MLR Institute of Technology

Laxma Reddy Avenue, Dundigal, Quthbullapur (M), Hyderabad – 500 043
Phone Nos: 08418 – 204066 / 204088, Fax : 08418 – 204088

ANNUAL REPORT 2019-20

MLR CIE Centre for Innovation & Entrepreneurship
Making Ideas Happen

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About Centre for Innovation and Entrepreneurship

MLR Institute of Technology has established a student support ecosystem called the "Centre for Innovation and Entrepreneurship" with the objective of promoting creativity, innovation and entrepreneurship among student community and academia. The Centre for Innovation and Entrepreneurship (CIE) is a catalyst for Academia, Research and Development Institutions, Business Schools, Industries and Financial institutions to create seed fund sources and promote student enterprises.

Scope

Centre for Innovation and Entrepreneurship (CIE) is dedicated to promote Creativity, Innovation and Entrepreneurship. It is a pedestal to help Knowledge driven enterprises to establish and prosper under organized guidance. Italso facilitates swift commercialization of a product based on sophisticated technology. The CIE aims to foster a vibrant ecosystem for the creation and growth of enterprises.

Centre for Innovation and Entrepreneurship

2019-2020 Activities

1	**Name of the Event**	Maker Space Acceleration Program On Artificial Intelligence and Machine Learning Phase - 1
	Duration	29/07/2019 – 02/08/2019
	Resource Persons	Mr. Sairam uppugundla, Founder & CEO at Codegnan IT Solutions OPC Pvt Ltd
	Audience	52
	Organizing Agency	Centre for Innovation and Entrepreneurship
	Venue:	Innovation Hub, MLR Institute of Technology, Hyderabad
	Objective:	The objective of this program is to make students 1. Understand python programming language andProgramming concepts of python. 2. Interfacing concepts of artificial intelligence and python programming. 3. Design of chatbot, real time examples for face recognition and face detection.
	Deliverables:	The deliverables of this wokshop are software programming techniques and installation using python software and it's usage in AI applications with authenticated explanations and real time examples and the implementation of real time artificial intelligence system such as chatbots, face recognition, building chatbot using python, etc
	Impact/Outcome:	Artificial intelligence is the simulation of human intelligent processes by machines. The students were able to develop the projects interfacing the concepts of python with artificial intelligence.


MAKERSPACE ACCELERATOR PROGRAM
Become a MAKER
Duration: 10 days
8 Days Bootcamp
1 day Ideathon
36 Hours Hackathon
Artificial Intelligence and Machine Learning
REGISTER NOW HURRY UP!
Register your slot at CIE Office.
For details, contact
Dates:
Slot-1: 12-08-2019 to 18-09-2019
Slot-2: 26-09-2019 to 28-09-2019
Dr. Mahendra, Head - CIE
Call : 7760-414-507
mlrit.madblocks.tech
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2	**Name of the Event**	24 hours Hackathon on "Intelligent Applications using Artificial Intelligence"
	Duration	03/08/2019 - 04/08/2019
	Resource Persons	Mr. Sairam uppugundla, Founder & CEO at Codegnan IT Solutions OPC Pvt Ltd
	Audience	45
	Organizing Agency	Centre for Innovation and Entrepreneurship
	Venue:	Innovation Hub, MLR Institute of Technology, Hyderabad
	Objective:	The objective of this program is to make students ,develop the projects applying the concepts of python programming and artificial intelligence
	Deliverables:	The deliverables of this program are real time application related python programming concepts and how to develop their respective codes
	Impact/Outcome:	Students were able to develop projects to overcome real time security issues and of artificial intelligence.

3	**Name of the Event**	Maker Space Acceleration Program on "Internet of Things" Phase - 1
	Duration	05/08/2019 - 09/08/2019
	Resource Persons	Madhu Parvathaneni, Founder – Madblock Pvt. Ltd, Hyderabad.
	Audience	32
	Organizing Agency	MLR Institute of Technology, Hyderabad.
	Venue:	Centre for Innovation and Entrepreneurship, MLRIT – Hyderabad.
	Objective:	The objective of this program is to make students gain hands-on experience on the concepts of Internet of things
	Deliverables:	The deliverables of this workshop are Insights about the IOT, concepts of Python Programming and Basic Electronics, IOT Dashboard - Cloud connectivity, Sensors and Cloud storage of the data, Cloud controlling.
	Impact/Outcome:	Students were able to understand how to connect with the IOT cloud, interact and exchange data between the IOT CLOUD and real world things.


