

Project Report Data

B.E. Year-2023

Sr. No.	Name of the Student	Title	Supervisor
1.	Abhishek Kumar	Implementation of an integrated pest management program	Dr. Nikhil Prakash
2	Diksha Kumari	Heat load mapping of the nicotine process	Dr. S.M Ahuja
3	Shubham Kumar	Process design of ethyl acetate production process	Dr. S.M Ahuja
4	Shubham Maity	Study on cost optimization on shampoo production process	Dr. G.K Jawa
5.	Praveen Kumar	Study on different types of bagasse and impact of their pulping on final pulp	Dr. A.S.K Sinha
6	Manish Kumar	To study the essential oil extraction process of 100 ltr per day capacity.	Dr. Avinash Thakur
7	Safraj Akhter Hussain	Process costing of forward osmosis membrane treatment of produced water for reducing total dissolved solids.	Dr. G.K Jawa
8	Sujata Verma	Steam production and improvisation of its running consumption	Dr.Kamlesh Kumari
9	Ambika Jaiswal	To change design of plate heat exchanger to get desired outcome temperature.	Dr. H.R Ghatak
10	Amit Kumar	Extraction of caffeine from tea waste and coffee	Dr. Amit Rai
11	Atulya Kumar	Medicine production from refined oil waste	Dr. H.R Ghatak
12	Mohit Verma	Study on recovery of unreacted monomers from acrylic polymer production unit	Dr. G.K Jawa
13	Aniket Singh	Study of ammonia synthesis and urea manufacturing process at NFL,Nangal.	Dr. Nikhil Prakash

14	Shristi Kumari, Harshita Saxena	Nicotine acid from tobacco waste	Dr. S.M Ahuja Dr. V.K Meena
15	Gautam Kumar, Tapan Khanikar	Study of absorption of carbon dioxide from biogas	Dr. G.K Jawa
16	Virat Ashish Sinha	Study on effluent treatment and biohydrolyser of ammonia and urea waste streams.	Dr. V.K Meena
17	Sweta	Powering the future hydrogen energy	Dr. Nikhil Prakash
18	Utsah Baghel, Komal Rawat	Study of conversion of non-edible oil to biodiesel	Dr. Pushpa Jha
19	Nikhil kumar	Fractionation of waste biomass by steam distillation and solvent extraction.	Dr. H.R Ghatak
20	Shailesh Kumar Mishra	Sustainable thin film technology (zirconium based cleaner coater at room temp	Dr. H.R Ghatak
21	Sushant Kumar	Wastewater treatment and hydrogen production by microbial electrolysis cell using bio cathode.	Dr. V.K Meena
22	Pramod Kumar Prashant Kumar Parampreet Singh	Extraction of silica from rice husk and its application	Dr.Kamlesh Kumari
23	Ashish Shivhare	Study of different types of bagasse and pulping on final pulp	Dr.Kamlesh Kumari
24	Harshita Tiwari Sanket Biswas	Dynamics of inertial active particles in a microchannel with Poiseuille flow	Dr.Kamlesh Kumari
25	Saurabh Goyal Gurjinder singh Gurharman singh	Studies on cyclone separator	Dr. S.M Ahuja
26	Archana Bharti	Effective pre-commissioning methods implemented in AVU project	Dr. S.M Ahuja
27	Prafull Mishra	Design a complete plant for plastic pyrolysis	Dr. A.S.K Sinha
28	Sanket Kumar	Study of different properties of urea products and correlation with input process parameters	Dr. Avinash Thakur

