



॥ विद्या विनयेन शोभते ॥

Janardan Bhagat Shikshan Prasarak Sanstha's

CHANGU KANA THAKUR

**ARTS, COMMERCE AND SCIENCE COLLEGE, NEW PANVEL
(AUTONOMOUS)**

Re-accredited 'A+' Grade by NAAC (3rd Cycle - CGPA 3.61)

'College with Potential for Excellence' Status Awarded by UGC




'Best College Award' by University of Mumbai





Department of Chemistry

Research Center




1.	Name of the Incharge of center	:	Prof. (Dr.) B. V. Jadhav
2.	Date of the establishment:	:	2007-2008
3.	No. of research guides at present	:	07
5.	Intake Capacity of the Research Centre	:	30
6.	No. of the Ph.D. Scholars awarded PhD degree till date	:	15
7.	No. of the Ph.D. Students enrolled for the Ph.D. under the centre	:	29

Research Guides





Sr. No.	Name of the Research Guide & Designation	Date of Recognition	
1.	Prof. (Dr.) S. K. Patil Designation:- Professor & Principal	2 nd May 2012	
2.	Prof. (Dr.) B. V Jadhav Designation: - Professor	16 th August 2012	
3.	Prof. (Dr.) V. D. Patil Designation: - Professor	28 th November 2011	

4.	Prof. (Dr.) B. D. Aghav Designation: - Professor	2 nd March 2017	
5.	Dr. J. S. Thakur Designation: - Assistant Professor	27 th August 2015	
6.	Dr. S. S. Patil Designation:- Assistant Professor & Director Student Development University Of Mumbai	14 th July 2016	
7.	Dr. S. N. Vajekar Designation: - Associate Professor	23 rd February 2022	

No. of the students Completed Ph.D. Degree from Research Center: 15

Research Guide: Dr. M.M. Shaikh		
Sr. No.	Details of The Student	
1.	Name: Dr. Sunil S. Patil Registration No.: 8/ 20-8-2009 Topic: Characterization and biological Studies on some Mixed Ligand Dioxouranium and Thorium Complexes with N- and O- Ligands Year of Completion: Nov 2011	
Research Guide: Dr. R.S. Lokhande		
2.	Name: Mrs. Bodhake A. S. Registration No.: 12/ 17-02-2010 Topic: Studies on Some Mixed Ligand Complexes of Copper, Zinc and Lithium with Polydentate Ligands Year of Completion: 2012	
3.	Name: Dr. Mhetar Jayanta Registration No.: 15/ 30-07-2010 Topic: Polymorphsim study of novel drug Year of Completion: June 2013	




4.	<p>Name: Dr. Aghav Balasaheb Dagadu Registration No.: 14/ 20-07-2010</p> <p>Topic: Synthesis, Spectral, characterization & Biological studies on some mixed ligand complexes of La(iii) & Co(iii) metal ion with 2,3-dimethyl-1-phenol-4-salicylidine 3-pyrazolin-5-one & nitrogen /oxygen donar ligands Year of Completion: Jan 2013</p>	
5	<p>Name: Dr. Dandekar Deepika N. Registration No.: 13/ 19-07-2010 Topic: Standardization of some medicinal plants having antipyretic & analgesic activity Year of Completion: Dec 2013</p>	
<p>Research Guide: Prof. (Dr.) S.K. Patil</p>		
6	<p>Name: Dr. Deokar Hrushikesh P Registration No.: 25/ 30-03-2017 Topic: Synthesis of Bioactive heterocyclic molecules containing oxygen & nitrogen Year of Completion: March 2015</p>	
7	<p>Name: Dr. Nirmalkar Sudhakar A. Registration No.: 55/ 20-11-2015 Topic: Synthesis, characterization & Biological activity of nbenzimidazole analogs Year of Completion: Aug 2018</p>	




8.	<p>Name: Dr. Pargaonkar Jyotsna G. Registration No.: 24/ 20-03-2013 Topic: Synthesis of thermochromic and photochromic colorants for Hi –rich applications Year of Completion: March 2020</p>	
9.	<p>Name: Dr.Vibhute Baliram T. Registration No.: 81/ 01-07-2012 Topic: Synthesis, characterization & microbial screening of metal complex derived from Quinaline Schiff's base Year of Completion: July 2022</p>	
<p>Research Guide: Prof. (Dr.) V.D. Patil</p>		
10.	<p>Name: Dr. Sutar Nagesh Registration No.: 28/ 18-06-2013 Topic: Synthesis and characterization of biologically active organic compounds using metal catalysts Year of Completion: April 2017</p>	
11.	<p>Name: Dr. Patil Ketan P. Registration No.: 05/ 13-07-2014 Topic: Synthesis of biologically active Heterocyclic compounds using Organometallic catalysts Year of Completion: Feb 2018</p>	