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1 day Ideathon
36 Hours Hackathon
Technologies
1. Augmented Reality & Virtual Reality
2. Embedded Systems
3. Artificial Intelligence & Machine Learning
4. Internet Of Things
5. 3D Design,3D Printing, PCB Design And Robotics
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4	**Name of the Event**	24 hours Hackathon on "Sustainable systems for Smart Cities using Internet of Things
	Duration	10/08/2019 -11/08/2019
	Resource Persons	1. Madhu Parvathaneni, Founder – Madblock Pvt. Ltd, Hyderabad. **2.** Mr. Surya , Application Engineer – Madblock Pvt. Ltd, Hyderabad
	Audience	30
	Organizing Agency	MLR Institute of Technology, Hyderabad.
	Venue:	Centre for Innovation and Entrepreneurship, MLRIT – Hyderabad.
	Objective:	The objective of this program is to make students ,develop the projects applying the concepts of python programming and Internet of things
	Deliverables:	Sustainability seeks to protect our natural environment, human and ecological health, and to drive innovation while without compromising our way of life. It uses ICTs to improve people's quality of life, increase the efficiency of urban operations and services, and increase its competitiveness, all while ensuring that it satisfies the economic, social, environmental, and cultural needs of current and future generations. It ensures that all components of the city system are working together to benefit both the people and the environment.
	Impact/Outcome:	The students were able to develop automation related projects with sustainable systems for smart cities applying the concepts internet of things thus helped many students in learning and applying their knowledge practically.


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5	**Name of the Event**	Maker Space Acceleration Program on "Embedded Systems and Robotics"
	Duration	19/08/2019 - 23/08/2019
	Resource Persons	Mr. Surya , Application Engineer – Madblock Pvt. Ltd, Hyderabad
	Audience	32
	Organizing Agency	MLR Institute of Technology, Hyderabad.
	Venue:	Centre for Innovation and Entrepreneurship, MLRIT – Hyderabad.
	Objective:	The objective of this program is to make students , understand the concepts of embedded systems and robotics
	Deliverables:	The deliverables of this workshop are concepts of augmented reality and virtual reality, insights of embedded systems and robotics,3d design and printing and concepts of artificial intelligence and internet of things .
	Impact/Outcome:	The participants had learnt how to create and enhance an imaginary reality for gaming, entertainment, and play (Such as video and computer games, or 3D movies, head mounted display).


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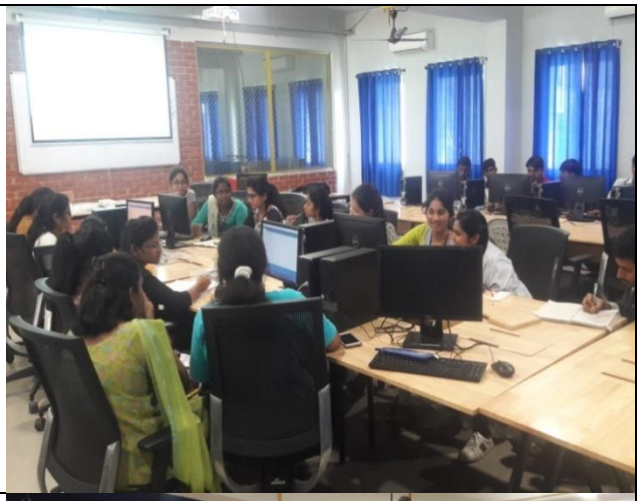


innovation


innovation

6	**Name of the Event**	24 hours Hackathon on "Embedded Systems for Electric Mobility"
	Duration	24/08/2019 - 25/08/2019
	Resource Persons	Mr. Surya, Application Engineer – Madblock Pvt. Ltd, Hyderabad.
	Audience	32
	Organizing Agency	MLR Institute of Technology, Hyderabad.
	Venue:	Centre for Innovation and Entrepreneurship, MLRIT – Hyderabad.
	Objective:	The objective of this program is to make students ,develop the projects applying the concepts of embedded systems for electric mobility
	Deliverables:	The deliverables of this hackathon are concepts of embedded systems, augmented reality and virtual reality and artificial intelligence
	Impact/Outcome:	The students were able to develop the projects using embedded systems and enhance training for real life environments by creating a simulation of reality where people can practice beforehand.


