

SRES', Sanjivani College of Engineering, Kopargaon
(An Autonomous Institute affiliated to SPPU, Pune)

Staff Profile

Personal Information			
Name of Teaching Staff: Dr. Sumedh S. Ingle			
Designation: Professor			
Department : Mechanical Engineering			
Date of joining : 06/03/2002			
E Mail ID :		inglesumedhmech@sanjivani.org.in	
Contact No:		9850970327	
Education Details			
Qualification	Specialization with Class or Grade	University	Year
UG	Mechanical	Amravati University, Amravati	1999
PG	Heat Power Engineering	Shivaji University, Kolhapur	2002
Ph.D	Mechanical	SRTM University, Nanded	2017
Total experience in years:			
Teaching:		22	
Industry:		Nil	
Research and Publications			
Mentioned Below			
Papers presented in conferences:			
Mentioned below			
Research Profile URL			
Google Scholar		https://scholar.google.com/citations?user=_fN_eC4AAA-AJ&hl=en	
Scopus		https://www.scopus.com/home.uri	

Orcid	https://orcid.org/my-orcid?orcid=0000-0001-5297-4403		
Other Research Details			
Ph D Guide ?Give field & University:	Applied for Guidship		
Ph Ds/ Projects Guided:	BE Project Guided - 35		
Books Published	Article publish in a book		
IPRs/Patents	02		
Professional Memberships:	AMIE, ISTE, SAE		
Interaction with professional institutions	Institution of Engineers, IIT Mumbai etc		
Consultancy Activities			
Duration	Title of Activity	Issued Organization	Amount
Nil	Nil	Nil	Nil
Grants fetched			
Duration	Title	Issued Organization	Amount
3 years	SPDP for SC/ST Students	AICTE	17,00,000
2 years	PRERANA Scheme for SC/ST Students	AICTE	6,66,666
Awards			
Please write/type Here			
FACULTY DEVELOPMENT PROGRAMMES ATTENDED			
Name of the FDP / Workshop	Organization	Duration	Month-Year
Gender Justice and workplace security	NPTEL-AICTE	August-September 2019 (8 weeks)	
Road Map for patent Creation	NPTEL-AICTE	January March 2019 (12 weeks)	
FACULTY DEVELOPMENT PROGRAMMES ORGANIZED			

**January
- March
2019**

Name of the FDP / Workshop	Organization	Duration	Month-Year	Capacity
NIL				
INVITED LECTURES IN CONFERENCE/SEMINAR				
Title of Lecture/ Academic Session	Title of Conference/ Seminar etc.	Organized By		
Session Chair for MECHPGCON 2019	5 th Mechanical Engineering Post Graduate Student's Conference	Amruvahani College of Engg., Sangamner		
Session Chair	1 st National Conference on Technology -2019	JMES, MMAN technical Campus, Malegaon		
Research paper Writing” for TYEE students	Expert Talk at Department of Electrical Engineering, Sanjivani K. B. P. Polytechnic, Kopargaon	Department of Electrical Engineering, Sanjivani K. B. P. Polytechnic, Kopargaon		

OTHER Professional URLs	
Personal Website	NIL
Linked In Profile	https://www.linkedin.com/in/ingle-sumedh-71921817a/
GitHub URL	NIL
YouTube Channel	https://www.youtube.com/channel/UCsYZRO7lozeJm1O2RM_yphg
Other	NIL

Any Other:

Paper Published in International Journal:

Sr.no	Title of paper	Journal	Volume/issue	ISSN no. / DOI no.
1	An Experimental	Jounal of Advances	Volume 5, isue-	doi.org/10.5281/ze

