Biodata (Dr. Sunil Dhingra)

Office

ME-304, Department of Mechanical Engineering. University Institute of Engineering and Technology Kurukshetra University, Kurukshetra, Haryana India-136118

Personal Details

| Date of Birth | : 08.06.1981 |
|-----------------|---------------------------|
| Place of Birth | : Hisar, Haryana, India |
| Nationality | : Indian |
| Religion | : Hindu |
| Languages Known | : Hindi, English, Punjabi |

Residence

D-33, Kurukshetra University Campus, Near Law Department, Kurukshetra- 136118 (Haryana), India Contact No.: 9541653750, 9350263755 (Mob. No.) 01744-239155 (Office) E-mail ID : sdhingra2015@kuk.ac.in pecdhingra@gmail.com sdhingra2020@gmil.com

Area of Specialization

- 1. Thermal Engineering
- 2. Renewable Energy

Research Interest

Biodiesel based Diesel Engines; Renewable diesel, Optimization of I.C Engines; Statistical based tools of optimization; Genetic Algorithm; Artificial Neural networks; Solar Energy; Simulation.

Educational Qualifications

| Ph.D. (Thesis Title) | : Optimization of process parameters for biodiesel production from various oils and their performance analysis |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Department | : Mechanical Engineering |
| College | : National Institute of Technology (NIT), Kurukshetra (2010-2015) |
| M.E. (Thesis Title) | : Analysis of Regenerator for Stirling Cryocooler |
| Department | : Mechanical Engineering |
| College | : Punjab Engineering College (PEC), Deemed to be University, Chandigarh (2004-2006) |
| B.E . (Project Title) | : Performance Analysis of LML Freedom Bike through Electrolysis |
| Department | : Mechanical Engineering |
| College | : CRSCE (Now DCRUST), Haryana Government State Technical |
| - | University, Murthal, Sonipat, Haryana (2000-2004) |
| Senior Secondary (12 th) | : Non-Medical from CBSE, New Delhi (1999) |
| High School (10 th) | : CBSE, New Delhi (1997) |

Research Index/ID/Citations

h-Index: 10, i10 Index: 10, Citations: 229, ORCID ID: 0000-0002-4221-8732 SCOPUS ID: 8606803500, Google Scholar Citation: <u>https://scholar.google.com/citations?hl=en&tzom=-330&user=8LssYWwAAAAJ&authuser=3</u>

| S. No. | Name of Institute | Position held | Period | Pay Scale & AGP | Effective date since last |
|--------|-----------------------------------------------------------------------------------------------------------|---------------------|------------------------|--------------------------|------------------------------|
| | | | | | Promotion |
| 1. | University Institute of Engineering & | Assistant Professor | 16-May 2011 to till | 58900-205500 & | 08.07.2020 |
| | Technology (UIET), Kurukshetra | (Regular) | date (11 Years, 11 | AL-12 (8000 | |
| | University Kurukshetra, Haryana | | Months 14 Days) | AGP, 6 th pay | |
| | (Present Employer) | | | Comm.) | |
| 2. | University Institute of Engineering & | Assistant Professor | 7.10.2008 to | 15600-39100 & | 07.10.2008 |
| | Technology (UIET), Maharshi | (Regular) | 16.05.2011 (02 | 6000 AGP | |
| | Dayanand University, Rohtak, | | Years 07 Months 10 | | |
| | Haryana | | Days) | | |
| 3. | Amity School of Engineering & | Lecturer (Regular) | 28.07.2006 to | 8000-275-13500 | 28.07.2006 |
| | Technology, Bijwasan, New Delhi | | 6.10.2008 (02 Years | | |
| | | | 02 Months 09 Days) | | |
| 4. | NIT, Kurukshetra | Lecturer (On | 27.06.2006 to | 8000-275-13500 | 27.06.2006 |
| | | Contract) | 27.07.2006 | | |
| | | | (1 Month) | | |
| 5. | Total Experience (for NIRF Ranking under 100 Institutions as per criteria) = 16 Years 10 Months (Approx.) | | | | |

Work Experience [Post Ph.D. Teaching Experience: 07 Years 09 Months 07 Days] as on 01.05.2023

Subjects Taught (UG/PG/Ph.D.)

