

Shiksha Mandal's
Bajaj College of Science, Wardha (Autonomous)
DEPARTMENT OF CHEMISTRY
M. Sc. II Semester III, Chemistry Project 2021-22

S. N.	Project Supervisor	Name of students	Title
1	Dr. P.V. Tekade	AASMA NAYYUM KHAN PATHAN	Electrical impedance spectroscopy study of Polyaniline /MnO ₂ composite.
		VISHAKHA RAMESH GALANDE	Study of Dye sensitized solar cell for efficient energy conversion. : A Review.
		PALLAVI ASHOK BAHADURE	Optical properties of Polymer nanocomposites : A Review.
2	Dr. Mrs. N. P. Mohabansi	ABOLI RAJU LAKHAKWAR	Synthesis and characterisation of nanophotocatalyst and its application for waste water treatment.
		SHUBHAM ASHOKRAO JAISWAL	Study of physicochemical parameters of various water samples.
		SAKSHI DIPAK UKEY	Heterogeneous nanophotocatalytic degradation of organic contaminants in waste water.
3	Dr. K. M.Dadure	ASHWINI GAJANAN NASARE	Molecular docking and in silico identification of substituted phenylmethylen hydantoins as anticonvulsants agents.
		KIRAN KISAN DUPARE	Review: study on synthesis, characterisation & application of iron oxide.
		NANDINI SHIRISHRAO KHOBE	In silico modelling studies on selected pyrazoline derivatives as potent anticancer agents.
4	Mr. M.D. Bansinge	SARITA SANDIP PAWADE	Detoxification of industrial effluent using modified biopolymer.
		ROSHANI SHALIK UPASE	Removal of heavy elements using biopolymer from waste water sample.
5	Mr. N.A. Barwat	CHANDA RAMESHRAO ADDE	Study and synthesis of nanoparticle of transition metal sulphide by supercapacitor.
		DHANASHRI RANDHAWA THOOL	Study and synthesis of nanocomposite of transition metal oxide by supercapacitor.
6	Dr. P. G. Borkar	VIKRANT PRAKASH GAHUKAR	Application of Co-operative catalysis in organic synthesis.
		URVASHI HANSRAJ PANTAWANE	Synthesis and evaluation of novel heterocyclic compounds as microbial agents.
		TUSHAR BANDUJI KALE	Studies and synthesis of novel triazoles moieties for biological evaluation.
7	Dr. A. V. Nakhate	PRANALI RAJENDRA CHANDANKHEDE	Synthesis of phosphorous doped BPS as flame retardant from bio compound.
		PALLAVI VINODRAO WARAGHANE	Synthesis of phosphorous doped Graphene oxide layer as a highly efficient flame retardant.
8	Dr. M. Haque	PAYAL NAMDEORAO CHAFLE	A study of Biochar application for efficient removal of monocrotophos and carbendazim.
		ROSHAN DILIP CHUTE	Removal of Glyphosate and chlorpyriphos using biochar as low cost adsorbent.
9	Ms. B. U. Tale	KUNALI VINOD GONDANE	Study of Carbon based materials for energy storage : A Review
10	MGIRI	GAURAV GULAB GURNULE	Macro and micronutrients in agriculture: their application, role, effect, and doses: A Review
		ASHWIN RAVIDAS TALWEKAR	

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S.N.	Name of Faculty	Name of Students	Title
1	Dr. P.V.Tekade	Ms. Dhanashri J. Deoghare	Study of effect of particle size of TiO ₂ nanoparticle on PV response of TiO ₂ -PAni Nanocomposites.
		Ms. Prajakta G. Zode	Study of effect of particle size of MnO ₂ nanoparticle on Supercapacitive response of MnO ₂ -PAni Nanocomposites.
2	Dr. Mrs. N. P. Mohabansi	Ms. Pranita K.Sawarkar	Nanophotocatalytic advanced oxidation process of dye
		Ms. Durga Khandre	Nanophotocatalytic advanced oxidation process of drug
3	Dr. K.M. Dadure	Ms. Ashwini M. Gawande	Design & synthesis of charcoal scaffold,their CDK based study.
		Ms. Runali M. Gautam	Isolation & characterization of bioactive compounds from ixora plant extract
4	Mr.M. D. Bansinge	Ms. Darshana D. Doye	Cross linked polymer of chitosan
5	Mr.N. A.Barwat	Mr. Sanket U. Bonde	A project on Review of Novel ways of Synthesis,

