

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 Koustav Majhi (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	Riya Ghosh (18/CHE/27) Md.Nazish Taj (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	Samyabrata Bhattacharjee (18/CHE/23) Sumit Kumar Jana(18/CHE/17) Sakil Mandal(18/CHE/24)	Environment, cost, ethics	PO1,PO3,PO4,PO8, PO11,PSO2

4	Synthesis and Characterization of electro catalyst for proton exchange membrane fuel cells and regenerative fuel cells	Guide: Dr. B. Mandal Co-Guide: Dr. S.B.Kuila	Arunima Mondal (18/CHE/60) Surbhi Kumari(18/CHE/16) Amritesh Verma(18/CHE/69)	Environment, cost, ethics	PO1,PO4, PO8, PO9,PSO1, PSO2
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	Shubham Mandal(B 18/CH/74) Rajan Choudhary(18/CHE/31) Arijit Guria(18/CHE/61)	Environment, cost, safety, ethics	PO1,PO3,PO4,PO8, PO11,PSO2
6	Synthesis of Nano Silica	Dr. Rabindra Nath Jana	Oishi Nandy(18/CHE/34) Anwasha Bose(18/CHE/63) Sonali Bhagat(18/CHE/21)	Cost, ethics	PO1, PO4,PO8, PO11,PSO2
7	Functionalization of Carbon Nanotubes	Guide: Dr. Rabindra Nath Jana Co-Guide: Ms. Aditi Sinha	Vikash Kumar Mahato (18/CHE/12) Sovan Samanta (18/CHE/19) Sourav Pradhan (18/CHE/20)	Cost, ethics	PO1, PO4,PO8, PO11,PSO2
8	Effect of rise of CO ₂ concentration Vs	Dr. Asit K Saha	Mitali Kumari (18/CHE/39) Manish Kumar Kasera	Environment, cost, safety, ethics	PO1, PO4,PO5,PO7,PO8,PSO2

	other parameters on Global Warming-Modeling & Simulation		(18/CHE/41) Soham Chowdhury (10300617022)		
9	Studies on the pertinent parameters for conversion of waste plastic to fuel oil	Prof. T. K. Manna	Biswajit Sautya (18/CHE/54) Swarnendu Kandar (18/CHE/14) Akash Singh (18/CHE/71)	Environment, cost safety, ethics	PO1, PO3,,PO7,PO8,PSO1,PSO2
10	Synthesis of nano composite catalyst for Waste Water Treatment	Guide: Dr. Lipika Das Samanta Co-Guide: Dr. Somok Joyti Sahu	Banasri Das (18/CHE/55) Debapriya Mandal (18/CHE/52) Chayan Dakua (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)	Indronil Sarkar (18/CHE/48) Nishant Kumar (18/CHE/35) Debopam Ghosh (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	PI - Dr. S. J Sahu, Co - I - Dr. S.	Anand Sagar (18/CHE/68) Ankita (18/CHE/65)	Cost, ethics	PO1,PO4,PO8, PO11,PSO2

	shell oil (CNSL) by solvent extraction/Super critical Fluid Extraction	Roy (Sponsored by IChE)	Harsh Ranjan (18/CHE/49)		
14	Extraction of silica from agricultural waste	Guide: Ms. Aditi Sinha Co-Guide: Dr. Rabindranath Jana	Ashish Kumar Shaw (18/CHE/059) Debdyuti Goswami (18/CHE/051) Aniket Maity (18/CHE/67)	Environment, cost, ethics	PO1,PO4,PO8, PO11,PSO2
15	Use of heterogeneous nanocatalyst for the production of biodiesel from sewage sludge	Dr. Siddhartha Sankar Boxi	Suraj Rana (L19/CHE/80) Smriti Mandal (L19/CHE/76) Smritikana Phadikar (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	Amarnath Sen (18/CHE/70) Vishesh Kumar (18/CHE/11) Raghvendra Gautam (18/CHE/32)	Environment, cost, ethics	PO3, PO3,PO7,PO8, PSO1,PSO2
17	Acid hydrolysis of starchy raw materials	Guide: Ms. Keka Rana Co. Guide: Dr. S. S. Boxi & Dr. Barnali Bej.	Nilarghya Kundu (18/CHE/36) Anupam Ghosh (18\CHE\064) Rishav Saha (18/CHE/029)	cost, ethics	PO1,PO3, PO8,PSO2
18	Synthesis of	Guide: B. Bej	Sweta Gayen	Environment,	PO1,PO3, PO4,PO7, PO8,