	Analysis of performance and Emission of Palm Biodiesel as an alternative fuel for Compression Ignition Engine	in Electrical Devices	1, 2020	nodo.3710639
2	Performance and Emission analysis of Palm Biodiesel Engine	International Research Journal of Science and Engineering	Special issue,2018	ISSN:2322-0015
1	Synthesis and Characterization of Nickel doped Barium Niobate Ba(Ni _{0.5} Nb _{0.5})O ₃ (BNN) Nanomaterial	Journal of Microelectronics and solid state devices	Volume 5, Issue 2, 2018	ISSN: 2455-3336 (online)
2	Effect of Preheated Palm Biodiesel on the Performance and Emission of Diesel Engine	International Journal of Research Culture Society	Special issue: 3 2018	ISSN: 2456-6683
3	Experimental Investigation on Perovskite Nanomaterial as an Additive for Biodiesel Fuel using Taguchi	International Journal for Research in Applied Science & Engineering Technology (IJRASET)	Volume 5 Issue VIII, August 2017	ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor:6.887
4	Wear and Friction Study of Ferroelectric Composite Nanomaterial on Pin on Disc Machine	IOSR Journal of Applied Physics (IOSR-JAP) www.iosrjournals.org	Volume 9, Issue 4 Ver. III (Jul. – Aug. 2017), PP 27-31	e-ISSN: 2278-4861.
5	Testing of Diesel Engine With Composite Nanomaterial as Fuel Additive	IJRSET - International Journal of Innovative Research in Science, Engineering and Technology	Volume 6, Special Issue 1, January 2017	ISSN (Online) : 2319 – 8753 ISSN (Print) : 2347 – 6710
6	Biodiesel-An Alternative Fuels in Internal Combustion Engine	International Journal for Scientific Research and Development)	Vol.4 Issue10,Dec-2016	ISSN(online):2321-0613

7	A Blend of Palm and Castor Biodiesel An Alternative Fuel for Diesel Engine	IJCR, <i>International Journal of Current Research</i>	Vol. 8 Issue:12 ,December 2016	ISSN:0975-833X
8	Experimental Investigation of Palm Biodiesel with nanomaterial as a Fuel Additive on Performance and Emission of Diesel Engine	IJRSET - International Journal of Innovative Research in Science, Engineering and Technology	Volume 5 Issue 11, November 2016	ISSN (Online) : 2319 – 8753 ISSN (Print) : 2347 – 6710
9	Performance Characteristics of CI engine with Perovskite composite Nanomaterial as Fuel Additive	IJRSET - International Journal of Innovative Research in Science, Engineering and Technology	Volume 5 Issue 11, November 2016	ISSN (Online) : 2319 – 8753 ISSN (Print)
10	Effect of composite Nanomaterial as Fuel Additive for Emission Reduction.	International Journal of Modern Trends in Engineering & Research	Vol3, Issue 12, December-16	e-ISSN:2349-9745 P-ISSN:2393-8161
11	Emission reduction using nanomaterial coated catalytic Converter	International Journal of Multidisciplinary Research	February 2015, vol. IV, issue 5(I)	ISSN 2249 – 7455
12	Diesel engine performance using Palm Biodiesel: An Alternative fuel	International Journal of Advances in Management, Technology and Engineering Sciences	February 2015, vol. IV, issue 5(I)	ISSN 2249 – 7455
13	Emission Characteristics of CI engine with Perovskite Composite Nanomaterial as fuel Additive	Bionano Frontier	December 2015	ISSN 0974-0678
14	Cerium oxide nanomaterial as an emission reducing fuel additive	Bionano Frontier	December 2015	ISSN 0974-0678
15	Prediction of Performance of Castor	IJMPE, ITR Journal	Vol.1, issue.1, 2013	ISSN:2320-2092

	oil Biodiesel in Diesel Engine			
16	Prediction of Performance and Emission of Palm oil Biodiesel in Diesel Engine	IOSR Journal of Mechanical and Civil Engineering	February 2013, Pg. 16-20	ISSN: 2278-1684
17	Castor oil Biodiesel an alternative fuel for Diesel in Compression ignition engine	IOSR Journal of Mechanical and Civil Engineering	Volume.3, April 2013	ISSN(e): 2278-1684 ISSN (p): 2320-334X
18	“Characterization and Analysis: An Innovative Technique for Nanotechnology “	IOSR Journal of Mechanical & Civil	Volume 3, 2013 (special issue)	ISSN :2278-1684 ISSN(p):2320-334X pp 00-00
19	“Variation of soil pH with different Binary solution”	INTERNATIONAL JOURNAL OF LIFE SCIENCES	Volume 1(2) 2013	ISSN:2320-964X(online) ISSN:2320-7817(Print) Pg.4
20	Indigenous Castor oil Biodiesel an alternative fuel for Diesel Engine	Interscience Open access Journal, International Journal of Mechanical and Industrial Engineering	Vol.2, issue.2, 2012, Pg.62-64	ISSN 2231-6477
21	Performance Characteristics of Diesel Engine operating with Preheated Palm Biodiesel	Lecture Notes in Mechanical Engineering, Springer Pub.	December 2012, Pg.123-129	DOI: 10:1007/978-81-322-1007-8_11 ISSN 2195-4364
22	Copper plate catalytic Converter: an Emission Control Technique	SAE International Journal	March 2008	SAE Number 2008-28-0104

