

SSN COLLEGE OF ENGINEERING
DEPARTMENT OF CHEMICAL ENGINEERING
Student Internal Fund Sanctioned Details (Academic Year: 2011-2012)

Final Year Students			21.10.2011	
S.No	Name of the Students	Faculty in-charge	Title of the project	Amount Sanctioned in Rs
1	M. Saravanan M. Rajkumar A. Karthik	Dr.K.Sathish Kumar	Power generation from biomass by gasification (working model)	20000
2	R. Kameshwari V.M. Senthil	Dr.P.Senthil Kumar	Removal of inorganic contaminants from wastewater using natural coagulant extracted from Moringa oil cake	30000
3	Aswin Krishnan Pranav Rai	Dr.D.Gnana Prakash	Polyvinayl alcohol sulfo succinic acid membrane and its hybrid for fuel cells	30000

SSN COLLEGE OF ENGINEERING
DEPARTMENT OF CHEMICAL ENGINEERING
Student Internal Fund Sanctioned Details (Academic Year: 2010-2011)

Final Year Students (Batch: 2007-2011) Chellammal Project

18.10.2010

S.No	Name of the Students	Faculty in-charge	Title of the project	Amount Sanctioned in Rs
1	Ms.Abhinaya Ms. Gayatri Lakshmi Ms.V.Arthi	Dr.P.Senthil Kumar	Removal of dyes from Industrial Waste using Agricultural Waste: Cashew Nut Sheel	Rs. 25000

SSN COLLEGE OF ENGINEERING
DEPARTMENT OF CHEMICAL ENGINEERING
Student Internal Fund Sanctioned Details (Academic Year: 2012-2013)

Final Year Students

19.10.2012

S.No	Name of the Students	Faculty in-charge	Title of the project	Amount Sanctioned in Rs
1	S. Amrutha V. Anusha Nithya Thangathurai	Dr.K.Ramakrishnan	Microwave assisted extraction of a biopesticide (azadirachtin) from neem seeds using hydrotropes	20000
2	Sangita Gayatri Shahul Hameed Sindhuja	Dr. K. Sathish Kumar	Removal of metal ions from wastewater using surface modified agricultural waste: Column study	25000
3	J. Pavithra M. Ramesh S. Suriya	Dr.D. Gnana Prakash	Production of bio-diesel from marine algae	25000

SSN COLLEGE OF ENGINEERING
DEPARTMENT OF CHEMICAL ENGINEERING
Student Internal Fund Sanctioned Details (Academic Year: 2013-2014)

Third Year Students (Batch:2011-2015)

11-11-2013

S.No	Name of the Students	Faculty in-charge	Title of the project	Amount Sanctioned in Rs
1	Sankaranarayanan A.R Vignesh P R	Dr.K.Ramakrishnan	Recovery of Terephthalic acid from polyethylene terephthalate (PET) waste and application of recovered Terephthalic acid	25000
2	Abishek S Karthik M	Mr.A.Seenivasan .	Microbial production of pigments and its applications	20000
3	Pritham Y. A Sai Madhusudanan Pradeep Panner Selvam	Dr.K.Sathish Kumar	Multi Walled carbon nanotubes for desalination: Performance evaluation and comparative studies	24000
4	Priyadharshini B Gayatri R	Mrs.R.Pushpalatha	Preparation, Characterizaion and Optimization of cadmium sulphide nanomaterials	25000

5	Namratha N Monica P V	Dr.P.Senthil Kumar	Complete removal of phenols from the waste water using a new three phase three - dimensional electrochemical reactor: Optimization of process parameters	25000
6	Nandhini V Suchithra B	Dr.R. Saravanathamizhan Dr.D.Gnana Prakash	Sonoelectrochemical degradation of textile Dye effluent	25000
7	Bharath Kumar I Eswar Subramanian R	Dr.K.P.Gopinath	A Feasibility study for the generation of Biogas from food wastes by Anaerobic Digestion	14000
8	Preethi R Sharmila S Bhavana G L	Dr.P.Senthil Kumar	Degradation pathway of methylene blue dye in a novel dual - tank photochemical catalytic reactor	25000
IV Year Students(Batch: 2010-2014)				
S.No	Name of the Students	Faculty in-charge	Title of the project	
1	Sai Deepthi A S L Bharani R	Dr.P.Senthil Kumar	Multistage adsorber design for the treatment of lead and copper ions from the waste water	25000

