Dr. Girish Manoharrao Deshmukh

Professor (CAS),

Department of Petrochemical Technology

Laxminarayan Institute of Technology

Rashtrasant Tukadoji Maharaj Nagpur University

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Academic Qualifications:

B. Tech (Chemical Engineering), 1987, Amravati University,

M. Tech (Petro-chemical Technology), 1989, L.I.T. Nagpur University,

Ph.D. (Chemical Engineering), 2005, Dr. B. A. Tech. University, Lonere.

***** Research Interest:

Biofuels, Heterogeneous systems, Catalysis and Reaction Engineering.

***** Experience:

A) Industrial Experience:

Sr.	University/Organization	Post	Period of service		Years
No.	omversity/organization	1 031	From	То	Tears
1	DCL Polyesters Ltd., Nagpur	Assistant Engineer	December 21,	November 7,	2 Years
1	DCL Folyestels Ltd., Nagpul		1989	1991	2 Tears

B) Teaching Experience:

Sr.	University/Organization	Post	Period	Year/	
No.	Omversity/Organization	1 051	From	To	Month
1	Dr. Babasaheb Ambedkar Technological University, Lonere	Lecturer	November 11,1991	November 10,1997	06
2	Dr. Babasaheb Ambedkar Technological University, Lonere	Lecturer (senior scale grade)	November 11,1997	November 10,2002	5 year



		Lecturer (selection	November 11,2002	June 20,2003	7 month	
		scale grade).	May 24,2004	September 23, 2005	1 year 4 month	
3	Dr. Babasaheb Ambedkar	Assistant Professor	June 21,2003	May 23,2004	11 month	
3	Technological University, Lonere	Assistant Professor	September 24,2005	December 31, 2005	3 month	
		Associate Professor	January 1, 2006	May 14, 2013	7 years 4 month	
		Associate Professor	August 1, 2013	August 5, 2013	5 days	
4	Laxminarayan Institute of Technology; Rashtrasant Tukadoji Maharaj Nagpur University Nagpur	Director	May 15, 2013	July 31, 2013	2 month 15 days	
5	Laxminarayan Institute of Technology; Department of Petrochemical Technology Rashtrasant Tukadoji Maharaj Nagpur University Nagpur	Head and Associate Professor	August 6, 2013	August 6, 2016	03 Years	
6	Laxminarayan Institute of Technology; Department of Petrochemical Technology Rashtrasant Tukadoji Maharaj Nagpur University Nagpur	Head and Professor	August 6, 2016	Till Date	Years	
	Total Experience					

C) Administrative experience at University level:

Sr.	University/Organization	Post	Period of	Year	
No.	Omversity/Organization	Post	From	To	. I cai
1	Dr. Babasaheb Ambedkar Technological University, Lonere	I/C Registrar	October 11, 2010	April 14, 2013	2 years 6 months
2			January 20,2007	October 10, 2010	3 years 9 months

	Dr. Babasaheb Ambedkar		May 8,	March	04 years
	Technological University,	Head, Department of	1992 June 22,	1996 August	
	Lonere	Petrochemical	2001	31, 2001	02 month
	Laxminarayan Institute of	Technology			
	Technology;	recimology	August 06,2013	July 06, 2021	07 years 10 months
	R.T.M Nagpur University		00,2013	2021	months
	Dr. Babasaheb Ambedkar	Chief Rector of			
3	Technological University,	University Hostels	June 2006	June 2009	03 yrs
	Lonere	Oniversity Hosters			
	Dr. Babasaheb Ambedkar		December	January	
	Technological University,		14, 2005	2008	02 yrs
4	Lonere	Officer Training and Placement	14, 2003	2008	
4	Laxminarayan Institute of		July 16,2018	Till Date 03 ye	
	Technology;				03 years
	R.T.M Nagpur University		10,2016		
	Dr. Babasaheb Ambedkar	Assistant Rector of	July	December	04 yr
5	Technological University,	University Dhavalgiri	20, 2001	2005	6 month
	Lonere	Hostel			
	Dr. Babasaheb Ambedkar	Rector of University	T	June 2009	03 yrs 6
6	Technological University,	Gagangiri Hostels	January 2006		
	Lonere	Gagangiii Hosteis	2000		month
	Dr. Babasaheb Ambedkar	Academic Council	June 2003	May 2006	03 years
7	Technological University,	Member		1,14, 2000	os yeurs
	Lonere	Wember	January 2007	May 2013	06 years
8	Dr. Babasaheb Ambedkar	Purchase committee	1 1002	March 31,	01 year
	Technological University, Lonere	member	June 1992	1993	or year
	Dr. Babasaheb Ambedkar	Board of studies of Petrochemical Engineering	September 7, 1995	March 1996	01 years
9	Technological University, Lonere		January 20,2007	May 2013	06 years