29	Aastha Bhushan	Reduction of acid condensate from HRS boot	Dr. H.R Ghatak
30	Vikas Kumar	Hybrid compost production from industrial waste	Dr. Nikhil Prakash
31	Pradumn Kumar Lovepreet Singh	Synthesis and analysis of eco-friendly detergent using paddy rice husk	Dr. Subita Bhagat
32	Mrinmoy Dhar	Study on effluent treatment and biohydrolyser of ammonia and urea waste streams	Dr. Subita Bhagat
33	Sapna Rani	Study of different properties of urea products and correlation with input process parameters	Dr. A.S.K Sinha
34	Ram krishna	Extraction of alumina from red mud	Dr. A.S.K Sinha
35	Mudita Sinha	Characteristics of dyeing on various types of yarns	Dr. Pushpa Jha
36	Pallavi Kumari	To explore and identify different types of in a water treatment plant.	Dr. Pushpa Jha
37	Amrendra Yadav	Utilization of industrial waste from Bicycle component industry to produce efficient fuel.	Dr. G.K Jawa
38	Abhinav Kumar Bhushan Kumar	Extraction of cellulose acetate from used cigarette butts	Dr. Amit Rai
39	Ujjawal Kumar Priti Kumari	E-commerce website for manufacturing industries	Dr. A.S.K Sinha
40	Mayank Kumar Lakhan Kumar Pandit Zulqar Nain Harsh Maurya	To study nitric acid plant of 500 tonne /day capacity	Dr. Avinash Thakur
41	Nikhil Kumar Tushar Kumar	To obtain bio-oil from waste material bio-mass	Dr. H.R Ghatak
42	Rishabh Ujjenwal	Preparation of flame retardant water proof and breathable polyurethane film	Dr. Avinash Thakur
43	Gangavath Laxmi	Study of hood and PV in dryness section	Dr. Amit Rai

B.E. (Honours) -2023

Sr. No	Name of the Student	Title	Supervisor
1.	Nitish Bharadwaj	Optimization and Validation of Manufacturing process of a pharmaceutical ingredient at plant scale	Dr. Pushpa Jha
2.	Sanket Biswas Harshita Tiwari	Hydrodynamics of active particles with translational and rotational inertia	Dr. Kamlesh Kumari
3.	Safraj Akhter Hussain	Forward osmosis Membrane of produced water for reducing Total Dissolved Solids: Scale-up and Process Costing	Dr. G.K Jawa
4.	Ambika Jaiswal	To design a equipment to get tablet form of a product	Dr. H. R. Ghatak
5	Gautam Kumar Tapan Khanikar	Production of ethanol from biomass	Dr. G.K Jawa
6.	Manish Kumar	Study on analysis of essential oil	Dr. Avinash Thakur
7	Parveen Kumar	“Impact of Different Types of Bagasse and Different Pulping Techniques on Final Pulp”	Dr. A S K Sinha
8	Shubham Kumar	Process Modeling of a Carbon Dioxide Removal System and Its Industrial Applications	Dr S. M. Ahuja
9	Yuvraj Kumar	Aerators and their Industrial Applications	Dr S. M. Ahuja
10	Diksha Kumari	Scale up Citicolin Sodium and Process Optimisation to reduce the cost and yield improvement	Dr S. M. Ahuja

11	Shrishti Kumari	A Case Study of Energy Audit	Dr S. M. Ahuja
12	Subham Maity	Study on cost optimization on shampoo production process	Dr. G.K Jawa
13	Harsh Maurya Zulqar Nain	Study on extraction of chromium from aqueous solution using green emulsion liquid membrane	Dr. Avinash Thakur
14	Rishabh Ujjenwal	Preparation of waterproof breathable polyurethane	Dr. Avinash Thakur
15	Sujata Verma	Production of steam and improvisation of its running consumption and optimization	Dr. Kamlesh Kumari

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Year-2022

Sr. No	Name of the Student	Title	Supervisor
1.	Aastha	Study on protein aggregation	Dr H. R. Ghatak
	Upasana		
	Sonu		
	Farooq		
2.	Mayank Gaur	Study On Particle Size Reduction Techniques And Equipment's In Process Industries	Dr Nikhil Prakash
	Aayush Bharadwaj		
	Pradeep Kumar Rai		
	Jagdish Singh Nayal		
3.	Abhishek Kr. Jha	Production of hydrogen fuel with the help of Solar energy By hydrolysis of water	Dr. G.K Jawa
	Md. Amir Azad		
4.	Md Zeeshan Khalid	Production of Bio-diesel by waste vegetable oils	Dr. Amit Rai
	Md Khursheed Anwar		
	Nishant Kumar		
	Ajit Kumar		
5	Ayush Kumar Singh	Thermo-chemical conversion of waste Biomass to bio-oil	Dr. Kamlesh Kumari
	Amardeep Singh		
	Ujjawal Kumar		
	Vishal Kumar		
6.	Amisha	Waste plastic into fuel by pyrolysis method	Dr. Kamlesh Kumari
	Dheeraj Kumar		
	Amisha Gautam		