SSN COLLEGE OF ENGINEERING
DEPARTMENT OF CHEMICAL ENGINEERING
Student Internal Fund received Details (Academic Year: 2014-2015)
Third Year and Final year students

05.11.2014

S.No	Name of the Students	Faculty in-charge	Title of the project	Amount Sanctioned in Rs
1	R. Sundaram Bhardwaj Koushik B	Dr.P.Senthil Kumar Dr.K. Sathish Kumar	Detoxification of heavy metal contaminated wastewater using Nano-zero valent iron (Fe ⁰) particles: Experimental optimization	20000
2	R.Ayyappan R.Jyotsna Malavikha Rajiv Morrthy Neeha Dev	Dr.K.P. Gopinath	Study on production of bioethanol from grass biomass waste generated at SSN Campus	20000
3	Pranav S Vignesh B	Dr.K. Sathish Kumar	Anti-corrosive coating prepared from waste PET bottles to inhibit the corrosive effects of water	20000
4	T. Pradeep Kumar	Dr.A. Seenivasan	Studies on microbial fuel cells	20000

5	S. Karthik M. Srivatsan	Dr.K.P. Gopinath	Design and fabrication of home solar desalination unit for the production of cheap potable water	20000
6	V. Hari arn S.M. Mubashera S. Nijanathan	Dr.K.P. Gopinath	Production of polyhydroxyalkanoates (PHA Biopolymer) Nano-mat from wastewater sludge	20000
7	T.V. Harsih Kumar J. Shiva Subramaian B. Rahul Palsingh	Dr.P.Senthil Kumar	Recycling of waste polyethylene bottles into liquid fuels in a novel packed bed reactor	20000
8	C. Niveda A. Anusuya A.V.R. Sunithra	Dr.R. Saravanathamizhan Dr.D. Gnana Prakash	Preparation of Mn-Zn ferrite nanomaterial from spent zinc carbon battery using ultrasonication	20000
9	Sengavi T Ritu Zaheer Ahamed	Dr.P.Senthil Kumar	A newly designed microbial fuel cell (MFC) for power generation from the sources of different waste	20000
10	V. Abhinaya M. Chevandhi M. Mathi Vathani	Dr.D. Gnana Prakash	Biosynthesis of silver nanoparticles and its application as catalyst	20000
11	C. Sankkar K. Sri Surya	Dr.A. Seenivasan	Studies on drug delivery carriers for	20000

	M. Sharmila Priya		poorly water soluble drugs	
12	R. Gokul R. Vignesh	Dr.K.P. Gopinath	Solvent extraction of oil from algae/oilseeds using solar concentration	20000

SSN COLLEGE OF ENGINEERING
DEPARTMENT OF CHEMICAL ENGINEERING
Student Internal Fund received Details (Academic Year: 2014-2015)
Third Year and Final year students

05.11.2014

S.No	Name of the Students	Faculty in-charge	Title of the project	Amount Sanctioned in Rs
1	K.Subhashini PV Tejaswini V. Varshini	Dr.C. Ravikumar	Design and Development of Biomass Pyrolyzer with combined Hydrotreatment for Production of Hydrocarbon fuel oils	25000

SSN COLLEGE OF ENGINEERING
DEPARTMENT OF CHEMICAL ENGINEERING
Student Internal Fund received Details (Academic Year: 2015-2016)
UG - II, III, IV Year students and PG II Year Students

S.No	Name of the Students	Faculty in-charge	Title of the project	Amount Sanctioned in Rs
1	M. Sharmada S. Sri Sai Janani Varsha Nathan (III Year)	Dr. B. Ambedkar	Feasibilities of using novel technology in reducing CO ₂ capture energy demand	25000
2	R. Mugilan B. Manjupriya (III Year)	Dr. P. Senthil Kumar	Sequestration of CO ₂ from atmospheric air using ultrasonic assisted ammonized agricultural waste in a lab scale packed bed column	25000
3	K.R. Rohit Narayanan S. Siddarth R. Pavan Kumar (III Year)	Dr. K. Sathish Kumar	Novel method for the synthesis of MgO/TiO ₂ nanocomposite and its application in dye degradation and arsenic ion removal	22000
4	R. Abhiguru N. Pavithra (II Year)	Dr. D. Gnana Prakash	A feasibility study on oil spill clean-up and retrieval of crude oil	22000
5	G. Ravikanth R. Ravi Raghul Peryanaya A Franklin (III Year)	Dr. Anantharaj Ramalingam	Extraction of reactive orange 107 from aqueous stream using green solvent: experiment and quantum chemical predictions	20000