| Sr. No. | B.Tech | M.Tech/M.Sc. Engg. Physics | Ph.D. |
|---------|------------------------------------------------------|----------------------------------------|-------------|
| 1. | I. C. Engines, Automobile Engineering, EGD, MP, SOM, | FEM, DTS, Steam Engineering, Renewable | Research |
| | KOM, HT, PT, M&C, FEA | Energy Resources, AICE, Simulation, | Methodology |
| | | Engineering Mechanics, EGD | |

Travel Support Grant (National/International)

| Sr. No. | Name of Grant | Agency |
|---------|---------------------------------------------------------------------------|-------------------------------------------|
| 1. | International Travel Support Grant, SERB, DST for attending International | Department of Science & Technology (DST), |
| | Conference in France (2017) | Govt. of India |

Project Recommended/Grant at Institute Level

| Sr. No. | Name of Grant | Agency |
|---------|-----------------------------------------------------------------------|-------------------------------------------|
| 1. | Technology Enabling Centre | Department of Science & Technology (DST), |
| | | Govt. of India |
| 2. | Community Incubation Centre, UIET, Kurukshetra University Kurukshetra | HARTRON, DITECH, Govt. of Haryana |

Administrative Responsibilities

| Sr. No. | Institute Level/Haryana Govt./Agencies | Duty Performed | Period |
|---------|-------------------------------------------|----------------------------------------------------------------------------------------|-------------------------------------------------------------|
| 1. | UIET, Kurukshetra University | Member of NBA Accreditation in Mechanical Engg. Deptt. | 2015-2017 (2 Years) |
| 2. | UIET, Kurukshetra University | M.Tech Coordinator (I&P Engg.) | 2014-2015 (1Year) |
| 3. | Kurukshetra University | Member of Flying Squad in KUK affiliated Engineering Colleges | 2014-2015 (2 Sem.) |
| 4. | Kurukshetra University | Warden of Harsh Bhawan and Ch. Devilal Hostel | 2.5 years (2015-2016 & March 2022 onwards) |
| 5. | Kurukshetra University | Member of Gender Sensitivity Committee against Sexual Harassment (GSCASH), KUK | 2015-2016 (1 year) |
| 6. | UIET, Kurukshetra University | Centre Superintendent for conducting HSSC exams | 2017-2019 (2 years) |
| 7. | UIET, Kurukshetra University | Deputy Superintendent in UIET credit Based exam | 2014 (1 sem.) |
| 8. | UIET, Kurukshetra University | Centre Superintendent in UIET credit Based exam | 2015 (1 sem.) |
| 9. | UIET, Kurukshetra University | Sessional Coordinator (Mechanical Engg. Deptt.) | 2015-2017 (2 years) |
| 10. | UIET, Kurukshetra University | Coordinator of Technical event DAKSHTA'17 | 2017 |
| 11. | UIET, Kurukshetra University | Faculty In-charge (HOD), Mechanical Engg. Deptt. | May 2018 to 3 rd Sept. 2019 (1.6 Years) |
| 12. | Haryana Government | Centre Superintendent in HTET | 2017 |
| 13. | Kurukshetra University | Member of Purchase Committee in AC of Auditorium, KUK | 2017 |
| 14. | UIET, Kurukshetra University | Co-coordinator in Pratispardha Annual Sports meet | 2017 |
| 15. | UIET, Kurukshetra University | Member of Purchase Committee in TEQIP-III | 2018-2019 (1.6 years) |
| 16. | DST | Convener for establishing Technology Enabling Centre in UIET, KUK | 2019 |
| 17. | Director, Higher Education | Member of Inspection team for grant of NOC in BML Munjal University | 2019 |
| 18. | Kurukshetra University | Member of Inspection Team for provisional affiliation to Affiliated colleges of KUK | 2012 onwards |
| 19. | UIET, Kurukshetra University | Coordinator of T&P Cell, UIET, KUK | 2017-2019 (2 years) |
| 20. | UIET, Kurukshetra University | Convener IIC, ARIIA | 2019-2020 (1 year) |
| 21. | UIET, Kurukshetra University | B.Tech Project Coordinator | 2018 onwards |
| 22. | DITECH, HARTRON | Nodal Officer of Community Incubation Centre, UIET, KUK | 2019-2022 (3 years) |
| 23. | UIET, Kurukshetra University | Convener, IPR & Patent Cell | June 2022 onwards |
| 24. | UIET, Kurukshetra University | Training & Placement Officer | June 2022 onwards |
| 25. | UIET, Kurukshetra University | Time Table Coordinator (Mechanical Engg. Deptt.) | 2019 onwards |
| 26. | Kurukshetra University | UG and PG BOS Member | 2012 onwards |
| 27. | UIET, Kurukshetra University | Ph.D. DRAC Member | 2016 onwards |
| 28. | Kurukshetra University | Performed Duty as Observer at Centre No. A-521 | 17/06/2022 |
| 29. | UIET, Kurukshetra University | Ph.D. Coordinator (Mechanical Engg. Deptt.) | 2022 onwards |