srushti
CENTRE FOR
INNOVATION &

7	**Name of the Event**	DISRUPT – Idea Triggering Game
	Duration	19-08-2019
	Resource Persons	Mr. Amith, Regional Manager, Wadwani Global University.
	Audience	80
	Organizing Agency	MLR Institute of Technology, Hyderabad.
	Venue:	Centre for Innovation and Entrepreneurship, MLRIT – Hyderabad.
	Objective:	The objective of this program is to motivate students to become entrepreneurs, the event helped them to ideate their own thoughts.
	Deliverables:	The deliverables of this program are brief introduction of Entrepreneurship, D.I.S.R.U.P.T. idea triggers**.**
	Impact/Outcome:	The students were able to develop their own productwith their ideas usingD.I.S.R.U.P.T. idea triggers and were more aware about entrepreneurship than before.


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JOIN THE ACTIVITY
D.I.S.R.U.P.T
IDEA TRIGGERING ACTIVITY
AUGUST 19TH 2019
₹50
ENTRY FEE
VENUE:-
CENTER FOR INNOVATION
& ENTREPRENEURSHIP
CONTACT :-8686131419

8	**Name of the Event**	"ENVENT - Unleash the Entrepreneurial Emotion"
	Duration	30-08-2019
	Resource Persons	Dr. P Chandra Shekhar, Director – Technique Design Group, Hyderabad. Mr. Ganesh Iyer, Mentor in Entreesphere, Hyderabad
	Audience	150
	Organizing Agency	MLR Institute of Technology, Hyderabad.
	Venue:	Centre for Innovation and Entrepreneurship, MLRIT – Hyderabad.
	Objective:	The objective of this program is to make students • To search for entrepreneurial and innovative ideas which can be incubated and seed funded. • To guide students to polish their raw idea. • To assess UVP(Unique Value Proposition) of their product.
	Deliverables:	The deliverables of this program are brief introduction of Entrepreneurship and to brief description on how to make the raw ideas in to the marketable product.
	Impact/Outcome:	The event was an eye opener to the students realizing entrepreneurial benefits and they were able to present their own proposals.


30 August 2019
Venue: CIE - MLRIT
UNLEASH THE ENTREPRENEURIE EMOTION
bit.ly/enventmlrit
Scan the QR Code
or
Use the above Link
Online Applications
NOW OPEN!
Last Date to Apply
29th August 2019
Presented by
&
COME PITCH YOUR IDEA
Round 1 : Online Appications
Round 2 : Top 40 Elevator Pitch
Round 3 : Top 20 Idea Pitch
Top 5 Winners & 5 Runner-ups
Idea Incubation and Seed-Funding upto 5 Lakh Rupees & many more!
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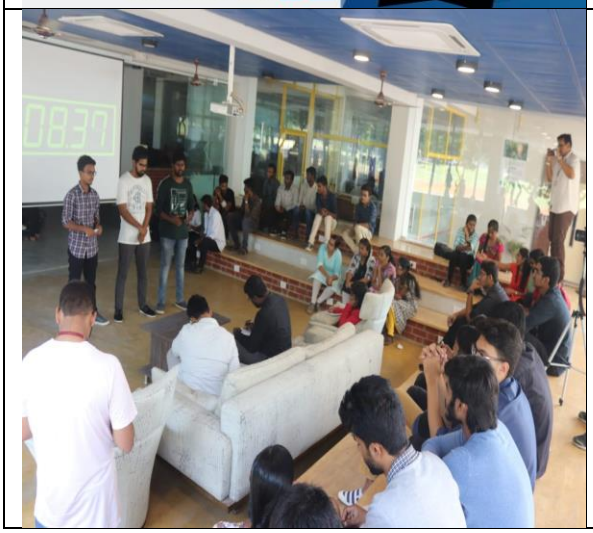