	Graphene oxide and its application for purification of water	and Dr. S. S. Boxi	(18/CHE/13) Rudrashis Biswas (18/CHE/25) Rounak Ghosh (18/CHE/26)	cost, ethics	PSO1,PSO2
19	High purity oxygen production by pressure swing adsorption process	Guide: Mrs. Sonali Samanta Co-Guide: Dr. A.K.Saha	Khalilur Rahaman Dewan (18/CHE/45) Malay Patra (18/CHE/42) Avijit Dey (18/CHE/57)	Environment, cost, safety, ethics	PO1,PO3, PO7, PO8, PSO1,PSO2
20	Development of low cost bio based polymeric material for wood substitute	Guide: Mrs. Sonali Samanta Co-Guide: Dr. S. B.Kuila and Dr. C.Dutta	Subhrajyoti Das (18/CHE/18) Swagata Adhikary (18/CHE/15) Kankan Bose (18/CHE/46)	Environment, cost, ethics	PO1,PO3, PO8, PSO2,PSO3
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) Anwasha Sinha (17/CHE/59)	cost, ethics	PO1,PO3, PO8, PSO1,PSO2
22	Essential oil Extraction from Plant Materials	Dr. Sutapa Roy	Badhan Basak (18/CHE/56) Ankan Mondal (18/CHE/66) Rankit Kumar Biswas (18/CHE/30)	cost, safety, ethics	PO1,PO4, PO6,PO8,PSO2
23	Visible Light Photo degradation of	Dr. Siddhartha Sankar Boxi	Aqib Nazar (18/CHE/62) Ashutosh Kumar	Environment, cost, safety,	PO3, PO4,PO7,PO8, PO11,PSO2

	Paracetamol in Presence of Semiconductor Nanomaterials		(18/CHE/58) Ritu Ranjan Kumar (18/CHE/28)	ethics	
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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 (19/CHE/15)	Cost, Ethics	PO1,PO3,PO7, PO8, PO11,PSO2
4	Dr. Sunil BaranKuilaDr.BiswajitMandalDr.ChandanDatta	Development &Charecterization of Polymeric Conducting Hydrogels	1. RipaSutar (19/CHE/123), 2. PoulamiMajumder (19/CHE/61), 3. AnuragJha (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	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

		Nanomaterials			
10	Dr.Lipika Das Dr.BiswajitMandal	Developing dye-sensitized solar cells based on anatase titanium di-oxide by using naturally occurring dyes as sensitizers.	1. Mrityunjoy 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.SomakJyotiSahu	Synthesize of nano catalyst from waste materials	1. SoumyadipHati (19/CHE/98), 2. SoumikMitra (19/CHE/99), 3. SounakBiswas (19/CHE/100), 4. SourinBhowmik (19/CHE/101)	Environment, cost safety, ethics	PO1, PO4, PO8, PO11, PSO2
12	Dr.SomakJyotiSahu 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. KiranKumari (19/CHE/41), 3. ArfaAlam Khan (19/CHE/01), 4. KrishnenduGhosh (19/CHE/42)	Cost, ethics	PO1, PO4, PO8, PO11, PSO2
13	Dr.SomakJyotiSahu Dr.Lipika Das	Studies of Water Quality Index around Haldia Industrial Region	1. SayakKundu (19/CHE/85), 2. SarthakChakraborty (19/CHE/78), 3. Sk Sultan Ahmed (19/CHE/95), 4. SougataMondal (19/CHE/97)	Environment, cost, safety, ethics	PO1, PO3, PO4, PO8, PO11, PSO1, PSO2
14	Dr.SomakJyotiSahu Dr.Lipika Das	Synthesis of	1. Sananda Das	Cost, safety,	PO1, PO3, PO4, PO8,