FDP/STC/Training/Workshop/Aptitude test (Organized)

| Sr. No. | Program/Training/FDP/Workshop/ STC/TUP | Duration | Organized by | Convener/Program Chair/Coordinator/ Member |
|---------|-------------------------------------------|--------------------------|--------------------------|--------------------------------------------------|
| 1. | CAD using Unigraphics (NX) | Two weeks | CIPET, Murthal | Organizing Member |
| | | 19.09.2016 to 01.10.2016 | | |
| 2. | Computational Fluid Dynamics: | One week | TEQIP-III Sponsored FDP, | Organizing Member |
| | Development, Applications and | 20.02.2017 to 25.02.2017 | UIET, KUK & CCE, IIT | |
| | Analysis | | Mumbai | |

| 3. | Sustainable Renewable Energy: | One week | TEQIP-III Sponsored FDP, | Organizing Member |
|-----|-------------------------------------|--------------------------|-----------------------------------|-------------------|
| | Science, Technology & Development | 19.03.2018 to 25.03.2018 | UIET, KUK | |
| 4. | Computer Networking | 3 days | UIET, Kurukshetra University | Organizing Member |
| | | 26.10.2016 to 28.10.2018 | | |
| 5. | Computer Aided Design using Solid | One week | TEQIP-III Sponsored FDP, | Program Chair |
| | works | 28.01.2019 to 03.02.2019 | UIET, KUK | |
| 6. | Advances in Computer Aided | One Week | TEQIP-III Sponsored FDP, | Convener |
| | Manufacturing | 01.04.2019 to 05.04.2019 | UIET, KUK | |
| 7. | Engine Overhauling | Two days | TEQIP-III Sponsored | Convener |
| | | 29.04.2019 to 30.04.2019 | Workshop, UIET, KUK | |
| 8. | Smart Structures and Systems | One week | TEQIP-III Sponsored FDP, Convener | |
| | | 19.08.2019 to 23.08.2019 | UIET, KUK | |
| 9. | "Standardization & Calibration" for | Two Days | TEQIP-III Sponsored | Convener |
| | Realization of Make in India, skill | 30.08.2019 to 31.08.2019 | workshop, UIET, KUK | |
| | India and Startup India | | | |
| 10. | Technical & Aptitude Test | One Day, 27.09.2019 | UIET, Kurukshetra University | Coordinator |

List of Research Papers Published (Thomson Reuters SCI=08, SCOPUS=6, Indexed = 1)

| S. No. | Title with name of authors as appearing in the publication | Journal, Volume, Year, Page Numbers | ISSN/ISBN No., if any | Whether you are Supervisor /Corresponding author/Other author |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| 1. | "Performance and emission parameters optimization of mahua (<i>Madhuca indica</i>) based biodiesel in direct injection diesel engine using response surface methodology" Sunil Dhingra, Gian Bhushan, and Kashyap Kumar Dubey | Journal of Renewable and Sustainable Energy, American Institute of Physics publication, 2013, Vol. 5, 063117, DOI: 10.1063/1.4840155 | ISSN No.: 1941-7012 (online) IF = 2.847 (Thomson Reuters SCI) | Corresponding author |
| 2. | "Comparative performance analysis of Jatropha, Karanja, Mahua and Polanga based biodiesel engine using hybrid genetic algorithm". Sunil Dhingra, Gian Bhushan, and Kashyap Kumar Dubey | Journal of Renewable and Sustainable Energy, American Institute of Physics publication, 8, 013103, 2016 | ISSN No.: 1941-7012 (online), IF = 2.847 (Thomson Reuters SCI) | Corresponding author |
| 3. | "A Polymath Approach for the Prediction of Optimized Transesterification Process Variables of Polanga Biodiesel" Sunil Dhingra, Kashyap Kumar Dubey and Gian Bhushan | Journal of the American oil Chemist's Society, Springer publication , Vol. 91, No. 4, pp. 641-653, 2014 . | ISSN No: 0003-021X (print), 1558-9331 (online) IF = 1.849 (Thomson Reuters SCI) | Corresponding author |
| 4. | "Validation and Enhancement of Waste Cooking Sunflower Oil based Biodiesel Production by the Trans-esterification Process" Sunil Dhingra, Gian Bhushan, and Kashyap Kumar Dubey | Energy sources, part A, Taylor & Francis publication, 2016, vol. 38, no. 10, 1448-1454 | ISSN No: 1556-7036 (print), 1556-7230 (online) IF = 3.447 (Thomson Reuters SCI) | Corresponding author |
| 5. | "Development of a combined approach for | Frontiers in Energy, Springer | ISSN No: 2095-1701 | Corresponding |