10	Rashtrasant Tukadoji Maharaj Nagpur University Nagpur	Member Incharge of University skill development & Entrepreneurship Guidance center	September 05,2013	January 18,2019	5 yrs 4 months
11	Rashtrasant Tukadoji Maharaj Nagpur University Nagpur	BOS member of Chemical Technology	September 2013	Till Date	8 years
12	Laxminarayan Institute of Technology; R.T.M Nagpur University	R.T.I Officer	August 2013	Till Date	8 years
13	Laxminarayan Institute of Technology; R.T.M Nagpur University	IIChe Co- ordinator/Member	July 2014	Till Date	7 years
14	Laxminarayan Institute of Technology; R.T.M Nagpur University	Head, Pulp and Paper Technology	December 2014	July 2019	4 yrs 7 months
15	Laxminarayan Institute of Technology; R.T.M Nagpur University	L.I.T Management Committee Member	December 09,2015	Till Date	6 year s

D) Research experience:

Sr.	University/Organization	Topic	Period of	Period of research	
No.	Omversity/Organization	Торіс	From	To	Year
1	UGC sanctioned Major	Oxidative Absorption of			
	Research Project	Hydrogen Sulfide using	28/12/2008	June 2012	03
	F. No. 34-391/2008 (SR)	Iron Chelate Complex	20/12/2000		
	dated 26/12/2008				

2	National Chemical Laboratory, Pune(during my Ph.D. work)	Heterogeneous combustion reactions of VOC's	March 1999	October 21,2003	04
3	Dr. Babasaheb Ambedkar Technological University, Lonere(Ph.D. students working under my guidance)	Chelate degradation and Heavy metal removal	October 2005	October 2009	04
4	Dr. Babasaheb Ambedkar Technological University, Lonere (M.Tech./Ph. D. students working under my guidance)	Alternative fuels (Biodiesel, Gasohol)	March 2007	Till date	
5	L.I.T RTM Nagpur University,(Ph.D student)	Eco and environmental friendly bio-diesel and its blend	December 12,2016	Till date	

E) Member of Professional society

- i. Life member of Indian society for technical education (ISTE), LM 12217
- ii. Life member of catalysis society of India.
- iii. Life member of Indian Institute of Chemical Engineers (IIChE) LM

1) Publications (International 12, National 04, In process 06)

A) Publications in International Journal: Publications in National Journal:

Sr. No.	Name of Authors	Title of Paper	Name of the	Issue	Year
			Journal	No.	of Publication
1	G. M. Deshmukh	Re-refining of used	Chemical	11	November 1999
		lubricating oil	Engineering World		
2	G. M. Deshmukh	Acid Effects on Liquid –	Chemical Weekly,	45	1999 (163-166)
		Liquid Equilibria	Mumbai		
3	G.M. Deshmukh,	Poweralcohol: Effect of	Chemical	06	2003 (75-76)
	S. N. Randive and M.	Ethanol Blending	Engineering World		
	M. Shekh	in Gasoline			

