



UTTARANCHAL UNIVERSITY

Established vide Uttaranchal University Act, 2012
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Arcadia Grant, P.O. Chandanwari, Premnagar, Dehradun, Uttarakhand

M.Sc. Industrial Chemistry

Batch-2013-15

Student Project Detail

SR. NO.	Student Name	SUPERVISORS NAME	TITLE OF PROJECT
1	MANISHA KALPASI	DR. VINOD KUMAR	PHYTOCHEMICAL SCREENING AND ANTIMICRIBIAL ACTIVITY OF BERBERIS CHITRIAL LIDL. AGAINST MULTI DEUG RESISTANT BACTERIA FROM CLINICAL ISOLATES
2	DEEPAK SINGH	DR. AJAY SINGH	A REVIEW STUDY ON ANTIMICROBIAL AND ANTIBACTERIAL PROPERTIES OF ZANTOXYLUM ARMATUM
3	AMIT	DR. RAZA RASOOL	POLYMER BASED SLOW RELEASED PESTICIDES
4	PRITI CHAUDHARY	DR. WASEEM AHMAD	PHOTOCHEMICAL TRANSFORMATION OF FLUROQUINOLONE ANTIBIOTIC DRUG BASIFLOXACIN
5	ROHIT KUMAR	DR. POONAM NEGI	CHEMICAL EXAMINATION AND AND ANTIMICROBIAL ACTIVITY OF ESSENTIAL OIL AEGLE MARMELOS
6	PRAKASH ROY	DR. H.C. JOSHI	STUDY OF THE PHYSICO- CHEMICAL PROPERTY OF SYNTHETIC SOAP, SHAMPOO & DETERGENTS
7	RANU SINGH	DR. ABHILASHA MISHRA	PREPARATION OF POLYMER BASED SLOW RELEASE NPK FERTILIZERS AND EVALUTION OF RELEASE STUDIES
8	ASHISH	ER. SANJAY KUMAR	TO STUDY THE ANTIMICROBIAL ACTIVITY OF ESSENTIAL OILS OF CITRUS FAMILY PLANTS AGAINST FOOD PATHOGENIC BACTERIA

M.Sc. Industrial Chemistry

Batch 2014-16

Student Project Detail

1	ANKIT	DR. ABHILASHA MISHRA	PREPARATION OF NP LOADED CHITOSAN-EGG ALBUMIN BASED MICROPARTICLES AND STUDY OF RELEASE PROFILE
2	ANKITA RANA	DR. AJAY SINGH	EFFLUENTS CHARACTERISTIC OF PHARMACEUTICALS AND PAPER INDUSTRY AND REDUCTION OF POLLUTION LOAD
3	ANSHU KUMAR	DR. WASEEM AHMAD	PHYTOCHEMICAL SCREENING & ANTIMICROBIAL STUDY OF SELECTED HERBAL SPECIES EXTRACT
4	ANUJ KUMAR	DR. AJAY SINGH	STUDY ON WASTE WATER PARAMETERS AND TO REDUCE POLLUTION LOAD
5	BENAZIR NAGMA	DR. VINOD KUMAR	PHYTOCHEMICAL SCREENING OF ALGAE
6	BHABESH KUMAR	DR. H.C.JOSHI	PRODUCTION AND CHARACTERIZATION OF BIODIESEL FROM SOYABEAN SEEDS
7	SHILPA SINGH	DR. WASEEM AHMAD	PHYTOCHEMICAL SCREENING & ANTIMICROBIAL STUDY OF <i>EUPHORBIAHIRTA</i> EXTRACT
8	SONAL SHARMA	DR. VINOD KUMAR	PRODUCTION OF BIOETHANOL FROM LIPID EXTRACTED FRESH WATER <i>ODEOGONIUM</i>
9	SONU KUMAR	DR. RICHA JHA	BIOACCUMULATION OF HEAVY METALS CONTAINMENTS FROM INDUSTRIAL EFFLUENTS USING MICROBIAL ISOLATES
10	TASHI NAMGAY	DR. ABHILASHA MISHRA	FABRICATION OF POLYMETHYL METHACRYLATE AND TETRAETHYLORTHOSILICATE BASED HYDROPHOBIC SURFACES AND EVALUATION OF ANTI-ICING AND ANTI-DUST PROPERTIES
11	VAMIKA RATHI	DR. H.C.JOSHI	ASSESSMENT OF PHYSICO-CHEMICAL PROPERTIES OF RIVER KALI IN MUZZFARNAGAR DISTT. (U.P.)
12	YASHI MISHRA	DR. SANTOSH KUMAR	TO STUDY THE IMPACT OF DIFFERENT LIPID EXTRACTION METHODS FROM FRESHWATER ALGAE
13	ZAID ALI KHAN	DR. POONAM NEGI	PHYSICO-CHEMICAL ANALYSIS OF ASAN RIVER.

