



VEMU INSTITUTE OF TECHNOLOGY::P.KOTHAKOTA
NEAR PAKALA, CHITTOOR-517112
(Approved by AICTE, New Delhi & Affiliated to JNTUA, Anantapuramu)

**“A training Programme on
Innovation and
Entrepreneurship
Programme- IGNITE 1.0-
Lightning Innovation and
Entrepreneurship”**

Date: 22-04-2021 to 19-06-2021

@

10 AM - 4.30 PM



VEMU INSTITUTE OF TECHNOLOGY

P.Kothakota, Chittoor District -517112

CIRCULAR

20.04.2021

VEMU Students Innovation Club is organizing an IGNITE 1.0 Programme (A certificate program on Entrepreneurship, Innovation and Incubation) in association with Atal Incubation Centre (AIC), Sri Krishnadevaraya University, Anantapur scheduled to commence from 22.4.2021. This programme focuses on bringing innovative mindsets and ideas from the student community with support from faculty teams. The undersigned would kindly request the HODs to ensure that all the registered students and faculty mentors to attend the program. The program schedule (34 hours), list of faculty mentors and students are enclosed herewith for your reference.

Naivoule
20/4/21
PRINCIPAL

PRINCIPAL
Vemu Institute of Technology
P. KOTHAKOTA - 517 112

Encl:

1. List of students
2. Program schedule

Copy to:

1. The Chairman Sir for kind information.
2. Vice-Principal & Deans
3. All HODs
4. Diploma Incharge



VEMU INSTITUTE OF TECHNOLOGY

P.KOTHAKOTA, NEAR PAKALA, CHITTOOR-517112
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Ref. No.: VEMUIT/R&D/CIR/2020-21

Date: 20.04.2021

CIRCULAR

Atal Incubation Centre (AIC), Sri Krishnadevaraya University, Anantapur is organizing an IGNITE 1.0 Programme for our institution. This programme focuses on bringing innovative mindsets and ideas from the student community with support from faculty teams. The undersigned would kindly request the HODs to ensure that all the students and faculty mentors to attend the program without fail. The program schedule, list of faculty mentors and students are enclosed with a circular for your reference.


PRINCIPAL

PRINCIPAL

Vemu Institute of Technology
P. KOTHAKOTA - 517 112

Copy to:

1. All the HODs
2. Dean-R&D
3. R&D Cell Coordinators

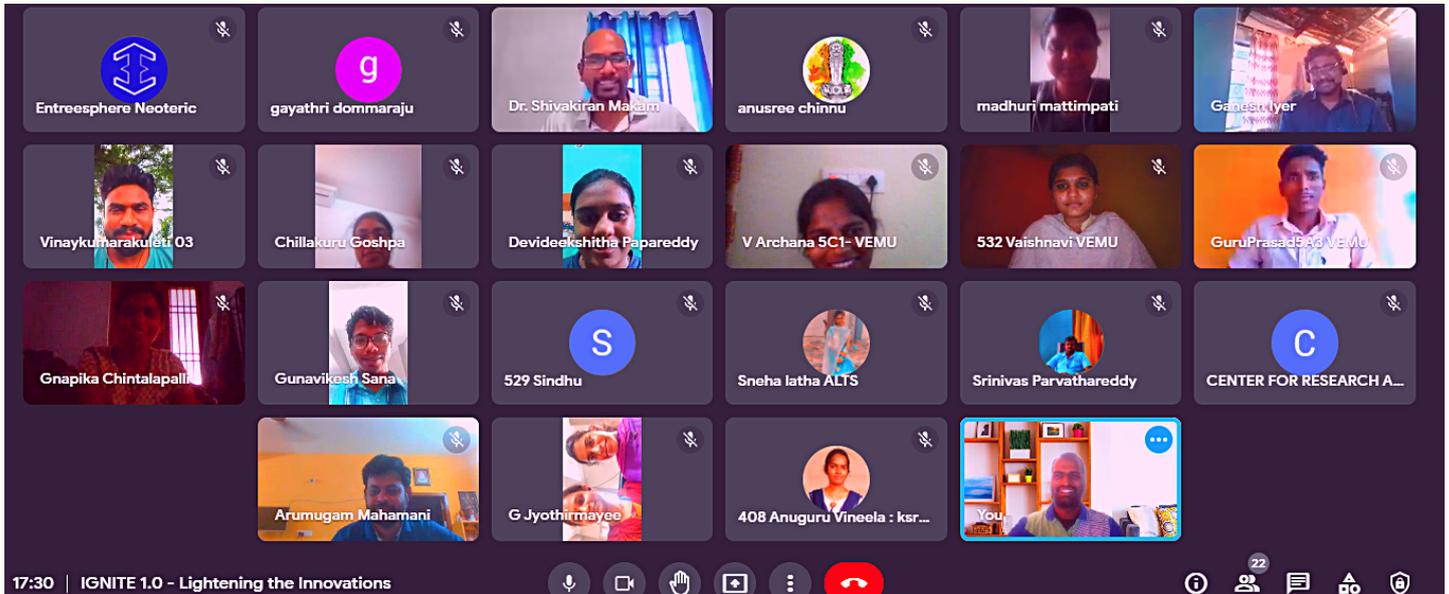


H-FATE

IGNITE 1.0

Lightening the Innovations

19th April - 09th July, 2021



Creating a Culture of Innovation in HEIs

IGNITE 1.0 - Lightening the Innovations, is the flagship 30-Day training and mentoring programme of Atal Incubation Centre Sri Krishnadevaraya University (AIC - SKU), Anantapur to nurture the student innovators from Higher Education Institutions (HEIs) from tier 03 cities and towns. The main aim of this programme is to inculcate innovation and startup culture at the institutional level in HEIs of Andhra Pradesh.

Applications were invited from the academic partners of AIC-SKU and received 65 applications from 4 HEIs. 24 innovative ideas were shortlisted for this cohort. A total of 18 student teams along with their local mentors were trained in this programme. Students have learned the benefits of choosing entrepreneurship as their career, defining and clarity on addressing the pain point, validation of the ideas, potential impact of the solution on business canvas, market research, USP & branding, and one-on-one mentoring from the dedicated mentors.

This booklet is a compendium of innovative ideas pitched on Idea pitch day (the last day IGNITE 1.0).

