

## CURRICULUM VITAE

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### Career Planning

I have a good knowledge in the field of textile fibres and processing of textiles. I have also worked in the field of epoxy/unsaturated polyester resin composites and oil based green composites as my whole PhD research is based on that. I would like to work in the field of Research and Development, Production, Marketing and sales, etc. If given chance.

### Education

Institute of Chemical Technology, Ph.D. (Sci)- Textile chemistry, PhD completed (2015-2019)

Institute of Chemical Technology, M.Sc.- Textile chemistry, (2012-2014)

Mumbai University, B.Sc.-Chemistry, Mumbai, (2008-2011)

### Research Experience

2015 -2019: Ph.D. (Sci) in the topic of "***Use of natural polymers in green composites***" under the guidance of Prof. R.D Kale. Work was mainly focused on by synthesizing novel oil based green composites using natural reinforcements which were screened and their application potential were examined.

- Synthesis of edible oil was carried out using epoxidation and acrylation
- Resin formation was carried out
- Natural reinforcement were used for composite fabrication
- Similar work was carried out using epoxy resin and unsaturated polyester resin also.
- Experimental experience in design expert software.

### Work experience and certification

- Pursued two and half months from 16<sup>th</sup> December 2013 to 22<sup>nd</sup> February 2014 at BASF Chemical company Turbhe at ATCT lab and have worked on "***Study of different printing packages***" using pigment printing on polyester cotton blends, cotton knits & poplin have an experience in handling stenter, zimmer machine etc.
- Attended 2 days safety workshop held on 1-2 September 2016 organized by department of chemistry supported by TEQIP ICT Mumbai
- Have completed the training course on "***Fibre reinforced composites***" at ICAR- Central research Institute for Research on Cotton Technology, Mumbai from 7<sup>th</sup> to 9<sup>th</sup> February, 2018.
- Has worked as volunteer in workshop on "***Process intensification in Dyeing***" conducted by Department of fibres & textile processing technology ICT Mumbai.

### **Publications**

- Kale, R.D., Jadhav, N.C. and Pal, S., 2019. **Fabrication of green composites based on rice bran oil and anhydride cross-linkers.** *Iranian Polymer Journal*, pp.1-12.
- Jadhav, A.C., Pandit, P., Gayatri, T.N., Chavan, P.P. and Jadhav, N.C., 2019. **Production of Green Composites from Various Sustainable Raw Materials.** In *Green Composites* (pp. 1-24). Springer, Singapore.
- Kale, R.D. and Jadhav, N.C., 2019. Utilization of waste leather for the fabrication of composites and to study its mechanical and thermal properties. *SN Applied Sciences*, 1(10), p.1231.

### **Unpublished work**

**Mustard oil thermosets using n vinyl 2 pyrrolidone as crosslinking agent for scrap paper composites. Under Publication process**

**Utilization of scrap leather for composite fabrication based on mustard oil and N vinyl 2 pyrrolidone crosslinkers. Under Publication process**

### **Skills**

Microsoft Office, Photoshop, Origin, MS excel, Good Grasping power, Good Observer, Fast learner. Also handled testing machines like , UTM (Instron), izod impact, compression moulding, , coating machine (Taskar), spectrophotometer, stenter, zimmer.

### **References**

#### **Prof. (Dr.) R. D. Kale**

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ICT (formerly UDCT), Matunga, Mumbai - 400 019

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#### **Prof. (Dr.) R. V. Adivarekar**

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**Declaration**

I hereby solemnly declare that all the fact mentioned above are true and correct to the best of my knowledge and belief.

Place: ICT, Mumbai.

Date: 20/10/2019 (Nilesh C Jadhav)