

Haldia Institute of Technology
Department of Chemical Engineering

B. Tech Project Allotment for 2025-26

Sl. No.	Project Supervisor	Project Title	Student Name	Roll No.	SDG(s) Addressed	Alignments with PO's & PSO's
1	Prof. R. Das	Production and Optimization of Sodium Silicate & Silica (SiO ₂) from Agricultural Wastes	ANNU KUMARI	10300622029	SDG 9, 12	PO1, PO3, PO4, PO6, PSO1, PSO2
			MANISH KUMAR PANDEY	10300622049		
			AARYA SHAKTI	10300622016		
		Removal of Active Dyes (Malachite Green) by Adsorption Process Using Rice Husk Ash (RHA)	MADHAV KUMAR	10300622047	SDG 6, 12	PO1, PO2, PO4, PO6, PSO1, PSO2
			ABHISHEK KUMAR	10300622017		
			NILANJANA BISHAYEE	10300622055		
2	Prof. A.K. Saha	Development of Reactive Membranes for CO ₂ capture and separation	AYAN BHATTACHARJYA	10300623128	SDG 9, 13	PO1, PO3, PO4, PO5, PO6, PSO1, PSO2
			MADHUMITA GIRI	10300623134		
			SANGITA PATRA	10300623144		
			RAJA JANA	10300623140		
			PRAMIT PRAMANIK	10300622060		
			NILADRI BERA	10300622054		
3	Prof. S.B. Kuila	Development of gelatin based conducting Hydrogels for Bio-Sensors.	SOURAV BERA	10300622095	SDG 3, 9	PO1, PO3, PO4, PO5, PSO1
			RAJESWARI KUNDU	10300622069		
			SUMIT JANA	10300622105		
			SAKSHI BHAGAT	10300622079		
			RISHITA KAR	10300622076		
			RANIT MAL	10300622071		
4	Dr. R.N. Jana	Development of fire proof materials	SATYABRATA DEB	10300622082	SDG 9	PO1, PO3, PO4, PO6, PSO1, PSO2
			SUTANIKA DHARA	10300623155		
			AVIJIT BERA	10300623127		
		Studies on barrier properties of nanocomposite membranes	SUMIT MAITY	10300622106	SDG 9	PO1, PO3, PO4, PO5, PSO1, PSO2
			TANVEER KAJI	10300622115		
			SUBHADIP JANA	10300622099		
5	Prof. S.J.Sahu	Recovery and Removal of Phenol from Resin Industry wastewater	B HARSHITA	10300622037	SDG 6, 12	PO1, PO3, PO4, PO6, PSO1, PSO2
			MANAS BANERJEE	10300622048		
			GOBINDA MONDAL	10300622042		
		Recycling of Used Engine Oil by Acid-Clay Treatment Method	SUVADIP BERA	10300622111	SDG 12	PO1, PO2, PO4, PO6, PSO1, PSO2
			KRISHNA RAJ	10300622045		
			SURAJ PANDA	10300622108		
6	Dr. B. Mandal	Development of Solar-Powered Zero-Discharge Rooftop Water Purification System for Domestic and Industrial	RAHUL MISHRA	10300622066	SDG 6, 7, 12	PO1, PO3, PO4, PO5, PO6, PSO1, PSO2, PSO3
			SATTWIK PRADHAN	10300623146		
			SUJOY SENA	10300622101		
			SAIKAT SAMAL	10300623143		
			RIKU PRAMANIK	10300622075		

			RAJDEEP ROY	10300622068		
7	Prof. U. Ghosh	Design of a Direct Air Capture (DAC) Device for Urban Traffic Intersections	RACHANA HAZRA	10300622064	SDG 9, 13	PO1, PO3, PO4, PO5, PO6, PSO1, PSO2
			SUMAN MANDAL	10300622103		
			ANIRUDDHA DAS	10300622024		
			SUBHADEEP KARMAKAR	10300622098		
			SWATI SANTRA	10300622114		
			JAYANTA DAS	10300623132		
8	Dr. S.S. Boxi	Production of biodiesel using Moringa Oleifera leaves as a green catalyst: A sustainable alternative	RANIT MAITY	10300622073	SDG 7, 12	PO1, PO3, PO4, PO6, PSO1, PSO2
			SUSHMITA	10300622109		
			ANKIT KUMAR	10300622028		
			VIVEK KUMAR	10300622117		
			MOUMITA DAS	10300623136		
			SOUMIK BAGCHI	10300622091		
9	Dr. S. Roy	Process Development and Field Performance of Zinc-Enriched Jute Biochar for Micronutrient Fertilizer Application	SUMANTA DUTTA	10300622104	SDG 2, 12	PO1, PO3, PO4, PO6, PSO1, PSO2
		Synthesis and Characterization of Chitosan-Gelatin Composite Film	SWAGATA SARKAR	10300622113	SDG 9	PO1, PO3, PO4, PO11, PSO1, PSO2
			RUPAYAN DAS	10300622077		
			SOUMILI PATRA	10300622092		
			CHAYAN SINGHA	10300622039		
			SHRABANI PRAMANIK	10300622084		
10	Dr. B. Bej	Fabrication of Novel Filter Media and Its Application in Water Purification	ASIMITA BIJALI	10300622035	SDG 6, 9	PO1, PO3, PO4, PO5, PO6, PSO1, PSO2
			AHANA PRADHAN	10300622019		
			SHUBHASISH BOSE	10300622085		
		Recycling of Spent Battery for Recovery of Valuable Metal	SOUMEN MAITY	10300623149	SDG 9, 12	PO1, PO3, PO4, PO6, PO10, PSO1, PSO2
			AKHIL MURTI	10300622022		
			GOUTAM JANA	10300622043		
11	Dr. K. Rana	Preparation of Citric acid from food waste through fermentation	SURAJ MAITI	10300623154	SDG 9, 12	PO1, PO3, PO4, PO6, PSO1, PSO2
			SATWIK PALADHI	10300623147		
			ARPAN MONDAL	10300623126		
			AYUSH BURMAN	10300622119		
			RUPAMAY PRADHAN	10300623141		
12	Dr. T. Ghosh	Production of Polymeric Hydrogel using PVA and Gelatin- Application for Controlled Drug Delivery	SOUMADIP MONDAL	10300622090	SDG 3, 9	PO1, PO3, PO4, PO5, PSO1
			SHIVAM	10300622083		
			ARKAMITRA BARMAN	10300622033		
			SOUMYAJIT MONDAL	10300622094		
			YUVRAJ SINGH	10300622118		
			RAVI RAJ	10300622074		