9	**Name of the Event**	WORKSHOP on DRONE DESIGN
	Duration	3-10-2019 TO 04-10-2019
	Resource Persons	1. Mr. Anil kumar, Assistant Professor, MLRIT, Hyderabad. 2. Mr.K.ShivaShankar,Assistant Professor, MLRIT, Hyderabad.
	Audience	65
	Organizing Agency	MLR Institute of Technology, Hyderabad.
	Venue:	Centre for Innovation and Entrepreneurship, MLRIT – Hyderabad.
	Objective:	The objective of this program is to make students capable enough fabricate and control the quadcopter for different applications.
	Deliverables:	The deliverables of this program are Introduction to the design and concepts of embedded systems behind quadcopter,working of various sensors and controllers,fabrication ,calibration and testing of quadcopter.
	Impact/Outcome:	The students were able to understand the concepts of electronic circuits of the quadcopter,design and control it.


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Institute of Aeronautics Astronautics & Aviation
MLR GIE
Centre for Innovation & Entrepreneu
DEPARTMENT OF AERONAUTICAL ENGINEERING
PRESENTS
WORKSHOP
ON
DRONE DESIGN
03rd-04th
OCTOBER
2019
VENUE :
MLR GIE
OBJECTIVE :
REGISTRATION
Fee : ₹200/- per student
Team Size : 5 persons
EACH TEAM SHOULD PURCHASE THE KIT
KIT COST EXTRA
NO REGISTRATIONS FEE FOR IAAA STUDENTS
RESOURCE PERSON :
MR.M.ANIL KUMAR (MECH DE
MR.SHIVA SHANKAR (AERO D
CONTACT :
K.MOUNIKA (9652263804)
MD.AZIZ (8464908949)
FACULTY CO-ORDINATOR:
MRS.A.UDAYA DEEPIKA
MOBILE : 9603924812
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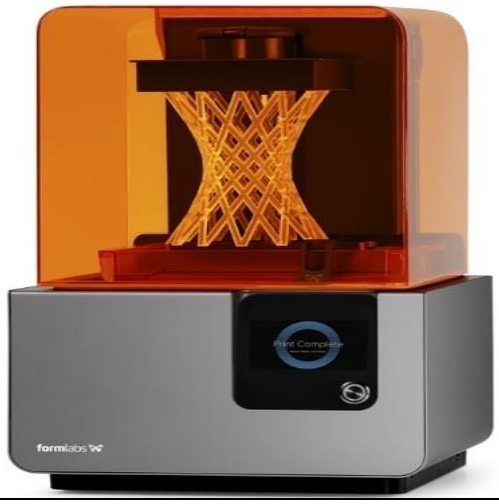
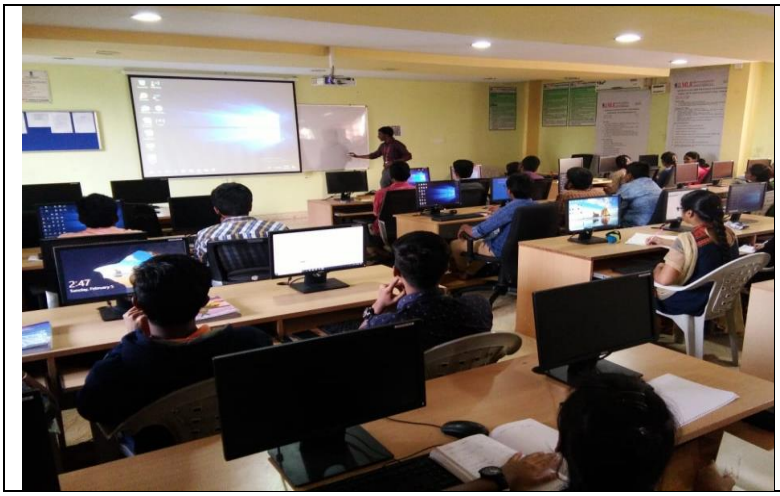
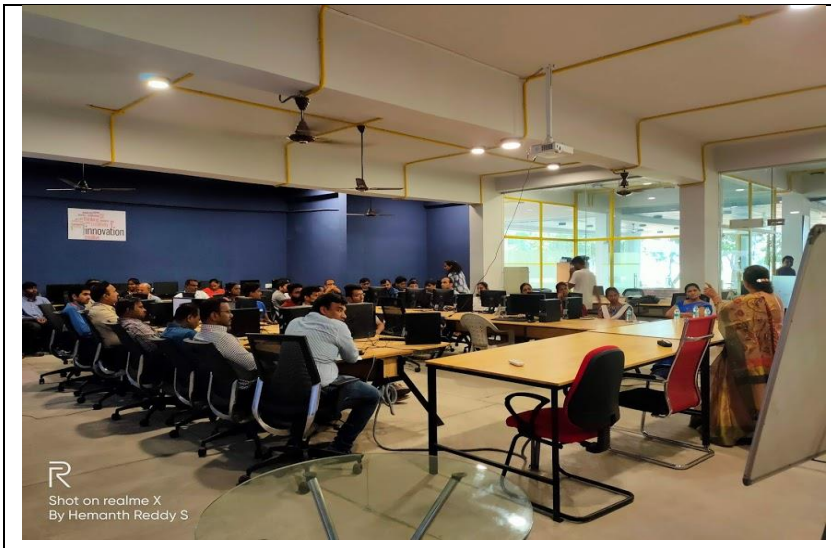
10	**Name of the Event**	WORKSHOP ON 3D DESIGN & PRINTING
	Duration	30-09-10 TO 01-10-2019
	Resource Persons	Dr. Anaz Khan, Associate Professor, MLRIT, Hyderabad.
	Audience	43
	Organizing Agency	MLR Institute of Technology, Hyderabad.
	Venue:	Centre for Innovation and Entrepreneurship, MLRIT – Hyderabad.
	Objective:	The objective of this program is to make students design the physical objects of their own choice by applying the concepts of 3d printing.
	Deliverables:	The deliverables of this program are exploring the concepts of fusion 360 software,Export and import functions
	Impact/Outcome:	3d printing also known as additive manufacturing requires software,hardware and materials to work together.Thus, students were able to understand the software and hardware requirements of 3d printing and were able to design various customized products .