6	Akshay Thyagarajan Shiv Rekhi K.N. Vaibhav (II Year)	Dr. P. Senthil Kumar	Constructed wetlands for sewage treatment at ssn campus	18000
7	S. Suraj V. Lokesh (III Year)	Dr. K. P. Gopinath	Utilization of partially treated domestic sewage for green forage production in hydroponics system	22000
8	Abishek S Narayanan Abhishek Dutta (IV Year)	Dr. P. Senthil Kumar	Comparative study and low cost treatment technology (DHS) for polluted adayar river, chennai	25000
9	S. J. Shreekanth Sahana M. S. Raghavi (III Year)	Dr. Gopinath Dr. D. Gnana Prakash	Hydrothermal catalytic liquefaction of lignocellulosic biomass waste to produce bio-oil: a concept of bio refinery	22000
10	G. Arputha (III Year)	Dr. K. Ramakrishnan	Waste plastic oils to produce petrol and diesel blends	22000
11	S. Prasanna Venkatesh B. Sudhan V. Vishal (II Year)	Dr. P. Senthil Kumar	Environmental exposure to biophenol-a and finding a substitute to reduce toxicity in plastic materials	22000

12	Badri Narayan R. Goutham B. Srikanth (II Year)	Dr. K. P. Gopinath	Comparison of sonophotocatalytic degradation of carofuran using molybdenum disulphide and calcium (II) hydroxide as photocatalysts	20000
13	S. Afal Habeeb G.S. Aravind P.T. Mohan Kumar (III Year)	Dr. D. Balaji	Photocatalytic degradation of acid blue 113 using doped zinc oxide (ZnO) nanoparticles	22000
14	B. Arun Krishna U. Avinash (II Year)	Dr. K. P. Gopinath	Fermentative production of succinic acid ;and levulinic acid from ligno-cellulosic biomass waste	22000

PG - II Year Students

1	C. Femina Carolin T. Thenmozhi (II Year)	Dr. D. Gnana Prakash Dr. Gopinath	Analysis of bioenergy potential of microalgae grown in wastewater using bubble column photobioreactor	25000
2	A. Abinaya (II Year)	Dr. K. Sathish Kumar	Treatment of congo red dye wastewater using modified multiwalled carbon nanotubes	13000

3	P. Sundar Rajan (II Year)	Dr. K. P. Gopinath	Production of algal biomass by treating domestic wastewater in hybrid loop airlift photobioreactor (HLALPBR)	25000
4	Judith Emlliah Christy (II Year)	Dr. B. Ambedkar Dr. Anantharaj Ramalingam	Experimental investigation on natural coagulant for the treatment of turbid water	22000
5	Josephin Alex (II Year)	Dr. B. Ambedkar Dr. J. Dhanalakshmi	Feasibilities of using rice hush ash as supplementary cementitious material: experiments and modeling	22000
6	K. Anusha (II Year)	Dr. K. Sathish Kumar	Experimental investigation on the propertiers of concrete using silica and titania nano particles	18000

SSN COLLEGE OF ENGINEERING
DEPARTMENT OF CHEMICAL ENGINEERING
Student Internal Fund received Details (Academic Year: 2016-2017)
UG - II, III and IV Year students

S.No	Name of the Students	Faculty in-charge	Title of the project	Amount Sanctioned in Rs
1	Sainiwetha Saikrishnan (III-Year) N. Solai (III-Year)	Dr. R. Parthiban Ms. B. Chitra	Novel method for the synthesis of silver nanocoolant and its application on heat removal in personal computer	25,000
2	M. Amruth Varshinee (III-Year) P. Hema (III-Year)	Dr. D. Gnana Prakash Mr. C. Balaji	Growth of Zinc oxide nanostructures using nano sphere lithography for photovoltaic applications	25,000
3	S. Abinaya (III-Year) K.B. Saravana Priya (III-Year) Shriya Sankara Subramanian (III-Year)	Dr. D. Gnana Prakash	Biodegradation of petroleum oil sludge using microbial consortium	22,000
4	R. Muruganandh (III-Year) M. Prasanth (III-Year) A. Ram Prasanth (III-Year)	Dr. D. Balaji	Lactic acid production from papersludge by simultaneous saccharification and fermentation Rhizopus sp.	22,000