13	Dr. L. Das	Electronic Reconstructions of TiO ₂ Lattice for the Application of Visible Light Photocatalysis through Surface Oxygen Vacancy	SOUMADIP GAYEN	10300622089	SDG 9	PO1, PO2, PO4, PO5, PO11, PSO1, PSO2
			OINDRILA SENGUPTA	10300622057		
			SUBHADEEP KAPAT	10300622097		
			SUKANTA DAS	10300623152		
			BISWANATH JANA	10300623130		
			SOUMYADWIP GAYEN	10300622093		
14	Mrs. S. Samanta	Determination of Physico-Chemical Properties of Waste Derived Photocatalytic Aqueous Suspension	ANJALI KUMARI	10300622026	SDG 9, 12	PO1, PO2, PO4, PO6, PSO1, PSO2
			SACHIN GUPTA	10300623142		
			PRIYA VERMA	10300622062		
			RAJNISH KUMAR	10300622070		
			SHREYA SHAW	10300622121		
15	Dr. A. A. Khan	Metal–Organic Frameworks and hybrid adsorbents for efficient carbon dioxide capture: A comprehensive review of recent advances, challenges, and future perspectives	PRIYOSI PAYRA	10300622063	SDG 9, 13	PO2, PO6, PO9, PO11, PSO1, PSO3
			JOTISMAN BANERJEE	10300622044		
			AMAN KUMAR SHAW	10300622023		
			BISWAJIT MAITY	10300623129		
			ANUBHAV KAPRI	10300622030		
16	Dr. S. Saha	Sustainable Recovery of Bioactive Phytochemicals from Leafy Vegetable Wastes: Experimentation and Optimization	SOAHAM MALLIK	10300622087	SDG 3, 12	PO1, PO3, PO4, PO6, PSO1, PSO2
			SUMIT PATTANAYAK	10300622107		
			RANIT KUMAR SANTRA	10300622072		
			PRANAYEE ROY CHOWDHURY	10300622061		
			SK. RAJIBUL ISLAM	10300623148		
17	Dr. S. Poddar	4E Analysis of a Gasification Process	OEISHEE BISWAS	10300622056	SDG 7, 12	PO1, PO2, PO4, PO5, PO10, PSO1, PSO2
			ANISH KUMAR	10300622025		
			NIKHIL KUMAR SINGH	10300622053		
			DIPTODEEP SENGUPTA	10300622040		
			LAXMI KUMARI	10300622046		
18	Dr. A. Mazumder	Performance Evaluation of Self-rotating Liquid Distributing Stirrer	DURBA CHATTOPADHYAY	10300622041	SDG 9	PO1, PO3, PO4, PO5, PSO1, PSO2
			AKASH HATI	10300622021		
			ANUSRITA SAHA	10300622031		
			PRABIR SAMANTA	10300623139		
			SUBHADEEP BARAI	10300623151		
19	Dr. M. Dutta	Intelligent Modelling of Wastewater Characteristics through Data-driven Approach	SUMAN CHATTERJEE	10300622102	SDG 6, 9	PO1, PO2, PO4, PO5, PO6, PO11, PSO1, PSO2
			ABHRADIP PRADHAN	10300622018		
			PAWAN KUMAR GOPE	10300622059		
			PABITRA GURIA	10300622058		
			SOURIN KAR	10300623150		
20	Dr. S.S.Rahut	Study of Oxygen Vacancy Induced CuO Properties and Characteristics Prediction Through Ag Intercalation	RAHIT MAITY	10300622065	SDG 9	PO1, PO2, PO4, PO5, PSO1, PSO2
			SUVAM MAITY	10300622112		
			SANJIT PAL	10300622080		

			ARGHAYA PRAMANIK	10300622032		
			SAFALI SAU	10300622078		
21	Dr. B. Das	Determination of physical properties of various alkanol amine based single and blended solvents for post-combustion CO2 capture	PIYUSH ANAND	10300623137	SDG 9, 13	PO1, PO2, PO4, PO6, PSO1, PSO2
			SUMIT DAS	10300623153		
			MOLI PAUL	10300623135		
			TULIP CHATTERJEE	10300623156		
			POULAMI BERA	10300623138		
22	Dr. B. Pratiha r	Parameter Estimation of PEMFC using Nature-Inspired Optimazation Algorithms	SUSMITA PAUL	10300622110	SDG 7, 9	PO1, PO2, PO4, PO5, PO10, PSO1, PSO2
			SONALI MAITY	10300622088		
			BIPASHA BISRAM	10300622038		
			TITHI DASH	10300622116		
			SUBHAMITA MAL	10300622100		

B. Tech Project Allotment for 2024-25

Sl. No.	Project Supervisor	Project Title	Alloted Student with class Roll No.			SDG(s) Addressed	Alignments with PO's & PSO's
1	Dr. Sourav Poddar	3E Analysis of a pyrolysis process	21/CHE/12 ANTARIP KABIRAJ	21/CHE/70 RATAN DAS	21/CHE/115 TANMOY BISWAS	7, 12	PO1, PO2, PO4, PO6, PO10, PSO1, PSO2
2	Dr. Sourav Poddar	Mathematical calculation, optimization of a fuel cell system	21/CHE/113 TANIYA DATTA	21/CHE/45 MAHWISH JABIN	21/CHE/82 SAPTARSI PATRA	7, 9	PO1, PO2, PO4, PO5, PO10, PO11, PSO1, PSO2
3	Dr. Rabindranath Jana	Exploration of Artificial Leaf	21/CHE/37 ISHIKA GHOSH	21/CHE/25 CHANDNI PAIRA	21/CHE/66 RAJEEV KUMAR	7, 13	PO1, PO2, PO3, PO4, PO5, PO6, PO11, PSO1, PSO2
4	Dr. Rabindranath Jana	Analysis of Organic Solar Cells Performance	21/CHE/40 KALYAN MAITY	L22/CHE/141 MRINAL KANTI GHORAI	21/CHE/65 RAJ DUTTA	7, 9	PO1, PO2, PO4, PO5, PO6, PO11, PSO1, PSO2
5	Dr. Deepak Kumar Samal	Hydrodynamic study of liquid distributing stirrer	L22/CHE/137 PAMEL SAHA	21/CHE/49 MIR BULBUL ALI	21/CHE/57 PRABANDHA MAITI		PO1, PO2, PO3, PO4, PO5, PO11, PSO1, PSO2
6	Dr. Deepak Kumar Samal	Performance analysis of CSTR using non-electrical driven stirrer	L22/CHE/136 SANKET JANA	21/CHE/90 SOHAN GIRI	21/CHE/79 SAMIM MOLLA	7, 9	PO1, PO2, PO3, PO4, PO5, PO11, PSO1, PSO2
7	Pi: Dr. Anoar Ali Co.PI: Dr. Ankita Majumder	Eco-Friendly Adsorbent Innovations from Sewage Sludge for Sustainable Wastewater Treatment	21/CHE/55 POULOMI BERA	21/CHE/48 MD. INZEMAMUL HAQUE	21/CHE/52 NAMAN KUMAR	6, 12	PO1, PO2, PO3, PO4, PO6, PO11, PSO1, PSO2, PSO3
8	Pi: Dr. Anoar Ali Co.PI: Dr. Suman Saha	Sustainable Carbon Capture Using Eco-Friendly Adsorbents from Sewage Sludge: A Green Pathway to a Cleaner Environment	21/CHE/41 KAUSHIK BERA	21/CHE/91 SOUMITRA JANA	21/CHE/105 SURAJIT MONDAL	13, 12	PO1, PO2, PO3, PO4, PO6, PO11, PSO1, PSO2
9	Prof. Radha Das	Production & Optimization of Sodium Silicate & Silica (SiO ₂) from Agricultural Wastes Production & Optimization of Sodium Silicate & Silica (SiO ₂) from Agricultural Wastes	21/CHE/101 SUBHOJIT ASH	21/CHE/94 SOUMYAJIT MAITY	21/CHE/81 SAPTAK MANDAL	12	PO1, PO2, PO3, PO4, PO6, PO11, PSO1, PSO2
10	Prof. Radha Das	Photo degradation of Medicinal wastes / Heavy Metals in Presence of Semiconductor Nano-materials	21/CHE/98 SRUSTI MAITY	21/CHE/110 SWAPNADEEP GURIA	21/CHE/83 SATTWIK MAITY	6, 3	PO1, PO2, PO4, PO5, PO6, PO11, PSO1, PSO2
11	PI: Prof. Tapas Kumar Manna Co.PI: Dr. Biswajit Mandal	Studies on the performance of water purification system using solar energy	21/CHE/07 ANIKET MAZUMDER	21/CHE/51 MUSHARRAF AHMED	21/CHE/46 MANJEET NARAYAN HARSHVARDHAN	6, 7	PO1, PO2, PO3, PO4, PO5, PO6, PO10, PO11, PSO1, PSO2, PSO3
12	PI: Prof. Tapas Kumar Manna Co.PI: Dr. Lipika Das	Some studies on the economic production of Biodiesel.	21/CHE/09 ANISH ADAK	21/CHE/04 AMAN MALLICK	21/CHE/62 PRITAM CHAKRABORTY	7, 12	PO1, PO2, PO3, PO4, PO6, PO10, PO11, PSO1, PSO2
13	Dr. Siddhartha Sankar Boxi	Development of Pesticide Residue Detection Process for Fruits and Vegetables	21/CHE/89 SOHAM SEN	21/CHE/01 ABHINANDAN TALA	21/CHE/08 ANIRBAN ADHIKARY	2, 3	PO1, PO2, PO3, PO4, PO5, PO6, PO11, PSO1, PSO2, PSO3
14	Dr. Siddhartha Sankar Boxi	Use of Heterogeneous Nanocatalysts in Transesterification Process for Biodiesel Synthesis	21/CHE/15 ARKAPRAVA PAL	21/CHE/106 SURYARGHYA MUKHERJEE	21/CHE/39 JOY ADHIKARY	7, 12	PO1, PO2, PO3, PO4, PO5, PO6, PO11, PSO1, PSO2
15	Dr. Siddhartha Sankar Boxi	Gold Recovery from Waste Computer Circuit Board by the Process of Leaching	21/CHE/38 JANAYETRI BARMAN	21/CHE/108 SUSOVAN MAITY	21/CHE/69 RASHMI MISHRA	12, 9	PO1, PO2, PO3, PO4, PO6, PO10, PO11, PSO1, PSO2, PSO3
16	PI: Dr. Ankita Mazumder CO PI : Dr. Suman Saha	Modified biosorbent for sustainable and eco-friendly wastewater treatment: adsorption mechanism and parametric optimization.	21/CHE/114 TANMAY PATRA	21/CHE/88 SNEHAMOY PAKHIRA	21/CHE/74 ROHAN PAUL	6, 12	PO1, PO2, PO3, PO4, PO5, PO6, PO11, PSO1, PSO2