M.Sc. Industrial Chemistry

Batch 2015-17

Student Project Detail

1	AKSHAY KUMAR	Dr. Vinod Kumar	Use of solid waste & waste water as a source of nutrients for microalgae growth and biodiesel production
2	ARTEAM BISHT	Dr. Richa Jha	Synthesis of Calcium Phosphate Nanoparticles and Their Characterisation
3	DEEPA RAWAT	Dr. Vinod	To study the effect of Heavy metals concentration on the micro algae growth and Biodiesel Production
4	DEEPAK KUMAR	Dr. Ajay Singh	Cross linking and grafting of PVA
5	DEEPAK CHANDRA PAINTOLA	Dr. Poonam Negi	Mathanolic and Hexane Extraction of Callicarpa macrophylla seed and its potential as Biopesticide
6	DIKSHA SAJWAN	Dr. Ajay Singh	Study on modification of Poly Vinyl Pyrrolidone by using cross linking and Grafting method
7	KALPANA RAJPUT	Dr. Anuj Kumar	Manufacturing Process of Cornflaks
8	KM BHUMIKA SHEKHAWAT	Dr. Waseem Ahmad	Study the effect of UV light on Levofloxacin and Moxifloxacin
9	KM NEHA LAMBA	Dr. Ajay Singh	Manufacturing Process of Cornflaks
10	MAHESH NEGI	Dr. H.C. Joshi	To Study the Production and Characterization of Neem and Mahua based biodiesel and its blends with diesel fuel: An optimum blended fuel for Asia
11	MOHIT CHAUHAN	Dr. H.C. Joshi	Production and Characterization of Mahua seed oil Biodiesel and its blends of diesel fuel engine
12	PANKAJ CHAUDHARY	Dr. Monu	Metal oxide nanostructures applications for the degradation of Dyes

13	PRASHANT THAKUR	Dr. Ajay Singh	Modification of PVC
14	RAJAT KUMAR	Dr. Vinod	To Study the effect of abiotic stress on the growth of micro algae and Bio diesel production
15	RITESH SISOUDIYA	Dr. Anuj Kumar	Kinetic-Spectrophotometric determination of Mn(II) in Nanograms based on its Catalytic effect on Periodate Oxidation of some derivatives of aniline
16	SANDEEP KUMAR	Dr. Richa Jha	Characterisation and Immobilization of Heavy metal Accumulating bacteria for treatment of Industrial Effluents
17	SAPNA ARYA	Dr. Poonam Negi	Insecticidal potential of hexane and Methanolic extract of bark of <i>Callicarpa macrophylla</i>
18	SHIVNANDAN	Dr. vinod	Production of Bioethanol from food waste
19	SONAM CHAUHAN	Dr. Naveen Kumar	Photo Catalytic degradation of Dyes using metal oxide
20	SONI KUMARI	Dr. Waseem Ahmad	Study on the effect of UV Light on <i>Calotropis Gigantea leaf extract</i>
21	VIKAS KUMAR	Dr. Indra Rautela	Effect of heavy metal and photochemical screening of <i>Linum Usitatissimum L.</i>

M.Sc. Industrial Chemistry

Batch 2016-18

Student Project Detail

1	AMANA	Dr. Ajay Singh	Production of bioethanol and biomanure from food waste
2	AISHWARYA	Dr. H.C. Joshi	Production and characterization of methyl ester of moringa oleifera methyl ester
3	AKANKSHA	Dr. Ajay Singh	Production of biogas and biomanure from agriculture and kitchen waste in Uttaranchal University

4	ANKITA	Dr. Ajay Singh	Synthesis of Novel graphene B cyclodextrene composite for adsorption removal of dyes from aqueous solution
5	BABITA NEGI	Dr. Ajay Singh	Study of polyvinyl alcohol and its modification
6	DIWAKAR	Dr.P.Negi	Comparative study of essential oil composition of different species of citrus genus
7	HIMANSHU	Dr.N.C.Joshi	Bioabsorption of lead from synthetic waste water on to the water leaves of myrica esculanta
8	JITENDRA SINGH	Dr.H.C. Joshi	Production and characterization of glycerol from waste of moringa oleifera methyl ester
9	KHUSHBOO	Dr.Naveen	Synthesis of graphene –Zic oxide composite and its application as adsorbant for effective removal of Cr(iv) ions from aqueous solution
10	PIYUSHA	Dr.Vinod	Hydrothermal liquefaction of different biomass
11	MOHINI	Dr.Ajay Singh	Study on the modification of SAL oil by esterification and trans esterification
12	RAGHAV	Dr.Ajay Singh	Oxidation polymerization of aniline and its derivative and preparation of nanocomposite with metal oxide
13	RAJNISH KUMAR	Dr.Vinod Kumar	Production and enhancement of biogas from harmful algal blooms
14	RAVIKANT	Dr.N.C. Joshi	Removal of cadmium from synthetic waste water by using the waste leaves of cedrus deodara
15	SHIVA BISWAS	Dr.Naveen	Synthesis of graphene/Cellulose composite for the adsorptive removal of methylene blue from aqueous solution
16	SHIVAM PANDEY	Dr.P.Negi	Variation in the essential oil composition of muraya koeinigii collected from different location and its antimicrobial potential