KEY HIGHLIGHTS

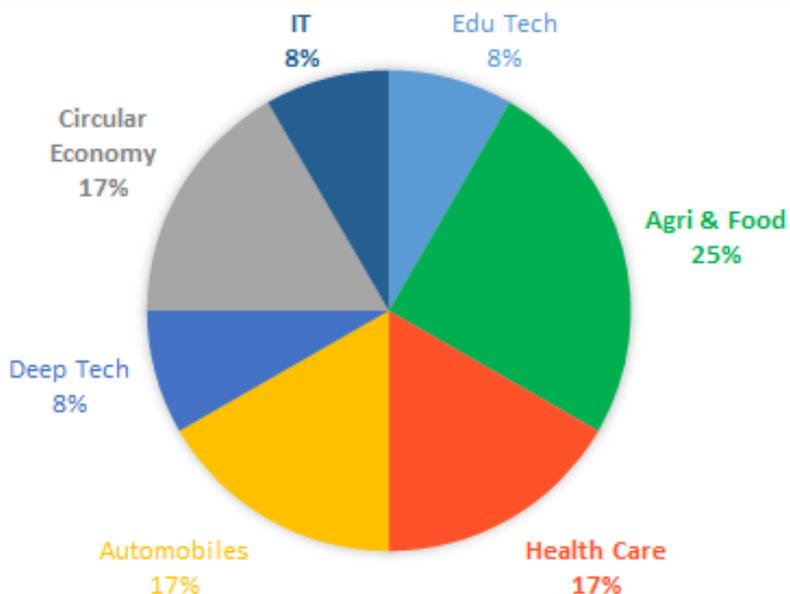
FOSTERING INNOVATION CULTURE IN HEIs FROM SMALL TOWNS

INCULCATION OF LEADERSHIP AND VALUES IN STUDENTS

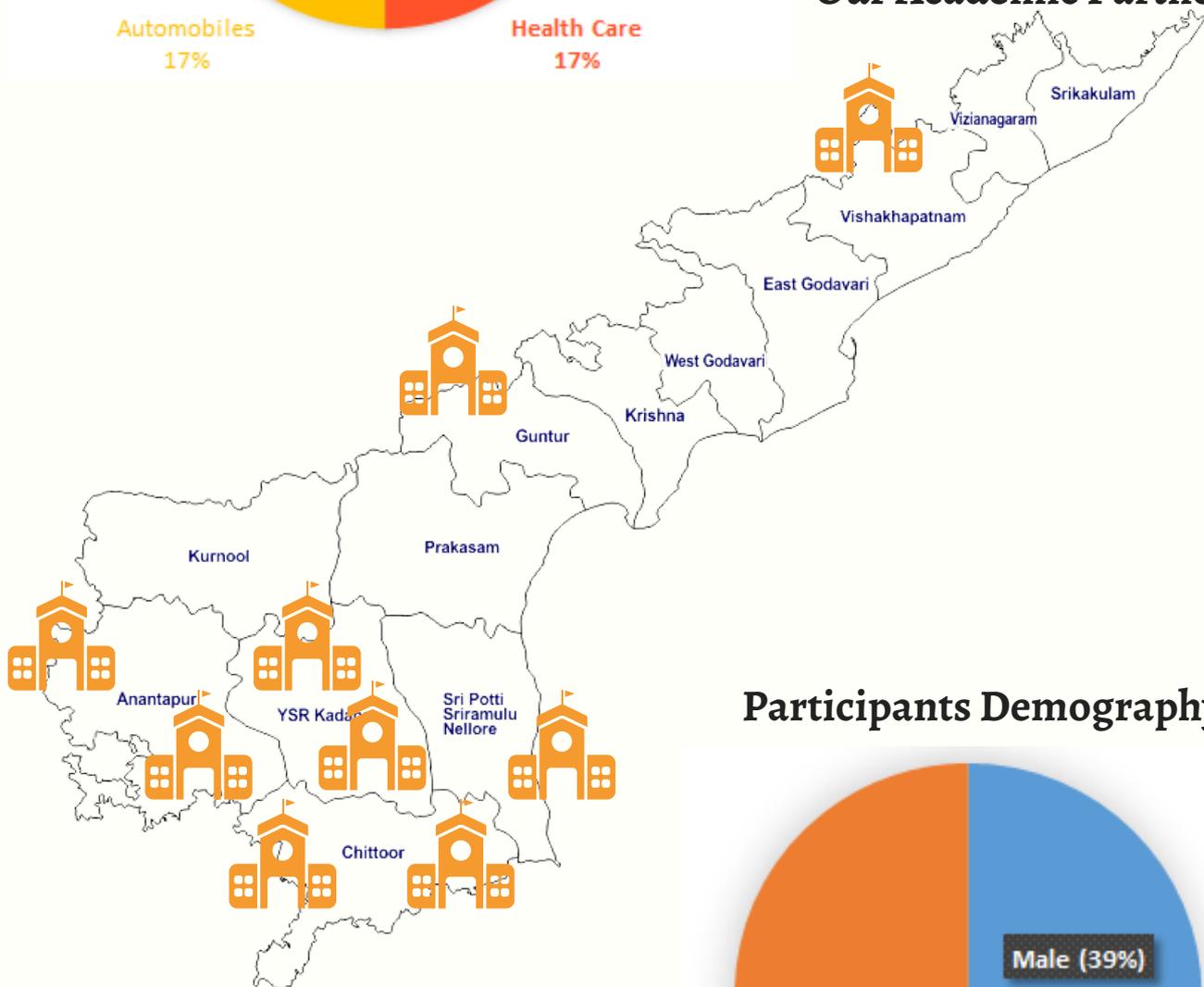
MENTORED COMMERCIALY POTENTIAL IDEAS FROM STUDENT TEAMS

NURTURED 12 INNOVATIVE IDEAS

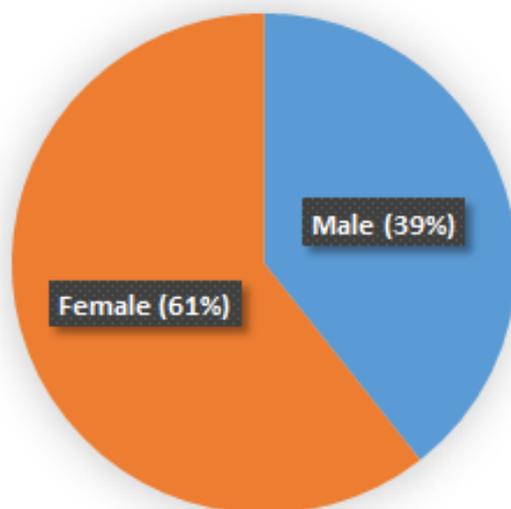
Core Domains



Our Academic Partners



Participants Demography



Female (61%)