17	PI: Dr. Ankita Mazumder CO PI : Dr. Anoar Ali Khan	Biomass-derived adsorbent for the removal of recalcitrant pollutants from waste stream	21/CHE/06 ANANDA MOHAN JANA	21/CHE/109 SUVAM DEY	21/CHE/61 PRINCE RAJ	6, 12	PO1, PO2, PO3, PO4, PO6, PO11, PSO1, PSO2
18	PI: Dr. Tanushree Ghosh CO PI: Prof. S.B. Kuila & Dr. Lipika Das	Development and characterization of polymeric hydrogel system used in drug delivery system: study on separation efficiency of drug molecules.	21/CHE/56 PRABAL SAHOO	21/CHE/77 SAHIL SHAW	21/CHE/78 SAIKAT MAITY	3	PO1, PO2, PO3, PO4, PO5, PO11, PSO1, PSO2
19	PI: Dr. Tanushree Ghosh CO PI: Dr. Sutapa Roy, Dr. Sunil Baran Kuila & Dr. Lipika Das	Development of nano-reinforced epoxy-polyester resin composites: a comparative study on their mechanical properties	21/CHE/103 SUDIP NAYAK	21/CHE/44 MAANAS KUMAR MAHTO	B21/CHE/148 ADITYA KUMAR ROY	9	PO1, PO2, PO3, PO4, PO5, PO11, PSO1
20	Ms. Aditi Sinha	Eco-Friendly Wastewater Treatment: Innovations for a Sustainable Planet	21/CHE/05 AMITAVA BERA	21/CHE/119 WASIM AKTAR SHA	21/CHE/120 ZAFAR UL HASAN	6, 12	PO1, PO2, PO3, PO4, PO6, PO11, PSO1, PSO2, PSO3
21	Guide: Ms. Aditi Sinha CO Guide: Dr. B. Mandal	Innovative Approaches in Wastewater Treatment: Advancements and Applications	21/CHE/20 ARYA BANERJEE	21/CHE/29 DIBYENDU NATH	21/CHE/23 ATIN KUMAR	6, 12	PO1, PO2, PO3, PO4, PO6, PO11, PSO1, PSO2
22	PI: Ms. K. Rana Co. PI: Prof. A. K. Saha	Some Studies on the Production of Potable Water by Filtration using Natural Fibre	L22/CHE/132 KUNAL CHANDRA DHARA	21/CHE/26 DEBASHISH	21/CHE/64 RAHUL KUMAR	6, 12	PO1, PO2, PO3, PO4, PO6, PO11, PSO1, PSO2, PSO3
23	PI: Mrs. S. Samanta Co PI: Prof. A. K. Saha	Some Studies on the Kinetics of Nano-Catalysed Gas-Liquid Reactions in a CSTR	21/CHE/28 DEBOSMIT CHOUDHARY	21/CHE/11 ANKIT SINGH	B21/CHE/149 BISHAL KUNDU	9	PO1, PO2, PO3, PO4, PO5, PO11, PSO1, PSO2
24	PI: Mrs. S. Samanta Co PI: Prof. A. K. Saha	Synthesis of Graphene Oxide from bio-waste materials.	21/CHE/17 ARNAB ROY	21/CHE/85 SHRUTI KUMARI	21/CHE/118 VIVEK KUMAR PANDEY	12, 9	PO1, PO2, PO3, PO4, PO6, PO11, PSO1, PSO2
25	PI: Prof. A. K. Saha CO PI: Dr. S. Roy	Some Studies on Supercritical CO ₂ Extraction of Cumin Seed Oil	21/CHE/107 SUSANTA PAL	B21/CHE/152 SAGAR ROY	21/CHE/60 PRAVEEN KUMAR SINGH	9, 12	PO1, PO2, PO3, PO4, PO5, PO6, PO11, PSO1, PSO2
26	PI: Prof. A. K. Saha CO PI: Dr. A. A. Khan	Exploratory Studies on Fry-Drying of Some Seasonal Fishes	L22/CHE/133 ISHIKA CHOWDHURY	21/CHE/14 ARINDAM SAMANTA	21/CHE/27 DEBASISH SAMANTA	2, 12	PO1, PO2, PO3, PO4, PO5, PO6, PO11, PSO1
27	PI: Dr. Sutapa Roy Co-PI: Prof. S.B. Kuila, Dr. S. Chatterjee & Dr. S. Das Majhi	Development and characterization of novel bio-polymeric hydrogel loaded with Antibacterial Agent.	21/CHE/99 SUBHADEEP MIDYA	21/CHE/102 SUBRATA DASGUPTA	21/CHE/03 AJAY SINGH	3	PO1, PO2, PO3, PO4, PO5, PO6, PO11, PSO1
28	PI: Dr. Sutapa Roy Co-PI: Dr. Lipika Das	Synthesis of Nanoparticles from Vegetable Waste	21/CHE/84 SAYAN GHOSH	21/CHE/71 RISIKA JANA	21/CHE/76 SAHIL AHMED MOLLA	12, 9	PO1, PO2, PO3, PO4, PO6, PO11, PSO1, PSO2
29	Dr. Biswajit Mandal	Studies on the strategies to get rid of odour of bitumen based paint	L22/CHE/146 ANJAN SEN	21/CHE/75 RUPAK DAS	21/CHE/16 ARNAB MAHATO	3, 11	PO1, PO2, PO3, PO4, PO6, PO11, PSO1, PSO2
30	Dr. Biswajit Mandal	Studies on the solar hydrogen reactor design for hydrogen production	L22/CHE/138 SUBHAJIT SAHOO	L22/CHE/142 PRATIM ADAK	21/CHE/36 INDRAJIT MANDAL	7, 9	PO1, PO2, PO3, PO4, PO5, PO6, PO10, PO11, PSO1, PSO2
31	PI: Lipika Das Samanta Co-PI: Dr. Biswajit Mandal	Developing dye-sensitized solar cells based on anatase titanium di-oxide by using naturally occurring dyes as sensitizers.	B21/CHE/150 KARTIK RAJ	21/CHE/32 GAUTAM KUMAR	21/CHE/86 SHUBHAM KUMAR	7, 9	PO1, PO2, PO3, PO4, PO5, PO6, PO11, PSO1, PSO2
32	PI: Lipika Das Samanta Co-PI: Dr. Sutapa Roy	Preparation of nanocomposite catalyst and application in advanced oxidation process	21/CHE/80 SANKALAN DAS	21/CHE/43 KUNTAL PRAMANIK	L22/CHE/147 MADAN GOPAL JANA	6, 9	PO1, PO2, PO3, PO4, PO5, PO6, PO11, PSO1, PSO2
33	Dr. Suman Saha Co PI: Dr. Ankita Mazumder	Extraction and Analysis of Value-Added Compounds from Agricultural Sources: Experimental and Theoretical Approaches	21/CHE/112 TANIA KARAN	21/CHE/97 SRINJOY MANI	21/CHE/104 SUPRATIK MUKHOPADHYA Y	2, 12	PO1, PO2, PO4, PO5, PO6, PO11, PSO1, PSO2