11	**Name of the Event**	Samasya – Problem Identification and Analysis
	Duration	17/10/2019
	Resource Persons	Dr. Radhika Meenakshi, Founder of Wise Owl Consulting.
	Audience	26
	Organizing Agency	MLR Institute of Technology, Hyderabad.
	Venue:	Centre for Innovation and Entrepreneurship, MLRIT – Hyderabad.
	Objective:	The objective of this program is to make students how to look at problems from a different perspective and build up the Problem-solving abilities.
	Deliverables:	The deliverables of this program are problem analyzing skills and problem solving skills.
	Impact/Outcome:	Problem-solving allows us to detect and exploit opportunities in the environment, as well as exert (some) control over the future. Thusstudents were able to analyze the problems in a different way.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By Hemanth Reddy S


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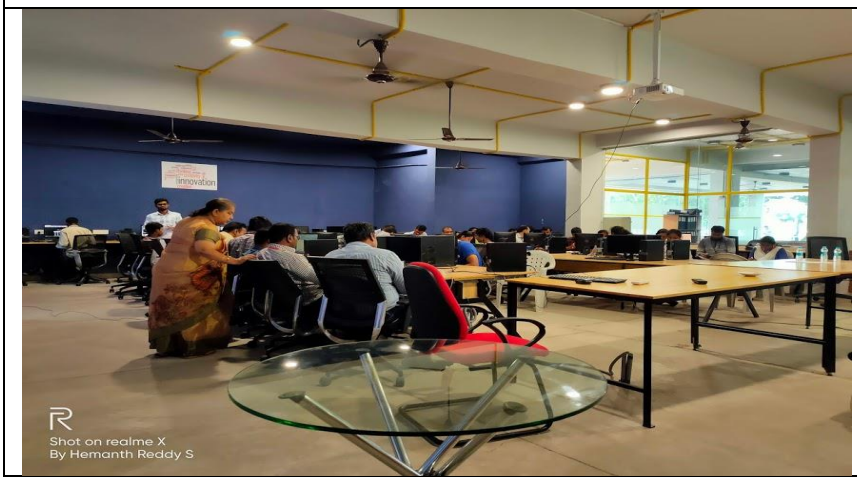
Innovation
Shot on realme X
By Hemanth Reddy S