ZEIT MEDICA

Medicine in Time

Core Domain
Health Care

Sub Domain
Health Assistance

Team

G. Jyothirmayee Sai Prasanna
K. Lakshmi Sneha
S. Guna Vikesh



Smart Solution to take medicines in time

Problem: The team from KSRM College of Engineering, Kadapa has identified patient adherence to the medication regimes is a large problem across the world. It has been estimated that up to 75% of people don't intake medicines properly. On the other hand, global medicine usage has reached 4.5 trillion doses annually and it is projected that the total number of people with dementia may reach 82 million in 2030. Around the globe, it has been found that 50 million people are suffering from dementia.

Solution: The team has come up with an innovative solution for reminding tablet intake to the patients. This device alerts and assists the patients through multilingual voice-based instructions. The main features of the device are the android application to monitor the device, LED indication, an automatic cap opener of the respective compartment, and tablet consumption feedback.

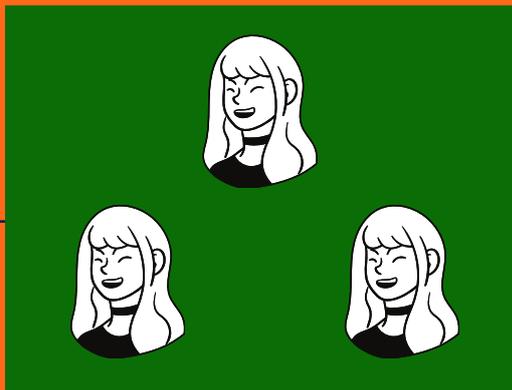
USP:

1. Pill intake remainder as per the time and need.
2. Voice assistance in regional languages.
3. SMS & Call alerts to the concerned caretaker if the pills are not consumed.



RECYCLE & RECOVER

Waste water to usage



Core Domain

Waste Management

Sub Domain

Water Recycle

Team

Anushree
Gayathri
Madhuri

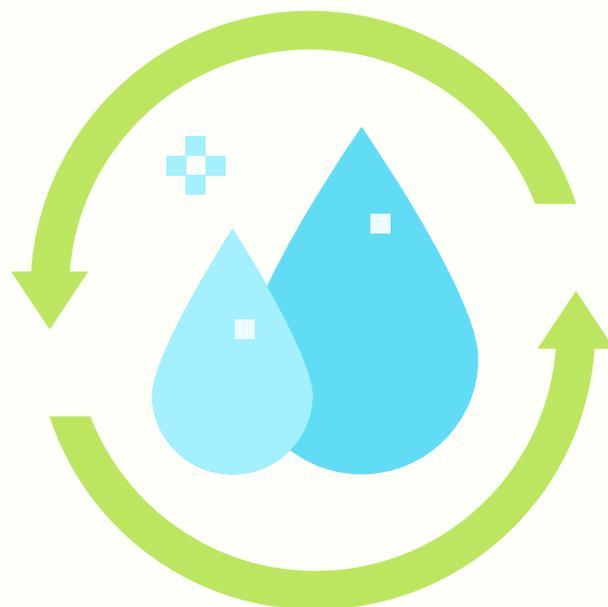


Recycle waste water for multipurpose usage

Problem: The team has identified the dire necessity of water recycling and reuse. Since various water resources in India were contaminated with arsenic, fluoride, iron, nitrate, and salinity with iron being the most common, making water treatment a sustainable and profitable business nudges community and industry participation.

Solution: The team has come up with an idea of collecting water and purifying it using various methods in low cost. They proposed to use a three level water purification which involves purification through sedimentation process of collected waste water. In the second level phytoremediation process is used to reduce the concentrations or toxic effects of contaminants in the wastewater. Last level is to clean the water using duckweed and harvesting duckweed. Harvested duckweed is used to produce biogas and slurry in biogas plants. Some amount of treated water is used to grow bamboo trees and the rest of the water sinks to the ground.

USP: Revenue generation through waste water treatment. Scalable at various variants. Suitable to any industry looking for waste water treatment. AatmaNirbhar Bharat on Energy from bio-gas and biofertilizer.



VASUDHAMRUTH

Soul Of Infinite Life – SOIL...!