4	G.M. Deshmukh,	Fuel Ethanol: Design of	Chemical	08	2004(75-77)
	T. K. Shaikh, D. K.	azeotropic distillation	Engineering World		
	Chalke and Narendra	column			
	Kumar				

2) Conferences (International 01, National 13):-A) International Conference:

Sr.No.	Name of Authors	Title of Paper	Presented At	Year
1	G.M. Deshmukh,	Kinetics of the	17 th International congress of	27-31 st August
	V. R. Choudhary	complete combustion	chemical and process engineering	2006
		of dilute methane,	(CHISA),	
		propane and toluene over Mn-doped	Prague, Czech Republic,	
		ZrO ₂ catalyst		

(B) National Conference:

Sr.No.	Name of Authors	Title of Paper	Presented at	Year
1	G.M. Deshmukh,	Prevention of hazardous through technological alternatives	Indian society of Environmental Science and Technology (ISEST), Ratnagiri	February 22-23 rd , 1997
2	G.M. Deshmukh, and V. S. Sathe	Pollution due to hazardous pollutants and emission sources from petrochemical industry	Indian society of Environmental Science and Technology (ISEST), Ratnagiri	February 22-23 rd ,1997
3	G.M. Deshmukh, and V. S. Sathe	Environmental Audit (ISO 14000)	Indian society of Environmental Science and Technology (ISEST), Ratnagiri	February 22-23 rd ,1997
4	Chaudhari S. V. and G.M. Deshmukh	Oxidative degradation of chelates in redox desulfurization	CHEMCON 2007, Kolkata	December 27-30, 2007
5	Chaudhari S. V. and G. M. Deshmukh	Biogas-Renewable resource for power generation	CHEMCON 2007, Kolkata	December 27-30, 2007
6	G.M. Deshmukh, Aparna Shete and Deepali Pawar	Oxidative absorption of hydrogen sulfide using Iron-chelate based process: Chelate Degradation	Institute of Technology, Nirma University, Ahmedabad- 382481	December 8-10, 2011

7	G. M. Deshmukh and Anjali Kurve	Biogas production from vegetable waste 7eachate: As an alternative energy renewable	"Avishkar"RTM Nagpur University, Inter-Collegiate Research Festival 2013-2014	3 rd -4 th January 2014
8	G. M. Deshmukh and Eshan Y. Jambhulkar	Catalytic Processing of Vegetable oils into Jet Fuel range Hydrocarbon using Heterogeneous Catalysts	National Level Technical Event TECHNO-thlon 2016 College of Engineering and Technology, Akola	11 th February 2016.
9	G. M. Deshmukh and Vaishali Waghmare	Thermodynamic Modeling of Pyrolysis Process	National Conference on Inter and Intra Disciplinary Blend of Chemical Engineering CHEMIX' 16 IIChE Nagpur Regional Centre and IIChE Students' Chapter, VNIT, Nagpur on	2 nd -3 rd April 2016
10	G. M. Deshmukh and Vaishali Waghmare	Experimental study of effect of Pressure on Pyrolysis of Biomass	National Conference on Advanced Technology, NCOAT-NIRMITI- 2016 Priyadarshini Institute of Engineering and Technology, Nagpur on	11 th -12 th March 2016
11	G. M. Deshmukh and Sujit Modi	Reduction of Fuel consumption in Gasoline Engines by Introducing HHO gas into Intake manifold	Nagpur Science and Engineering Fair Raman Science Centre and Planetarium, Nagpur in collaboration with Technology Park, RTM Nagpur University and Indian Science Congress, Nagpur	19-21 February 2015
12	G. M. Deshmukh	The comparison of optimization technique for batch distillation technique	CHEMCON 2016,Kolkata	27-30 December 2016
13	G. M. Deshmukh	Study of physio- chemical properties and phase separation behavior of ethanol- diesel blends of CI engine	CHEMCON 2016,Kolkata	27-30 December 2016

3) Research and Development Projects (R & D and MODROB)

