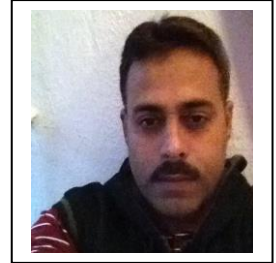


Faculty Profile

1. Name: Dr. Rajan Kumar



2. Department: Mechanical Engineering

3. Email id: rkumar.me@bitsindri.ac.in

4. Phone Number: +91 9431576131

5. Office Address: Associate Professor, Deptt. Of Mechanical Engg., BIT Sindri

6. Qualification:

S. No	Degree(UG, PG, PhD)	Specialization	Institute/University
1	B.E(Mechanical Engg.)	Mechanical Engg.	Nagpur University
2	M.E(Mechanical Engg.)	Heat Power	BIT Mesra, Ranchi
3	Ph.D (Mechanical)	Renewable Energy, Alternative Fuel	VBU Hazaribag

7. Area of Specialization: Renewable Energy, Alternative Fuel, Automobile Engg.

9. Subjects Taught:

Automobile Engg, SOM, Thermodynamics, Engg. Mechanics, Graphics etc.

10. Professional Experience:

Teaching Experience:

Sl. No.	Position held	Name of Organization	from	to
1	Associate Professor	BIT Sindri	18.02.2021	Till Date
2	Assistant Professor	BIT Sindri	07.09.2006	17.02.2021

11. Publications:

I)International Journal:

Sl. No.	Title of the paper	Name of the journal in which publication has been made	Vol/No.	Publication Year	Pages
1	"Waste cooking oil Biodiesel and its Blends as an alternative fuel for CI Engine"	International Journal of Research in Engineering application & Management (IJREAM), UGC journal	Vol.- 5, Issue 7,	2019	97-100,
2	"Waste Transformer oil as an alternative fuel for CI Engines: A Review"	International Journal of Research in Engineering and Advanced Technology, UGC journal	Vol.- 6, Issue 2	2018	138-142
3	"FTIR spectroscopy Investigation of waste transformer oil as an alternative fuel for CI Engine"	International Journal of Advanced Scientific Research in Engineering and Management (IJASRM), UGC journal	Vol.- 3-, Issue 9,	2018	195-198
4	"Environmental aspect of Kerosene blended waste plastic oil when	STAR Research Journal, UGC Journal	Vol.- 5, Issue 11(1)	2017	1-5

	fuelled in diesel engine"				
5	"Fourier transform infrared spectrophotometry studies of jatropha biodiesel and its blends for engine performance"	International Journal of Mechanical Engineering and Technology	Vol.- 7, Issue 5	2016	330-336
6	"Experimental comparison of performance characteristics of a single cylinder diesel engine fueled with jatropha biodiesel-diesel and kerosene oil-jatropha biodiesel-diesel blends",	International Journal of Mechanical Engineering and Technology	Vol.- 7, Issue 5,	2016	321-329
7	"Experimental evaluation of waste plastic oil and its blends on a Single Cylinder Diesel Engine"	Journal of Mechanical Science and Technology (JMST), (Springer)	Vol.-30, No.-10	Oct. 2016.	4781-4789
8	"Experimental comparison of Performance evaluation and Emission characteristics of a	International Journal of Mechanical Engineering and Technology	Vol.- 6, Issue 11	2015	183-194

	Single cylinder diesel engine Fueled with jatropha biodiesel-diesel and waste plastic oil-diesel”				
9	“Performance and emission study of Waste plastic oil and diesel blend in D.I. Single Cylinder diesel engine”,	International Journal of Mechanical Engineering and Technology (IGMET)	Vol-5, Issue 4	2014	90-95
10	“Performance and emissions study of Jatropha Biodiesel and its blends on C.I. Engine”	International Journal of Mechanical Engineering and Technology (IGMET)	Vol.-4, Issue 3	2013	85-93
11	“Characterization and effect of using waste polyethylene oil and diesel fuel blends in Compression Ignition engine”	Journal of Biofuels, Print Journal DOI-10.598/J.0976	Vol-3, No.- 2	2012	79-87

II) International Conference:

Sl. No.	Title of the paper	Name of the Conference in which publication has been made	Vol/No.	Publication Year	Pages
	“Performance and Emission Study of Raw	<i>International Conference on</i>	ISBN: 9788192958002	2017	44-48

	Karanja Oil on a Single Cylinder Diesel Engine”	<i>Science, Engineering & Technology (ICSET).</i>			
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III) National Conference :