Core Domain

Waste
Management

Sub Domain

Waste to Wealth

Team

Chillakuru Goshpa
Devi Deekshitha Papareddy

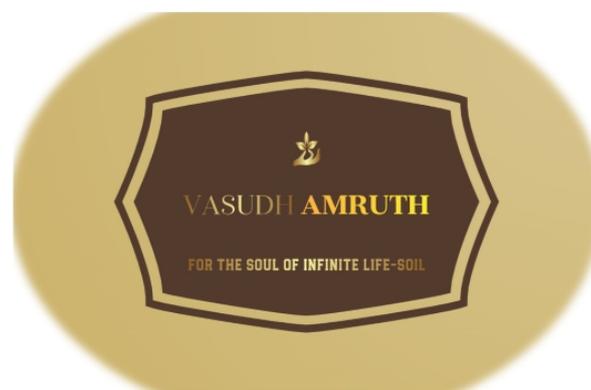


Fly Ash to Fertilizer

Problem: Team color schemers have identified that 1,647 MT tons of fly ash is unutilized and it is mixing in the atmosphere. The fly ash mixed in the atmosphere is causing a lot of health and environmental issues. fly ash from the thermal power plants is contaminating air, water bodies, thereby it is affecting agriculture and people's health living in the nearby villages of power plants.

Solution: The team has come up with a solution of manufacturing fertilizers from fly ash using nanotechnology and encapsulation methods for various crops based on the soil profile.

USP: Slow release of fertilizers to the crop which helps in long-lasting fertility. Encapsulation technique is used to encapsulate any type of fertilizer, using fly ash and producing versatile fertilizers. The method and fertilizer are user-friendly and eco-friendly.



Hundreds of coal power plants burn **over a billion tons of coal** every year, **COAL ASH IS A TOXIC PRODUCT**. Coal ash is filled with **toxic levels** of multiple pollutants - which can **POISON ATMOSPHERE INCLUDING DRINKING WATER**.



**DUVVURU RAMANAMMA WOMEN'S COLLEGE, GUDUR,
NELLORE**



NEAR ME

A platform for hyper local services

Core Domain

Information
Technology

Sub Domain

Aggregation
Platform

Team

Naru Abhishek
Kota Vamsi Krishna Reddy
M. Harihara Nandhan





A platform for hyper local services

Problem: The team has identified the necessity of skilled service providers for household repair services. The major problem is to identify and locate the nearby authentic service providers in tier 3 cities.

Solution: Proposed an app-based platform to identify the right authentic service provider near to the user. Based on the user requirement a notification will be sent to the service providers based on the location and the app will list all the service providers. The service provider accepts the service and provides services to the user.

USP:

1. Hyper-local service providers based on customer ratings in tier-3 cities.
2. Saving time to the customers in searching of service providers
3. Low subscription fees.
4. Authentic and genuine service providers.



This app provides seamless digital platform that connects the customers and **service providers** Saving of time to the user in **finding the service provider** near to him in the specified work.





BAVSENSUE

AI based criminal detectors before crime

Core Domain

Deep Tech

Sub Domain

AI based Facial Reading

Team

Archana
Vaishnavi
Ghnana Sindhu
Guru Prasad

AI based criminal identification before crime

Problem: Since the number and forms of criminal activities are increasing at an alarming rate, also forcing agencies are taking preventing measures in various forms, still crimes are increasing day by day. Hence the team has identified that crime prevention is more important to reduce the crime rate. In the current scenario of rapidly increasing crime, traditional crime-solving techniques are unable to deliver results, being slow-paced and less efficient.

Solution: The team has come up with an innovative and unique idea of preventing crimes before it commits. Bavsensue is the product with AI-based facial recognition to predict crimes before they occur. Bavsensue provides software that can be installed in devices that can anticipate criminals based on their facial expressions and physical behavior.

USP: Identification of criminals before the crime. Helpful to the defense and police departments.



Bavsensue provides software that can be installed in devices to **anticipate** the **criminal activities** by humans before it occurs.



COLLISION SOLUTION

Accidents prevention system



Core Domain

Automobile
Industry

Sub Domain

IoT in Automobiles

Team

Anuguru Vineela Reddy
Prathyusha



Prevents accidents at night times

Problem: The team has identified that most road accidents occur at night due to various factors. 60% of accidents occur due to visual factors, out of which 52.3% of accidents happen due to high light beams from opposite vehicles or any other source. So, this team has taken up this problem to save lives due to high beams at night times.