34	Dr. Suman Saha Co PI: Dr. Anoar A. Khan	Catalyst Assisted thermochemical conversion of biomass	B21/CHE/151 KOUSIK PRAMANIK	L22/CHE/135 SURAJIT DUARI		7, 12	PO1, PO2, PO3, PO4, PO5, PO6, PO11, PSO1, PSO2
35	PI: Dr. Barnali Bej CO PI: Dr. Siddhartha S. Boxi	Fabrication of novel filter media and its application in water purification.	21/CHE/30 DIPANWITA MAITY	L22/CHE/140 SURAJ DAS	L22/CHE/139 SOUVIK DAS	6	PO1, PO2, PO3, PO4, PO5, PO6, PO11, PSO1, PSO2, PSO3
36	PI: Dr. Barnali Bej CO PI: Dr. Siddhartha S. Boxi	Recycling of spent battery for recovery of value added metal.	21/CHE/18 ARUN KUMAR JANA	21/CHE/111 SWARNABITAN SAHOO	21/CHE/22 ASHISH KUMAR	12, 9	PO1, PO2, PO3, PO4, PO6, PO10, PO11, PSO1, PSO2, PSO3
37	PI - Dr. S. J Sahu, Co - PI - Dr. S. Roy	Studies on Agro based biomass up gradation as energy source	21/CHE/24 BIDIPTA MAITY	21/CHE/59 PRASOON KUMAR	21/CHE/02 ABHISHEK KUMAR	7, 12	PO1, PO2, PO3, PO4, PO6, PO11, PSO1, PSO2
38	PI - Dr. S. J Sahu Co PI - Dr. L. Das	Recycling of waste engine oil	L22/CHE/131 TRISHA HALDAR	21/CHE/34 HRITHIK DUTTA	21/CHE/47 MANOJ YADAV	12	PO1, PO2, PO3, PO4, PO6, PO11, PSO1, PSO2
39	Prof. Sunil B. Kuila	Development of a new reinforced Conducting Polymeric IPN hydrogel for using as Bio-Sensor.	21/CHE/68 RAKESH DAS	21/CHE/72 RITAM SAHA	21/CHE/116 TAPANJYOTI GOSWAMI	3, 9	PO1, PO2, PO3, PO4, PO5, PO11, PSO1
40	PI- Prof. Sunil B. Kuila Co-PI : Dr. Shubhi Gupta, IIT (ISM) Dhanbad	Studies on thermal degradation behavior, kinetics, thermodynamics and reaction mechanism analysis of locally available biomass using ios-conversional methoda to analyze the bio-energy potential.	21/CHE/93 SOUMYADIP DAS	21/CHE/73 RITU THAKUR		7, 9	PO1, PO2, PO4, PO5, PO6, PO11, PSO1, PSO2
41	PI- Prof. Sunil B. Kuila Co-PI : Prof. Pradipta Purakayastha, IISER- Kolkata	Exploring the photo-Catalytic pathways of Protein or Peptide Nano-Dots towards waste water remediation.	21/CHE/92 SOUMYA PURKAYASTHA			6, 9	PO1, PO2, PO4, PO5, PO6, PO11, PSO1, PSO2

Academic Year 2023-24

Sl. No.	Project Supervisor	Project Title	Allotted Students Name & Roll No.	Environment, safety, ethics, cost	Alignments with PO's & PSO's
1	Dr. Rabindranath Jana	Development of future generation solar cell	ChhutiMistry(20/CHE/38), Anjali Jha(20/CHE/15), AnshikaKumari(20/CHE/18), Ankit Kumar(L21/CHE/129	Environment, Cost, Ethics	PO1,PO7, PO8, PO11,PSO2
2	Dr. Rabindranath Jana	Functionalization of nanoparticles	RajasreeGiri(20/CHE/69), ArghaMaiti(20/CHE/21), Arijit Jana(20/CHE/22), KritiMondal(L21/CHE/133)	Cost, ethics	PO1, PO4,PO8, PO11,PSO2
3	Guide: Prof. A K Saha Co-Guide: KekaRana	Exploration of CO ₂ -H ₂ O auxiliary equilibrium to harness solar energy for refrigeration and air-conditioning.	SayanSahoo(L21/CHE/136), Bidisha Jana(L21/CHE/132), Souvik Roy(20/CHE/106), SouvikPanja(20/CHE/105)	Cost, Ethics	PO1,PO3,PO7, PO8, PO11,PSO2

4	Guide: Prof. A K Saha Co-Guide: SonaliSamanta	Characterization of Tal-palm (Borassusflabellifer) fruit-fibre for different uses.	Amit Das(20/CHE/10), Anish Kumar(20/CHE/13), Gourab Kumar(20/CHE/44),	Cost, Ethics	PO1,PO3,PO4,PO8, PO11,PSO2
5	Dr. Siddhartha SankarBoxi	Development of Pesticide Residue Detection Process for Fruits and Vegetables.	ShreyaTarafdar(20/CHE/92), SanjibanChatterjee(20/CHE/80), SuBham Kumar Maity(20/CHE/111), SagnikChakraborty(20/CHE/77)	Environment, Cost, Ethics	PO1, PO3,PO7, PO8, PO11,PSO2,PSO3
6	Dr. Siddhartha SankarBoxi	Use of heterogeneous nanocatalyst for the production of biodiesel from sewage sludge	Binay Pal(20/CHE/35), Abhijit Das(20/CHE/01), AneketSingh(20/CHE/11), Pintu Kumar Saw(20/CHE/60)	Environment, Cost, Ethics	PO1,PO3,PO7, PO8,PSO2,PSO3
7	Prof. Radha Das	Production of Sodium Silicate (Na_2SiO_3) & Silica (SiO_2) from Sugar Cane Bagasse and other Agricultural Wastes : Waste to Wealth	SubhadipSaha(20/CHE/107), Kishalay Mukherjee(20/CHE/48), DipanwitaBhowmik(20/CHE/42),	Environment, Cost, Ethics	PO1,PO3,PO7, PO8, PSO1,PSO2
8	Prof. Radha Das	Removal of Heavy	Suman Kumar	Environment, Cost, ethics	PO1,PO4,PO7, PO11,PSO2

		Metals from Synthetic Wastes using Bio-Adsorbents : A Green Approach	Patra(20/CHE/116), SubhankarPramanik(20/CHE/113),		
9	Prof. Radha Das	Photo degradation of Pharmaceutical Wastes / Heavy Metals in Presence of Semiconductor Nanomaterials	ArjunMoi(20/CHE/24), MahammadMazidulHossain(20/CHE/52), MilindPranay(20/CHE/55)	Environment, cost safety, ethics	PO3, PO4,PO7,PO8, PO11,PSO2
10	Dr. Deepak Kumar Samal	Hydrodynamic study of two stage continuous PSRBC bubble column	Md. EzazNasem(20/CHE/54), PriyeRanjan(20/CHE/65), Sourav Kumar(20/CHE/84)	Cost, ethics	PO2, PO3,PO4,PO8, PSO1,PSO2
11	Dr. Deepak Kumar Samal	Mass transfer study in a semi-fluidized bed.	Rahul Kumar(20/CHE/66), Roushan Kumar(20/CHE/72), Sourabh Kumar(20/CHE/83)	Cost, ethics	PO1,PO4,PO8, PO11,PSO2
12	Dr.BiswajitMandal	Studies on the composition of electro-catalyst for Proton exchange membrane fuel cell	SnehashisKuila(20/CHE/95), SaibalMaity(20/CHE/78), Soumyakanti Pal(20/CHE/99)	Cost, ethics	PO1,PO3,PO8, PO11,PSO2
13	Dr.BiswajitMandal	Studies on the proton exchange membrane	KajalPoddar(20/CHE/46), MukutAnand(20/CHE/56), Amar Kumar(20/CHE/07),	Environment, cost, safety, ethics	PO1,PO3,PO4,PO8, PO11,PSO1, PSO2