Paper Published in National Journal:

Sr.no	Title of paper	Journal	Volume/issue	ISSN no. / DOI no.
1	Nanomaterial A Future Promising Material	JAAST:Material Science (Special Issue)	December - 2014,, Vol. 1, Issue 2, Page 260-264	ISSN: 2393-8188 (P) ISSN: 2398-8196 (O)
2	Nanomaterial A Fuel	JAAST:Material	December - 2014,,	ISSN: 2393-

	Additive For Biodiesel	Science (Special Issue)	Vol. 1, Issue 2, Page 265-268	8188 (P) ISSN: 2398-8196 (O)
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Paper Presented and Published in International Conference:

Sr no.	Title of paper	Organizing Institute	Date/period
1	Emission characteristics of diesel engine using palm biodiesel with copper oxide nanomaterial as an additive	ICRTESM-2017 Genba Sopanrao Moze ,College of Engineering, Belwadi-Baner, Pune	1-2 April'17
2	Experimental design of roof top solar system for smart distribution grid	ICETRESM2017 Navsahyadri Group of Institutes Faculty of Engineering, Naigaon Pune, India	23-25 March 2017
3	Testing of Diesel Engine With Composite Nanomaterial as Fuel Additive	ICRTES-2017 Government college of Engineering, Jalgaon.	21 March 2017
4	Electrical energy generation by using bicycle	ICETRESM 2017 Navsahyadri Group of Institutes Faculty of Engineering, Naigaon Pune, India	23-25 March 2017
5	An experimentation on seesaw for power generation	ICETRESM2017 Navsahyadri Group of Institutes Faculty of Engineering, Naigaon Pune, India	23-25March 2017
6	Smart city management using gsm technology	ICETRESM2017 Navsahyadri Group of Institutes Faculty of Engineering, Naigaon Pune, India	23-25March 2017
7	Experimentation on transmission line inspection by using robot	ICETRESM2017 Navsahyadri Group of Institutes Faculty of Engineering, Naigaon Pune, India	23-25March 2017
8	Experimentation on wireless speed control system for four quadrant dc	ICETRESM2017 Navsahyadri Group of	23-25March 2017

	motor	Institutes Faculty of Engineering, Naigaon Pune, India	
9	Experimentation on lamp illumination control with precision	ICETRESM2017 Navsahyadri Group of Institutes Faculty of Engineering, Naigaon Pune, India	23-25March 2017
10	A study of milk processing plant: a case study	ICETRESM2017 Navsahyadri Group of Institutes Faculty of Engineering, Naigaon Pune, India	23-25March 2017
11	Study of 100kw solar power plant	ICETRESM2017 Navsahyadri Group of Institutes Faculty of Engineering, Naigaon Pune, India	23-25March 2017
12	Emission Study of Catalytic convertor with coating of composite nanomaterial	ICAM-ASD 2016 Department of Production Engineering, Nanded	06-07 OCT'2016
13	Nanomaterial as Performance enhancing Fuel Additive	ICAM-ASD 2016 Department of Production Engineering, Nanded	06-07 OCT'2016
14	Emission reduction using nanomaterial coated catalytic Converter	International Conference on Paradigm Shift in Commerce, Engineering, Technology and Social Science K.J. Somaiya College of Arts, Commerce and Science, Kopargaon	30 th September 2014
15	Diesel engine performance using Palm Biodiesel: An Alternative fuel	International Conference on Paradigm Shift in Commerce, Engineering, Technology and Social Science K.J. Somaiya College of Arts, Commerce and Science, Kopargaon	30 th September 2014

