

Biodata (Dr. Sunil Dhingra)

Office

ME-304, Department of Mechanical Engineering.
University Institute of Engineering and Technology
Kurukshetra University, Kurukshetra, Haryana
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Personal Details

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

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, Solar Energy

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 (12th) : Non-Medical from CBSE, New Delhi (1999)
High School (10th) : CBSE, New Delhi (1997)

Research Index/ID/Citations

h-Index: 13, **i10 Index:** 16, **Citations:** 13, **ORCID ID:** 0000-0002-4221-8732 **SCOPUS ID:** 8606803500, **Google Scholar Citation:** <https://scholar.google.com/citations?hl=en&tzom=-330&user=8LssYWwAAAAJ&authuser=3>

Work Experience

S. No.	Name of Institute	Position held	Period	Pay Scale & AGP
1.	University Institute of Engineering & Technology (UIET), Kurukshetra University Kurukshetra, Haryana (Present Employer)	Associate Professor in Mechanical Engineering Dept. (Regular)	16-May 2011 to till date	AL-13A
2.	University Institute of Engineering & Technology (UIET), Maharshi Dayanand University, Rohtak, Haryana	Assistant Professor in Mechanical Engineering Dept. (Regular)	7.10.2008 to 16.05.2011 (02 Years 07 Months 10 Days)	15600-39100 & 6000 AGP
3.	Amity School of Engineering & Technology, Bijwasan, New Delhi	Lecturer in Mechanical Engineering Dept. (Regular)	28.07.2006 to 6.10.2008 (02 Years 02 Months 09 Days)	8000-275-13500
4.	NIT, Kurukshetra	Lecturer in Mechanical Engineering Dept. (On Contract)	27.06.2006 to 27.07.2006 (1 Month)	8000-275-13500

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, KOM, HT, PT, M&C, FEA	FEM, DTS, Steam Engineering, Renewable Energy Resources, AICE, Simulation, Engineering Mechanics, EGD	Research Methodology

Travel Support Grant (National/International)

Sr. No.	Name of Grant	Agency
1.	International Travel Support Grant, SERB, DST for attending International Conference in France (2017)	Department of Science & Technology (DST), 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 (1 Year)
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 19.09.2016 to 01.10.2016	CIPET, Murthal	Organizing Member
2.	Computational Fluid Dynamics: Development, Applications and Analysis	One week 20.02.2017 to 25.02.2017	TEQIP-III Sponsored FDP, UIET, KUK & CCE, IIT Mumbai	Organizing Member
3.	Sustainable Renewable Energy: Science, Technology & Development	One week 19.03.2018 to 25.03.2018	TEQIP-III Sponsored FDP, UIET, KUK	Organizing Member

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

List of Research Papers Published (Thomson Reuters SCI=10, SCOPUS=6)

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 improvement and optimization of Karanja biodiesel using response surface	Frontiers in Energy, Springer publication , 2013. Vol. no. 7(4): 495–505	ISSN No: 2095-1701 (print), 2095-1698 (online)	Corresponding author

	methodology and genetic algorithm” Sunil Dhingra, Gian Bhushan, and Kashyap Kumar Dubey		IF = 2.964 (Thomson Reuters SCI)	
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 blends-based CI ENGINE using DOE approach Sunil Dhingra, Rahul Raghav, Kovacs Andras & Rohit Khargotra	IEEE Conference Proceedings, Dec 2022 (ICCMSO) DOI: 10.1109/ICCMOS58359.2022.00039	SCOPUS Indexed	Corresponding Author

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/ICCMOS58359.2022.00081	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/ICCMOS58359.2022.00085	SCOPUS Indexed	Corresponding Author
16.	A review of different twisted tape configurations used in heat exchanger and their impact on thermal performance of the system Rohit Khargotra, Raj Kumar, Rahul Nadda, Sunil Dhingra, Tabish Alam, Dan Dobrota, Anca Lucia Chicea, Kovacs Andras, Tej Singh	Heliyon 9 (2023) e16390	SCI (Thomson Reuters IF=4.0)	Supervisor
17.	‘Prediction of Various Optimal Solutions for Desirable Performance Parameter of Non-edible Oils-based Biodiesel’ Sunil Dhingra	Journal of Alternate Energy Sources & Technologies’ Volume 14, Issue 1, 2023	Peer Reviewed	Corresponding Author
18.	‘Castor and Mahua Oils Based Performance and Emission Analysis in a Biodiesel Engine Using ANOVA Technique “International Journal of Research Publication and Reviews” Sunil Dhingra	International Journal of Research Publication and Reviews’ Vol 4, no 6, pp 2708-2712 June 2023	Peer Reviewed	Corresponding Author
19.	“Impact of fermented organic formulations combined with inorganic fertilizers on broccoli (<i>Brassica oleracea L. Var . Italica Plenck</i>) cv. Palam Samridhi” Shradha, Y.R. Shukla, Kuldeep Thakur, Rohit Kumar Vashishat, Subhash Sharma, Rajeshwar Singh Chandel, Sunil Dhingra, Tabish Alam, Rohit Khargotra, Kumari Jyoti	Heliyon 9 (2023) e20321	SCI (Thomson Reuters IF=4.0)	Supervisor