		for hydrogen fuel cell.	Chandan Kumar Gupta(20/CHE/37		
14	Guide: Dr.SumanSaha Co-Guide : Dr.Anora Ali Khan	Recovery of Value-added Compounds from Agricultural Sources: Experimentation and Theoretical Analysis.	PranjaliJha(20/CHE/63), SubhadipNaskar(20/CHE/94), SomnathMukharjee(20/CHE/97)	Environment, cost, ethics	PO1,PO3,PO4,PO8, PO11,PSO2
15	Guide: Dr.SumanSaha Co-Guide : Dr.Anora Ali Khan	Kinetics on Removal of Natural Organic Matters from Water Bodies using Hybrid Separation Process: Experimental and Theoretical Approach.	AkashSaha(20/CHE/06), Nikhil Parmar(20/CHE/59), DebjitBiswas(20/CHE/40), Souvik Adak(20/CHE/103)	Environment, cost, ethics	PO1,PO2, PO6, PO8, PSO2,PSO3
16	Dr.SouravPoddar	Studies on design and operation parameters of regenerative fuel cell	Amar Pradhan(20/CHE/08), Ayan Jana(20/CHE/31), AnshuKumar(20/CHE/19)	Environment, cost, ethics	PO1,PO3, PO7,PO8, PO11,PSO2
17	Dr.SouravPoddar	Chromium removal from domestic wastewater	AbhijitGhosh(20/CHE/02), Rabi Ranjan(20/CHE/73), RohitChatterjee(20/CHE/75), TanishaMukhopadhyay(20/CHE/122)	Environment, cost, ethics	PO1,PO2,PO6,PO7,PO8,PSO1,PSO2
18	PI -	Studies on Agro based	SayanHalder(20/CHE/85),	Environment, cost, safety,	PO1,PO3,

	Dr.SomakJyotiSahu, Co - I - Dr.Sutapa Roy	biomass up gradation as energy source	RukminiGhosh(20/CHE/76), SekharGourabBhagat(20/CHE/ 91), Somroy(20/CHE/96)	ethics	PO6,PO7,PO8,PSO2
19	PI - Dr.SomakJyotiSahu Co I - Dr.Lipika Das	"Studies of Water Quality Index around Haldia	Rahul Roy(20/CHE/67), Rakesh Jana(20/CHE/70), SubhajitMaity(20/CHE/110)	Environment, cost, safety, ethics	PO1,PO3,PO4,PO8, PO11,PSO1, PSO2
20	Dr.SomakJyotiSahu	Studies on recycling of used engine oil to save the environment	Baishakhi Das(L21/CHE/131), AnkanaPramanik(20/CHE/16), Chirag Kumar Kabi(20/CHE/39)	Environment, cost, safety, ethics	PO1,PO3, PO7, PO8, PSO1,PSO2
21	PI: Prof. Tapas Kumar Manna Co I: Dr.BiswajitMandal	Some studies on Solar powered zero discharge roof top water purification system for domestic use.	SubhankarDutta(20/CHE/112), SayantanMaity(20/CHE/89), Suman Das(20/CHE/115)	Environment, cost, safety, ethics	PO1,PO3, PO8,PSO2,PSO3
22	PI: Prof. Tapas Kumar Manna Co I: Dr.Lipika Das	Impregnated Egg shell and conch shell as Heterogeneous Nanocatalysts for Biodiesel Production .	ManjarAlam(20/CHE/53), Jaya Kumari(20/CHE/45),Deep Raj(20/CHE/43), AnimeshNagwanshi(20/CHE/1 2)	Environment, Cost, Ethics	PO1,PO7, PO8, PO11,PSO2,PSO3
23	Guide: SonaliSamanta Co-Guide: A. K. Saha	Synthesis of Graphene Oxide from Waste Material for Sustainable	AbhiroopSahoo(20/CHE/04), Akash Chand(20/CHE/5)	Environment, cost, safety, ethics	PO1,PO3, PO7, PO8, PSO2,PSO3

		Application.			
24	Guide: Sonali Samanta Co-Guide: A. K. Saha	Development of Waste Supported TiO ₂ for Photocatalytic Application.	Sougata Khatua(20/CHE/98), Sunil Kumar Chouhan(20/CHE/118), Bikash Kumar(20/CHE/126)	cost, ethics	PO1,PO3, PO7, PO8, PSO2,PSO3
25	PI: Dr.Sutapa Roy Co-PI: Prof. S.B. Kuila, T. Ghosh, Dr. S. Chatterjee&Dr. S. Das Majhi	Development and characterization of novel antibacterial bio-polymeric hydrogel.	Rishikesh Kumar(20/CHE/74), Raja Kumar(20/CHE/68), Barun Kumar(20/CHE/125), Amartya Kumar(L21/CHE/127)	cost, ethics	PO1,PO3, PO8, PO11,PSO1,PSO2
26	PI: Dr.Sutapa Roy Co-PI: Prof. S.B. Kuila&Dr. T. Ghosh	Studies on the mechanical properties of nano-reinforced epoxy-vinyl composites.	SoumyaSubhraGuha(20/CHE/100), SoumyadipChowdhury(20/CHE/102), SubhajitPatra(20/CHE/108)	Cost, ethics	PO1,PO4, PO8, PO9,PSO1, PSO2
27	PI: Dr.TanushreeGhosh Co-PI: Prof. S.B. Kuila&Dr.Lipika Das	Studies on the efficiency of drug molecules separation using polymeric hydrogel in drug delivery system.	SujitRanjan(20/CHE/114), Sunil Kumar(20/CHE/117), SuryakantaGiri(20/CHE/119)	Cost, safety, ethics	PO1,PO4, PO6,PO8, PO9,PSO2,PSO3
28	PI: Dr.TanushreeGhosh Co-PI: Dr.Sutapa Roy	Nutritional profile evaluation from	Trpti Singh(20/CHE/124), BabusonaDolui(L21/CHE/130), Nilaj Kumar Pradhan(L21-	Cost, ethics	PO1,PO2, PO6, PO8, PSO2,PSO3

	&Dr.Lipika Das	natural dry leaves	CHE/134)		
29	PI: Lipika Das Co-PI: Dr.BiswajitMandal	Developing dye-sensitized solar cells based on anatase titanium di-oxide by using naturally occurring dyes as sensitizers.	ArishaMondal(20/CHE/23), SayanPusti(20/CHE/86), SubhajitSaha(20/CHE/109)	Environment, cost, ethics	PO1,PO3, PO7,PO8, PSO2,PSO3
30	PI: Dr.Lipika Das Co-PI: Dr.Sutapa Roy and Dr.TanushreeGhosh	Synthesize of nano catalyst from natural waste	AsahnkurPandit(20/CHE/26), Sayan Kumar Das(L21/CHE/135), AnkushSamanta(20/CHE/17)	Environment, cost, ethics	PO1,PO2, PO4,PO8, PSO2,PSO3
31	PI: Dr.Anoar Ali Khan Co-PI : Dr.SumanSaha	Development & Characterization of Activated Biochar Towards Heavy Metal Removal from Industrial Effluent	KoustavSamanta(20/CHE/50), SayanSantra(20/CHE/87), SwapnajaSarkar(20/CHE/120)	Environment, cost, ethics	PO1,PO2, PO3,PO7, PO8, PSO1,PSO2
32	PI: Dr.Anoar Ali Khan Co-PI : Prof. Asit Kr Saha&Dr.SumanSaha	Post-combustion CO ₂ capture techniques and conversion to value-added products for the improvement and utilization of renewable energy	Arnab Kumar Mondal(20/Che/25), NeeladriSekharBera(20/CHE/57), AyanMaity(20/CHE/32)	Environment, cost, ethics	PO1,PO2, PO3,PO7, PO8, PSO1,PSO2

