

## FACULTY PROFILE



**NAME** : **DEVDAAS BHIKULAL LATA**

**DATE OF BIRTH** : 16.06.1963

**PERMANENT ADDRESS** : Dr. D.B. LATA  
SAKKER SATH, UDASI BADA  
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**INSTITUTE** : GOVERNMENT COLLEGE OF  
ENGINEERING, AMARAVATI.

### ACADEMIC QUALIFICATION

EXAMINATION	BOARD/UNIVERSITY	YEAR OF PASSING
S.S.C.	NAGPUR DIVISIONAL BOARD	1978
H.S.S.C.	NAGPUR DIVISIONAL BOARD	1980
B.E. (MECHANICAL)	NAGPUR UNIVERSITY	1985
M.E. (Thermal Power)	AMRAVATI UNIVERSITY	1996
Ph.D. MECHANICAL ENGINEERING.	BIRLA INSTITUTE OF TECHNOLOGY (DEEMED UNIVERSITY)	2012

**TITLE of Ph.D THESIS:**

“Some Investigations on the Performance of the Dual Fuel Diesel Engine with Hydrogen and LPG as Secondary Fuels”.

## **PUBLICATIONS:**

### **INTERNATIONAL JOURNALS:**

1. **Lata DB**, Misra A, Kumar A, Chandra R. Effect of Light on Generation of Hydrogen by *Halobacterium halobium* NCIM 2852 (2007). *Int. J. Hydrogen Energy* 32, 3293-3300. (Impact Factor **4.05**). ISSN: **0360-3199**.
2. **Lata DB**, Misra, A. (2010). Theoretical and experimental investigations on the performance of dual fuel diesel engine with hydrogen and LPG as secondary fuels. *Int. J. Hydrogen Energy* **35**, 11918-11931. (Impact Factor **4.05**). ISSN: **0360-3199**.
3. **Lata DB**, Misra, A. (2011). Analysis of ignition delay of a dual fuel diesel engine with hydrogen and LPG as secondary fuels. *Int. J. Hydrogen Energy* **36**, 3746-3756. (Impact Factor **4.05**). ISSN: **0360-3199**.
4. **Lata DB**., Misra, A., Medhekar S., (2011). Investigations on the combustion parameters of a dual fuel diesel engine with hydrogen and LPG as secondary fuels. *Int. J. Hydrogen Energy* **36**, 13808-13819. (Impact Factor **4.05**). ISSN: **0360-3199**.
5. **Lata DB**, Misra, A., Medhekar S., (2012). Effect of addition of hydrogen and LPG on the performance and emissions of a dual fuel diesel engine. *Int. J. Hydrogen Energy* **37**, 6084 - 6096. (Impact Factor **4.05**). ISSN: **0360-3199**.
6. **Lata, DB**, Misra, A. (2012). Experimental investigations on the performance of dual fuel diesel engine with hydrogen and LPG as

secondary fuels. Advances in Intelligent and Soft Computing, Volume 141 AISC, 2012, Pages 119-128.

7. Dhole AE, Yarasu RB, **Lata DB**, Abhishek Priyam (2014). Effect on performance and emissions of a dual fuel diesel engine using hydrogen and producer gas as secondary fuels. *Int. J. Hydrogen Energy* **39**, 8087 - 8097. (Impact Factor **4.05**). ISSN: **0360-3199**.
8. Dhole AE, Yarasu RB, **Lata DB**, SS Baraskar (2014). Mathematical Modeling for the Performance and Emission parameters of Dual Fuel Diesel Engine using Hydrogen as Secondary Fuel. *Int. J. Hydrogen Energy*, 39, 12991 -13001. (Impact Factor **4.05**). ISSN: **0360-3199**.
9. Dhole AE, Yarasu RB, **Lata DB**, SS Baraskar, Shaw D (2014). Mathematical Modeling for the Performance and Emission parameters of Dual Fuel Diesel Engine using Producer gas as Secondary Fuel. *Biomass Conv. Bioref. DOI 10.1007/s13399-014-0142-6*. (Springer). ISSN: 2190-6815 (Print) 2190-6823 (Online).
10. GK Prashant, **DB Lata**, PC Joshi. Investigations on the effect of ethanol blend on the combustion parameters of dual fuel diesel engine. *Applied Thermal Engineering*. 96 (2016), 623–631. ISSN: **1359-4311**.
11. GK Prashant, **DB Lata**, PC Joshi. (2016) Investigations on the effect of methanol blend on the combustion parameters of dual fuel diesel engine. *Applied Thermal Engineering*, 103 (2016) 187–194, ISSN: **1359-4311**.
12. Dhole AE, Yarasu RB, **Lata DB** (2016). Effect of hydrogen and producer gas as secondary fuels on combustion parameters of

a dual fuel diesel engine. Applied Thermal Engineering 108 (2016)  
764–773.

