



**DEPARTMENT OF CIVIL ENGINEERING**  
**NATIONAL INSTITUTE OF TECHNOLOGY**  
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**STUDENT PROJECTS**

|                |   |                           |
|----------------|---|---------------------------|
| Programme      | : | M.Tech.                   |
| Specialization | : | Environmental Engineering |
| Year           | : | 2013 -15                  |

| Sl. No. | Roll No.  | Name of the Student | Project Title   | Guide                             |
|---------|-----------|---------------------|---|-----------------------------------|
| 1.      | 203413001 | Jinisha R           | Removal of rhodamine b dye from aqueous solution by electro fenton process using iron doped mesoporous silica as a heterogeneous catalyst                                   | Dr. R. Gandhimathi                |
| 2.      | 203413002 | Devahi P            | Influence of lime and fly ash in swelling behaviour of expansive soil with the presence of heavy metals   | Dr. K. Muthukkumaran              |
| 3.      | 203413003 | Rajesh R            | Assessment of microbial contamination in groundwater, soil, air – a case study at trichy  | Dr. S. Saravanan / Dr. R. Manjula |
| 4.      | 203413004 | Tusi MandaL         | Synthesis, characterization and evaluation of sorptive properties of zerovalent iron particles and it's biocomposite for the treatment of contaminants in aqueous solutions | Dr. S. T. Ramesh                  |
| 5.      | 203413005 | Gopi Tejasri        | Comparison of the efficiencies of organic and cellulosic substrates in removing sulfates and metals from acid mine drainage using continuous sulfate reducing bioreactor    | Dr. S. T. Ramesh                  |
| 6.      | 203413006 | Swagata Das         | Utilization of distillery wastewater as a no-cost nutritive medium for productio of biosurfactants  | Dr. R. Gandhimathi                |
| 7.      | 203413007 | Chilambarsan A      | Experimental investigation of carbondioxide sequestration using amine based micro and nano fluids   | Dr. S. Suresh                     |
| 8.      | 203413008 | Antony Raj A        | Assessment of the impacts of treated wastewater irrigation on soil properties - a case study at nit trichy  | Dr. S. Saravanan / Dr. R. Manjula |
| 9.      | 203413009 | Dhawal Tailang      | Investigation of nitrogen and phosphorous removal from dairy wastewater in a new algae-bacteria combined system   | Dr. S. T. Ramesh                  |
| 10.     | 203413010 | Keerthi K G         | Biodecolorization of synthetic dye solution of reactive blue-25 using immobilised yeast cells   | Dr. S. T. Ramesh                  |
| 11.     | 203413011 | Chithira venu       | Investigation of the working performance of the novel phosphorus removal with partitionable space enhanced coagulation reactor  | Dr. S. T. Ramesh                  |

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|-----|-----------|----------------------|--|--------------------------------------|
| 12. | 203413012 | Ramya M              | Numerical simulation of groundwater contaminant transport in ariyamangalam municipal solid waste dumping site, trichy  | Dr. S. Saravanan /<br>Dr. R. Manjula |
| 13. | 203413013 | Raghunath P M        | Removal of formaldehyde from indoor air using rubber plant ( <i>ficus elastica</i> ) and also by peace lily ( <i>spathiphyllum</i> ) in assistance with activated carbon | Dr. T. Sivasankar                    |
| 14. | 203413014 | Johin J              | Sonoelectrochemical treatment of reactive black 5 dye and real textile effluent using $\text{Na}_2\text{S}_2\text{O}_8$ and new $\text{MnSO}_4$ as electrolytes          | Dr. T. Sivasankar                    |
| 15. | 203413015 | Shara Siby           | Combination of ozonation and photocatalysis to mineralize aqueous effluents containing organic pollutants  | Dr. S. T. Ramesh                     |
| 16. | 203413016 | Santhosh M B         | Study on phytoremediation using a soil contaminated by zinc and associated potential leaching risk   | Dr. S. Jayalekshmi                   |
| 17. | 203413017 | Aswathy P            | Removal of organics from bilge water by batch electrocoagulation process and its optimization  | Dr. R. Gandhimathi                   |
| 18. | 203413018 | Arul Sudhan U        | Treatment of greywater by adsorption process using calcined layered double hydroxide as an adsorbent   | Dr. R. Gandhimathi                   |
| 19. | 203413020 | Archana P<br>Abraham | Enhanced removal of nutrients from an electrolysis integrated tidal flow constructed wetland system  | Dr. S. T. Ramesh                     |
| 20. | 203413021 | Asha T T             | Treatment of stabilized leachate using sulfate radical based advanced oxidation process  | Dr. R. Gandhimathi                   |
| 21. | 203413022 | Dhivya S             | Effectiveness of a plant based natural coagulant extracted from plantago ovata seeds: potential for water application  | Dr. S. T. Ramesh                     |
| 22. | 203413023 | Shamin Muth K K      | Experimental investigation on recovery of hydrocarbon liquid from e-waste by thermal pyrolysis using a fixed bed batch reactor   | Dr. S. Suresh                        |
| 23. | 203413024 | Priyanka Verma       | Monitoring and analysis on indoor environmental quality in nit trichy  | Dr. R. Gandhimathi                   |
| 24. | 203413025 | Roshini P S          | Treatment of textile wastewater by combined advanced oxidation and biological process  | Dr. R. Gandhimathi                   |
| 25. | 203413026 | Gazliya              | ultrasound assisted biomethanogenesis of landfill leachate: pretreatment, simultaneous treatment and CuO nanoparticles toxicity study                                    | Dr. T. Sivasankar                    |