		nano- composite for Phenol removal	(19/CHE/77), 2. SattamDalui (19/CHE/81), 3. Saurya Raj (19/CHE/84), 4. Sunny Agarwal (19/CHE/114)	ethics	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)	Environment, 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)	Environment, cost, ethics	PO1,PO3, PO7,PO8, PO11,PSO2
17	Dr.Radha Das Siddhartha. S. Boxi	Dr. Photo degradation of Paracetamol / Heavy Metals in Presence of Semiconductor Nanomaterials	1. Subham Shaw (19/CHE/11), 2. SouvikKarar (19/CHE/103), Avinandan Adak (19/CHE/17), 4. SubhadeepChakraborty (19/CHE/111)	Environment, cost safety, ethics	PO1,PO2,PO6,PO7,PO8,PSO2
18	Mrs.SonaliSamanta	Development of biowaste based composite material for efficient photocatalyst.	Shriparna Das (19/CHE/92), 2. Om Gupta (19/CHE/57), 3. SashankTiwari (19/CHE/89), 4. SaswataMondal (19/CHE/80)	Environment, cost, safety, ethics	PO1,PO3, PO7,PO8,PSO2
19	Mrs.SonaliSamanta	Photoactivity improvement of	1. RiyaGuria (19/CHE/73), 2. Mandeep Kumar	Environment, cost,	PO1,PO3, PO7,PO8,PSO1, PSO2

		TiO ₂ by doping of transition metal ion, extracted from e-waste.	(19/CHE/43), 3. Akash Das (19/CHE/07), SouvikSutradhar (19/CHE/104) 4.	safety, ethics	
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), KadrunnisaKhatun (19/CHE/39), 4. Mantu Kumar (19/CHE/48) 3.	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) 2.	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) 2.	cost, ethics	PO1,PO4, PO6,PO8,PSO2
23	Ms.AditiSinhaDr.BiswajitMandal	A study on hydrogen, the clean energy for future: Hydrogen storage methods	1. PritamDutta (19/CHE/64), 2. Rajashree Roy (19/CHE/69), 3. Riya Manna (19/CHE/74), 4. PritamKonar (20/CHE/132) 2.	Environment, cost, safety, ethics	PO1,PO3, PO7, PO8, PSO2,PSO3
24	Mrs.TanushreeGhosh	Nutritional and other health promoting components	1. OishiGoswami (19/CHE/58) 2. PabitraMondal (20/CHE/131), 3.	cost, ethics	PO1,PO2, PO6, PO8, PSO2,PSO3

		profile analysis of mango leaf extract	SanmayKarmakar (20/CHE/134), 4. Gouranga Das (20/CHE/129)		
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 Oxigen Generator - A case study.	1. UpakothaJash (19/CHE/121), 2. Swarnali Roy (19/CHE/119), 3. DeerghaDibya (19/CHE/29), 4. SubhamitaHazra (19/CHE/109)	Environmen t, cost safety, ethics	PO1,PO2, PO4,PO8, PSO3
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.	Environmen t, cost safety, ethics	PO1,PO3, PO7,PO8, PSO2,PSO3

			Kamran Ashraf (19/CHE/51)		
30	Ms.KekaRana	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.KekaRana	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 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	Amit Das(20/CHE/10), Anish Kumar(20/CHE/13), Gourab Kumar(20/CHE/44),	Cost, Ethics	PO1,PO3,PO4,PO8, PO11,PSO2

		uses.			
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 Metals from Synthetic Wastes using Bio-Adsorbents : A Green Approach	Suman Kumar Patra(20/CHE/116), SubhankarPramanik(20/CHE/113),	Environment, Cost, ethics	PO1,PO4,PO7, PO11,PSO2