			Characterisation & application of TiO ₂ doped with different materials
		Ms. Snehal U. Vanaskar	A project on Review of studies of synthesis, characterization & Dye degradation application of Polyaniline Zinc oxide.
6	Dr. P.Borkar	Ms. Yogita A. Badnore	Synthesis, characterization & antimicrobial activity of novel quinoline based imidazole derivatives
		Ms. Amruta N.Yadao	Synthesis, characterization & antimicrobial activity of novel quinoline based isooxazole derivatives
7	Ms. B.U.Tale	Ms. Achal R. Urkude	Synthesis & Characterization of TiO ₂ & MnO ₂ nanoparticles having Spherical & Cubic morphology.
8	Scientist of <i>Chemistry Based Division</i> Mahatma Gandhi Institute of Rural Industrilisation: MGIRI Wardha, a National institute under the ministry of Micro & Medium enterprises, Govt. of India.	Ms. Mamata R. Chandak	Synthesis and characterization of Eco friendly thickner for textile printing
		Ms. Priya B. Kadu	Modified starch for thickener for textile industry
9	Dr. G.V.Lakhotiya	Ms. Ashwin M.Paradhi	Synthesis of Graphene oxide by modified Hummers method
10	Dr. S.R.Tiple	Ms. Bhagyashri B. Sukhdeve	Proton conductor for fuel cell at room temperature to intermediate temperature
11	Dr. Mangesh Yerpude	Ms. Nikita B. Warkar	Synthesis of Tin oxide nanoparticle by Sol gel method.

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S. N.	Project Supervisor	Name of students	Title
1	Dr. P.V. Tekade	Neha Kewale	Study of complex optical properties of conducting Polymer-TiO ₂ Composites.
		Ashwini Warthe	Carbonaceous Materials based Supercapacitive Materials : Review
2	Dr. Mrs. N. P. Mohabansi	Nitu kaiwas	Slow release chemical fertilisers
		Akshat Hedao	A review on a Acoustical parameter investigation of various binary, ternary solvent-solvent and drug solvent interactions at various temperatures.

3	Dr. K. M.Dadure	Akanksha Mishra	A review of biogenic synthesis of TiO ₂ nanoparticles and applications.
		Shreya Hiswankar	Worldwide prevalence and survey on corona virus.
4	Mr. M.D. Bansinge	Vanashri Deshbhratar	Review on removal of Cr(VI) and F ⁻ from aqueous medium by using chitosan and cellulose cross – linking polymer.
		Chetana Rewatkar	Review on removal of Cr(VI) and F ⁻ from aqueous medium by using chitosan and cellulose cross – linking polymer.
5	Mr. N.A. Barwat	Nilam Shahare	Review of studies of transition metal sulphide based nanocomposites for supercapacitor applications.
		Amruta Kumbhare	Review of studies of synthesis of transition metal sulfied based nanocomposites for supercapacitors.
6	Dr. P. G. Borkar	Abhilasha Dhanorkar	Mini-review on recent advances towards the synthesis and biological applications of isoxazole derivatives.
		Aishwarya Pande	Recent advances towards the synthesis and biological applications of Triazole derivatives.
7	Dr. A. V. Nakhate	Yogeshwari Mohije	Graphite oxide flame retardant polymer nanocomposites.
		Rakhi Nagpure	Synthesis of Graphene Oxide nanoparticle for biomedical application.
8	Dr. M. Haque	Aparna Raut	A review on Application of Eco-friendly Biochar technology for effective wastewater treatment.
		Radha Jaiswal	Impact of biochar derived from agricultural waste on pesticides sorption and remediation.
9	Ms. B. U. Tale	Aparna Raut	Titanium Dioxide based Photovoltaic Responsive Nanomaterials for Solar Cell Application
10	MGIRI	Dipak Bhadade	Quality study of dham river water.
		Saurabh Timande	Analysis of agricultural soil sample.
11	Dr. G.V.Lakhotiya	Nidhi Dekate	Li-ion batteries: Short Review on construction and material
12	Dr. Mangesh Yerpude	Sajeda Hasan	Development in phototherapy Phosphors : A Review
13	Dr. S.R.Tiple	Anam Shah	Theoretical studies of proton conducting electrolyte for fuel cell.