5	Prithvinath P. Kamath (II-Year) V. Priyadarshini (II-Year) P. Varshini (II-Year)	Dr. K. P. Gopinath	Synthesis of organic multi-purpose cleaning solution	22,000
6	B. Babu (III-Year) T. Lionell Sibi (III-Year) N.T. Manohar (III-Year)	Dr. K. P. Gopinath Dr. N. Nallusamy	Solar Reactor	25,000
7	V. Samynaathan (II-Year) R. Sangeetha Iyer (II-Year)	Dr. K. Sathish Kumar Dr. Siluvai Michael	Synthesis of nanostructured activated carbon from lignocellulosic waste for electric double layer capacitor	22,000
8	B. Neeraja (III-Year) Shriya Kumar (III-Year)	Dr. K. Sathish Kumar	Study on photodegradation of Methylene blue dye using Dysprosium oxide/ Bismuth oxide photocatalyst	18,000

9	D. Naveen Krishna (III-Year) K. Surya Prakash (III-Year)	Dr. N. P. Rajesh Dr. R. Parthiban	Investigations on preparation and characterization of lead based piezoelectric ceramics for sensor applications	25,000
10	Nivetha Thyagarajan (II-Year) R. Racchana (II-Year)	Dr. D. Gnana Prakash Dr. P. Balaji Bhargav	Synthesis and characterization of Silver nanowires for TCE application in Silicon Thin Film Solar Cells	25,000
11	B. Shivani (III-Year) J. Shanmukapriya (III-Year)	Dr. D. Gnana Prakash	Bio-remediation of pharmaceutical waste water by microbial consortium	22,000
12	K. Lavanya (III-Year) V. Preetha (III-Year) Sharon Malusha Wilson (III-Year)	Dr. D. Balaji	Fermentative production of itaconic acid by USTILAGO MAYDIS from biomass waste raw material	22,000
13	Manasa Sadhasivan (II-Year) N. Mayuri (II-Year)	Dr. K. P. Gopinath	Microbial production of vanillin from ferulic acid	23,000
14	R. Ananya (III-Year) Akshaya S Nair (III-Year)	Dr. K. P. Gopinath Dr. P. Senthil Kumar	Waste water treatment by adsorption using cotton seeds and hydrothermal catalytic liquefaction of spent adsorbent	25,000

15	Keshav V Kumar (III-Year) C.G. Vignesh (III-Year) R. Kishore Kumar (III-Year)	Dr. P. Senthil Kumar	Purification Treatment of dyes wastewater with a novel microelectrolysis reactor	25,000
16	V. Neelasaraswathi (III-Year) M.A. Ramya (III-Year)	Dr. B. Ambedkar	Ultrasound Assisted Coal Dealkalization	22,000
17	S. Athreya (IV-Year) K. Anthony Arvind (IV-Year) G. Sudharsan (II-Year)	Dr. K. Jagannathan	Kinetics and optimization of the biodegradation of mixture of Azo dyes using continuous packed bed biofilm reactor	22,000
18	C. Harish (II-Year) A. Adithya Joseph (II-Year) Anirudh (II-Year) N. Shruthi (II-Year)	Dr. P. Senthil Kumar	Carbon capture using solid adsorbent zeolite 5A and efficient disposal of captured carbon dioxide	25,000
19	Kasi Muthu (III-Year) G. Parasuraman (III-Year)	Dr. V. Jaikumar	Polyhydroxyalkanoates (PHAs) production from dairy waste's by mixed microbial culture.	22,000

SSN COLLEGE OF ENGINEERING
DEPARTMENT OF CHEMICAL ENGINEERING
Student Internal Fund received Details (Academic Year: 2017-2018)
UG - II, III, IV Year and PG - I Year Students

