Engineering Materials. Select Proceedings of FLAME 2022, Lecture Notes in Mechanical Engineering book series (LNME), doi:/10.1007/978981-99-4758-4_6,pp 51–65, 2023, Print ISBN: 978-981-99-4756-7.

Project Undertaken:

- Electro-Discharge Diamond Face Grinding: Development, Modeling and Optimization in Ph.D.
- Design and development of experimental setup of water jet cutting system for Indian mining industry in M.E.
- Flat plate solar collector built with building material in B.E.

Faculty Development Course & Workshop Attended:

1. One week National Faculty development Programme on “Generative AI: Transforming Innovation in Technology and Education 2.0” at NMIMS Indore, India from 07/07/2025 to 11/07/2025.
2. Five -Day National workshop on “Functional Materials for sustainably: Processing and Applications” at Jaypee University of Engineering and Technology, Guna (Madhya Pradesh), India from 12/05/2025 to 16/05/ 2025.
3. AICTE Sponsored Faculty Development Program on IDEA Lab at Deenbandhu Chhotu Ran University of Science and Technology Murthal (Sonipat) from 05th to 09th May, 2025.
4. Five -Day National workshop on “Finite Element Analysis of Engineering Systems” at Sardar Patel College of Engineering, Andheri (W) Mumbai, India from 26/04/2025 to 30/04/ 2025.

5. FDP on NEP-2020: Orientation & Sensitization under Malaviya Mission – Teacher Training Programme (MM-TTP) of University Grants Commission (UGC), MoE, GoI, organized by UGC- MMTTC, JNV University, Jodhpur, Rajasthan, from 24 February to 04 March 2025.
6. One week National Level Faculty Development Program on “Shape Memory Alloys & Composite Materials” at Sardar Patel College of Engineering, Andheri (W) Mumbai from 4/02/2025 to 8/02/ 2025.
7. AICTE Training and Learning (ATAL) Academy Faculty Development Program on “Smart Manufacturing Technologies aligned with Industry 4.0: Challenges and Opportunities” at Punjab Engineering College deemed to be university from 06/01/2025 to 11/01/2025.
8. One week Faculty Development Program on “Natural fiber composites and Additives Manufacturing” at Easwari Engineering College, Chennai from 18/11/2024 to 23/11/2024
9. AICTE Training And Learning (ATAL) Academy Faculty Development Program on “Challenges and Innovations in Different Energy Storage Technologies” at JSS Academy of Technical Education, Noida from 16/12/2024 to 21/12/2024.
10. Faculty Development Course attended in “Computer aided design (CAD)” (Hindustan College of Science & Technology, Farah, Mathura).
11. Attended the workshop at UPTU, Lucknow on the topic of “Contemporary pedagogical approaches in operation management”.