		resources			
33	PI: Dr.BarnaliBej , Co PI : Dr. Siddhartha SankarBoxi	Application of steam activated biochar for river water purification.	AnishMondal(L21/CHE/128), AyanikaChatterjee(20/CHE/33), KoushikGhosh(20/CHE/49)	Environment, cost, ethics	PO1,PO3, PO7, PO8, PSO1,PSO2
34	PI: Dr.BarnaliBej , Co PI : Dr. Siddhartha SankarBoxi	Production of biodiesel from waste cooking oil using novel indigenous nanocatalyst.	SayantanGhosal)20/CHE/88), SanchalakGhosh(20/CHE/79), Subhadip Bag(20/CHE/93)	Environment, cost, ethics	PO1,PO3, PO7, PO8, PSO1,PSO2
35	PI: Ms.AditiSinha Co I: Dr.BiswajitMandal	An investigation into hydrogen, the clean energy source of the future: Strategies for storing hydrogen	AbhinabaMondal(20/CHE/03), AnupamGhosh(20/CHE/20), TanishaDutta(20/CHE/123)	Environment, cost, safety, ethics	PO1,PO3, PO7, PO8, PSO1,PSO2
36	Ms.AditiSinha	Studies on electrocatalysis of Polymer Electrolyte Membrane Fuel Cell(PEMFC)	Prachi Singh(20/CHE/62), SoumyadipRaptan(20/CHE/101), TanmayGhara(L21/CHE/138)	Environment, Cost, Ethics	PO1,PO7, PO8, PO11,PSO2
37	Ms.KekaRana	Optimum impeller design for pilot stirred tank reactor through CFD	Kushal Mishra(20/CHJE/51)	Ethics	PO1,PO2, PO5,PO8, PSO2,PSO3

38	Ms.KekaRana	Study of optimum clearance volume between two concentric cylinders of Couette flow membrane module using computational fluid dynamics approach.	SayantakMaity(20/CHE/121), Pratham Gupta(20/CHE/64), SanjuktaSaha(20/CHE/81)	Ethics	PO1,PO2, PO5,PO8, PSO2,PSO3
39	PI: Prof. Sunil B. Kuila CO-I: Dr.BiswajitMandal&Dr .ChandanDatta	Synthesis &Charecterization of re-inforced Polymeric IPN Hydrogels.	Abhirup Das(20/CHE/29), DebshilpiPatra(20/CHE/41), SayanMajhi(20/CHE/90),	Environment, cost safety, ethics	PO1,PO4, PO8, PO9,PSO1, PSO2

Academic Year 2022-23

Sl. No.	Project Supervisor	Project Title	Allotted Students Name & Roll No.	Environment, safety, ethics, cost	Alignments with PO's & PSO's
1	Dr.BiswajitMandal	Studies on solar hydrogen generator	1. SayantanGhosh (19/CHE/86). 2. Debdatta Roy (19/CHE/25), 3. SubhamRuidas (20/CHE/137),4. PrasenjitMondal (20/CHE/133)	Environment, Cost, Ethics	PO1,PO7, PO8, PO11,PSO2
2	Dr.BiswajitMandalDr. Sunil BaranKuila	Studies on catalyst composition for PEM Fuel Cell	1.SwetaKumari (19/CHE/93), 2. PriyaKumari (19/CHE/65), 3. Priye Raj (19/CHE/66), 4. RoshniParashar (19/CHE/75)	Environment, Cost, Ethics	PO1,PO7, PO8, PO11,PSO2
3	Dr. Sunil BaranKuilaMrs.TanushreeGhosh	Development of Polymeric Hydrogels for Separations	1. AnishaSatpati (19/CHE/09), 2. Aishwarya Mishra (19/CHE/06), 3. Arijit Pal (19/CHE/14), 4. Arnab Kumar Patra	Cost, Ethics	PO1,PO3,PO7, PO8, PO11,PSO2

			(19/CHE/15)		
4	Dr. Sunil Baran Kuila Dr. Biswajit Mandal Dr. Chandan Datta	Development & Characterization of Polymeric Conducting Hydrogels	1. Ripa Sutar (19/CHE/123), 2. Poulami Majumder (19/CHE/61), 3. Anurag Jha (19/CHE/12), 4. Juhi Roy (19/CHE/38)	Cost, Ethics	PO1, PO3, PO4, PO8, PO11, PSO2
5	Dr. Tapas Kumar Manna Dr. Biswajit Mandal	Studies on the effectiveness of ethanol – gasoline blend as fuel	1. Subhra Karmakar (19/CHE/112), 2. Saurav Kumar (19/CHE/113), 3. Raghav Choudhury (19/CHE/67), 4. Sujoy Howlader (19/CHE/83)	Environment, Cost, Ethics	PO1, PO7, PO8, PO11, PSO2, PSO3
6	Dr. Tapas Kumar Manna Dr. Lipika Das	Impregnated Eggshell and conch shell as a Heterogeneous Nanocatalysts for Biodiesel Production	1. Sk. Alamgir Badsha (20/CHE/135), 2. Rajesh Chouni (19/CHE/70), 3. Reteak Kumar (19/CHE/72), 4. Sirshendu Samanta (19/CHE/91)	Environment, Cost, Ethics	PO1, PO7, PO8, PO11, PSO2, PSO3
7	Dr. Siddhartha S. Boxi	Use of heterogeneous nanocatalyst for the production of biodiesel from sewage sludge	1. Bristi Sengupta (19/CHE/23), 2. Debasmita Barman (19/CHE/27), 3. Faisal Jamin (19/CHE/34), 4. Md. Akram Raj (19/CHE/49)	Environment, Cost, Ethics	PO1, PO7, PO8, PO11, PSO2, PSO3
8	Dr. Siddhartha S. Boxi	Extraction of Copper from Printed Circuit Board (PCB) by Acid Leaching	1. Kuntal Choudhury (19/CHE/43), 2. Arunesh Kumar (19/CHE/16), 3. Abhay Saha (19/CHE/04), 4. Pankaj Kumar Singh (19/CHE/59)	Cost, ethics	PO1, PO4, PO8, PO11, PSO2

9	Dr. Siddhartha S. Boxi	Visible Light Photo degradation of Paracetamol in Presence of Semiconductor Nanomaterials	1. Abhishek Sinha (19/CHE/03), 2. Biswajit Nandi (19/CHE/20), 3. Bodhisatwa Roy (19/CHE/22), 4. Arka Chatterjee (B27)	Environment, cost safety, ethics	PO3, PO4, PO7, PO8, PO11, PSO2
10	Dr. Lipika Das Dr. Biswajit Mandal	Developing dye-sensitized solar cells based on anatase titanium di-oxide by using naturally occurring dyes as sensitizers.	1. Mrityunjay Kumar (19/CHE/52), 2. Md. Ehtesham Ansari (19/CHE/50), 3. Nishi Bharti (19/CHE/55), 4. Pabitra Kumar Jana (20/CHE/130)	Environment, cost, ethics	PO3, PO4, PO7, PO8, PO11, PSO2
11	Dr. Lipika Das Dr. Somak Jyoti Sahu	Synthesis of nano catalyst from waste materials	1. Soumyadip Hati (19/CHE/98), 2. Soumik Mitra (19/CHE/99), 3. Sounak Biswas (19/CHE/100), 4. Sourin Bhowmik (19/CHE/101)	Environment, cost safety, ethics	PO1, PO4, PO8, PO11, PSO2
12	Dr. Somak Jyoti Sahu Dr. Sutapa Roy	Synthesis and characterization of cashew nut shell oil (CNSL) by solvent extraction/Super critical Fluid Extraction	1. Loknath Das (19/CHE/44), 2. Kiran Kumari (19/CHE/41), 3. Arfa Alam Khan (19/CHE/01), 4. Krishnendu Ghosh (19/CHE/42)	Cost, ethics	PO1, PO4, PO8, PO11, PSO2
13	Dr. Somak Jyoti Sahu Dr. Lipika Das	Studies of Water Quality Index	1. Sayak Kundu (19/CHE/85), 2.	Environment, cost,	PO1, PO3, PO4, PO8, PO11, PSO1, PSO2