17	SHIVIN	Dr.Ajay Singh	Synthesis of TiO ₂ nanoparticles from orange fruit waste
18	SOHAN SINGH	Dr.Ajay Singh	Polyaniline nanocomposite for the adsorption of reactive dye from aqueous solution

**M.Sc. Industrial Chemistry
Batch 2017-19**

Student Project Detail

1	Aman Kumar	Dr.H.C Joshi	To study physico chemical properties and acceleration of catalytic activity for the biodiesel production from putrangiva roxburghii and its blends
2	Aman Rajput	Dr.N.C.Joshi	Synthesis and characterization of graphene oxide nano sheet and its application for the removal of Cd and Zn ions from waste water
3	Gurmeet Singh	Dr Ajay Singh	Synthesis of nanocomposite using agrowaste and application in reduction of effluent
4	Priyanka	Dr S. upadhyay	Designing and evaluation colorimetric receptor for selective metal ions derived from amines
5	Ravindra Kuriyal	Dr.v. kumar	Biodegradation of phenol and paraphenol by micro algae and its effects on algal biomass and biodiesel
6	Ritik saxena	Dr.H.C Joshi	To study the production of biodiesel from kusum seed by using heterogeneous catalyst
7	Shivani	Dr.w. Ahmad	Study of the green synthesis of TiO ₂ nanoparticles and its application
8	Tushar Tyagi	Dr.v. kumar	Biodegradation of selected aromatic compound by microalgae and its effect on algal biomass and biodiesel
9	Vivek Kumar	Dr.N.C.Joshi	Synthesis of Ag and Cu nanoparticles from urtica dioica plant extract characterization and antimicrobial activity

M.Sc. Chemistry
Batch 2017-19

Student Project Detail

1	Aditi Thapa	Dr Ajay Singh	Synthesis of nanocomposite using bagasse and application in reduction of metal ions in waste water
2	Divya kalra	Dr.Waseem Ahmad	Study of the green synthesis of ZnO nanoparticale and its application
3	Jeetu dubey	Dr Ajay Singh	Study of pomegranate peel extract mediated TiO ₂ nanopartical
4	Juhi chhabra	N.C.Joshi	Charectrization and antimicrobial activities of Ag naopartical synthesized from Ipomoea batatas and solanum tuberosum
5	Kiran negi	Dr Shalini upadhyay	Coloremetric chemosensor designed provide sinsitivity for selective metal ions derived from aldehyde
6	Mahima chaudhary	Dr Ajay Singh	Synthesis of musa acuminata colla peel extract mediated Zn nanopartical
7	Mansi Taygi	Dr Ajay Singh and Dr.Naveen Kumar	Treatment of wate water FeMnOx,grapheneoxide nanopartical as adsorbent for the removal of heavy metlas/dye
8	Mayank	Dr.H.C.Joshi	To study the production and charectrization of michelia champaca based biodeisel and its blends n butanol-diseal fuel
9	Mayur Kumar	Dr Ajay Singh	Study on biological activity of anacyclus pyrethrum flower and root extract
10	Monika Ramola	Dr.N.C.Joshi and B.Ramola	Biosynthesis of Cao and MgO nanoparticles the leaves extract of rhododendron arboreum and their charectrization
11	Nitin Malik	N.C.Joshi	Synthesis and charectrization of polythiophene nanopartical and their application in the removal Pb,Cd and Zinc

12	Prgya Tiwari	Dr Ajay Singh	Study of biological and chemical treatment industrial effluent to get clean water
13	Shivani Panwar	Dr.P.Negi	Phytochemical screening total, flavonoid and phenolic content assay of various solvent extract of murraya koenigii