	Sneha		
7.	Aryan	Separation of chemicals from	Dr. A S K Sinha
	Gopi	Bagasse of sugercane using Formic acid pulping	
	Utkarsh		
	Venu		
8.	Santosh	Overview of the	Dr Pushpa jha
	Hari Prasad	Research on biodiesel	
	Ravi Prasad	Production	
9.	Aparna Ashutosh	Manufacturing of silica aero gel from rice husk	Dr S. M. Ahuja
	Sakshi Kaushik		
	Sunil Kumar		
10.	Khyati	Economical analysis of biodiesel Production	Dr. Pushpa Jha
	Pintu		
11.	Nikhil Kumar	Synthesis and characterization of polyester composites by using various fillers	Dr S. M. Ahuja
	Ashutosh Kumar		
	Uphar Anand		
	Raushan Kumar		
12.	Deepa Kumari	Study on urea production plant of capacity 15lmtpa	Dr. Avinash Thakur
	Anuradha Singh		
	Bhanu Kumari		
	Manish Kumar		
13.	Ayush Kumar Singh	Study on Oxygen Production with Zeolites and Pressure Swing Adsorption	Dr. Kamlesh Kumari
	Amardeep Singh		
	Ujjawal Kumar		

	Vishal Kumar		
14.	Gaurish Sharma	Formulation of Eco-friendly Detergent Powder Using Paddy Husk Ash	Dr Amit Rai
	Harpreet Singh		
	Barinder Singh		
	Uttam Chauhan		
15.	Vivek kumar	Lithium ion	Dr. V. K. Meena
	Dinesh kumar	Battery and efficiency improvement	
	Shubham Sharma		
	Prabhat Kumar Singh		
16.	Aastha	Study on protein aggregation	Dr. H. R. Ghatak
	Upasana		
	Sonu		
	Farooq		
17.	Kapil Tripathi	Design of Cold Storage and enhancing the shelf life	Dr. S. M. Ahuja
	Nishant Chourey		
18.	Shivam Trivedi	“Coir Fibre Reinforcement and Application in Coir Plywood board & Bio-Composites”	Dr. S. M. Ahuja
	Shyam		

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Year-2021

Sr. No	Name of the Student	Title	Supervisor
1.	Arvind	Application of agro-residue for removal of pollutants	Dr. Pushpa Jha
	Prabhat Khokhar		
	Murlidhar Chawan		
2.	Chirra Sai Sruthi	CFD Analysis of Heat Transfer Characteristics Of A	Dr. Kamlesh Kumari
	Sristi Shreya	Micro- Cross Flow Heat Exchanger Operated Under Laminar Regime At Varying Reynolds Numbers	
	Preeti Rani		
3.	Surabhi Kumari	Study And Design of Anaerobic Digester (Wastewater Treatment)	Dr. H. R. Ghatak
	Alka Kumari		
	Keshav Nanda		
4.	Heera Babu Chaudhary	Solid Waste Management in Tire Industry	Dr S. M. Ahuja
	Shashi Kant		
5	Kumar Sanu	Study and Design of Manufacturing of Urea	Dr. Avinash Thakur
	Sagar Amrit		
	Bhawarth Rajput		
6.	Ankit Anand	Study And Design of Ethanol Production Plant	Dr. G.K Jawa
	Gaurav Kumar		
	Hemant Kumar		
7.	Rishabh Jha	Agro residue utilization for manufacturing of composite materials and their comparison	Dr. A S K Sinha
	Sachin Rana		
	Nakul S Prakash		

	Shubham		
	Ritesh Kumar		
8.	Ashish Chauhan	Design And Characterization of Polyester Reinforced Fiber Composites	Dr. Subita Bhagat
	Hareram Mishra		
	Rajnish Kumar Singh		
	Ariba		
	Ajay Raghav		
9.	Yash Arora	Case Study on Wastewater Treatment Of Rama Industries Ltd.	Dr. V. K. Meena
	Somesh Saraswat		
	Dharmendra		
	Kirti Bilkhu		
	Sahil Sharma		
10.	Nitin Kumar	Modeling, Simulation And Controller Design For Urea Plant Using Matlab/Simulink	Dr. Nikhil Prakash
	Shubham Sharma		
	Mukesh Kumar Jaina		
	Bhavjot Singh Grewal		
	Manoj Chander Joshi		
11.	Abhishek Singh Negi	Optimization Of Adsorption	Dr Amit Rai
	Kushagra Bhaal	Parameters For Removal Of Phenol From Aquous Solutions An Agro-Residue Based Adsorbent	
	Niraj Kumar		
12.	Shivanshu Dwivedi	Designing Of An Agitator For Emulsion Based Paints	Dr. Kamlesh Kumari
	Pragya Sharma		
13.	Priyanka	The Potential of renewable Energy Sources in India	Dr. Pushpa Jha
	Tanya Nim		