Sr.	Type	of	Sponsoring Agency	Project topic	Amount	Completed/ongoing
No.	Project				Proposed	
					(lakhs)	

1	MODROB	AICTE, New Delhi	Petroleum Testing and Research Lab	15.00	Completed. Ref no. 8024/RIFD/MOD- 05/2011-12dated Jan ,02,2012
2	MODROB	AICTE, New Delhi	Modernization of Polymer/Petroleum Testing laboratory	13.5	Completed (2006)
3	Major Research Project	UGC, New Delhi	Oxidative absorption of hydrogen sulfide by iron chelate complex	12.00	Completed F. No. 34-391/2008 (SR) dated 26/12/2008
4	Research Project	RTMNU UGC Research Project	Reduction of Fuel Consumption in Gasoline Engines by Introducing HHO gas into intake manifold	3.00	Completed 2015-2016
5	Faculty Development Programme	AICTE, New Delhi	Catalysis & Reaction Engineering	4.32	Completed 1. 16-27 th March 2020 2. 22 nd February-6 th March 2021
6	Consultancy project	Foto-Chem Tech Pvt.Ltd, Nagpur	Bio-fuel from Green Biomass	2.0	November 2022

4) Ph.D research fellow/students working under my guidance:

Year of	Programme	Name of Student	Topic	Status
registration				
2010	TEQIP (Networking)	Ms Sonali Choudhary	Study on Heterogeneous System	Awarded (2014)
December 12,2016	R.T.M Nagpur University	Mr. Sunil Chikte	Eco and environmentally friendly bio-diesel and its blend	In Process

5) Workshop organized:

Sr. No.	Name of	Topic	Organized at	Date
	Coordinator			of programe

1	G.M. Deshmukh,	Energy	Dr. Babasaheb Ambedkar	December
	and	conservation and	Technological University, Lonere	15-16 ,2006
	V. V. Mahajani	auditing in chemical	(Raigad)	
		process industries		
2	G.M. Deshmukh,	Chemical Plant	Dr. Babasaheb Ambedkar	December
	and	Utilities	Technological University, Lonere	21-22, 2007
	V. V. Mahajani		(Raigad)	
3	G.M. Deshmukh,	Steam Engineering-	Dr. Babasaheb Ambedkar	January
	and	Innovative	Technological University, Lonere	16-17, 2009
	V. V. Mahajani	Approach	(Raigad)	

6) Expert Lecture Delivered:

Sr.	Topic	Programe for	Organized at	Date
No.				of programe
1	Oil and Gas Projects	Post graduate	NICMAR, Pune	September 07
		students of		to January
		NICMAR		2008
2	Petroleum Refining	L&T (Larson and	Dr.BabasahebAmbedkar	November 13-
	Design of pipe still heater	Tubro) software	TechnologicalUniversity,	15,2008
	Chemical Reaction	training programe	Lonere (Raigad	
	Engineering			
3	Multicomponent Distilliation	B.Tech Chemical	V.I.T Vellore	August 12-13
	Charectarization of Crude oil	Engineering students		,2019

7) Seminar/Workshop/Training attended A) ISTE Two weeks courses attended:

Sr. No.	Topic	Organised at	Date of programe
1	Operation and maintaince of equipments	M. S. University of Baroda,	October
	in petrochemical engineering	Vadodara	14-23, 1992
2	Total quality management	Sardar Patel college of	March
		Engineering, Mumbai	16-27, 1998
3	Management and control of	Jabalpur Engineering College,	October
	environmental constraints	Jabalpur	3-15, 1998
4	T.Q. M. –Total Quality management	Walchand Institute of	23 November-
		Technology, Solapur	4 December 1998
5	Environmental engineering systems	VRCE, Nagpur	June
	optimization		11-22 ,2001
6	Total quality management	G. H. Raisoni Polytechnic,	29 October-10
		Nagpur	November 2001

B) Seminar/Workshop Attended:

Sr. No.	Topic	Organised At	Date of programe
1	14 th National symposium on CATSYMP-98	Department of Chemistry, Anna	December
		University, Chennai	16-18, 1998
2	Petroleum refining and petrochemical	LIT, Nagpur	January
	technology		11-12, 1997
3	XXV Annual convention of ISTE	VRCE, Nagpur	December
4	Tabaiana additiona mana and materiana	UT Manula:	29-31, 1995
4	Lubricant additives, waxes and petroleum speciality products	IIT, Mumbai	February 17-19, 1995
5	8 th LAWPSP symposium	IIT, Mumbai	January
3	o Litvi si symposium	iii, wumbai	21-23, 1993
6	Petrochemical-2000	IIT, Mumbai	September
		,	12, 1992
7	Sludge treatment and membrane technology	Dr. BATU, Lonere(India and school	January
		of water science, Cranfield Uiversity	16-25, 2001
		U.K.)	
8	Heterogeneous Catalysis	Banaras Hindu University,	June 25-30,2001
0	CATCYAD 15 1 IDCAT 2 N 1	Varanashi	т
9	CATSYMP-15 and IPCAT-2 National symposium on catalysis	National Chemical Laboratory, Pune	January 23-25, 2001
10	Sixth annual convention of Maharashtra – Goa	Dr. BATU, Lonere	December
10	section of ISTE	DI. BATO, Loncie	14-15,2001
11	Industry-Institute interaction	College of Engineering, Pune	April 27-28,2006
	(under TEQIP)		
12	Creativity and Innovation Techniques and	Dr. BATU, Lonere	April 20-21, 2006
	patenting in India and abroad		
13	Management capacity and vision development	Sinhagad Institute of Management,	January
		Pune	20-22, 2006
14	Total quality management in technical	Dr. BATU, Lonere	January
15	education	LIT Name	23-24, 2006
13	Energy environment and waste management	LIT, Nagpur	January 14-15,1993
16	Carbon credits from steam savings- Revisit	Indian Chemical Council, Chennai	December 5, 2008
10	energy conservation plans	matan chemical council, chemia	Becember 3, 2000
17	Patents & Related Issues	RTMNU Technology Park, Patent	October
		Cell, Nagpur.	28-29, 2013.
18	Virtual Classroom	RTMNU Technology Park, Nagpur.	January 16,2014
19	Workshop on National Skill Qualification	AICTE hosted at Zulelal Institute of	January 4,2015
	Framework(NSQL)	Technology	,,2010
19	Two days workshop on Chemical Reactor	MIT, Department of Chemical	December 3 rd -4 th
	Design "Attainable Region Approach"	Engineering, Alandi, Pune	2015
20	Safety Hazardous	R.I.L Nagothane organised by	September 5-7 th ,
20	Safety Hazardous	CCPS,AIChe	2017
22	AICTE Workshop on Curriculars		
22	AICTE Workshop on Curriculam	Thakur Engineering college,	February 21st,2018
22	Development	Kandivali, Mumbai	T 1 0 14 2010
23	Outcome based Education and NBA process	M.I.T, Aurangabad	July 9-14, 2018
24	An Insight towards Assessment &	IQAC RTM Nagpur University,	July 29,2020
	Accreditation Process for Affiliated Colleges	Nagpur	
	in India		

c) Training program attended:

Sr. No.	Topic	Organised At	Date of programe
1	Industrial safety, fire protection and first aid	DCL Polyesters Ltd., Nagpur	December 21-23, 1989
2	Analysis of pesticides	Yawalkar Pesticides Pvt. Ltd.,	September
		Nagpur	11- November 10, 1989
3	In-plant Training	Akola Oil Industry Ltd, Akola	June 17- July 8, 1986
4	Training programme on HPLC	Chemito Technologies Pvt.	December 14-16, 2004
		Ltd., Nashik	
5	Novel Separation Technique in Process Industries	VNIT, Nagpur	November 23–27 th , 2009
6	Moodle Workshop on Learning Management	RTM Nagpur University,	June 1-4 th , 2021
	System	Nagpur	

