3.1.2. 1.Seed money provided by the institution to its teachers for research during the year (INR in lakhs):
Any additional information

s.no	Name of the teacher who received grant money	Research/project title	Amount of seed money	Month and year of receiving the grant	Duration of the grant	Supporting documents with page numbers
1.	Sri G.D.R.Naidu, Assistant Professor,CIVIL department	Development of Waste Water Treatment	4920.00	01/03/2021	One month	2-3
2.	Mr.P.V.Muralidhar, assistant Professor, ECE	Automated blind stick	1860.00	01/03/2021	One month	4-5
3.	Mr.M.Balakrishna, assistant Professor, ECE	Automated surface vehicle	5610.00	02/03/2021	One month	6-7
4.	G.Ashok, Assistant Professor, EEE, AITAM	Design and Implementation of Electric Assisted Bicycle with Attached Dynamo	8640.00	02/03/2021	Two months	8-9

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TEQIP Participated College
Recognised by Scientific & Industrial Research Organisation(SIRO)

Date: 1/03/2021

To
The Director,
AITAM, TEKKALI.

Sub: - Regarding sanctioning of money – Development of Waste Water Treatment Reg.
Ref: - IC – AIM – INHOUSE/ 2021/43.

From our Innovation Council, we recommend to sanction a sum of Rs.4920 (Four thousand and Nine hundred twenty rupees only) as full/ part payment to the Sri. G.D.R. Naidu, Dept. of CIVIL / (Student Name: P.Bhuvana Venela, Reg. No. 18A51A0143) towards development of Waste Water Treatment in Villages.

Head of the Dept. CE

In-charge, Innovation Cell

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Counseling Code
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Tel: 0 94401 95534.
Email: info@adityatekkali.edu.in
aditya tekkali@yahoo.com
www.adityatekkali.edu.in

Project title: Development of Waste Water Treatment

Our main idea is to make a setup where all the waste water in villages is considered and purified through the setup involved. Water containing organic, inorganic and biological wastes that can be purified and reused for irrigation and anthropogenic activities. This idea is presented with the intention of low cost management with credible business potential as well. Our main motive is to make this whole process economically by introducing new ideas. By this aquatic life is not disturbed in ponds, lakes and other fresh water bodies, while the formation of microbial substances can be prevented by implementing this idea.

Faculty name: Sri G.D.R.Naidu, Assistant Professor,CIVIL department

Student names:

P. Bhuvana Vennela 18A51A0143

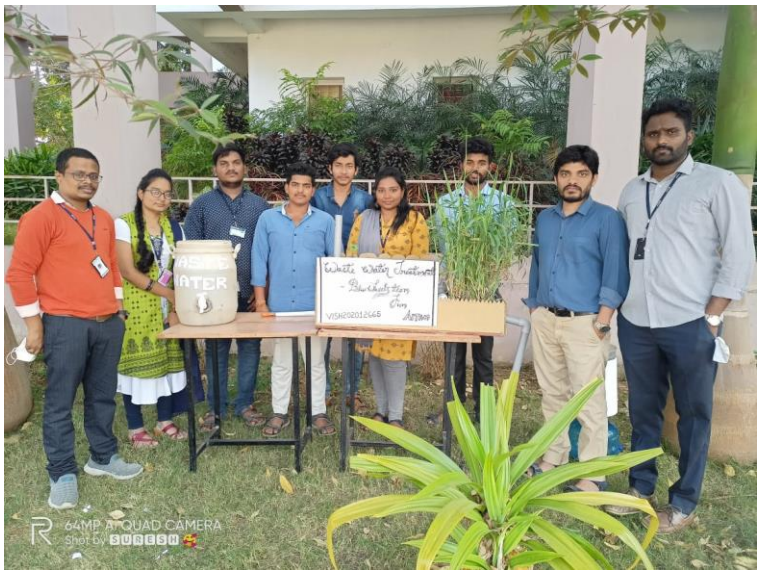
P. Priyanka Naidu 18A51A0144

P. Rakesh 18A51A0145

T. Rakesh 19A55A0147

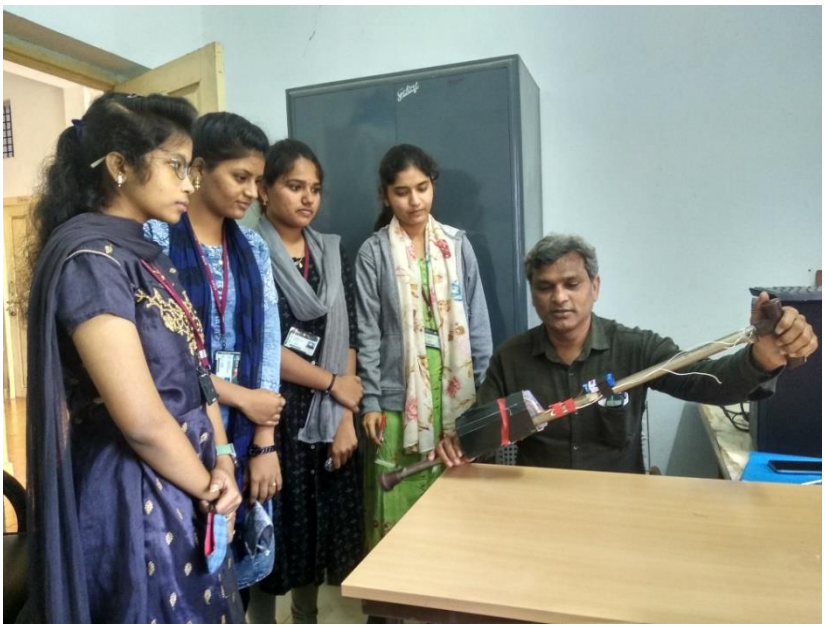
P. Somaraju 19A55A0140

P. Suresh 18A51A0142



Project title: Automated Blind stick

Visually Impaired people have difficulty in interacting with the environment. They could not have proper navigation through their normal Blind Stick. So this designed project "Smart Blind Stick using Ultrasonic Sensor" helps them by detecting when-ever there is an obstacle on their way. Not only the Blind stick alerts them when they are about to hit something. This project aims to design a blind stick by interfacing an ultrasonic sensor with a Buzzer. Here by the device helps blind people in navigation.



Faculty name: Mr.P.V.Muralidhar, assistant Professor, ECE

Students name:

L.Prameela – 19A51A04G8

S.Sahithya - 19A51a04F7

J. Vineetha – 19A51A4F2

M. Niharika – 19A51A04G9

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Date:

1/03/2021

To
The Director,
AITAM, TEKKALI.

Sub: - Regarding sanctioning of money – Automated Blind Stick Reg.
Ref: - IC – AIM – INHOUSE/ 2021/44.

From our Innovation Council, we recommend to sanction a sum of Rs.1860 (One thousand and eight hundred sixty rupees only) as full/ part payment to the Sri. P.V. Muralidhar, Dept. of ECE towards Automated Blind Stick.

Head of the Dept. ECE

In-charge, Innovation Cell

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Project title: Autonomous surface vehicle

Abstract: In today's technically advanced world autonomous systems are gaining rapid popularity. The goal of this project was to develop a system that could demonstrate this autonomy, as well as serve as a platform for future research work in the field of autonomous surface vehicles. The system presented is a powerful and relatively inexpensive Unmanned Surface Vehicle (USV). It brings about a combination of sensors integrated in such a way so as to provide simultaneous autonomous navigation, data acquisition and data transmission to base station through a wireless module. There is also a software interface developed to provide an interactive environment between the user and the system enabling the user to plan the path of the boat, upload the mission-plan into the system and to display real time data obtained from the sensors, speed of the boat and the battery health of the system.

Faculty name: Mr.M.Balakrishna, assistant Professor, ECE

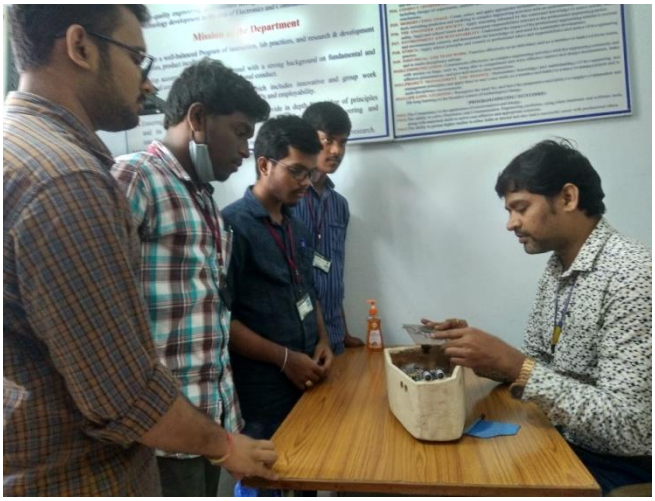
Student names:

j. Bhargav – 19A51A04J3

D.venkataramana – 19A51A04E3

S.rakesh – 19A51A04I4

P. Harish – 20A55A0418



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Date:

