



SHIVAJI UNIVERSITY, KOLHAPUR

DEPARTMENT OF TECHNOLOGY

Vidyanagar, KOLHAPUR- 416 004 (INDIA)

NAAC 'A' Grade with CGPA 3.16

Dr.Pravinkumar D.Patil

Phone: +91 0231-2020020 , Fax: +91 231 269233

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Assistant Professor E-mail: pdpchem@gmail.com: pdp_tech@unishivaji.ac.in



Birth date: 01/06/1973 **Date of Joining:** 10/07/2009 **Date of Superannuation:** 01/06/2033.

Language competency: English, Hindi, Marathi

Academic credentials: *Note: International (Intl.); National (Natl.); Grants in lakhs; Participation (Parti.)

Publications: Intl. (Natl.)	4(7)	Citation index	Nil
<i>h</i> -index		<i>i</i> -10 index	Nil
Research Gate Score	2.96	Research Gate total impact point	0.5
IF range (Total) Average	05-3.5	Paper with IF > 2 (> 5) > 10	02 (00)00
Research projects as PI (Co-PI)	2(0)	Total project grants	3.85
Patents	Nil	Invited talks	Nil
Research guidance: Ph.D. (Total)	Nil	Research guidance: M.Phil/M.S./B.Tech Groups	20
Number of books Intl. (Natl.)	Nil	Conference organized (Convenor)	Nil
Conferences: Intl. Parti. (Attd.)	Nil	Conferences: Natl. Parti. (Attd.)	10(3)
Training prog. attended Intl.(Natl.)	00(23)	Training prog. Organized Intl.(Natl.)	
Instrumental in active MoU Intl.(Natl.)	00(1)	Experience- Teaching (Research)	21(6)
Member of Academic body Intl.(Natl.)	00(2)	Member of Editor. Board Intl.(Natl.)	Nil

Broad research areas: 1. Value addition to agro based products 2. Water and energy conservation 3. Use of natural resources for chemical manufacture 3. Green Chemistry & Green technology

Specific research areas:

- ❖ Restoring Heat Transfer Efficiency Through Magnetically Treated Water
- ❖ Adsorption of dyes using low cost adsorbents
- ❖ 'Extraction and Characterization of eco-friendly Textile colourants from Natural Sources'
- ❖ Increasing Yield of Active Contents through Novel Extraction of Innovatively Cultivated Plants'
- ❖ 'Design of low cost adsorbent systems using agro-wastes'

Benchmark achievements:

- ❖ Development of a novel extractor for solid-liquid extraction especially for natural products.
- ❖ Completed one UGC minor project: "Increasing yield of active contents through novel extraction of innovatively cultivated plants".

National/International Award/Recognition: Achieved National Merit Scholar at SSC examination

National/International Collaborations/Joint projects: Nil

Productive contribution/output of Natl./Intl. MoU: Elixir Consultants UK Ltd, 24 Airyhall Avenue, Aberdeen, UK

National/International Project Grants: UGC minor Research Project, Grant INR 1.35 Lakh

National/International Industry consultancy/Joint projects/work: Nil



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Contribution towards incubation cell/ Entrepreneurship: Promote students to opt for entrepreneurship as a career.

Academic visit to other countries (Academic assignments): Nil

Additional computer skills: Nil

Additional academic skills/activities: Handled 5 different core Chemical Engineering subjects. The course material is prepared for these subjects. The course material includes ICT based learning for 2 subjects out of these 5. Designed the outcome based curriculum in these subjects.

Additional social activities: Use to take active participation in national literacy mission, mentor poor and needy students from village and around for career choosing. I use to write in the newspaper on the scope of Engineering education in general and Chemical Engineering Education in particular.

Administrative experience: I am working as a Program Coordinator for B.Tech(Chemical Technology) at the University Department of Technology. Also working as member on Board of Studies for Courses related Sugar Technology, one by MSBTE and the other is BSc & MSc Sugar Tech by Shivaji University namely

Representative 10 latest publications (*encompassing research expertise*)

1. Patil P.D. & Mahajan S.D, 'Magnetically Treated Water: A Boon for Textile Industry To Conserve Energy. Case Study', TEXMACH INDIA, Nov-Jan2007, p 38
2. Patil P.D. & Mahajan S.D, 'Energy Conservation Through Magnetically Treated water', Beverage & Food World, June 07, Vol.34, No.6, p 29
3. PatilP.D & Mahajan S.D, 'Magnetically Treated Water: A Boon for Textile Industry To Conserve Energy', Urjavarán, Vol.01, No 05 Feb 2008, p 56
4. Patil P.D, 'Natural dyes making their way back to a golden age', Textile Asia, July2012, pp. 29-31
5. Patil P.D and others, 'Revival of Natural Dyes: Smart use of Bio-diversity', Colourage, October2012,pp.33-38
6. Patil P.D and others, 'Taguchi optimization for efficient extraction of a natural dye from *Bougainvillea glabra* Bracts', IJRET, April 2014,pp 23-30
7. Patil P.D and others, '*Butea frondosa* dye extraction optimization through Taguchi Design', Prog.Color Colorants Coat, Centre of Excellence, Institute of Color Science and Technology, Iran Govt. September 2014, pp. 25-35.
8. Patil P.D and others, 'Mass transfer enhancement through optimized extraction of a natural dye from *Bougainvillea glabra* bracts', IJNPR, CSIR-NISCAIR, New Delhi Vol.5(4)December 2014, pp.332-337.
9. Patil P.D and others, 'Natural Color Extraction From Amaranth and Beetroot: A Review', Indian Journal of Applied Research, Vol.5(5), May 2015, pp.7-8.
10. Patil P.D and others, 'Cashew-nut husk Natural Dye Extraction Using Taguchi Optimization: Green Chemistry Approach', Indian Journal of Scientific and Industrial Research, Vol.74 (9), September 2015, pp.512-517.

(Dr. Pravinkumar D Patil)
Signature