Sl. No.	Title of the paper	Name of the journal in which publication has been made	Vol/No.	Publication Year	Pages
1	“Opportunities and Challenges in using Renewal Energy Sources-In Indian Scenario”	<i>National Conference on Advances in Environment Friendly Technology & their Management, Ranchi</i>	ISBN: 978-93-5268-009-2	2017	
2	“Need of Smart Cities for urban Development in India” National Seminar on smart city and its effect on environment and urban ecosystem	Cambridge Institute of Technology, Ranchi (Jharkhand)	ISSN: 0973-7057	2016	
3	“Waste plastic oil as an alternative fuel for diesel engine	” <i>National Seminar on Environmental Issues: Protection, Conservation and Management (EIPCM). BIT Sindri, Dhanbad</i>	ISBN: 978-93-85777-28-8	2016	

4	“Feasibility of waste plastic oil as an alternative fuel for C.I. Engine”	<i>All India Seminar on “Recent Advancement in Manufacturing and its Management”</i> Organised by Institutions of Engineers at BIT Sindri,		2014	
5	“Experimental Investigation on the Performance and Emissions Characteristics of a Jatropha Oil on C.I. Engine”	<i>Energy and Environment for Sustainability (EES)</i> , BIT Sindri, Dhanbad	ISBN: 978-93-82880-18-9	2013	120-123
6	“Potential of Jatropha Oil as an alternative fuel for C.I. Engine”	National Seminar on “ <i>Indian Nuclear Power Programme: Challenges and Opportunities</i> ” BIT Sindri, Dhanbad		2012	
7	“Performance of Non-Edible Karanja oil on C.I. Engine”	National Seminar on “ <i>Indian Nuclear Power Programme: Challenges and Opportunities</i> ” BIT Sindri, Dhanbad		2012	

12. Symposium/ Workshop/Seminar/ Attended

Sl. No.	Title of Symposium/ Workshop/Seminar/ Short – term Courses	Date	Organizing Institute
1	Recent Advances in Manufacturing	From 27.11.18 to 01.12.18	BIT Sindri
2	Summer Training Programme on “Active Learning”	from 18.6.18 to 22.6.18	IIT Gandhinagar
3	ANN and Deep Learning	from 11.6.18 to 15.6.18	BIT Sindri

4	ICT Skills for Teachers	from 19.06.17 to 24.06.17	BIT Sindri
5	Digital Transformation in Teaching Learning Process	From 6-4-2020 to 22-4-2020	IIT Bombay
6	Green Energy Technologies for Sustainable Development	From 11-06-2020 to 20-06-2020	NIT Kurukshetra
7	Personality Development	From 26-10-2015 to 06-11-2015 Nov. 2015	BIT Sindri, Dhanbad sponsored by ISTE
8	National Workshop on Intellectual Property Rights	On 26-10-2013	BIT Sindri, Dhanbad
9	Performance Enhanceent Skills	From 23-07-2012 to 3-08-2012	BIT Sindri, Dhanbad
10	Improving Teaching Competency for 21 st Century Learners	From 19-12-2011 to 30-12-2011	NITTR, Kolkatta

13. Administrative Position Held:

S. No.	Position Held	From (date/month/year)
1	Professor In charge of Transport Deptt. of BIT Sindri.	From 2013 to March 2019
2	Professor In charge of Society of Mechanical Engg. (SAE BITSINDRI).	From 2013 to till date
3	Start up facilitator of BIT Sindri	From Nov.2017 to till date.
4	Coding Officer of Examination Deptt. of BIT Sindri	For odd sem. 2017.
5	Member of Accounts and expenditure committee of various Clubs and Societies of BIT Sindri	From March 2017 to till date

14. Award / Recognition Bestowed on Faculty (State / National / International)

- Reviewer of various international reputed journals like Energy (Elsevier Publication), International journal of Mechanical Engineering, International journal of Exploring Emerging trends In Engineering (IJEETE) etc.
- Guided and representing the team 'WONDERS' of BIT Sindri for the event competition BAJA SAEINDIA at Pitampura, Delhi on Feb. 2012.
- Guided and representing the team of BIT Sindri for the event competition VIRTUAL BAJA SAEINDIA at Gujarat Technological University, Ahmadabad on Aug. 2014.
- Guided and representing the team of BIT Sindri for the event competition SUPRA SAEINDIA at Budha International circuit, Noida(U.P).
- Received 'Best Researcher Award' in International Scientist Awards on Engineering, Science & Medicine held on Feb.-2021, Pondicherry (India) organized by VDGGOOD Professional Association

15. Members of Professional Bodies:

- Associate Member of Institution of Engineers: Membership No: AM097613-2
- Life Member of Indian Society of for Technical Education(ISTE): Membership No: LM 83660
- Member of Indian Society of Automobile Engineering(SAE)
- Hong Kong society of Mechanical Engineers, Membership no.- m2017070202001
- The Indian Science Congress association, Membership no.-A2643