| | improvement and optimization of Karanja biodiesel using response surface methodology and genetic algorithm" Sunil Dhingra, Gian Bhushan, and Kashyap Kumar Dubey | publication, 2013. Vol. no. 7(4): 495–505 | (print), 2095-1698 (online) IF = 2.964 (Thomson Reuters SCI) | author |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-------------------------|
| 6. | "Multi-objective optimization of combustion, performance and emission parameters in a jatropha biodiesel engine using non-dominated sorting genetic algorithm-II." Sunil Dhingra, Gian Bhushan, and Kashyap Kumar Dubey | Frontiers of Mechanical Engineering, Springer publication, Vol. 9, No. 1, pp. 81-94, 2014 | ISSN. NO: 2095- 0233 (print), 2095- 0241 (online) IF = 4.063 (Thomson Reuters SCI) | Corresponding author |
| 7. | "Enhancement in Jatropha-based biodiesel yield by process optimization using design of experiment approach" Sunil Dhingra, Kashyap Kumar Dubey and Gian Bhushan | International Journal of Sustainable Energy, Taylor & Francis publication , pp. 842-853, Vol. 33, Issue 4, 2014 | ISSN No: 1478-6451 (print), 1478-646X (online) IF = 3.12 (Thomson Reuters SCI) | Corresponding author |
| 8. | "Understanding the interactions and evaluation of process factors for biodiesel production from waste cooking cottonseed oil by design of experiments through statistical approach" Sunil Dhingra, Gian Bhushan, and Kashyap Kumar Dubey | Frontiers in Energy, Springer publication , (In press) | ISSN No: 2095-1701 (print), 2095-1698 (online) 2.647 (Thomson Reuters SCI) | Corresponding author |
| 9. | "Efficiency evaluation and comparison of different turbulator shapes in solar water heating collector system" Rohit Kharghotra, Sunil Dhingra, Ranchan Chauhan, Deepak Batra & Mayank Bhardwaj | International Journal of Mechanical & Production Engineering Research and Development (IJMPERD), Vol. 8, issue 1, 2018, pp. 697-702 | ISSN No.:2249-6890 (print) ISSN No.: 2249-8001 (online) SCOPUS | Supervisor |
| 10. | "A Review on Effect of EDM Parameters on Die Sinking EDM" Jyoti Bhaghi, Manjeet Bohat, VP S Kalsi and Sunil Dhingra | Trends in Mechanical Engineering & Technology, Vol. 5, No. 1, pp. 26-30, 2015 | ISSN No.: 2347-9965 (print), ISSN No. 2231-1793 (online) Peer Reviewed & Indexed | Other Author |
| 11. | Performance Investigation and comparison of different turbulator shapes in solar water heating collector system Rohit Kharghotra, Ranchan Chauhan and Sunil Dhingra | American Institute of Physics Publications Conference Proceedings 1953, 130029 (2018) | SCOPUS Indexed | Supervisor |
| 12. | Thermal performance of a vapor adsorption refrigeration system: an overview Sohan Singh and Sunil Dhingra | Journal of Physics:1240 (2019) 012024 DOI: 10.1088/1742- 6596/1240/1/012024 | SCOPUS Indexed | Supervisor |
| 13. | Performance analysis of rice bran oil biodiesel blends-based CI ENGINE using DOE approach | IEEE Conference Proceedings, Dec 2022 (ICCMSO) DOI: 10.1109/ICCMSO58359.2022.00039 | SCOPUS Indexed | Corresponding Author |

| | Sunil Dhingra, Rahul Raghav, Kovacs Andras & Rohit Khargotra | | | |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|----------------|-------------------------|
| 14. | Effect of Twisted Tape on the Performance of Solar Collector Sunil Dhingra, Kovacs Andras, Rohit Khargotra & Navdeep Singh | IEEE Conference Proceedings, Dec 2022 (ICCMSO) DOI: 10.1109/ICCMSO58359.2022.00081 | SCOPUS Indexed | Corresponding Author |
| 15. | Improvement in Dents at Gear Manufacturer Company through Lean Six Sigma Sunil Dhingra, Prateek Guleria, Rohit Khargotra, Rakesh Kumar Shukla | IEEE Conference Proceedings, Dec 2022 (ICCMSO DOI: 10.1109/ICCMSO58359.2022.00085 | SCOPUS Indexed | Corresponding Author |