Solution: The team proposed an embedded system-based solution to avoid accidents that happen during night times. The light intensity of the vehicles decreases or switches to a low beam when they approach opposite to each other at low proximities so that the vehicle can see the opposite vehicle clearly. After the two vehicles crossover, the light intensity automatically increases or switches to a high beam.

USP: Life-saving through light beam switching automation. Reducing the rate of accidents due to high light intensities. Low cost and customizable to fit any type of vehicle.



Collision solution

Major companies such as Mercedes-Benz & Toyota **invested \$ 2500** to avoid accidents due to **night vision problems**



STRIOGYA

She cares for you - we care for her



Core Domain

Health Care

Sub Domain

Health Assistance

Team

Gnapika
Anusha



Health care app for women

Problem: As per the results of a large-scale survey conducted across India in 2020, a majority of women respondents reported that they had menstrual problems, vaginal discharge, PCOS, Breast pain, urinary traction infection, difficulty conceiving, fiberoids, pelvic infection, etc...and psychological issues such as depression, anxiety disorders, schizophrenia, other mental disorders.

Solution: We are coming with an app-based solution, where women can the disease from the symptoms they enter based on an AI program, They will give suggestions based on the severity levels of the disease whether they have to take medicines or consult a doctor or go for a full-fledged treatment. This app is exclusively designed to provide these services using voice-over-based regional language assistance.

USP: Voice over assistance in regional language. AI-based health severity assessment. From tablet to complete treatment. Quick response in emergency situations.



STRIOGYA

**SHE CARES FOR YOU !
WE CARE FOR HER !**



**DUVVURU RAMANAMMA WOMEN'S COLLEGE, GUDUR,
NELLORE**

FRESH PROBER
She cares for you - we care for her

Core Domain
 Food

Sub Domain
 Food Diagnose

Team
 Gayathri
 Anushree
 Madhuri

Health care app for women

Problem: More than 200 diseases are spread through food. There are 48 million reported cases of foodborne illness each year (India). Foodborne illness results in 3-5 billion hospitalizations and 1.8 million deaths annually (India). 80% of food poisoning cases occur because of improperly stored food (EU). The highest risk of food poisoning: Poultry and fish

Solution: Fresh Prober is a handheld mobile device that determines the Quality, Freshness, and Identification of meat, poultry, and fish. Take food that you are going to buy or prepare to eat. Simply “sniff” it with the FRESHprober handheld device. FRESHprober sensor gathers data and transmits it to your mobile/tablet app. FRESHprober app measures gas levels analyze results and tell you: -The level of freshness of the food you are testing. - Whether it is safe to eat or should be discarded.

USP: It is a handheld mobile device that determines the Quality, Freshness, and Identification of meat, poultry, and fish.