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 for hydrogen fuel cell.	KajalPoddar(20/CHE/46), MukutAnand(20/CHE/56), Amar Kumar(20/CHE/07), Chandan Kumar Gupta(20/CHE/37)	Environment, cost, safety, ethics	PO1,PO3,PO4,PO8, PO11,PSO1, PSO2
14	Guide: Dr.SumanSaha Co-Guide : Dr.Anora	Recovery of Value-added Compounds	PranjaliJha(20/CHE/63), SubhadipNaskar(20/CHE/94),	Environment, cost, ethics	PO1,PO3,PO4,PO8, PO11,PSO2

	Ali Khan	from Agricultural Sources: Experimentation and Theoretical Analysis.	SomnathMukharjee(20/CHE/97)		
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 - Dr.SomakJyotiSahu, Co - I - Dr.Sutapa Roy	Studies on Agro based biomass up gradation as energy source	SayanHalder(20/CHE/85), RukminiGhosh(20/CHE/76), SekharGourabBhagat(20/CHE/91), Somroy(20/CHE/96)	Environment, cost, safety, ethics	PO1,PO3, PO6,PO7,PO8,PSO2
19	PI -	"Studies of Water	Rahul Roy(20/CHE/67),	Environment, cost, safety,	PO1,PO3,PO4,PO8,

	Dr.SomakJyotiSahu Co I - Dr.Lipika Das	Quality Index around Haldia	Rakesh Jana(20/CHE/70), SubhajitMaity(20/CHE/110)	ethics	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 Application.	AbhiroopSahoo(20/CHE/04), Akash Chand(20/CHE/5)	Environment, cost, safety, ethics	PO1,PO3, PO7, PO8, PSO2,PSO3
24	Guide: SonaliSamanta Co-Guide: A. K. Saha	Development of Waste Supported TiO ₂ for	SougataKhatua(20/CHE/98), Sunil Kumar Chouhan(20/CHE/118), Bikash	cost, ethics	PO1,PO3, PO7, PO8, PSO2,PSO3

		Photocatalytic Application.	Kumar(20/CHE/126)		
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 &Dr.Lipika Das	Nutritional profile evaluation from natural dry leaves	Trpti Singh(20/CHE/124), BabusonaDolui(L21/CHE/130), Nilaj Kumar Pradhan(L21-CHE/134)	Cost, ethics	PO1,PO2, PO6, PO8, PSO2,PSO3
29	PI: Lipika Das Co-PI:	Developing dye-sensitized solar cells based on anatase	ArishaMondal(20/CHE/23), SayanPusti(20/CHE/86),	Environment, cost, ethics	PO1,PO3, PO7,PO8, PSO2,PSO3

	Dr.BiswajitMandal	titanium di-oxide by using naturally occurring dyes as sensitizers.	SubhajitSaha(20/CHE/109)		
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 resources	Arnab Kumar Mondal(20/Che/25), NeeladriSekharBera(20/CHE/57), AyanMaity(20/CHE/32)	Environment, cost, ethics	PO1,PO2, PO3,PO7, PO8, PSO1,PSO2
33	PI: Dr.BarnaliBej , Co PI : Dr. Siddhartha	Application of steam activated biochar for river water	AnishMondal(L21/CHE/128), AyanikaChatterjee(20/CHE/33)	Environment, cost, ethics	PO1,PO3, PO7, PO8, PSO1,PSO2

	SankarBoxi	purification.), KoushikGhosh(20/CHE/49)		
34	PI: Dr.BarnaliBej , Co PI : Dr. Siddhartha SankarBoxi	Production of biodiesel from waste cooking oil using novel indigenous nanocatalyst.	SayantanaGhosal)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/10 1), 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	SayantakMaity(20/CHE/121), Pratham Gupta(20/CHE/64), SanjuktaSaha(20/CHE/81)	Ethics	PO1,PO2, PO5,PO8, PSO2,PSO3

		membrane module using computational fluid dynamics approach.			
39	PI: Prof. Sunil B. Kuila CO-I: Dr. Biswajit Mandal & Dr. Chandan Datta	Synthesis & Characterization of re-inforced Polymeric IPN Hydrogels.	Abhirup Das(20/CHE/29), Debshilpi Patra(20/CHE/41), Sayam Majhi(20/CHE/90),	Environment, cost safety, ethics	PO1, PO4, PO8, PO9, PSO1, PSO2