Papers Presented/published/Invited talks/Session chair in conferences/Short courses

- 1. Gurjeet Singh, Russi Kamboj, S K Soni, Sunil Dhingra (2014): 'CFD simulation of heat transfer enhancement by plain and curved delta winglet type vortex generators. National conference on advancements and futuristic trends in Mechanical Engineering, 17-18th October 2014, PEC, Chandigarh.
- **2.** Nitin Gehlot, Dinesh Kumar, Gurjeet Singh, Sunil Dhingra (**2014**): Optimization of Hardness of Weld Bead in TIG Welding using Taguchi Methods". National conference on advancements and futuristic trends in Mechanical Engineering, 17-18th October 2014, PEC, **Chandigarh**.
- **3.** Sunil Dhingra (**2015**): National conference on Recent Developments in Mechanical Engineering, 20-21 November 2015 organized by Department of Mechanical Engineering, UIET, MDU, **Rohtak**, Haryana-124001 [**Technical Session chair**].
- **4.** Sunil Dhingra (2019): Expert Lecture on Optimization Techniques, TEQIP-III sponsored STC on Analysis and Optimization of 5G wireless Communication Networks, September 17th -21st, 2018, ECE Department, UIET, KUK.

Papers Presented/published/Invited talks/session chair in International meetings

- Gian Bhushan, Sunil Dhingra and Kashyap Kumar Dubey (2016): "Performance evaluation of Karanja oil-based biodiesel engine using modified genetic algorithm". International conference on Mechatronics, Electrical and Mechanical Engineering, 18-19th August 2016, World Academy of Science, Engineering and Technology (WASET), Kuala lumpur Malaysia.
- Vinay, Bhupender Singh, Sunil Dhingra (2017): 'A Review paper on Biodiesel Production using trans-esterification process and its performance on CI engines'. International Conference on Quality, Productivity, Reliability, Optimization & Modeling (ICQPROM 2017), 5th-7th January 2017, Manav Rachna International University, Faridabad, Haryana, India.
- **3.** Sunil Dhingra (**2017**): "Experimental Investigation of Sunflower oil-based biodiesel in a single cylinder CI engine". International conference of European Materials Research Society, spring meeting 2017, 22-26th May 2017 held at **Strasbourg, France** [**Poster Presentation**].
- 4. Sunil Dhingra (2017): "Biodiesel based Engines; Future Scope". International conference on Innovative Research in Engineering and Science (IRES 2017), 16-17 June 2017 organized by

foundation of Innovative and research at Asian institute of Technology Conference Center, **Pathum Thani, Thailand** [**Technical Session Chair and Invited Talk**].

- **5.** Sunil Dhingra (2019): 2nd International Conference on New Frontiers in Engineering, Science & technology, February 18-22, 2019., **NIT, Kurukshetra**, Haryana [**Session Chair**]
- **6.** Sunil Dhingra (2018): International Conference on Computational Methods, Simulation and optimization, June 22-24, 2018, Universal Research Foundation at Asian Institute of Technology, Bangkok, Thailand [**Invited Speaker and Session Chairperson**].
- 7. Sunil Dhingra (2019): International Conference on Computational Modeling, Simulation and Optimization, June 27-29, 2019, Innovative Research Foundation at National University of Singapore, Singapore [Session Chair].
- **8.** Sunil Dhingra (2022): International Conference on Computational Modelling, Simulation and Optimization (ICCMSO-2022), December 23-25, AIT Conference center, Bangkok, Thailand [Session Chairperson Online]