		around Haldia Industrial Region	SarthakChakraborty (19/CHE/78), 3. Sk Sultan Ahmed (19/CHE/95), 4. SougataMondal (19/CHE/97)	safety, ethics	
14	Dr.SomakJyotiSahuDr.Lipika Das	Synthesis of nano- composite for Phenol removal	1. Sananda Das (19/CHE/77), 2. SattamDalui (19/CHE/81), 3. Saurya Raj (19/CHE/84), 4. Sunny Agarwal (19/CHE/114)	Cost, safety, ethics	PO1,PO3,PO4,PO8, PO11,PSO2
15	Dr. Rabindranath Jana	Nature Inspired Energy Harvesting	1. SutanuSamanta(19/CHE/116), 2. SkRafikulIslam(19/CHE/94), 3. Surendra Kumar (19/CHE/115), 4. Abhijit Kumar(19/CHE/02)	Environmen t, cost, ethics	PO1,PO2, PO8, PO11,PSO2
16	Dr. Rabindranath Jana	Development of Flexible Solar Cells	1. DipanjanSantra (19/CHE/33), 2. Jishu Banerjee (19/CHE/37), 3. ParthaKar (19/CHE/60), 4. ArghaDolui (19/CHE/13)	Environmen t, cost, ethics	PO1,PO3, PO7,PO8, PO11,PSO2
17	Dr.Radha Das Siddhartha. S. Boxi	Photo degradation of Paracetamol / Heavy Metals in Presence of Semiconductor Nanomaterials	1. Subham Shaw (19/CHE/11), 2. SouvikKarar (19/CHE/103), 3. Avinandan Adak (19/CHE/17), 4. SubhadeepChakraborty (19/CHE/111)	Environmen t, cost safety, ethics	PO1,PO2,PO6,PO7,PO8,PS O2
18	Mrs.SonaliSamanta	Development of biowaste based	Shriparna Das (19/CHE/92), 2. Om Gupta (19/CHE/57),	Environmen t, cost,	PO1,PO3, PO7,PO8,PSO2

		composite material for efficient photocatalyst.	3. SashankTiwari (19/CHE/89), 4. SaswataMondal (19/CHE/80)	safety, ethics	
19	Mrs.SonaliSamanta	Photoactivity improvement of TiO ₂ by doping of transition metal ion, extracted from e-waste.	1. RiyaGuria (19/CHE/73), 2. Mandeep Kumar (19/CHE/43), 3. Akash Das (19/CHE/07), 4. SouvikSutradhar (19/CHE/104)	Environment, cost, safety, ethics	PO1,PO3, PO7,PO8,PSO1, PSO2
20	Dr.BarnaliBej, Dr. Siddhartha S. Boxi	Application of modified graphene oxide for river water purification.	1. Sk Rajesh (20/CHE/136), 2. Dwaipayan Roy (20/CHE/128), 3. KadrunnisaKhatun (19/CHE/39), 4. Mantu Kumar (19/CHE/48)	Environment, cost, ethics	PO1,PO3, PO7, PO8, PSO1,PSO2
21	Dr.BarnaliBej, Dr. Siddhartha S. BoxiMs.KekaRana	Acid hydrolysis of starchy material.	1. AyanMondal (19/CHE/19), 2. DebjaniDhara (19/CHE/26), SubhamPatra (19/CHE/108), 4. Sayantani Jana (19/CHE/87)	Cost, safety, ethics	PO1,PO3, PO8,PSO2
22	Ms.AditiSinha	A study on efficient method for extraction of essential oil from Curcumin	1. SrijanDutta (19/CHE/106), 2. RajibRanjan (19/CHE/71), 3. Saif Ahmad (19/CHE/76), 4. Soubhik Das (19/CHE/102)	cost, ethics	PO1,PO4, PO6,PO8,PSO2
23	Ms.AditiSinhaDr.BiswajitMandal	A study on hydrogen, the clean energy for	1. PritamDutta (19/CHE/64), 2. Rajashree Roy (19/CHE/69), 3. Riya	Environment, cost, safety,	PO1,PO3, PO7, PO8, PSO2,PSO3

		future: Hydrogen storage methods	Manna (19/CHE/74), 4. PritamKonar (20/CHE/132)	ethics	
24	Mrs.TanushreeGhosh	Nutritional and other health promoting components profile analysis of mango leaf extract	1. OishiGoswami (19/CHE/58) 2. PabitraMondal (20/CHE/131), 3. SanmayKarmakar (20/CHE/134), 4. Gouranga Das (20/CHE/129)	cost, ethics	PO1,PO2, PO6, PO8, PSO2,PSO3
25	Mrs.TanushreeGhoshDr. Sunil BaranKuilaDr.ChandanDatta	Development &Charecterizatio n of reinforced polymeric composites.	1. NiladriSekharDebnath (19/CHE/53), 2. AdityaKashyap (19/CHE/05), 3. Kaushal Kumar (40), 4. ShamrazAlam (19/CHE/88)	cost, ethics	PO1,PO3, PO8, PO11,PSO2
26	Dr.Sutapa Roy Dr. Sunil BaranKuila	Synthesis and Charecterization of Polymeric IPN hydrogels.	1. GopalDey(19/CHE/35), 2. AnupamBera (19/CHE/11), 3. AnirbanKundu (19/CHE/08), 4. Ayan Ahmad (19/CHE/18)	Environmen t, cost safety, ethics	PO1,PO4, PO8, PO9,PSO1, PSO2
27	Dr.Sutapa Roy	Extraction of natural bioactive components using effective extraction technique.	1. RijuMondal (B37), 2. Rahul Ghosh (19/CHE/68), 3. SohamSantra (19/CHE/96), 4. SubhajitMaity (19/CHE/107)	Environmen t, cost, ethics	PO1,PO4, PO6,PO8, PO9,PSO2
28	Dr.Asit Kumar Saha	Characteristics of a Portable Oxygen Generator - A case study.	1. UpakothaJash (19/CHE/121), 2. Swarnali Roy (19/CHE/119), 3. DeerghaDibya (19/CHE/29), 4.	Environmen t, cost safety, ethics	PO1,PO2, PO4,PO8, PSO3

			Subhamita Hazra (19/CHE/109)		
29	Dr. Asit Kumar Saha	Freeze Drying of Algal Strains for Carbon Capture.	1. Nirukta (19/CHE/54), 2. Biwesh Kumar (19/CHE/21), 3. Debesh Kumar (19/CHE/30), 4. Md. Kamran Ashraf (19/CHE/51)	Environment, cost safety, ethics	PO1, PO3, PO7, PO8, PSO2, PSO3
30	Ms. Keka Rana	Hydrodynamic study of Couette flow system through CFD	1. Mainuddin Warshi (19/CHE/45), 2. Deepak Kumar Sharma (19/CHE/10), 3. Ankit Ratna (19/CHE/28), 4. Sarvesh Kumar (19/CHE/79)	Ethics	PO1, PO2, PO5, PO8, PSO2, PSO3
31	Ms. Keka Rana	Performance study of Radial flow membrane module	1. Sovan Dey (19/CHE/10), 2. Vikash Kumar (19/CHE/122), 3. Swarnendu Bhattacharya (19/CHE/117), 4. Subhajit Mondal (19/CHE/120)	Cost, ethics	PO1, PO2, PO3, PO8, PSO1, PSO2