S.No	Name of the Students	Faculty in-charge	Title of the project	Amount Sanctioned in Rs
1	S. Dikshita (IV Year) R. Lincy Jeniffer (IV Year) S. Nithyaganesh (IV Year)	Dr. R. Anantharaj	Green synthesis of butyl acetate using ionic liquids	25000
2	R. Ajay Krishna (III Year) S. Sowmya (III Year) K. Anshuman (III Year)	Dr. D. Gnana Prakash	Microbial degradation of endocrine disrupting compounds present in aqueous environment	22000
3	H. Dawood Ansari (III Year) S. Abinaya (III Year)	Dr. D. Balaji	Assessment of anti-microbial efficacy of neem oil for potential application in cutting fluids	22000
4	A.L. Alaguabirami (II Year) R. Abhaiguru (IV Year) U. Avinash (IV Year)	Dr. D. Gnana Prakash	Synthesis of sorbents for oil spill clean up and retrieval using shock waves	25000
5	G. Siddharth (III Year) G. Rakshana (III Year)	Dr. V. Jaikumar	Synthesis of polyhydroxybutyrate (PHB) nanoparticles by microbial culture of dairy waste for	22000

	G. Shanmugapriya (III Year)		encapsulation of drugs	
6	M. Danish John Paul (III Year) J. Aalan Britto (III Year) A. Jeeva Kumar (III Year)	Dr. V. Jaikumar	Bio-Plastics from waste paper	22000
7	T. Ganesh Raj (IV Year) M. Mohamed Ismail Salman (IV Year) N. Mowleeshwaran (IV Year)	Dr. R. Anantharaj	Removal of selective dyes using ionic liquids at 1 Atm	25000
8	R. Kaushik E. Reon Mathew M.K. Shriram	Dr. D. Gnana Prakash Dr. P. Balaji Bhargav (SSN RC)	Development of CZTS thin films as an absorber layer in Kesterite solar cells	25000
9	V. Ghanesh Kesav (II Year) Anirudh Madhavan (II Year) Harshetha Narayan (II Year)	Dr. D. Gnana Prakash Dr. M. Senthil Pandian (SSN RC)	Single and double layer structured nanocrystalline TiO ₂ composites as high performance photoanodes for dye sensitized solar cells	25000
10	N. Logesh (III Year) S. Saravanan (III Year) B. Santhakumar (III Year)	Dr. K.P. Gopinath Dr. R. Prakash (Mechanical)	Ultrasound assisted anaerobic co-digestion of cow dung waste with seemai karuvelam (Prosopis juliflora)	Rs.25000
11	P. Ragul Kumar (II Year)	Dr. R. Parthiban	Investigation on the photocatalysis of algal growth in	23000

	S. Manikandan (II Year)		industrial wastewater using different LED lights	
12	S. Sangeetha (III Year) R. Priya (III Year) A. Danny Shelcia (III Year)	Dr. P. Senthil Kumar	Isolation, characterization of chromium resistant bacteria and its applications	18000
13	R. Mohana Vishnu (III Year) M. Prasanna (III Year) G.C. Dinesh (III Year)	Dr. J. Dhanalakshmi	Separation of acetone-methanol azeotropic system using ionic liquids: Experimental study	23000
14	G.M. Anusha (III Year) V. Pavithra (III Year)	Dr. P. Senthil Kumar	Biological extraction of chitosan from crustacean shells and its application in wastewater treatment	23000

PG - I Year Students

S.No	Name of the Students	Faculty in-charge	Title of the project	Amount Sanctioned in Rs
1	M. S. Arun Karthik (I Year)	Dr. P. Senthil Kumar	Analysis of vehicular emission on environment to predict the mitigation measures: A case study on OMR, Chennai	25000
2	V. Solai (I Year)	Dr. D. Gnana Prakash	Bioremediation of heavy metals contamination from industrial waste utilizing	20000

			halophilic microorganism	
3	P. Acchuthan (I Year)	Dr. K. P. Gopinath	Enhanced production of high quality bio-oil through green synthesis pathway: Application of ultrasonic pretreatment	25000
4	K. Santhiya (I Year)	Dr. D. Balaji	Semiconductor-assisted photodegradation of acid blue 113 using doped zinc oxide (ZnO) nanoparticles	24000