Ph.D. Research Scholar Enrolled (01)

| Sr. No. | Name of Research Scholar | Торіс | Year of Registration |
|---------|--------------------------------------|---------------------------------------------------------|----------------------|
| 1. | Mr. Sohan Hari (Regn. No.07-ECZ-226) | Performance analysis of vapour adsorption refrigeration | 2016 |
| | | system based on solar parabolic trough collector | |

| S. No. | Roll No. | Award year | Name | Topic of Dissertation | |
|--------|----------|---------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 1. | 8002 | 2011 | Amit Kumar | Use of GRA and Taguchi method to optimize multi machining characteristics in wire EDM of tungsten carbide composite | |
| 2. | 8004 | 2011 | Naresh Kumar | Thermal analysis of regenerator for pulse tube cryocooler | |
| 3. | 8014 | 2011 | Sandeep | Use of Design of Experiments to optimize the process variables in wire EDM | |
| 4. | 8011 | 2011 | Sandeep Kumar | Optimization of MRR and KERF in WEDM of WC composite using Taguchi method | |
| 5. | 2511635 | 2013 | Manish Sanserwal | Heat transfer Augmentation using flat spring turbulator in cross flow heat exchanger | |
| 6. | 2511642 | 2013 | Mayank Bhardwaj | Heat transfer augmentation using convergent divergent spring turbulator in cross flow heat exchanger | |
| 7. | 2611645 | 2013 | Ajay Singh | Optimization of biodiesel synthesis from waste cooking oil and its performance characteristics in a single cylinder direct injection diesel engine | |
| 8. | 2511634 | 2013 | Vinay | Study on biodiesel production and its effect on a 4-stroke compression ignition engine for performance and emission characteristics of biodiesel extracted from soybean and Karanja oil | |
| 9. | 2511641 | 2013 | Sanjeev Kumar | Biodiesel production from Jatropha & Ricebran oils with their performance and emission studies on diesel engine using response surface methodology | |
| 10. | 2512637 | 2014 | Russi Lal | Enhancement in overall heat transfer rate through numerical investigation of plane and curved winglet type vortex generator | |
| 11. | 2512639 | 2014 | Sumit | Experimental investigation of the performance of flat plate solar air collector using double glazing with PCM as thermal storage unit | |
| 12. | 2512640 | 2014 | Amit Garg | Enhancement in heat transfer of triangular ribbed channel type heat | |

M.Tech Dissertation Supervised (45)

| | | | | exchanger through CFD analysis | |
|-----|-----------|------|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 13. | 2512641 | 2014 | Manoj Kumar | CFD analysis of heat transfer augmentation in rectangular channel using four triangular prisms arranged in staggered manner | |
| 14. | 2512642 | 2014 | Sitender Dahiya | CFD analysis of flow structure of dynamic turbulent flow field through a channel provide with baffles in staggered manner | |
| 15. | 2512632 | 2016 | Kashmir Singh | Experimental Investigation of the performance of the flat plate solar air collector using single glazing with PCM as storage unit | |
| 16. | 2513637 | 2015 | Rinku Jangra | Performance of double pipe heat exchanger with convergent-convergent spring turbulators and its analysis | |
| 17. | 2513638 | 2015 | Balram | Comparative performance analysis of double pipe heat exchanger from spring turbulator with plain tube | |
| 18. | 2513639 | 2015 | Ayush | Performance analysis of double pipe heat exchanger through hybrid turbulators | |
| 19. | 2513641 | 2015 | Brij Mohan | Experimental investigation of double pipe heat exchanger through spring turbulator and its performance analysis | |
| 20. | 2513642 | 2015 | Amit Rajotiya | Performance analysis of double pipe heat exchanger through hybrid spring turbulators | |
| 21. | 2513648 | 2015 | Navdeep Sandhu | Performance analysis of double pipe heat exchanger through hybrid divergent-divergent convergent turbulator | |
| 22. | 2514632 | 2016 | Nirmal Singh | Numerical Simulation of heat transfer enhancement by curved single winglet pair type vortex generators with punched holes | |
| 23. | 2514635 | 2016 | Sachin Kumar | Performance analysis of double pipe heat exchanger using convergent-plain spring turbulators | |
| 24. | 2514638 | 2016 | Rinku | Heat transfer augmentation using rod fitted with divergent-plain convergent spring turbulators as inserts | |
| 25. | 2514642 | 2016 | Arvind pal | Heat transfer enhancement in double pipe heat exchanger using plain convergent spring turbulators | |
| 26. | 2514648 | 2016 | Karan Gopal | Experimental investigation of double pipe heat exchanger using divergent plain spring turbulators at variable length ratio | |
| 27. | 251555001 | 2017 | Sumit Kumar | Experimental Investigation of three fueled SI engines using Response Surface Methodology | |
| 28. | 251555004 | 2017 | Anuj Kumar | Performance Analysis of dual fueled SI engine using Response Surface Methodology | |
| 29. | 251555010 | 2017 | Deepak Batra | Experimental Investigation of Flat Plate Solar water collector using heat transfer enhancer in absorber tube | |
| 30. | 251555017 | 2017 | Rohit Khargotra | Enhancement of heat transfer rate using flat plate solar water heater based on coil spring turbulator | |
| 31. | 251555006 | 2017 | Hari Chaman | Performance analysis of dual fueled petrol engine using design of experiment approach | |
| 32. | 251555016 | 2017 | Sangeeta | Experimental analysis of heat transfer Augmentation in solar flat plate collector based on water heater using the effect of coupled turbulator | |
| 33. | 251655001 | 2018 | Ravi Nandal | Experimental Investigation on performance and emission characteristics of SI engine fuelled with butanol and gasoline blends | |
| 34. | 251655005 | 2018 | Himanshu Rajput | Experimental analysis of ternary blends of Karanja and Mahua oil-based biodiesel on 4-stroke CI engine | |
| 35. | 251655010 | 2019 | Naveen Bharat Kashyap | Performance analysis of blended green fuel diesel in four stroke engine using response surface methodology | |
| 36. | 251655011 | 2018 | Ankit Singla | Performance analysis of ternary blends of polanga and karanja biodiesel on | |