**BOOK:**

“Investigations of Dual Fuel Diesel Engine with Hydrogen and LPG”.

ISBN: 978-3-659-15025-8. Published by LAP LAMBERT Academic Publishing  
GmbH & Co. K G, Germany.

**Book Chapter:**

1. Effect of rate of pressure rise on a dual fuel diesel engine with hydrogen and LPG as secondary fuels. Energy Conservation and Environment Protection (An International Edition) 75-86. May 2016. International Research Publication House. ISSN 978-93-84443-54-2.
2. Energy Conservation and Environment Protection (An International Edition) Effect of LPG addition on emissions of a dual fuel diesel engine 199-221. May 2016. International Research Publication House. ISSN 978-93-84443-54-2.

**National Journal:**

1. Investigation on parameters of methanol fuel and its blend on a diesel dual fuel engine. Volume 8 issue 2 (2016) 38-45. (April 2016). Carbon Science and Technology, 0974-0546.
2. Investigation on the performance and emission parameters of dual fuel diesel engine with mixture combination of hydrogen and producer gas as secondary fuel. Volume 8 issue 2 (2016) 21-28. (April 2016). Carbon Science and Technology, 0974-0546.

## INTERNATIONAL CONFERENCE:

1. **Lata, DB**, Misra, A. (2010). Experimental investigations on the performance of dual fuel diesel engine with hydrogen as secondary fuels. *Eight Asia-Pacific Conference on Combustion*, 744-749.
2. Prashant GK, **Lata DB**, Leela P, Joshi PC (2013). Experimental study on various parameters of single droplet combustion of ethanol, methanol and its mixtures. 9<sup>th</sup> Asia-Pacific Conference on Combustion, Gyeongju Hilton, Gyeongju, Korea 2013, 640-643.

## NATIONAL CONFERENCE:

1. Lata D.B., S. Lahane, Anant Dhole. Effect of hydrogen and LPG addition on the combustion duration of a dual fuel diesel engine. XXIII National conference on I.C.Engine and Combustion (Combustion Institute) at S.V.N.I.T. Surat, Dec. 2013.
2. Lata D.B., Ashok Misra. Experimental investigation on the performance of dual fuel diesel engine with LPG as secondary fuel. XXII National conference on I.C.Engine and Combustion (Combustion Institute) at N.I.T. Calicut, Dec. 2011, 136-141.
3. Raahul K., Narula A., Singh A., **Lata D. B.**, Performance analysis of blended diethyl ether in Karanja vegetable oil and its utilization in dual fuel diesel engine. XXII National conference on I.C. Engine and Combustion (Combustion Institute) at N.I.T. Calicut, INDIA, Dec. 2011, 97-102.
4. **Lata D. B.** "Effect of light on Biohydrogenation." in XIX<sup>th</sup> National Conference on Internal Combustion Engine, by Combustion Institute (Indian Section), Chidambaran. Dec. 2007.
5. **Lata D.B.**, "Reduction in Particulate matter in Exhaust Emission from Diesel Engine by using Oxygenated fuel additives" in XV<sup>th</sup> National Conference on Internal Combustion Engine, Anna University, Chennai, Dec. 1997.
6. GK Prashant, **DB Lata** and PC Joshi. (2015) Investigations on the Performance Parameters of Ethanol and its Blends on a Diesel Dual Fuel Engine. XXIV National Conference on Internal Combustion Engine, by Combustion Institute (Indian Section), UPES, Dehradun. Page no. 216.
7. **DB Lata**, Subhash Lahane and Prashant GK. (2015) Investigations on the Rate of Pressure Rise of a Dual Fuel Diesel Engine with Hydrogen and

LPG as Secondary Fuels. XXIV National Conference on Internal Combustion Engine, by Combustion Institute (Indian Section), UPES, Dehradun. Page no. 298.

