

### **7.3 Institutional Distinctiveness**

It is very much importance in the overall progress and development of the institution. The performance of the institution in one area distinctive to its vision: Since, the college is a minority institution and also situated in the suburban of Chennai city. Every year large number of rural students (Girls and Boys) seeks admissions in different courses of the college. College also helps students to get different types of scholarship (National Scholarship, Minority scholarship) provided by the Government and private organizations. Our college has been continuously striving to take education to the people who were denied the right to education and thus opportunities to develop and raise their standards of living. The college has worked determinedly to grow professionalism among the students and has stimulated the sense of social responsibility in them. The college has made significant growth over the years in its infrastructure and facilities to cope with the changing scenario of Higher Education and modern demands in the framework of globalization. Gender sensitization programs are also seen in the different programs such as lectures/seminars, NSS and YRC units of the college. Department of physical Education had given them opportunity to actively participate in sports and students were selected in University Team. The college organizes the women empowerment programs for making them confident enough to success through the battle of life. The College has a big repository of books, journals, periodicals, rare editions, manuscripts, and videos for the use of all teaching faculty members and students. All Departments conduct seminars, conferences, workshops, guest lectures and fests for the benefit of the students. The structured induction of the student into the curriculum enables to visualize the career opportunities and the approach towards achieving them. The college has strong norms for discipline and keeps a keen eye on attendance, assignments, submissions and the like. The academic audit conducted annually by the management, promotes a healthy teaching-learning atmosphere. Research laboratory and communication skill laboratory

help the faculty to enhance knowledge in the field of English language communication and writing skills. Participative and experiential learning are often used. Sophisticated instruments, software, hands-on trainings, summer-schools, field-visits, industrial visits and training, etc., are employed. Entrepreneurship Development Cell is functioning in the College and the cell encourages the students to start start-ups. There is a fully operation auditorium with Audio-Visual facility to hold regular seminars, symposia, cultural activities and other meetings. The Institute invites learned speakers from the Government, Academia and Alumni to share their knowledge and interact with students and Faculty members

The College encourages research and development activities on social development.

Some of the social significant models developed by our students:

- Bore well Child Rescue Machine.
- Design and Fabrication of Water Body Cleaning Machine
- Electric Solar Three Wheeler Vehicle for Disabled.
- Generation of Drinking Water from Humid Atmospheric Air In Coastal Region (TNSCST-Student Project Scheme-2018-19)

College provides excellence Education and opportunities for intellectual and emotional growth through different programs which are relevant and responsive to the needs of the rural and educationally backward society. This is our thrust area which makes us distinctive in performance of the college.

## 1. BOREWELL CHILD RESCUE MACHINE



P.Dhanush Kumaran, Karthikeyan. T, Praveen Raj .A ,Vignesh M.

**Abstract:** - Borewells which yielded water and subsequently got depleted are left uncovered. These borewells in turn have started to take many innocent lives. It is because of the irresponsibility of the landlords and borewell constructors. Small children without noticing the hole dug for the High capacity borewell slip in and get trapped. A suitably strong cap of bright color to cover the mouth of the bore will avoid such accidents. Here we proposed a machine called borewell child rescue machine to rescue the child one who fell into the borewell. This machine can be able to get inside the narrow borewell and find the child using the camera. After that it supplies oxygen and can communicate to the child using the help of two way communication mode in the camera. After these processes the flip lock operation starts to operate and grabs the child and pulls out of the borewell safely.

## 2. DESIGN AND FABRICATION OF WATER BODY CLEANING MACHINE



Barani Tharan.R, Haji Mohammed. K, Khaja Omar Farooq.F and Md Shahbaaz Alam

**Abstract:** This project emphasizes on design and fabrication of the water body cleaning machine. As we know that water bodies are too polluted, similarly sometimes the aquatic animal tends to eat surface waste debris considering it as food which ultimately causes the death of animals and it also cause skin infections & respiratory diseases to human. The water body cleaning machine is used to places where is waste debris in the body which are to be removed. First the area of garbage or debris is approached and cleaned over by an operator, controlling the machine. Due to its design, it is cost effective and very useful for the society. It also reduces the difficulties which we are facing to keep our water body clean. India is the land of rivers but these days it is being polluted more and more. The water pollution is major problem in water bodies; due to increase in water pollution in the form waste debris, it is hampering the life of human, animal & marine. By Looking the current situation of our country's river we have designed the water body cleaning machine.

### 3. ELECTRIC SOLAR THREE WHEELER VEHICLE FOR DISABLE



Aravind Kumar.R, Dinesh.B, Srinivasan.T

**Abstract:** Solar energy is one of the important sources of renewable energy. There are many works has been done in order to incorporate solar energy to everyday transportation including tricycle. In this project, a cheaper solar tricycle with more capability of utilizing the solar energy is designed for developing countries. The main content of the tricycle is solar PV panel, e-bike motor, speed controller, charge controller and battery. We have developed the solar tricycle especially for handicapped person. We are working for the leprosy affected people. In this project it is discussed that how solar tricycle will help to reduce the effort of handicapped person. All the designs specification considered after analyzing the problems from the handicapped person. Comfort of the person in the tricycle is an important and we have given importance to it. This project will discuss about the main idea of this project and to get a larger picture on what is the problem in the current technologies, what that I want to achieve in this project and the area that will cover on this project. This project problem statement to inform about the problem or weakness of the existing technology, objective to make sure what actually this project must achieve and scope of this project to specify what will be used in this project.

#### **4. Generation of Drinking Water from Humid Atmospheric Air In Coastal Region**

Project Guide: Dr. ANJAN KUMAR SAHU, Assistant Professor, Department of Mechanical Engineering.

**Abstract:** The project is aimed to produce drinking water from humid atmospheric air in coastal region using a simple refrigeration cycle by using R-22 as Refrigerant. The PVC pipe is the outer casing of the evaporator coil and is connected to a blower. Blower sucks the atmospheric air and delivers into the evaporator coil which absorbs the heat from atmospheric air and converts the moisture into water droplet. Water droplets collected in the bottom of the PVC pipe. Generation of water mainly depends on humidity of air, dew point temperature of (DPT) atmospheric air and the cooling capacity of Evaporator.