Date : 02/03/2021

To
The Director,
AITAM, TEKKALI.

Sub: - Regarding sanctioning of money – Autonomous Surface Vehicle Reg.
Ref: - IC – AIM – INHOUSE/ 2021/45.

From our Innovation Council, we recommend to sanction a sum of Rs. 5,610 (five thousand six hundred ten rupees only) as full/ part payment to the Sri. M. Bala Krishna, Dept. of ECE towards Autonomous Surface Vehicle.

Head of the Dept. ECE
Dept. Head of ECE
Aditya Institute of Technology and Management
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Director R&D
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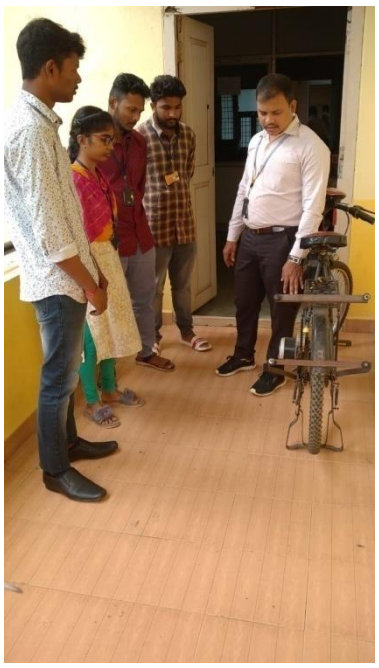
Project title: Design and Implementation of Electric Assisted Bicycle with Attached Dynamo

As we all know the fuel prices especially the petrol is rising steadily day by day. Again the pollution due to vehicles in metro cities and urban areas is increasing continuously. To overcome these problems, an effort is being made to search some other alternative sources of energy for the vehicles.

An electric bicycle is uses the same designs, geometries, and components as other bicycles, but also includes an added electric motor. This is fueled by a rechargeable battery, which gives riders an extra boost of power and ultimately provides a smoother, more convenient and less strenuous cycling experience. By eliminating many of the obstacles that keep people from cycling obstacles such as headwinds, steep hills, and bike commutes that leave riders tired, messy and sweaty electric bikes help make the freedom, exhilaration and satisfaction of cycling available and accessible to a wide range of potential cycles For many, electric bikes are an attractive alternative to both conventional bicycles and traditional automobiles, providing an environmentally friendly, fun, efficient, and convenient way to travel.

As part of dissertation work, the e-bicycle is fitted with a dc hub motor on back axle of a bicycle with power rating of 250W and with a travelling speed of around 25-30kmph. It is provided with a pair of lead acid batteries of 9Ah , the dynamo is attached with the back axle when the wheel is rotating then the dynamo can work. So, that energy will produce , accelerator and motor controller of 24v, 25 amp . There is also a provision for charging of the battery with 220-240V, AC wall outlet supply.



Faculty name: G.Ashok, Assistant Professor, EEE, AITAM

Students name: K.Chandrika, 16A51A0251

D.Vandana, 16A51A0232

Ch.Yoganandh, 16A51A0227

P.revanth , 16A51A0253

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Date:

Date : 02/03/2021

To
The Director,
AITAM, TEKKALI.

Sub: - Regarding sanctioning of money – Design and Implementation of Electric Assisted Bicycle with Attached Dynamo Reg.
Ref: - IC – AIM – INHOUSE/ 2021/46.

From our Innovation Council, we recommend to sanction a sum of Rs.8640 (Eight thousand six hundred and forty rupees only) as full/ part payment to the Sri. G. Ashok, Dept. of EEE towards Design and Implementation of Electric Assisted Bicycle with Attached Dynamo.

Head of the Dept.____

In-charge, Innovation Cell

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