14	Suhani Ray	Solid Waste Management In Municipal Waste	Dr S. M. Ahuja
	Princy		
15	Karan Rana	Plant Design Of Oil Extration Plant	Dr Amit Rai
	Vimal Kandpal		
16	Shivendra Mishra	Design And Modelling Of Multiple Effect Evaporator System	Dr. H. R. Ghatak
	Deepankar		
17	Ashutosh Prakash	Plant Design Of Methanol Production Using Syngas	Dr. Avinash Thakur
	Imaran Ansari		
18	Ayush Kumar	Study and Design of 60 MLD Sewage Treatment Plant	Dr. G.K Jawa
19	Avinash Kumar	Cyclone Classifier Design	Dr S. M. Ahuja
20	Rajnish Kumar	Design of Shell & Tube Heat Exchanger using chemical process simulator	Dr. G.K Jawa

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Year 2020

Sr. No	Name of the Student	Topic	Supervisor
1.	Akshay Kumar Rupam Kalita Saurabh singh M.Venkata Swamy	Study on production of biogas from organic waste.	Dr. G.K Jawa
2.	Deepshika Kashyap Prashanta mech	Removal of oil and grease from automobile waste water by electrocoagulation.	Dr. V.K Meena

3.	<p>Hrithik Jaiswal Amarjeet Kumar Rishikesh kumar Prashant Kumar Rakesh Kumar</p>	<p>Study of manufacturing of urea</p>	<p>Dr. Avinash Thakur</p>
4.	<p>Manish Kumar Ravi Amit Prakash Nidhi Rajnikant</p>	<p>Thermochemical conversion of biomass to bio-oil</p>	<p>Dr. H.R Ghatak</p>
5	<p>Pankaj Kumar Suraj kumar</p>	<p>Heat transfer study in comsol multiphysics software</p>	<p>Dr. Amit Rai</p>
6.	<p>Reena Sinha Santosh Kumar Kailash Chandra</p>	<p>Study of biodiesel from waste cooking oil</p>	<p>Dr. Pushpa Jha</p>

7.	Swikriti Ranjan Divya	Heat transfer through fin in comsol multiphysics	Dr. Amit Rai
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B.E. Year-2019

Sr. No	Name of the Student	Topic	Supervisor
1.	Sukhwinder Kaur	Simulation of polypropylene	Dr. Subita Bhagat
	Nivedita Singh		
	Nidhi Vaish		
2.	Poonam Kumari	Characterization of agro residue based on their value added products	Dr. Pushpa Jha Dr. Nikhil Prakash
	Anshu Kumari		
	Shekhar Suman		
3.	Parampreet Singh	Formulation & characterization of starch based drug delivery vehicle	Dr. Avinash Thakur
	Abhishek Kumar		
	Ashish Ranjan		
4.	Sonal Kr. Singh	Analysis of biogas production from dung & design of Bio-Digester	Dr. Avinash Thakur
	Rupesh Kumar		
	Kumar Diwakar		
5.	Anjali	Adsorbents from wheat straw	Dr Amit Rai
	Kehksha Khan		
	Surbhi Kumari		
6.	Deepa Raj	Application of nano-technology in waste water treatment	Dr.G.K. Jawa
	Swapnil		
	Saurabh Kumar		
7.	Shashwat Bishwanathan	Modeling & simulation of FCC unit	Dr.G.K. Jawa
	Nishant Kumar		
	Shilokit Singh		