Academic Year 2021-22

Sl. No.	Title of the Project	Name of Project Guide	Allotted Students Name & Roll No	Environment, safety, ethics, cost	Alignments with PO's & PSO's
1	Removal of Chromium from Synthetic Wastes using Various Bioadsorbents : A comparison Studies	Dr.Radha Das	Kumar KoustavMajhi (18/CHE/44) Pooja Singh(18/CHE/33) Kumar Sourav(18/CHE/43)	Environment, cost, ethics	PO1,PO2, PO3,PO8, PSO1,PSO2
2	Removal of Chromium from synthetic solutions using Photo Oxidation in presence of semiconductor materials	Dr.Radha Das	RiyaGhosh (18/CHE/27) Md.NazishTaj (18/CHE/40) Mrinmayee Das Bayen (18/CHE/38)	Environment, cost, ethics	PO1,PO2, PO3,PO8, PSO2
3	Studies on the development of novel polymeric membranes for water purification by advanced separation techniques	Guide: Dr.S.B.Kuila Co-Guide: Dr. B. Mandal	SamyabrataBhattacharjee (18/CHE/23) Sumit Kumar Jana(18/CHE/17) SakilMandal(18/CHE/24)	Environment, cost, ethics	PO1,PO3,PO4,PO8, PO11,PSO2
4	Synthesis and Characterization of electro catalyst for	Guide: Dr. B. Mandal Co-Guide: Dr.S.B.Kuila	ArunimaMondal (18/CHE/60) SurbhiKumari(18/CHE/16) AmriteshVerma(18/CHE/69)	Environment, cost, ethics	PO1,PO4, PO8, PO9,PSO1, PSO2

	proton exchange membrane fuel cells and regenerative fuel cells				
5	Studies on the development of various potential polymeric membranes for polymer electrolyte fuel cells	Guide: Dr. B. Mandal Co-Guide: Dr. S. B. Kuila	ShubhamMandal(B 18/CH/74) RajanChoudhary(18/CHE/31) ArijitGuria(18/CHE/61)	Environment, cost, safety, ethics	PO1,PO3,PO4,PO8, PO11,PSO2
6	Synthesis of Nano Silica	Dr.RabindraNath Jana	OishiNandy(18/CHE/34) Anwesha Bose(18/CHE/63) SonaliBhagat(18/CHE/21)	Cost, ethics	PO1, PO4,PO8, PO11,PSO2
7	Functionalization of Carbon Nanotubes	Guide: Dr.RabindraNath Jana Co-Guide: Ms.AditiSinha	Vikash Kumar Mahato (18/CHE/12) SovanSamanta (18/CHE/19) SouravPradhan (18/CHE/20)	Cost, ethics	PO1, PO4,PO8, PO11,PSO2
8	Effect of rise of CO ₂ concentration Vsother parameters on Global Warming-Modeling& Simulation	Dr.Asit K Saha	MitaliKumari (18/CHE/39) Manish Kumar Kasera(18/CHE/41) SohamChowdhury (10300617022)	Environment, cost, safety, ethics	PO1, PO4,PO5,PO7,PO8,PSO2
9	Studies on the pertinent	Prof. T. K. Manna	BiswajitSautya (18/CHE/54) SwarnenduKandar	Environment, cost safety,	PO1, PO3,,PO7,PO8,PSO1,PSO2

	parameters for conversion of waste plastic to fuel oil		(18/CHE/14) Akash Singh (18/CHE/71)	ethics	
10	Synthesis of nano composite catalyst for Waste Water Treatment	Guide: Dr.Lipika Das Samanta Co-Guide: Dr.SomokJoytiSahu	Banasri Das (18/CHE/55) DebapriyaMandal (18/CHE/52) ChayanDakua (18/CHE/53)	Environment, cost, ethics	PO1, PO4,PO8, PO11,PSO2,PSO3
11	Studies of Water Quality Parameters of industrial effluent around Haldia	PI - Dr. S. J Sahu Co I - Dr. L. Das (Sponsored by HIT)	IndronilSarkar (18/CHE/48) Nishant Kumar (18/CHE/35) DebopamGhosh (18/CHE/50)	Environment, cost safety, ethics	PO1,PO3,PO4,PO8, PO11,PSO1, PSO2
12	Studies of Water Quality Index around Haldia Industrial Region	PI - Dr. S. J Sahu Co I - Dr. L. Das (Sponsored by HIT)	Abhishek Kumar (18/CHE/73) Siddhant (18/CHE/22) Kanhaiya Kumar (18/CHE/47)	Environment, cost safety, ethics	PO1,PO3,PO4,PO8, PO11,PSO1, PSO2
13	Synthesis and characterization of cashew nut shell oil (CNSL) by solvent extraction/Super critical Fluid Extraction	PI - Dr. S. J Sahu, Co - I - Dr. S. Roy (Sponsored by IICHe)	AnandSagar (18/CHE/68) Ankita (18/CHE/65) Harsh Ranjan (18/CHE/49)	Cost, ethics	PO1,PO4,PO8, PO11,PSO2
14	Extraction of silica from agricultural waste	Guide: Ms.AditiSinha Co-Guide: Dr. Rabindranath Jana	Ashish Kumar Shaw (18/CHE/059) DebdyutiGoswami (18/CHE/051)	Environment, cost, ethics	PO1,PO4,PO8, PO11,PSO2

			AniketMaity (18/CHE/67)		
15	Use of heterogeneous nanocatalyst for the production of biodiesel from sewage sludge	Dr. Siddhartha SankarBoxi	SurajRana (L19/CHE/80) SmritiMandal (L19/CHE/76) SmritikanaPhadikar (L19/CHE/77) Soumen Pal (L19/CHE/78)	Environment, cost, safety, ethics	PO1,PO7, PO8, PO11,PSO2,PSO3
16	Treatment of Laundry Wastewater with the help of Low Cost Adsorbent.	Dr.Sutapa Roy	AmarnathSen (18/CHE/70) Vishesh Kumar (18/CHE/11) RaghvendraGautam (18/CHE/32)	Environment, cost, ethics	PO3, PO3,PO7,PO8, PSO1,PSO2
17	Acid hydrolysis of starchy raw materials	Guide: Ms.KekaRana Co. Guide: Dr. S. S. Boxi&Dr.BarnaliBej.	NilarghyaKundu (18/CHE/36) AnupamGhosh (18\CHE\064) RishavSaha (18/CHE/029)	cost, ethics	PO1,PO3, PO8,PSO2
18	Synthesis of Graphene oxide and its application for purification of water	Guide: B. Bejand Dr. S. S. Boxi	SwetaGayen(18/CHE/13) RudrashisBiswas (18/CHE/25) RounakGhosh (18/CHE/26)	Environment, cost, ethics	PO1,PO3, PO4,PO7, PO8, PSO1,PSO2
19	High purity oxygen production by pressure swing adsorption process	Guide: Mrs.SonaliSamanta Co-Guide: Dr.A.K.Saha	KhalilurRahamanDewan (18/CHE/45) Malay Patra (18/CHE/42) AvijitDey (18/CHE/57)	Environment, cost, safety, ethics	PO1,PO3, PO7, PO8, PSO1,PSO2
20	Development of low cost bio	Guide: Mrs.SonaliSamanta	Subhrajyoti Das (18/CHE/18) SwagataAdhikary	Environment, cost, ethics	PO1,PO3, PO8, PSO2,PSO3

	based polymeric material for wood substitute	Co-Guide: Dr. S. B.Kuila and Dr.C.Dutta	(18/CHE/15) Kankan Bose (18/CHE/46)		
21	Development of light weight and high strength substitute for advance application	Guide: Ms.K.Rana Co-Guide: Dr. S. B.Kuila and Dr.C.Dutta	Afrin Hossain (18/CHE/72) Nikita Giri (18/CHE/37) Anweshasinha (17/CHE/59)	cost, ethics	PO1,PO3, PO8, PSO1,PSO2
22	Essential oil Extraction from Plant Materials	Dr.Sutapa Roy	BadhanBasak (18/CHE/56) AnkanMondal (18/CHE/66) Rankit Kumar Biswas (18/CHE/30)	cost, safety, ethics	PO1,PO4, PO6,PO8,PSO2
23	Visible Light Photo degradation of Paracetamol in Presence of Semiconductor Nanomaterials	Dr. Siddhartha SankarBoxi	AqibNazar (18/CHE/62) Ashutosh Kumar (18/CHE/58) RituRanjan Kumar (18/CHE/28)	Environment, cost, safety, ethics	PO3, PO4,PO7,PO8, PO11,PSO2