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By Hemanth Reddy S

12	**Name of the Event**	Inventron2k19
	Duration	2-3 /11/2019
	Resource Persons	1. Mr. Pradeep Mittal, CEO of GreatFour Systems Inc. 2.Mr.Ankit Sharma,Senior Member Technicalof ADP 3.Mr.PrakashTripati ,Technical Head,Deloitte. 4. Madhu Parvathaneni, Founder – Madblock Pvt. Ltd, Hyderabad. 5.Mr.SairamUppugundia,Director of Codegnan IT Solutions.
	Audience	300
	Organizing Agency	MLR Institute of Technology, Hyderabad.
	Venue:	Centre for Innovation and Entrepreneurship, MLRIT – Hyderabad.
	Objective:	The objective of this program is to promote technology and to encourage the new aspirants who are zealous in innovation & entrepreneurship to exhibit their prowess by creating outrageous products that are helpful to omit societal concerns.
	Deliverables:	The deliverables of this program are concepts of Artificial Intelligence,Internet of things,Embedded Systems and Robotics,Entrepreneurship
	Impact/Outcome:	Hackathon's allow students to strengthen their soft skills such as communication, leadership, and teamwork, among others and were able to develop projects of their


MLR Centre for Innovation & Entrepreneurship
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(AUTONOMOUS)
(Affiliated to JNTU, Hyderabad and Approved by AICTE - New Delhi)
PRESENTS
INVENTRON
FORMULATE INFINITE POSSIBILITIES
NATIONAL LEVEL HACKATHON
2 NOV'19
36 Hours
VENUE :
Centre for Innovation & Entrepreneurship
MLR Institute of Technology Hyderabad
Scan To Register :-
IDEATE
INNOVATE
IMPLEMENT
THEMES:
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సాంకేతిక పరిజ్ఞానంతో నూతన ఆవిష్కరణలను రూపొందించాలి

13	**Name of the Event**	Start and Improve Your Business
	Duration	04/11/2019
	Resource Persons	1. Mr.Chatla Ravindra, Trainer of SIYB(ILO). 2. Mr.G.Krishna Sanyasi Rao,Trainer of SIYB(ILO).
	Audience	30
	Organizing Agency	MLR Institute of Technology, Hyderabad.
	Venue:	Centre for Innovation and Entrepreneurship, MLRIT – Hyderabad.
	Objective:	The objective of this program is to make the students to gain the knowledge of small-enterprise development.
	Deliverables:	The program provides individuals and institutions with a comprehensive set of materials, aimed at a variety of target groups. It deals with various topics related to small-enterprise development, such as training, business counselling, monitoring and evaluation and networking.
	Impact/Outcome:	Start and Improve your Business is a system of interrelated training packages and support materials for small-scale entrepreneurs with limited exposure to management training.Students were able to gain the knowledge of small scale entrepreneurship.

14	**Name of the Event**	One Dollar Venture
	Duration	13/11/2019
	Resource Persons	Student Council – Centre for Innovation and Entrepreneurship.
	Audience	60
	Organizing Agency	MLR Institute of Technology, Hyderabad.
	Venue:	Centre for Innovation and Entrepreneurship, MLRIT – Hyderabad.
	Objective:	The main objective of this program is to make students • How to think of profit-making ideas and making it a reality. • To Understand and apply the basics of entrepreneurship learnt in the classroom by running a venture. • To learn how to pitch a venture to customers.
	Deliverables:	This program intends to provide a trial for students on their future entrepreneur voyage and hands-on experience on raw materials sourcing, selling and marketing with limited initial investment and time. The participants were fellow NEN subject students who faced various challenges in their small venture such as time management, grasping customers and finance.
	Impact/Outcome:	This program has resulted in making students learn about the ups and downs of an actual business.


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BLAZE
ONE DOLLAR VENTURE
A real life entrepreneurial experience
Registration Link:
bit.ly/mlritnen
Hurry up last date for registrations
06/11/2019
VENUE: MLRIT-CIE
13TH NOV 2019
TIME
11:30AM - 1:30PM


LINKIN
PARK

15	**Name of the Event**	Interdepartmental Project Competition
	Duration	23/11/2019
	Resource Persons	1.Dr M Srinivas, BITS Pilani Hyderabad. 2.Dr. Anil kumar, IIIT Hyderabad
	Audience	120
	Organizing Agency	MLR Institute of Technology, Hyderabad.
	Venue:	Centre for Innovation and Entrepreneurship, MLRIT – Hyderabad.
	Objective:	The objective of this program is to create a healthy competition among the students and incubate their amazing ideas.
	Deliverables:	Faculty as mentors help students of their respective departments to develop the projects applying latest technologies related to their stream of engineering
	Impact/Outcome:	Students as a team collaborate among themselves and develop their own projectfocusing mainly on the societal needs.