| | | | | 4-stroke CI engine | |
|---------------|--------------------|---------------|------------------------------------------------------------------------|----------------------------------------------------------------------------|--|
| 37. | 251655016 | 2018 | Netan Vashisht | Optimization of parameters in three-cylinder SI engine running through | |
| 57. | 37. 231035010 2018 | | Inetali v asilislit | various blends of Iso-butanol and gasoline | |
| 38. 251755001 | | 2019 | Ankit Tuogi | Performance analysis of motor cycle using methanol blend with and without | |
| 50. | 251755001 | 2019 | Ankit Tyagi | HHO generator | |
| 39. 251755006 | | 2019 | Kamal Kant | Analysis of exhaust emission and performance of motor cycle by using | |
| 39. | 231733000 | 2019 | Kalilai Kalit | ethanol gasoline blend and optimization using design expert | |
| 40. 251756001 | 2020 | Gautam Taneja | Evaluation of Surface Engineering Techniques in Controlling Friction & | | |
| 40. | 40. 251756001 2020 | | Wear on Extrusion Die Material | | |
| 41 2 | 251756002 | 2020 | Alrahory | Investigation of Surface Coating Technology in Improving Tribological | |
| 41. | 41. 251756002 2020 | | Akshay | Properties of Gear Material | |
| | | | | Optimization of Performance and Emission Parameters of CI Engine using | |
| 42. | 251855011 | 2020 | Nand Kishore | Blends of Castor and Karanja Biodiesel through Response Surface | |
| | | | | Methodology | |
| 43. | 251955002 | 2021 | Rahul | Optimization of Performance and Emission Parameters of Waste Cooking | |
| 45. | 231933002 | | | Sunflower Biodiesel based CI Engine using DoE approach | |
| 44. | 252056010 | 2022 | Munish | Performance Analysis of used cooking oil blends parameters and emission of | |
| 44. | 44. 252056010 | | IVIUIIISII | CI engine using RSM | |
| 45 | 252056005 | 2022 | Rahul Raghav | Optimization of Performance and Emission Parameters of Rice bran | |
| 45. | 252056005 | | | Biodiesel based CI Engine using DoE approach | |
| L | | | | | |

Orientation/Refresher Courses/workshops/ FDP's/Trainings (Attended)