D) M. Tech. Projects guided:

Sr. No.	Name of Student	Year of	Торіс	Status
		Registration		
1	Mr. Khandalkar Umakant	2005-2006	Liquid phase oxidation of P-Cresol:	Completed
			Catalyst product	
2	Ms. Khelkar Suvarna	2005-2006	Catalytic alkylation of Phenol	Completed
3	Mr.Undirwade Nitin	2006-2007	Removal of Heavy metal from Waste Stream	Completed
4	Mr. Mulla P N	2007-2008	Microwave assisted reaction	Completed
5	Miss Deepali Pawar	2008-2010	Oxidative absorption of hydrogen sulfide	Completed
6	Rahul Gorde	2013-2014	Absorption of H2S form Bio-gas Chelate Degradation	Completed
7	Anjali Kurve	2013-2014	Alternative Renewable Energy Source: Biogas from Vegetable waste Leachate	Completed
8	Rahul B. Mahalle	2014-2015	Ethanol Utilization in Diesel Engine	Completed
9	Mousmi S. Chakravorty	2014-2015	Design of Atmospheric Distilliation Coloum	Completed
10	Eshan Jambulkar	2015-2016	Experimental And Exhaust emission analysis of Diesel engine operating with Ethanol-diesel blend.	Completed
11	Vaishali Waghmare	2015-2016	Pyrolysis: Thermal treatment of solid waste	Completed
12	Punam Bagde	2015-2016	Optimization of Batch Distilliation Coloumn by Genetic Algorithm	Completed
13	Aditya Lanjewar	2016-2017	Diesel Ethanol Blending with Effect of HHO	Completed
14	Harish Baviskar	2016-2017	Diesel water emulsified Fuel	Completed
15	Divyani Jadhav	2017-2018	Enzymatic Biodiesel production: A process development	Completed
16	Preeti Sinha	2017-2018	Biodiesel production using micro reactor and batch reactor:Optimization by RSM	Completed

15	Raj Kamble	2018-2019	Removal of Hydrogen Sulphide from biogas using Iron chelate process	Completed
16	Ashwajeet Gajbiye	2018-2019	Design of Crude Distilliation Unit	Completed
17	Pranav Labade	2018-2019	Redox reaction of Red mud & storium carbonite	Completed
18	Yash Kumbhare	2019-2020	Compressed Biogas as an alternative Fuel	Completed
19	Vrushali Rewatkar	2019-2020	Catalytic Ozonation of Textile Effluent	Completed
20	Piyush Kant	2020-2021	Design of CDU and VDU using ASPEN	Completed
21	Himanshu Malwe	2022-2023	Biofuel from Green biomass	In-process

E) B. Tech. Projects guided: 220

List of major projects:-

i.	Design of Multicomponent petroleum		
	distillation column	ii.	Combustion of volatile organic compounds
iii.	Thermal cracking of hydrocarbons.	iv.	Biodiesel: An alternative fuel.
v.	Re-refining of used lubricating oil.	vi.	HHO as an Alternative Fuel.
vii.	Acid effect on liquid-liquid equilibria.	viii.	Compressed Biogas as an alternative fuel
ix.	Gasohol: An alternative fuel.	X.	Desulphurization

I) Subjects Taught:

At post graduate level:-		At Under Graduate level:	
1.	Advanced Chemical	Reaction	Chemical Reaction Engineering
	Engineering		Unit Operations (Solid- Fluid Operation).
2	Advanced Petroleum Refining.		2. Unit Operations (Solid-Titul Operation).
2.	2. Advanced i choleum Kerning.		3. Heat Transfer.

3.	Multicomponent Distilliation	4.	Petroleum Refinary Engineering.
4.	Catalysis and Reaction Engineering.	5.	Petrochemical Process Engineering.
		6.	Energy Conservation and Management.
		7.	Process Equipment Design and Drawing.