MLR CIE Centre for Innovation & Entrepreneurship
INSTITUTION'S INNOVATION COUNCIL
INTERDEPARTMENTAL
PROJECT COMPETITION
on
23 November, 2019
Jury Members:
Dr. M Srininvas,
BITS Pilani, Hyderabad
Dr. Anil Kumar,
IIIT, Hyderabad
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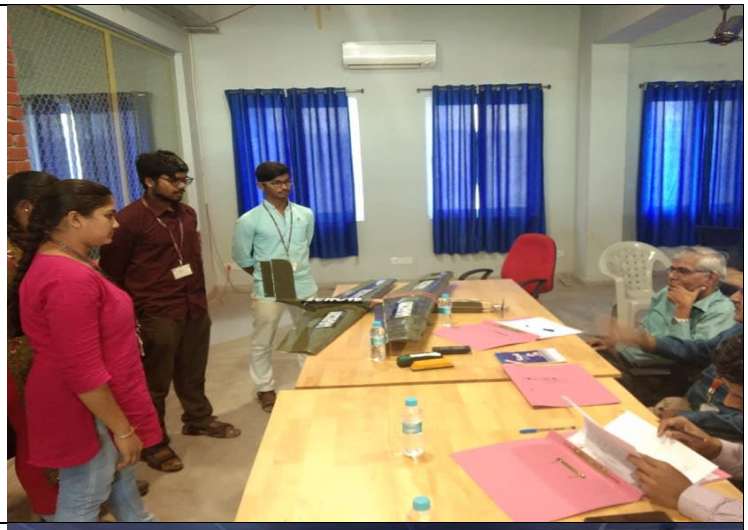

16	**Name of the Event**	Expert talk on Entrepreneurship
	Duration	20/11/2019
	Resource Persons	**Mr. Raj KishanGanta, Founder Way2world, 360 Startup Growth Connector**
	Audience	75
	Organizing Agency	MLR Institute of Technology, Hyderabad.
	Venue:	Centre for Innovation and Entrepreneurship, MLRIT – Hyderabad.
	Objective:	The objective of this program is to make students gain insights about the enterpreneurship
	Deliverables:	The expert has given a brief talk on the factors to be focused on for the overall development of a startup
	Impact/Outcome:	The students were able to gain the knowledge aboutthe startups.


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2019/11/20 13:57

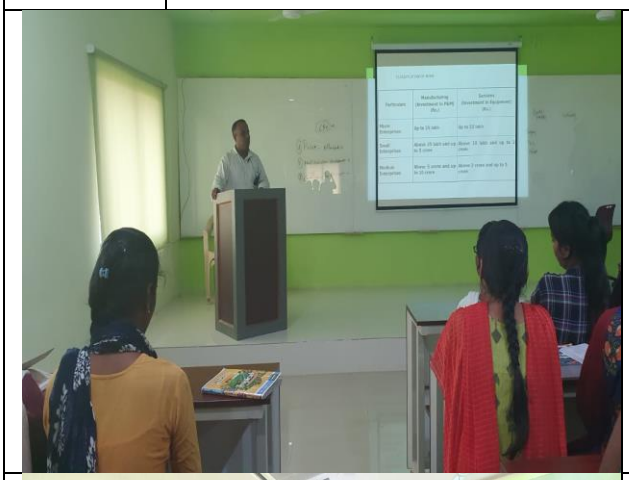
17	**Name of the Event**	Entrepreneurship Awareness Camp
	Duration	07-09/11/19
	Resource Persons	1. K.C. Choudary -Asst.Director-Ministry of MSME, Govt. of India. 2.K.Babu Rao- Sr.Engineer-MSME Tool Room(Govt. of India Society)
	Audience	30
	Organizing Agency	MLR Institute of Technology, Hyderabad.
	Venue:	Centre for Innovation and Entrepreneurship, MLRIT – Hyderabad.
	Objective:	The objective of this program is to make students get an exposure to business environment.
	Deliverables:	This program includes sessions on empowerment, business, exposure visits, and interaction with successful entrepreneurs, Government Officials and support agencies. Provides networking with support agencies and provision of escort services to the clients.
	Impact/Outcome:	The students were able to gain knowledge of business sector.