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

- 1.** 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**.
- 2.** 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**]

M.Tech Dissertation Supervised (50)

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 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 various blends of Iso-butanol and gasoline
38.	251755001	2019	Ankit Tyagi	Performance analysis of motor cycle using methanol blend with and without HHO generator
39.	251755006	2019	Kamal Kant	Analysis of exhaust emission and performance of motor cycle by using ethanol gasoline blend and optimization using design expert
40.	251756001	2020	Gautam Taneja	Evaluation of Surface Engineering Techniques in Controlling Friction & Wear on Extrusion Die Material
41.	251756002	2020	Akshay	Investigation of Surface Coating Technology in Improving Tribological Properties of Gear Material
42.	251855011	2020	Nand Kishore	Optimization of Performance and Emission Parameters of CI Engine using Blends of Castor and Karanja Biodiesel through Response Surface Methodology
43.	251855001	2020	Chhavi Kant Gaur	COMPARITIVE ANALYSIS OF HEAT TRANSFER AND FLOW CHARACTERSTICS OF STRAIGHT PIPE, STRAIGHT PIPE WITH HELICAL INSERT AND CURVED TUBE THROUGH ANSYS
44.	251955002	2021	Rahul	Optimization of Performance and Emission Parameters of Waste Cooking Sunflower Biodiesel based CI Engine using DoE approach
45.	252056010	2022	Munish	Performance Analysis of used cooking oil blends parameters and emission of CI engine using RSM
46.	252056005	2022	Rahul Raghav	Optimization of Performance and Emission Parameters of Rice bran Biodiesel based CI Engine using DoE approach
47.	251956003	2022	Nripender	PERFORMANCE ANALYSIS OF ELECTRIC DISCHARGE MACHINING USING AISI 304 GRADE MATERIAL THROUGH TAGUCHI METHOD
48.	252258004	2024	Nikhil Singh Dhania	Aerodynamic Characteristics Analysis of Various Nose Cone for Hypersonic Aerial Vehicle

49.	252158010	2025	Sagar	Simulation Study on Bullet Proof Jacket Effectiveness against small arms
50.	252158009	2025	Harsh	CFD Analysis on Payload-Aerial Bomb (with different Mach Number and angle of attack)

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.	Orientation Course	28 days 18/06/2015 to 15/07/2015	UGC-HRDC, K.U, Kurukshetra
5.	Faculty Development Workshop on “Product Design with Autodesk tools”	02 days 7 th and 8 th November 2015	UIET, Kurukshetra University
6.	Refresher course in “ICT”	21 days 24 th Nov. 2015 to 14 th Dec. 2015	UGC-HRDC, Khanpur Kalan (Sonepat)
7.	Short term course on “Concepts and Applications of the Finite Element Method”	one week 13 th -18 th June 2016	IIT, Hyderabad
8.	Short term course on “Cognitive Radio and Wireless Communication”	one week 13 th - 17 th September 2016	UIET, Kurukshetra University
9.	Short term course on “CAD-CAM application in CNC Machining”	one week 23 rd - 27 th September 2017	IIT, Kharagpur
10.	Workshop on “Computer Networking”	26th - 28th October 2016 (one week)	UIET, Kurukshetra University
11.	Continuing Education & Quality Improvement Program on “Computational Fluid Dynamics: Development Application & Analysis”	One week 20 th – 25 th February 2017	IIT, Bombay
12.	Short term course on “Cloud Computing”	14th -19th March 2017 (one week)	UIET, Kurukshetra University
13.	Workshop on “Automobile & IC Engine Design”	Two days 01.09.2017 to 02.09.2017	Entrench Electronics at UIET, KUK
14.	TEQIP-II sponsored STC on “Sustainable Renewable Energy: Science, Technology and Development”	One week 19.03.2018 to 25.03.2018	UIET, Kurukshetra University
15.	Workshop on “Solidworks”	Two days 15.11.2018 to 16.11.2018	UIET, Kurukshetra University
16.	TEQIP-III sponsored International workshop on “Energy, Power and Environment”	03 Days 17.03.2019 to 19.03.2019	NIT, Kurukshetra
17.	TEQIP-III sponsored STC on “Advances in Computer Aided Manufacturing”	One week 01.04.2019 to 05.04.2019	UIET, Kurukshetra University
18.	TEQIP-III sponsored Workshop on “Engine Overhauling”	Two Days 29.04.2019 to 30.04.2019	UIET, Kurukshetra University
19.	TEQIP-III Workshop on “Productivity Enhancement Program”	One week 22.07.2019 to 27.07.2019	UIET, Kurukshetra University
20.	TEQIP-III STC on “Smart Structures and Systems”	One week 19.08.2019 to 23.08.2019	UIET, Kurukshetra University
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
33.	Ttaining on CNC Machines and Programming	One week 23.11.2020 to 27.11.2020	CIPET Chennai in Collaboration with UIET, KUK

Dr. Sunil Dhingra