

Curriculum Vitae

Dr. Rakesh Mukunda Musale

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Pune, Maharashtra, India.

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Work Experiences:-

Lecturer: July 2023 – May 2024, worked in PDEA'S Waghire College, Saswad, Pune

Research Associate:- Oct. 2022 – June 2023, worked in ICAR- CIRCOT, Mumbai,

“Characterization and utilization of paddy straw and other agro residue for conversion into pellets for co-firing of thermal power plant”.

Lecturer: Jan. 2022- Sept. 2022, worked in Kasturi Shikshan Sanstha's, Shikrapur, Pune

Assistant Manager (R&D Lab):- Nov.2019- July 2021 worked in **Chiripal group of industries**, Ahmedabad, India.

- Excellent exposure in chemistry, polymer science, acrylic binders, PVAc dispersions, colloidal chemistry and smart coatings.
- Water based radical polymerization for the development of textile binders, poly (vinyl acetate) dispersion based adhesives, paint and coating binders.
- Evaluation of products by using analytical technique.
- Laboratory setup, instrument handling, SOP preparation and standardization of product as per IS, ISO, ASTM standards.

Project assistant (March 2011-March 2012), **National Chemical Laboratory, Pune**

I have worked on the project entitled “**Phosgene free Synthesis of Carbamates and Urease**” and also worked on the project entitled “**Conversion of Glycerol to Value Added Chemicals**”.

Technical Skills:

IT skills-

- ❖ MS office
 - ❖ Chem draw, ISIC draw
 - ❖ Scifinder, Scopus & Reaxys
 - ❖ Delta NMR
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Educational Qualification:-

Ph.D. (Chemistry)	:-March 2012-March 2017
Topic of Research	:-Studies in depolymerization of waste poly (ethylene terephthalate) & utilization of the products obtained there from
University	:-Institute of Chemical Technology, (Formerly UDCT), Mumbai, India. (www.ictmumbai.edu.in)
Research Supervisor	:- Prof. S. R. Shukla
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PGD-CTM (Part time 2012-2014)	: -Post Graduate Diploma in Chemical Technology management
University	:-Institute of Chemical Technology, (Formerly UDCT), Mumbai, India.(www.ictmumbai.edu.in)
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M.Sc. (Organic Chemistry)	:-August 2008-June 2010
University	:-North Maharashtra University, Jalgaon, Maharashtra, India. (www.nmu.ac.in)
Class	:-First Class with Distinction
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B.Sc. (Chemistry)	:- August 2005-June 2008
University	:-North Maharashtra University, Jalgaon, Maharashtra, India. (www.nmu.ac.in)
Class	:-First Class with Distinction

International Publications:

1. Deep eutectic solvent as effective catalyst for aminolysis of polyethylene terephthalate (PET) waste.

R.M.Musale, S.R.Shukla*

International journal of Plastic technology, June 2016, Volume 20, Issue 1, pp 106-

120.

2. Weight reduction of polyester fabric using sodium hydroxide solutions with additives cetyltrimethylammonium bromide and [BMIM]Cl.

R.M.Musale, S.R.Shukla*

Journal of Textile Institute, DOI:10.1080/00405000.2016.1171029

Conferences:

- Oral presentation at “**Global Textile Congress**” 13th-15th February 2015 at Bangkok, Thailand.

Workshop and research related courses.

- ✓ Selected and attended “**Orientation Program in Catalysis Research**” conducted by National Center for Catalysis Research, **Indian Institute of Technology Madras (IIT Madras)** on 2nd Dec. 2013 to 19th Dec. 2013.
- ✓ Attended workshop on “**processing of Indian /Foreign Patent Applications**” conducted by **Rajiv Gandhi National Institute of Intellectual Property Management**, Nagpur on 29th-30th Nov. 2012.
- ✓ Attended workshop on “**Laboratory Safety Workshop**” conducted by Department of Chemistry (ICT Mumbai) on 20th -21st March 2013

Personal Details

Date of Birth	:	5 th September 1986
Sex	:	Male
Nationality	:	Indian
Marital Status	:	Married
Language	:	English, Hindi, Marathi.
Residence	:	B 305, Mantra Moments, Moshi, Pune, Maharashtra, INDIA.

References:

Prof. S.R. Shukla (F.M.A.S)

Dept. of Fibres & Textile Processing Technology,
Institute of Chemical Technology, Matunga,
Mumbai-400019, Maharashtra, India

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