

Sushma P

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Civil Engineering, Remote Sensing & Geomatics

24 Years

Female

OBJECTIVE

Seeking for a job to pursue a highly rewarding career and healthy work environment where I can utilize my skills and knowledge efficiently for the self and organizational growth.

Education

Year	Qualification	Institute	CGPA/ %
2017	M.E. (Remote sensing and Geomatics)	Institute of Remote Sensing, Anna University, Chennai	8.94/10
2014	B.Tech. (Civil Engineering)	Adhiparasakthi Engineering College, Melmaruvathur	8.64/10
2010	XII, State board	Adhiparasakthi Mat. Hr. Sec. School, Melmaruvathur	81.67
2008	X, Matriculation	Adhiparasakthi Mat. Hr. Sec. School, Melmaruvathur	81.40

PROJECT WORK

A study of seawater intrusion and its impact on change in crop pattern	In the coastal region, there are chances for seawater intrusion either at a lesser or higher rate depending on the region, population and other factors such as over exploitation. This in longer term can cause salinity to the overlying soil. This in turn may affect the fertility of the soil which has been studied using the satellite imagery by performing various Digital Image processing techniques. Various indices related to vegetation has been used in the study whether the study area was salinized and the changes in the vegetation through the course of time was done.
Treatment of wastewater using Nano film (Reverse Osmosis process)	Now-a-days, due to increase in population, the demand for the freshwater sources has been increasing to a higher rate. Similarly the freshwater sources are getting depleted due to over consumption. In order to conserve the use of available freshwater sources, various recycling techniques have been implemented in use. My project work was about upgrading the recycling technique by reverse osmosis by using Nano particle which will reduce the cost of processing, purify the water even more effecting and also by using a cost effective treatment for the retrieval of the lining used for treatment purpose. The Nano film was developed using Zinc Oxide Nano particles were synthesized at laboratory and it was coated over the RO membrane (as for testing) and the waste water collected after primary treatment was used to study the performance of the membrane.
Design of Biogas plant	An eco-friendly design for a nearby farm by considering the amount of cow-dung they obtain was designed using different methods such as fixed dome method, floating drum method and other two such methods were used to obtain a more cost effective method to be used for the particular farm was found.

Key Skills

1. Software: ArcGIS 10.3, ERDAS Imagine 2014, ENVI, Rivet Architecture, STAAD Pro, AutoCAD, MS Office.
2. Assisted as student member for ICI student chapter and ACE – Technical symposium'2012 and '2013.

Area of Interest

1. Remote sensing
2. Digital image processing
3. Terrestrial mapping and photogrammetry
4. Planning and designing

Achievements

1. University rank holder (Rank 40 all over Tamil Nadu Anna University rank list) for the year 2014.
2. Won 'Undergraduate Best Project award' from the Institute of Engineers for the project on Treatment of waste water using nano film (RO Process).
3. Participated in the best project contest conducted by 13th ISTE TN & P Section Annual convention.

Implant trainings

1. Undergone training for 3 weeks on Hydrogeology organized by the Central Ground Water Board, South Eastern Coastal Region, Chennai during 23-05-2016 up to 10-06-2016.
2. Went training under Chennai Port Trust regarding the principles and design of marine engineering structures, marine survey and other structures during the period of 10-06-2013 till 15-06-2013.

Extra-Curricular Activities & Interests

1. Like to travelling and exploring places
2. Reading books
3. Proficient throw ball player
4. Member of WWF club
5. Actively participated in scouts & guides activities