HSCM VEHICLES

Your vehicle security is our responsibility



Core Domain

Automobile

Sub Domain

Security

Team

Y. Hemanth kumar

S. Sukumar

B. Mohan raj

E. Chandeeshwar



Vehicle security is our utmost priority

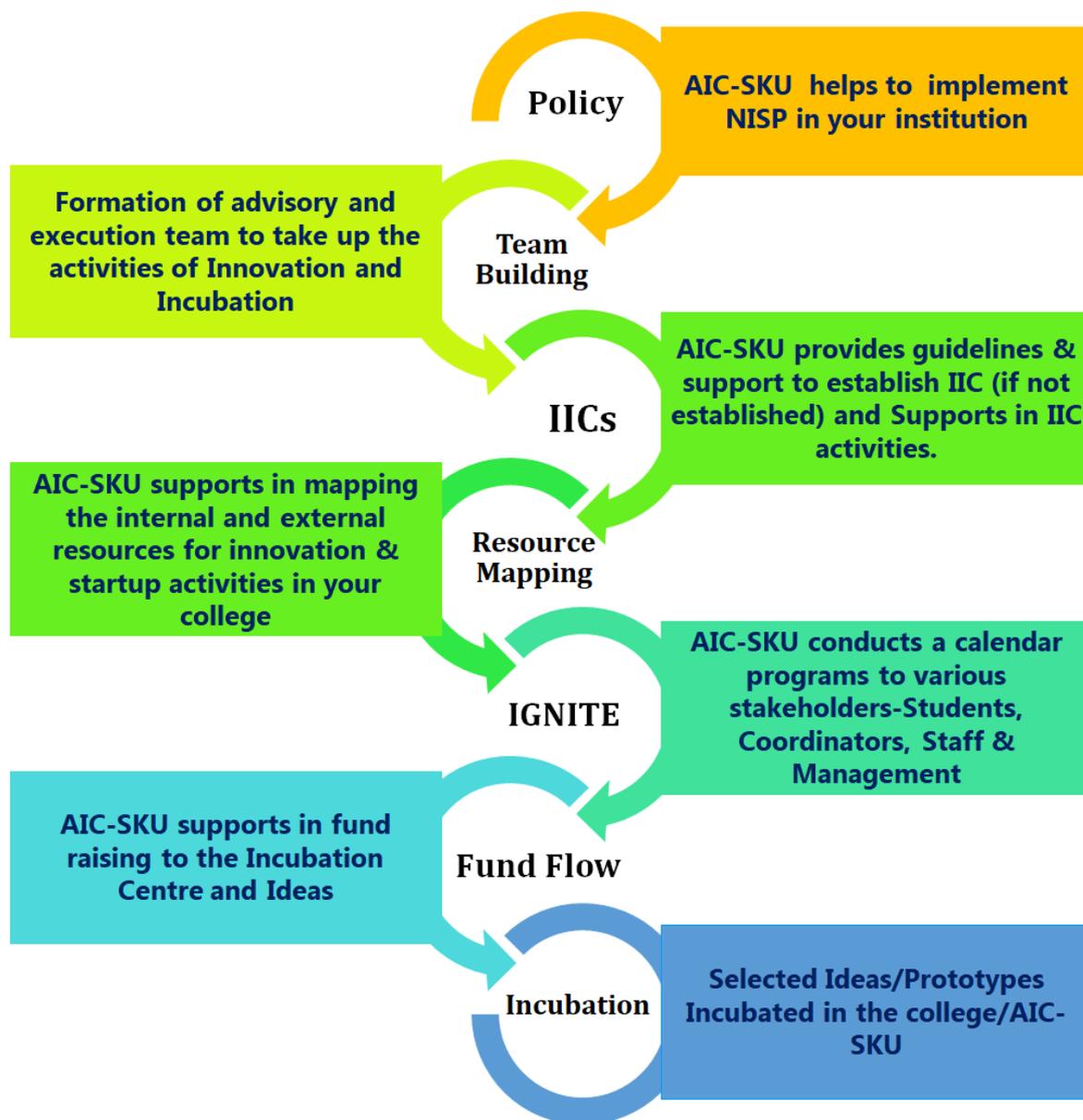
Problem: Every day we listen to the news like "I lose my vehicle or someone theft my car". So it has become a major problem that everyone facing all around the world, actually, theft of bikes is a crime. there are a lot of cases where vehicles were not recovered. so we thought the security of the vehicles is most important to deal with.

Solution: We can add more security to the vehicle by implementing a fingerprint system for vehicles. By using the IoT process we can give an alert message to the customer when someone tries to access the bike illegally. It is a more safe and secure solution to the problem.

USP: The product is more secure and safe by finger lock system and ignition automatically starts we touch the fingerprint sensor. We alert message protocol system when illegal activities going to happen. We can regulate speed controls and a digital speedometer should be implemented.



OUR APPROACH



Reach us at



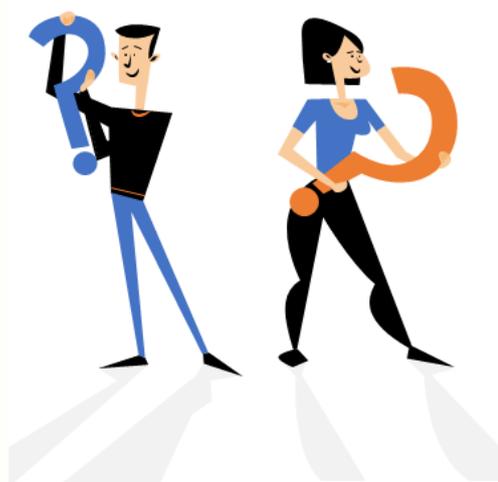
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28	184M1A0336	KAKULURU KARTHIK	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
29	184M1A0337	KALICHETTY NIKHIL	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
30	184M1A0338	KALIKIRI DILLIBABU	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
31	184M1A0339	KAMBAM AKHIL KUMAR REDDY	√	√	A	√	√	√	√	√	√	√	√	√	√	√	√	√	√
32	184M1A0340	KONAVATTAM KIRAN	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
33	184M1A0341	KONDA REDDIVARAPRASAD	√	√	√	√	√	A	√	√	√	√	√	√	√	√	√	√	√
34	184M1A0342	KOTAKURI SATISH KUMAR	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
35	184M1A0343	KUCHI SARATH	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
36	184M1A0344	LEKKALAPUDI BHARGAVI	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
37	184M1A0345	M KARTHIK	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
38	184M1A0346	MAMIDIPALLI RAVITEJA	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√