16	Prediction of Performance of Castor oil Biodiesel in Diesel Engine	ICMPE, Pune	13 January 2013
17	Prediction of Performance and Emission of Palm oil Biodiesel in Diesel Engine	ICETE 2013, Dr. JJ. Magdum College of Engineering, Jaysingpur (Maharashtra)	22-23 February 2013
18	Indigenous Castor oil Biodiesel an alternative fuel for Diesel Engine	ICMIE, Goa	6 May 2012
19	Performance Characteristics of Diesel Engine operating with Preheated Palm Biodiesel	INCOSET, JJ College of Engg., and Tech., Tiruchirapalli, Tamil Nadu	13-14 December 2012
20	Copper plate catalytic Converter: an Emission Control Technique	ISFL-2008, Indian oil, research and Development centre Faridabad, Haryana	9-12 March 2008
21	Experimental Optimization of Perforated Copper Plate Catalytic Converter for Engine	ICRDME-2008, Shaheed Udham Singh college of Engineering and Technology, Tangori (Maholi)	23-25 January 2008
22	Copper as a catalyst: A future material for catalytic Converter	ICMF 2008, Government Engg., College, Thrissur, Kerela	17-19 January 2008

Paper Presented and Published at National Conferences:

Sr. no.	Title of paper	Organizing Institute	Date/period
1	Advances in Medical Diagnosis using Nanotechnology	FUTURIZM 2019: PDEA College of Engineering, Manjari, Pune	27-28 February 2019
2	Design and Validation of an effective steering system for ATV	FUTURIZM 2019: PDEA College of Engineering, Manjari, Pune	27-28 February 2019
3	Evaluation of Performance and Emission of Palm Biodiesel Engine	Sanjivani Vission 2018: SRES, Sanjivani College of Engineering Kopargaon	2018
4	Wear and Friction Analysis of Composite Nanomaterial	MECHPGCON-2019: Amrutvahini College of Engineering, Sangamner	21-22 June 2019
5	Effect of Preheated Palm Biodiesel on Performance and Emission of Diesel Engine	A National Seminar , Sanjyot 2018- Emerging Innovations and Strategic Business Practices at SRES,	02 nd and 03 rd February 2018

		SCOE, Kopargaon	
6	Analysis of performance and emission of Biodiesel with perovskite nanomaterial in Diesel Engine using Taguchi approach	Renewable Energy & Environment NCREE-2018, K.J.Somaiya College of Arts, Commerce and Science, Kopargaon	19-20 Jan'2018
7	Performance and emission analysis of Palm Biodiesel Engine	Renewable Energy & Environment NCREE-2018, K.J.Somaiya College of Arts, Commerce and Science, Kopargaon	19-20 Jan'2018
8	Municipal solid waste to electric energy conversion: a review	NCSPCMSM-2K17 K.J. College of Engineering & Management Research, Pune	15-16 March '2017
9	Nanomaterials for Sensors: A review	NINM-2016 Dept. of Physics, SNJB's KKHA Arts, SMGL Commerce and SPHJ Science College, Chandwad.	16-17 October' 2016
10	Experimental Investigation of Palm Biodiesel with Nanomaterial as a fuel additive on Performance and Emission of Diesel Engine	ATIME 2015 Advanced Technology and Innovations in Mechanical Engineering	January 22-24 2015
11	Cerium oxide nanomaterial coated catalytic converter for emission reduction	ATIME 2015 Advanced Technology and Innovations in Mechanical Engineering	January 22-24 2015
12	A Blend of Palm and Castor Biodiesel an Alternative fuel for Diesel Engine	(RDME-2014) Modern Education Society's College Of Engineering. Pune	13-14 March, 2014
13	Effects of Palm Biodiesel and Engine Load on Performance and Emission of Diesel Engine	ETP-2014 SGGS Institute of Engineering and Technology Vishnupuri, Nanded (MS)	January 10-11, 2014
14	Ferroelectric: Processing and Applications	NCRIGE-2013, Brijlal Biyani Science College, Amravati	8-9 February 2013
15	"Nanomaterial: Analysis And Characterization"	IETME-2013, Pune JS, COE, Hadapsar, Pune	21-22 March 2013
16	Characterization and Analysis: An Innovative Technique for Nanotechnology	Recent Developments in Mechanical Engineering' (RDME-2013) Modern Education Society's	26-27 April 2013