8. YH Ahire, Subhash Lahane, NG Patil and **DB Lata**. (2015) Investigation of Combustion, Performance and Emission Characteristics of a Castor Biodiesel Fuelled Compression Ignition Engine. XXIV National Conference on Internal Combustion Engine, by Combustion Institute (Indian Section), UPES, Dehradun. Page no. 237.

**SPONSORED PROJECT:**

Sr .N o.	Position	Project Title	Government Funding Agencies	Amount	Dur at ion	Remark
1.	Co- Investigator	Cold Storage cum Dehydration of Vegetables through Solar- Biomass Gas Hybrid System.	Ministry of Food Processing Industries, Govt. of India.	67 Lac	2007- 2009	Completed
2.	Principal Investigator	Design and Development of Hydrogen assisted dual Fuel diesel Engine.	Ministry of Industries, Govt. of Jharkhand.	10 Lac	2009- 2011	Completed
3.	Principal Investigator	Design and Development of Bio-gas assisted dual Fuel diesel Engine for Rural Electrification.	Jharkhand Council of Science and Technology, Govt. of Jharkhand.	05 Lac	2017- 2019	Under going
4.	Co- Investigator	Development of Preservation	Jharkhand Council of	05 Lac	2017- 2019	Under going

		Technique for local Musroom Rugra.	Science and Technology, Govt. of Jharkhand.			
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**Editorial board memberships:**

Guest Editor: Carbon Science and Technology-2016 (Volume 8-issue 2)

Guest Editor: Carbon Science and Technology-2016 (Volume 8-issue 3)

**Organized International Conference on “Alternative Energy Sources” as Organizing Secretary On 29-30 January, 2016.**

**Organized Two day Workshop on “Advances in Automobile Engineering” as Organizing Secretary On 29-30 Sept., 2016.**

**EXPERIENCE:**

Organization	Period	Post	Working Experience
Birla Institute Of Technology, Mesra, Ranchi	01.6.2010 To Till Date	Associate Professor	Teaching And Principal Investigator In “Design.....” Ministry of Industries.
Birla Institute Of Technology, Mesra, Ranchi	01.6.2007 To 31.05.2010	Lecturer (Selection Grade) (Mech. Engg)	Teaching Co-Investigator in “Cold Storage and Dehydration...”MFPI.
Birla Institute Of Technology, Mesra, Ranchi	5.9.03 To 31.05.2007	Sr. Lecturer (Mech. Engg)	Teaching Co-Investigator In “Cold Storage and Dehydration...”MFPI.
S.V.P.M's. Institute of Tech. & Engg, Malegaon (B K)	25.2.99 To 4.9.03	H.O.D. (Auto Dept.)	Administration & Teaching.
S.V.P.M.”S. College Of Engineering, Malegaon (B. K).	1.11.98 To Feb.99	Asst. Prof.	Teaching.
Maharashtra State Road Transport Corporation	20.8.91 To 25.10.98	Asstt. Works Supdt.	In charge of Repairing & Preventive Maintenance with Top Overhauling of Heavy & Light Motor Vehicles.

Kirloskar Oil Engine Ltd. Pune.	22.10.88 To 5.11.90	Sr. Engineer	Shop Floor In charge of Assembling and Testing of Diesel Engine and Production Line of Small Plain Bearings.
General Reserve Engineering Force (GREF) BRDO.	5.3.86 To 15.10.88	Supdt. E / M Grade- .I	Looking After Maintenance & Repairing of Heavy Equipment's and all Types of Heavy and Light Vehicles.
Nagpur Polytechnic, Nagpur.	01.10.85 To 01.03.86	Lecturer	Teaching

**Laboratory Developments:**

- 1) Hydrogen Energy Laboratory.
- 2) Solar-biomass Cold storage plant.
- 3) Dehydration Laboratory.

**Additional Responsibility:**

I had worked as Deputy Controller of Examination, Birla Institute of Technology, Mesra, Ranchi, from Sept. 2011 to 31<sup>st</sup> Oct. 2012. Presently, additional responsibility of warden of Research Scholar Hostel, Secretary of Birla Institute of Technology Consumers Co-operative Stores Limited and Secretary of BIT Staff Club.

(Dr. D .B. LATA)