Research Guide: Prof. (Dr.) B.V. Jadhav		
12.	<p>Name: Dr. Shaikh Sajid F. Registration No.: 52/ 07-11-2015 Topic: Synthesis, Characterization and Applications of Mixed Metal Oxide Containing 3d Transition Elements Year of Completion: Nov 2018</p>	
Research Guide: Dr. S.S. Patil		
13.	<p>Name: Dr.Pawara Jitendra M Registration No.: 63/ 08-05-2017</p> <p>Topic: Synthesis characterization & applications of mixed ligand Ni(ii) complexes & their Nanoparticals Year of Completion: Feb 2022</p>	
14.	<p>Name: Dr.Patil Digambar K. Registration No.: 62/ 25-02-2012 Topic: Synthesis spectral biological investigation of mixed ligand lanthanides complexes Year of Completion: Feb 2022</p>	
Research Guide: Dr. J.S. Thakur		
15.	<p>Ms. Zirpe Maheshwari R. Registration No.: 80, 24/09/2018 Topic: Synthesis characterization of Transition metal and rare earth based oxide nanoparticles and nanocomposites for water remediation. Year of Completion: Sept 2023</p>	





List of Registered (Ph.D.) Students




Ph.D. in Science in the Subject of Chemistry





Sr. No.	Name of the Student	Name of the Guide	Topic	Date of (Admission)/ Registration/	Photo
01	Mr. Umasare Tushar Shivaji	Prof. (Dr.) S.K. Patil	Synthesis, Characterization and Biological studies of some metal complexes with Novel Schiff Bases of Acenaphthaquinone	Th./ICD/2015-16/6140, 07/11/2015 45, 25/08/2015	
02	Ms. Patil Chaitrali Sudhir	Prof. (Dr.) S.K. Patil	Green Synthesis, Characterization and Bioassay of Medicinal Plants - mediated Nanoparticles and Its Catalytic Use in the Synthesis of Novel Bioactive Heterocycles.	Th./ICD/2022-23/126, 20/04/2022 108, 22/12/2022	
03	Mr. Sonawane Harshad Ramesh	Prof. (Dr.) S.K. Patil	Synthesis, Characterization and Medicinal Applications of Some Transition Metal Complexes Derived from Novel Heterocyclic Substituted Quinoline Containing Schiff Base Ligands	Th./ICD/2022-23/3247, 31/01/2023 119, 12/12/2022	




04	Mr. Surve Amit Dhondu	Prof. (Dr.) S.K. Patil	Synthesis of magnetically separable ferrites and study on their catalytic and biological Properties.	147/25/2024 03/11/2023	
05	Mr. Gaikwad Prabhakar Appaso	Prof. (Dr.) B.V. Jadhav	Synthesis, Characterization & Application of Nano Sized Mixed Metal Oxides.	Th./ICD/2015- 16/7316, 12/01/2016 56, 26/11/2015	
06	Mr. Pinjarkar Amol Digambar	Prof. (Dr.) B.V. Jadhav	Synthesis Characterization and applications of some nanocrystalline mixed-metal oxides of 3d Transition metals	Th./ICD/2018- 19/529, 19/05/2018 68, 11/08/2017	




07	Mr. Nikam Amol Kashinath	Prof. (Dr.) B.V. Jadhav	Fabrication of Metal/Metal Oxide Nanoparticles using Green Chemistry approach and their applications in Biomedical and Catalysts	RAPC/ICD/2021-22/2515, 22/09/2021 105, 30/06/2021	
08	Ms. Patil Chetana Padmakar	Prof. (Dr.) B.V. Jadhav	Study of Photocatalysis and Microwave Absorption of Green Synthesized Ferrites Doped with Different Metals	Th./ICD/2023-24/2021, 13/10/2023 122, 25/07/2023	
09	Ms. Sonali Ravindra Nikam	Prof. (Dr.) B.V. Jadhav	Study of structural, dielectric and magnetic properties of magnetic and non-magnetic ions substituted spinel ferrites and it's applications.	- 23/10/2023	


10	Mrs. Jadhav Sunita Baburao	Prof. (Dr.) V.D. Patil	Application of Fly Ash, an Industrial Waste as a Novel Catalyst for Pharmaceutical Preparations	Th./ICD/2015-16/7316, 12/01/2016 50, 13/11/2015	
11	Mrs. Salve Amruta Mohan	Prof. (Dr.)V.D. Patil	Recent Development of Nano- catalysts, its efficacy and Application towards Heterocyclic Organic Transformation	Th./ICD/2018-19/529, 19/05/2018 66/14/07/2017	
12	Mr. Gharat Vaishnav Dhanaji	Prof. (Dr.)V.D. Patil	Development of doped nano catalysts and its application in synthesis of pharmaceutical Intermediates	---Th./ICD/2020-21/787, 23/12/2020 99, 23/01/2020	
13	Mr. Patil Suraj Anant	Prof. (Dr.)V.D. Patil	Synthesis, Characterization of Novel Heterocyclic AZO Dyes by using heterogeneous metal catalyst and its application	Th./ICD/2022-23/126, 20/04/2022 111, 22/12/2021	