**M.Sc. Industrial Chemistry
Batch 2018-20**

Student Project Detail

1	Abhishek Kamboj	Dr Wasim Ahmad	Study on characteristics of ground water in Nanauta town as compared to Saharanpur city
2	Abhishek Thakur	Dr Naveen Chandra Joshi	Study on ground water and drinking water in Saharanpur region
3	Abhishek Kumar	Prof Ajay Singh	Green synthesis nanoparticles probe for the selective direction of metal ions in the aqueous system
4	Anmol	Prof Ajay Singh	A study of synthesis, characterisations and adsorption applications of Fe ₃ O ₄ @SiO ₂ nano-composite
5	Ashu Chauhan	Dr Naveen Chandra Joshi	Chemical composition, antioxidant and insecticidal activities of essential oil and extract of <i>Cinnamomum camphora</i>
6	Harkamal Preet	Prof Ajay Singh	Polypyrrole@Fe ₃ O ₄ nanomaterial: Synthesis, characterisation and adsorption study
7	Isha Riyal	Dr Mousamee Sharma	Biogenic synthesis of silver nanoparticles for the colorimetric detection of metal ions
8	Md Salman	Dr Naveen Chandra Joshi	Study on modification of PVA and PMMA
9	Md Amjad	Dr Wasim Ahmad	Surface stabilized silver nanoparticles for qualitative analysis of hardness in water
10	Md Faisal	Dr Naveen Chandra Joshi	Utilisation of graphene oxide-TiO ₂ nano-composite in the removal of rhodamine B

11	Mohit Kumar	Dr Naveen Chandra Joshi	Synthesis of nano composite of selected vinyl polymers with corn cob and study on biodegradibility
12	Neha Rani Kamboj	Dr Bharti Ramola	Preparation and properties of a double coated slow release NPK fertilizer
13	Nikhil Pratap Singh	Dr Naveen Chandra Joshi	Applications of ZrO ₂ @Al ₂ O ₃ based nanosorbent for the adsorption of Cd ²⁺ and Cr ⁶⁺ ions
14	Prashansa Gupta	Dr Wasim Ahmad	Synthesis and characterisations of polyaniline-Al ₂ O ₃ and its utilisation in the adsorption of Pb ²⁺ and Cr ⁶⁺ ions
15	Rekha Rani	Prof Ajay Singh	Study on synthesis of nanocomposites using selected agri residues with applications

**M.Sc. Chemistry
Batch 2018-20**

Student Project Detail

1	Ayushi Saini	Prof Ajay Singh	Study on characteristics of ground water in Nanauta town as compared to Saharanpur city
2	Abhishek	Prof Ajay Singh	Study on ground water and drinking water in Saharanpur region
3	Amandeep Saini	Prof Ajay Singh	Green synthesis nanoparticles probe for the selective direction of metal ions in the aqueous system
4	Ankita Gaur	Dr Naveen Chandra Joshi	A study of synthesis, characterisations and adsorption applications of Fe ₃ O ₄ @SiO ₂ nano-composite
5	Gunjan Kalra	Dr Poonam Negi	Chemical composition, antioxidant and insecticidal activities of essential oil and extract of <i>Cinnamomum camphora</i>
6	Kirandeep Kaur	Dr Naveen Chandra Joshi	Polypyrrole@Fe ₃ O ₄ nanomaterial: Synthesis, characterisation and adsorption study

7	Mamta Rani	Dr Ajay Singh	Biogenic synthesis of silver nanoparticles for the colorimetric detection of metal ions
8	NandiniPrakash	Prof Ajay Singh	Study on modification of PVA and PMMA
9	Priyanka	Dr Mousmee Sharma	Surface stabilized silver nanoparticles for qualitative analysis of hardness in water
10	Raymond	Dr Naveen Chandra Joshi	Utilisation of graphene oxide-TiO ₂ nano-composite in the removal of rhodamine B
11	RinkuRana	Prof Ajay Singh	Synthesis of nano composite of selected vinyl polymers with corn cob and study on biodegradibility
12	Ritu Thakur	Dr PoonamNegi	Preparation and properties of a double coated slow release NPK fertilizer
13	RuchikaSukhani	Dr Naveen Chandra Joshi	Synthesis and characterization of graphene oxide/ZnO/TiO ₂ nanoparticles for the removal of Cd ²⁺ and Pb ²⁺ ions
14	Shekhar Malik	Dr Naveen Chandra Joshi	Synthesis and characterisation of polypyrrole@ZnO nanocomposites and its adsorption behaviour for Cd ²⁺ and Cu ²⁺ ions
15	ShubhamNegi	Dr Naveen Chandra Joshi	Synthesis and characterisations of polyaniline-Al ₂ O ₃ and its utilisation in the adsorption of Pb ²⁺ and Cr ⁶⁺ ions