



## Profile of the Faculty

### 1. General Information:

Name of the Faculty	:	Dr. Jyotsna S. Thakur
Name of the Department	:	Chemistry
Educational Qualifications	:	M.Sc., M. Phil. Ph.D.
Present Position	:	Assistant Professor
Address for Correspondence	:	602 A, Balaji Angan, Near S.T. Depot, Panvel, Dist. Raigad 410206
E-mail	:	thakurjyotsna@gmail.com
Contact Number	:	9004691558
Specialization	:	Analytical Chemistry
Total teaching experience	:	20 yrs
Courses taught	:	B.Sc., M.Sc.
Research experience	:	10 yrs
Number of students registered for Ph.D. degree	:	02
Number of students awarded Ph.D. degree	:	--
Number of students registered for P.G degree by research	:	01
Number of students awarded P.G degree by research	:	--

### 2. Publication of Research Papers:

UGC listed journals	:	<b>13</b>
Peer reviewed journals	:	<b>13</b>
Non-peer reviewed journals	:	--
Conference proceedings	:	<b>10</b>

### 3. List of Publication of Research Papers:

- Synthesis, Structural Characterization and Thermal Stability of Nano-crystalline Rare-Earth Chromates ( $\text{RECrO}_4$ ) and Rare-Earth Chromites ( $\text{RECrO}_3$ ), Nanoscience and Nanotechnology Letters 3 (5), 648-654 (2011)

- Effect of Host Structure and Concentration on the Luminescence of  $\text{Eu}^{3+}$  and  $\text{Tb}^{3+}$  in Borate Phosphors, *Journal of the American Ceramic Society* 95 (2), 696-704 (2012)
- Synthesis and Characterization of Nanocrystalline  $\text{In}_2\text{O}_3$  and Its Efficacy as a Catalyst for the one pot Synthesis of Amidoalkyl Naphthols, *Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry* 43 (4), 471-478 (2013).
- Chromium doped nano  $\text{In}_2\text{O}_3$  – An efficient catalyst for synthesis of benzoxazoles and 3, 4-dihydropyrimidin-2(1H)-ones, *International Journal of ChemTech Research* 9 (7), 366-377 (2016)
- Synthesis of Bio-active N-Heterocycles using Nanocrystalline  $\text{Dy}_2\text{O}_3$ , *Indo American Journal of Pharmaceutical Research*, 6, 5772-5779, (2016).
- Combustion synthesized Cobalt Ferrite Nano-particles as Magnetically Recyclable Catalyst for Synthesis of Benzimidazole Derivatives, *Nanoscience & Nanotechnology-Asia* 8 (2), 281-288 (2018).
- Adsorptive removal of fluoride using polymer modified ceria nano-particles: determination of equilibrium, kinetic and thermodynamic parameters, *Separation Science and Technology*, 1-15 (2019).
- Rapid Removal of  $^{152+154}\text{Eu}(\text{III})$  Using Polyaniline/Ceria Nanocomposite from Low Level Waste, *Journal of Inorganic and Organometallic Polymers and Materials* (2020).
- HMF as a Quality Indicator in *Garcinia indica* Fruit Juice Concentrate *Current Research in Nutrition and Food Science Journal* 6 (1), 227-233. (2018).
- Bioaccumulation of Heavy Metals in *Tilapia Mossambicus* Fish from Industrially Polluted Patalganga River, India, *International Journal of Advanced Research* 3 (2), 486-490 (2015)
- Potential Health Risk due to the Bioaccumulation of Heavy Metals in the Fish found in Dharamtar Creek, India, *International Journal of Engineering Technology Science and Research* 2 (7) 13-18 (2015).
- Assessment of Potential Dietary Toxicity of Heavy Metals in *Tilapia Mossambica* in the Industrially Polluted Area of M.I.D.C. Taloja, India *International Journal of Engineering Technology, Management and Applied Sciences*, 3(7), 85-90 (2015).
- Bioaccumulation of Heavy Metals in Various Tissues of *Tilapia Mossambicus* fish found in Gadhi River, Panvel, India, *International Journal of Engineering Technology Science and Research* 4(10), (2017).

#### 4. Minor Research Project Completed:

Title of the project	Date of sanction	Duration	Grant received	Funding agency
Synthesis And Characterization of Nano-Particles and Their Scope in Catalysis	25 <sup>th</sup> November 2010	1 year	25,000	University of Mumbai
Study of bio-accumulation of metal in some edible fish from industrial area nearby Panvel, dist. Raigad.	19 <sup>th</sup> April 2012	2 years	1,10,000	UGC
Synthesis and Characterization of Magnetic Nanoparticles and their Applications in Catalytic Organic Transformation	16 <sup>th</sup> January 2017	1 year	25,000	University of Mumbai

#### 5. Membership:

- 1) Life Member of society of material chemistry, B.A.R.C. , Mumbai
- 2) Life Member of Indian Women Scientist Association, India
- 3) Life Member of The Indian Science Congress
- 4) Association of Chemistry Teachers

#### 6. Academic Staff College Orientation/Refresher courses attended:

Name of the Course/ Summer Course	Place	Duration	Sponsoring Agency
Orientation Course	Academic Staff College, Goa University	15/05/2010 to 11/06/2010	UGC, New Delhi
Refresher Course	Academic Staff College, University of Mumbai, Mumbai	01/10/2012 to 20/10/2012	UGC, New Delhi
Refresher Course	Academic Staff College, University of Mumbai, Mumbai	27/10/2014 to 15/11/2014	UGC, New Delhi

Short Term Course	Human Resource Development Centre, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad	01/06/2015 To 06/06/2015	UGC, New Delhi
Short Term Course	Human Resource Development Centre, University of Mumbai, Mumbai	10/12/2018 To 15/12/2018	UGC, New Delhi
AICTE approved FDP course	NPTEL and IIT Madras	27/01/2020 To 01/05/2020	MHRD/Swayam

### 7. Participation in conferences, symposia, seminars and workshops:

Level	Presented paper	Only attended	Chaired session	Resource person
International	2	2	--	--
National	7	15	--	--
State	--	2	--	--
University	1	12	--	--

### 8. Conferences, symposia, seminars and workshops organized as convener/co-convener:

Level	Convener	Co-convener
International	--	--
National	--	02
State	--	--
University	--	--

- Member, organization committee, N.S.S. National Integration Camp organized by N.S.S. regional center, Pune and Ministry of Youth Affairs and Sports, Govt. of India at C.K. Thakur Arts, Commerce and Science College, New Panvel.

### 9. Experience on the various committees at the college:

- 1) Chairperson, Cultural Committee (1999-2000)
- 2) Chairperson, Student Council and Student Welfare (1999-2000)
- 3) Member, IQAC (2006 till date)
- 4) Member, Gymkhana Committee (2006-2009)

- 5) Member, Alumni Association (2006-2009)
- 6) NSS Programme Officer (2010-2017)
- 7) Editor: Anugoonj, Research Journal of College (2012 till date)
- 8) Member, Research Committee (2019 till date)
- 9) Member secretary, IPR Cell (2019 till date)
- 10) Member-Board of Studies in Chemistry (2019 till date)
- 11) Co-ordinator: M.Sc. Analytical Chemistry (2012 till date)

**10. Experience on the NAAC/ IQAC of the college:**

- 1) Member, IQAC
- 2) Incharge, Criteria VI: Governance, Leadership and Management (2006 to 2018)
- 3) Incharge, Criteria III: Research, Innovation and Extension (2018 to till date)