		College Of Engineering. Pune	
17	Castor oil Biodiesel and Alternative fuel for Diesel in Compression ignition Engine	RDME- 2013 Modern Education Society's College Of Engineering. Pune	26-27 April' 2013
18	Role of Nanomaterials: A review	Recent trends in Biophysics and Medical Electronics, KJ Somaiya College of Arts, Comm. And Science, Kopargaon	10-11 Feb. 2012
19	Recent trends in Nanomaterials	Sustainable Chemistry: Challenges and Oportunities, Dr. Babasaheb Ambedkar Marathwada University, sub- campus , Osmanabad	9-10 January 2012
20	Biodiesel Production with Nanotech- current state of art: A review	Sanjivani Vision 2012 SRES,COE, Kopargaon	24-26 March 2012
21	Nanotechnology : Biofuels & Fuel Additives	Sanjeevan-2012 organised by SRES, COE , Kopargaon	24-26 March 2012
22	Nanomaterials: Environment &Energy Potential	ESNRM-2012" organized by School of Environmental & Earth Sciences, North Maharashtra University, Jalgaon	9-10 January 2012
23	Emission studies of an Automobile using Methyl Esters of cottonseed and Karanja	Sanjivani Vision 2012 SRES,COE, Kopargaon	12-13 March 2011
24	Nanotechnology: Energy and Environment	SCIENCEA- 2K11, North Maharashtra University, Jalgaon	21-22 January 2011
25	Emerging trends in Nanotechnology	Sanjeevan-2011organised by SRES, COE , Kopargaon	12 th March 2011
26	Design and Development of Biomass gasifier	INNOVATION 2008, University of Pune	24-25 Nov. 2008
27	Utilization of Biogas in SI engine	Sanjivani Vision 08, SRES, COE, Kopargaon	8-9 August 2008
28	Performance of Biomass Gasifier using Wood	Sanjivani Vision 08, SRES, COE, Kopargaon	8-9 August 2008
29	Design and Development of Biomass gasifier	INNOVATION 2007, University of Pune	19-20 Nov. 2007
30	Performance of rice Husk Gasifier	TIME 2007, A.G.Awate college of Engg., Pune	5-6 September 2007
31	Biogas Generation from spent	National Conference on	25-26 Nov 2006

	wash – A portable Unit	Energy and Environment, organized by Jaipur Engineering College, Kukas, Jaipur	
32	Laminated Object Manufacturing under Rapid Prototype	NCRP-2006, organized by Visvesvarya National Institute of Technology, Nagpur	10-11 March 2006
33	Biogas- An Alternate fuel for Diesel Engine	National Conference on Energy and Environment, organized by Jaipur Engineering College, Kukas, Jaipur	25-26 Nov 2006
34	Global Warming and Clean Development Mechanism	Yantra-2005, organized by SVERI's College of Engineering, Pandharpur	23-24 December 2005
35	Automobile Engineering	ETA 2005, Computer science Department of Saurashtra University, Rajkot jointly by Amoghsiddhi education society, Sangli	1-2 October 2005
36	Throttle premixed	ETA-2005, organized by Computer science Department of Saurashtra University, Rajkot jointly by Amoghsiddhi education society, Sangli	1-2 October 2005.
37	Modification and Testing of 4 stroke SI Engine with 85% ethanol	atTIME – 2004, organized by KITs Warangal	27 December 2004
38	Deep Freezer with R-134a: an Ecofriendly refrigerant	RTIME- 2004, organized by SRES, COE, Kopargaon	23-24 July, 2004
39	Biodiesel – An alternate fuel for Diesel engine	e-Time 2004, organized by KDK College of Engineering, Nagpur	5-6 February, 2004
40	EGR- An Effective means for pollution control in Diesel engine	e-Time 2004, organized by KDK College of Engineering, Nagpur	5-6 February, 2004
41	Computer application in industries	National Conference organized by G.Pulla Reddy College of Engineering, Kurnool(AP)	9 th December, 2002

Paper Published in a book:

Sr. no.	Name of Paper	Book	Publisher
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1	“Nanomaterials: Environment & Energy Potential”	Recent trends in Environmental Sciences	Pritam Publications, Publishers of Scholarly books & International Journal, Jalgaon.
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Patent:

Patent Application No.	Title	Date
102/MUM/2014	Method of Emission Reduction of Diesel engine using Cerium oxide as a fuel additive	07/10/2014
1264/MUM/2015	Innovative Method of Conversion of Car to Bike and Vice Versa	31/03/2015