[Handwritten Signature]

HOD

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PRINCIPAL
Vemu Institute of Technology
P. KOTHAKOTA - 517 112

TITLE OF THE PROJECT:

CONVERSION OF WASTE TO VALUE ADDED PRODUCT APPLICATION

Objectives:

Nothing is waste when you think about it and use it in a Proper way. Waste can be used as a value-added product by reusing them in all fields. Biodegradable material like vegetable and fruit waste, like a mango seed, at the same time Non-Biodegradable items like plastic also leads to increase diseases and may lead to pollution finally leads to hazards. So, the motto of paper is to make citizens to use that type of waste and convert them into a value-added product by themselves, finally leads to economic growth and to decrease pollution as well as waste. Some biodegradable waste can be converted to a healthy medicine, cosmetic lotion, fertilizer& eatable item. Some Non-Biodegradable waste can be converted into decorative items and useful value-added products used in different places for different purposes. Let the waste not get wasted, let the pollution not get increased, let the earth not get polluted, let the Country's economy not get decreased.

This application is a kind of game application consists of some images which helps the gamer know how to make the waste into value added product and after completion of each level the gamer will get the making video of conversion of waste to value added product. The outcome of this game application is to make the user not to waste the waste, make a person to use the waste.

Innovative Element:

The conversion of waste to value added product as well as it's a game application. So, this is an innovative element.

Methodology:

This is a game application which consist many levels, where some items are presented on the screen, the user should pick the right objects and by dragging or adding them, they will convert the waste to value into value added product, if they don't know the right object, they will have hints to do. After the completion of each level, they will get some points and the total real video of making the value-added product. So, the user may get admire and try this. Hence the waste may get decrease and 3 R's implementation will occur.

Tap to return to meeting 22:16

In the meeting (98)

Mute all

- 19-573 N JAHNAVI
- 19-574 Lilly P... On hold
- 19-575 Lohitha
- 19-580 HANUSHA
- 19-582 Nireesha
- 19-588 Gayathri
- 19-592 Aswani
- 19-597 Devi
- 19-599 Sujatha
- 19-5A0 PAVAN
- 19-5A1 RAHITHA

Tap to return to meeting 16:18

In the meeting (101)

Mute all

- 20-401 LEELAVATHI
- 20-403 HEMAKUMAR
- 20-407 MAKA.JYOSHNA
- 20-409 P.D.ANILKUMAR
- 204m5a0107 Muni
- 204M5A0503(Veera)
- Bharath-204M5A0201
- chennaiah
- Dharani E
- sudarsana reddy
- swapna 5C8



Tap to return to meeting 18:28

In the meeting (100) Mute all

Organizer

SwiftAI Started recording

Participants

Venkataramana K

19-5A2 Sathish kumar

19-208 Bathemma

19-209 D.Charishma

19-219 G.Abhinaya Jyo...

19-224 k.sai kumar

19-230 JANANI

19-231 Tejaswi K

Tap to return to meeting 15:36

In the meeting (101) Mute all

19-496 HEMA

19-499 SRUTHI

19-4B8 Thdumu karthe...

19-4C1 V.Jyothsna

19-4C3 V Dinesh

19-4C5 Hema

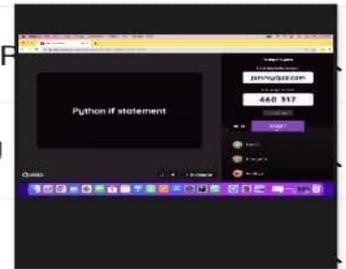
19-4C6 Vani

19-503 lavanya

19-507 PAVITHR

19-515 MADHU

19-517 SUJITH



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