14	Mr. Mumbaikar Sanjog Gajanan	Prof. (Dr.)V.D. Patil	Synthesis and Characterization of Heterocyclic Pharmaceutical compounds by using Nano metal xide as a catalyst	146/20/7/2024 09/09/2023	
15	Mr. Yadav Surendra Ramawadh	Prof. (Dr.)V.D. Patil	Design and development of nitrogen or sulphur containing heterocyclic agrochemicals and its intermediates.	145/15/07/2024 09/09/2023	
16	Mr. Waghmare Tulshidas Shivaji	Prof. (Dr.)V.D. Patil	Synthesis and characterization of heterocyclic azo dyes and its antimicrobial activity	148/26/07/2024 25/09/2023	

17	Ms. Shaikh Shaheen Abdul	Prof.(Dr.)B.D. Aghav	Synthesis and Characterization of Heterocyclic Compounds Containing Nitrogen or Oxygen Using Bimetallic Nanoparticles as a Catalyst	Th./ICD/2019-20/4497, 12/02/2020 93, 16/12/2019	
18	Ms. Patil Priya Ashok	Prof.(Dr.)B.D. Aghav	Reduced Graphene Oxide-Metal Oxide Nanocomposites: Synthesis, Characterization and Applications	Th./ICD/2022-23/2924, 28/12/2022 118, 01/10/2022	
19	Mr. S.V. Gadakh	Prof.(Dr.)B.D. Aghav	Design and Synthesis of Bioactive Heterocyclic Compounds and their importance in Medicinal Chemistry	Th./ICD/2023-24/2021, 13/10/2023 121, 17/07/2023	
20	Mr. Patil Piyush Abhimanyu	Prof.(Dr.)B.D. Aghav	Biosynthesis of metal/metal oxide nanoparticles using plant extract and assessment of their potential Applications	143/10/2024 31-08-2023	

21	Mrs. Shinde Gayatree Vishal	Dr. (Mrs.)J.S. Thakur	Synthesis and characterization of Transition Metal Based Magnetically Retrievable Nanocatalyst and their Applications in Organic Transformations	Th./ICD/2019- 20/4497, 12/02/2020 95, 19/12/2019	
22	Mrs. More Neha Jaywant	Dr. (Mrs.)J.S. Thakur	Synthesis and Characterization of Nanocrystalline Transition Metal- Based Oxides and Nanocomposites for their Potential Use in Gas Sensing Applications	Th./ICD/2023- 24/2021, 13/10/2023 120, 14/06/2023	
23	Ms. Shukla Pratibha Devendra	Dr. (Mrs.)J.S. Thakur	Synthesis and Characterization of Biopolymer-based Nanocomposites and their Applications for Environmental Sustainability.	144/12/07/2024 16/10/2023	
24	Mrs. Bhamare Sunita Ajay	Dr. S. S. Patil	Mixed ligand cerium complexes: Synthesis, Characterization and Biological studies	Th./ICD/2022- 23/126, 20/04/2022 110, 21/12/2021	

25	Mr. Patil Rahul Nitin	Dr. S. S. Patil	Metabolite Profiling of Anti- Cancer Drugs using Chemosynthesis Liver: An in Vitro Approach to Understand the Drug-Drug Interactions	Th./ICD/2023- 24/2021, 13/10/2023 123, 14/06/2023	
26	Mr. Thakur Vinayak Dattatrey	Dr. S.N. Vajekar	Synthesis and Characterization of Reduced Graphene Oxide and Transition Metal Oxide Based Nanocatalyst and Their Applications in Greener Organic Synthesis	Th./ICD/2023- 24/2021, 13/10/2023 125, 28/06/2023 8087367972	
27	Mr. Gaikar Pratik Arun	Dr. S.N. Vajekar	Analytical Method Development and Method Validation in Pharmaceutical Combination Dosage form Used in the Treatment of Hypertension	Th./ICD/2023- 24/2493, 21/12/2023 126, 25/08/2023 8796114937	

28	Ms. Gunjal Komal Sambhaji	Dr. S.N. Vajekar	Synthesis and Characterization of Carbon Based Nanostructures from Natural Resources and their Applications as a Catalyst in Organic Synthesis	Th./ICD/2023- 24/2021, 13/10/2023 124, 16/06/2023 8237416843	
29	Mr. Agalawe Rohidas Hari	Dr. S.N. Vajekar	Greener Synthesis of Novel Pyridazine Based Heterocyclic Compounds using Multi-Component Approach	- 23/02/2023 - 130/30/11/2023 7977967208	