| S. No. | Program | Duration | Organized by |
|--------|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------|
| 1. | Short term course on "Dynamics and Controls of Mechanical Systems" | one week 25 th - 29 th Dec. 2011 | IIT, Roorkee |
| 2. | Workshop on: "Applied Mechanics" | 04 days 4 th -7 th October 2013 | IIT, Kanpur |
| 3. | Management Capacity Enhancement program | one week 20-26 th March, 2014 | IIM, Indore |
| 4. | Faculty Development Program on "Advances in Thermal Engineering" | Three Days 25 th -27 th September 2014 | UIET, Kurukshetra University |
| 5. | Orientation Course | 28 days 18/06/2015 to 15/07/2015 | UGC-HRDC, K.U, Kurukshetra |
| 6. | Faculty Development Workshop on "Product Design with Autodesk tools" | 02 days 7 th and 8 th November 2015 | UIET, Kurukshetra University |
| 7. | Refresher course in "ICT" | 21 days 24 th Nov. 2015 to 14 th Dec. 2015 | UGC-HRDC, Khanpur Kalan (Sonepat) |
| 8. | Short term course on "Concepts and Applications of the Finite Element Method" | one week 13 th -18 th June 2016 | IIT, Hyderabad |
| 9. | Short term course on "Cognitive Radio and Wireless Communication" | one week 13 th - 17 th September 2016 | UIET, Kurukshetra University |
| 10. | Short term course on "CAD-CAM application in CNC Machining" | one week 23 rd - 27 th September 2017 | IIT, Kharagpur |
| 11. | Workshop on "Computer Networking" | 26 th - 28 th October 2016 (one week) | UIET, Kurukshetra University |
| 12. | Continuing Education & Quality Improvement Program on "Computational Fluid Dynamics: Development Application & Analysis" | One week 20 th – 25 th February 2017 | IIT, Bombay |
| 13. | Short term course on "Cloud Computing" | 14 th -19 th March 2017 (one week) | UIET, Kurukshetra University |

| 14. | Workshop on "Automobile & IC Engine Design" | Two days 01.09.2017 to 02.09.2017 | Entrench Electronics at UIET, KUK |
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| 15. | Workshop on "IP Awareness Programme on National IPR policy 2016" | One day 11.01.2018 | Kurukshetra University Kurukshetra |
| 16. | TEQIP-II sponsored STC on "Sustainable Renewable Energy: Science, Technology and Development" | One week 19.03.2018 to 25.03.2018 | UIET, Kurukshetra University |
| 17. | Workshop on "Solidworks" | Two days 15.11.2018 to 16.11.2018 | UIET, Kurukshetra University |
| 18. | TEQIP-III sponsored International workshop on "Energy, Power and Environment" | 03 Days 17.03.2019 to 19.03 2019 | NIT, Kurukshetra |
| 19. | TEQIP-III sponsored STC on "Advances in Computer Aided Manufacturing" | One week 01.04.2019 to 05.04.2019 | UIET, Kurukshetra University |
| 20. | TEQIP-III sponsored Workshop on "Engine Overhauling" | Two Days 29.04.2019 to 30.04.2019 | UIET, Kurukshetra University |
| 21. | TEQIP-III Workshop on "Productivity Enhancement Program" | One week 22.07.2019 to 27.07.2019 | UIET, Kurukshetra University |
| 22. | TEQIP-III STC on "Smart Structures and Systems" | One week 19.08.2019 to 23.08.2019 | UIET, Kurukshetra University |
| 23. | TEQIP-III Workshop on "Standardization and Calibration" | Two days 30.08.2019 to 31.08.2019 | UIET, Kurukshetra University |
| 24. | TEQIP-III Workshop on "Research Methodology & Collaboration" | One day 14.12.2019 | Department of Instrumentation, KUK |
| 25. | AICTE approved online refresher course in "Engineering, Physical Sciences and Management" | Two weeks 22/06/2020 to 04/07/2020 | Bharti Vidyapeeth's Institute of computer Applications and management (BVICAM), New Delhi |
| 26. | Live online webinar & certification on "Outcome based education & NBA Accreditation" | One week 06/07/2020 to 10/07/2020 | ESCI & UIET, KUK |
| 27. | TEQIP-III STC on "Supply Chain Management: Challenges and Strategies" | One week 13/07/2020 to 17/07/2020 | NIT, Jalandhar |
| 28. | Training on CNC Machines-Operation and Programming | One week 23.11.2020 to 27.11.2020 | CIPET, Murthal |
| 29. | Refresher Course on "Design Thinking" | Two weeks 26.10.2020 to 07.11.2020 | UIET, Kurukshera University |
| 30. | Faculty Development for "New Tomorrow: Readiness for Teaching and Learning post COVID-19" | One week 24.07.2020 to 28.07.2020 | NIT, Uttarakhand & SLIET, Longawal, Punjab |
| 31. | FDP on "CAE using ANSYS" | One week 24.08.2020 to 28.08.2020 | CIPET, Murthal |
| 32. | STC on "Advance Digital Pedagogy and ICT tools: Challenges & Opportunities in online teaching" | One week 18.11.2020 to 22.11.2020 | IIT, Roorkee |

Dr. Sunil Dhingra