8.	Kuldeep Singh	Modeling & simulation of Methylmethacrylate polymerization	Dr. Subita Bhagat
	Sharaddha Singh		
	Apoorva		
9.	Abhinaymani Tripathi	Modeling and simulation of Polyethylene polymerization	
	Arun		
	Ayush Rai		
10.	Prashant	Production of fuel from biomass(dry leaves & Grass) by gasification	
	Hanvate Abhijeet		
	Kajal Kumari		
11	Vinita Kumari	Study of Waste Water Treatment	Dr. A S K Sinha
	Hemant Kumar		
	Raunaque Alam		
12	Sagar Jha	Solar tracking techniques to improve efficiency of solar photovoltaic cell	Dr. S. M. Ahuja
	Himanshu Yadav		
	Arjun Singh Katyar		
13	Larity Nongsieg	Treatment and reutilization of medical waste	Dr. Kamlesh Kumari
	Sweta Jha		
	Mona Kumari		
14	Deepender Kumar Singh	Studies of mechanical properties of Bagasse polypropylene composites	
	Pushpendu		
15	Vijay Bhanu Partap Singh	Studies of Mechanical properties of wood flour polypropylene composites	
16	Ankit Deval	Removal of phenol by Electrochemical oxidation from synthetic waste water using Fe, Al & SS electrodes.	Dr. V. K. Meena
	Ashish Sharma		
	Harendra Singh		
17	Sushil Negi		Dr. V. K. Meena
	Adarsh Kumar		

	Rishikesh Raman	Design and construction of CHE-E-CAR by using thermoelectric generator	
18	Nimmi Kumari	Production of Furfural from bagasse	Dr. A S K Sinha
	Ashutosh Kr Suman		
	Puja Kumari		
19	Jagat Singh	Production of Bioethanol	

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B.E. Year-2018

Sr. No	Name of the Student	Topic	Supervisor
1.	Garima Shukla	Studies on removal of Arsenic using bio-absorption.	Dr Nikhil Prakash
	Richa Tiwari		
	Shreyansh Chaudhary		
	Pratibha Dogra		
	Raushan Raj		
2	Ramkrishna Suthar	Plant design of ethanol production 20,000(B.L/D)	Dr. Avinash Thakur
	Padala Siva Surya Kumar		
	Mohit Prajapati		
	Partik Anand		
	Nidhi Kumari		
3	Anumeet Singh Chhabra	Study of Rerolling Mill	Dr S. M. Ahuja
	Chandrakesh Kumar		
	Charanpal Sharma		
	Dheeraj		
	Jashanpreet Singh		
4	Niranjan Maddeshiya	Manufacturing of Paperboard using Hemp(Cannabis Cultivation) a potential non woody material.	Dr. A S K Sinha
	Aruna Gohain Jyrwa		
	Sanjeet Kumar		
	Nisha Kumari		
	Harwinder Dass		
	Shubham Tiwari	Construction	
	Ranjeet Kumar	of a Bench	

5.	Vishnu Priya	top ultra	Dr. H. R. Ghatak
	Yash Raj	filtration unit & Comparison of Treated water with Boiler feed water standards	
	Aditya Srivastava		
6.	Nitin Prjapati	Batch study on Removal of heavy metal ions from aqueous solution by using Bio materials	Dr. Gulshan Kr. Jawa
	Shailenra Gupta		
	Kana Ram		
	Swati Kumari		
	Km Neha Singh		
7.	Chandan Kumar	Designing of Urea Plant of capacity 1008 tpd.	Dr.V.K Meena
	Amit Kumar		
	Sachita Nand Maurya		
	Vinay Kumar Bharti		
	Prashant Kumar		
8.	Mayuri Khomrang	Manufacturing of soap capacity 1ton/day.	Dr Amit Rai
	Anupama Tiwari		
	Sangram Singh		
	Himanshu Vishvash		
	Sudhakar Suman		
9.	Saurabh Shukla	Exploration of the possibilities of Energy conservation in Flour Mill	Mr. Naveen kumar Kaushley
	Abhay Partap Singh		
	Shubham Kumar		
	Gyandeep		
	Shubash		
10.	Ajit Singh	Studies of Mechanical properties of Wood Flour polypropylene composite	Dr. Vinay Kumar
	Navneet Kumar		
	Mohd Zahid		
	Umashankar Singh		

	Kapil Jadaun		
11.	Ashish	Adsorption study of phenol on biomass based activated carbon	Dr Pushpa jha
	Harpreet Singh		
	Kiran Bawa		
	Ravikant		
12.	Harwinder Singh	Production of Biodiesel using Mustard oil	Dr. Kamlesh Kumari
	Harpreet Singh		
13.	Dilsher Singh	Bio Ethanol production from Biomass (Potatoes)	Dr. Kamlesh Kumari
	Raj Kumar		
	Akash Singh		