DEPARTMENT OF
SCIENCE & TECHNOLOGY
MLR CIE Centre for Innovation & Entrepreneurship
Entrepreneurship Development Institute of India
Three days
Entrepreneurship Awareness Camp
7 - 9 NOVEMBER 2019
Sponsored by:
Entrepreneurship Development Institute of India (EDII)
&
DST-NSTEDB (DST-NIMAT Project 2019-2020)
Govt. of India, New Delhi
BUSINESS
Idea
MLR INSTITUTE OF TECHNOLOGY
(UGC AUTONOMOUS)
Approved by AICTE, New Delhi and Affiliated to JNTU, Hyderabad.
NBA
NAAC

18	**Name of the Event**	Industrial Visit
	Duration	09/11/2019
	Resource Persons	1. Mr.Chatla Ravindra, Trainer of SIYB (ILO). 2. Mr. G.Krishna Sanyasi Rao, Trainer of SIYB (ILO).
	Audience	75
	Organizing Agency	MLR Institute of Technology, Hyderabad.
	Venue:	Forum Mall, Kukatpally, Hyderabad. Hindustan Coca-cola Beverages Private Limited, Miyapur,Hyderabad.
	Objective:	The objective of this visit is to make students gain an industrial exposure
	Deliverables:	The industry personhas took the students to various sections of the industry
	Impact/Outcome:	They have gained a real time experience of an industry


19	**Name of the Event**	Expert talk on Schemes for Startups
	Duration	22/11/2019
	Resource Persons	T. Vijaya kumar Manager – SIDBI, Hyderabad.
	Audience	75
	Organizing Agency	MLR Institute of Technology, Hyderabad.

	Venue:	Forum Mall, Kukatpally, Hyderabad. Hindustan Coca-cola Beverages Private Limited, Miyapur,Hyderabad.
	Objective:	The objective of this program is to make students gain insights about the schemes of entrepreneurship
	Deliverables:	The expert has given a brief talk on the various schemes for startups
	Impact/Outcome:	The students were able to gain the knowledge about the startups.



20	**Name of the Event**	36 Hours Hackathon on "AI for Agriculture
	Duration	2 – 3 January 2020
	Resource Persons	
	Audience	75
	Organizing Agency	J-Hub & MLRIT.
	Venue:	CIE, MLRIT
	Objective:	The objective of this program is to make students develop projects which can solve real-time problems in agriculture applying the concepts of Artificial intelligence
	Deliverables:	The deliverables are concepts of python programming employing artificial intelligence.
	Impact/Outcome:	This program has enabled the young minds to learn and implement their skills in a way to help farmers , which got amazing response from the students.


MLR CIE
Centre for Innovation & Entrepreneurship
HUB
36 HOURS HACAKTHON
NO REGISTRATION FEE
Scan to register
bit.do/ai4agri
Win Exciting Prizes
Bootcamp on AI Technologies on 2nd January
3-4th January 2020
THEME:
ARTIFICIAL INTELLIGENCE FOR AGRICULTURE
Last date for registration: 30 DEC 2019
ELIGIBILITY:
ANY UNDERGRADUATE STUDENT
3-5 MEMBERS PER TEAM
VENUE
CONTACT US:
HEMANTH(9441807655)
SHIVA (6300540086)
MLR INSTITUTE OF TECHNOLOGY
(AUTONOMOUS)
(Affiliated to JNTU, Hyderabad and Approved by AICTE - New Delhi)

21	**Name of the Event**	National Science Fair
	Duration	28 February 2020
	Resource Persons	
	Audience	
	Organizing Agency	**CIE**
	Venue:	MLRIT
	Objective:	The objective of this program is to make students employ the scientific method to develop and test a hypothesis.
	Deliverables:	The deliverables are latest technical concepts of various streams of engineering.
	Impact/Outcome:	The students have developed various working models employing latest technologies and have presented them

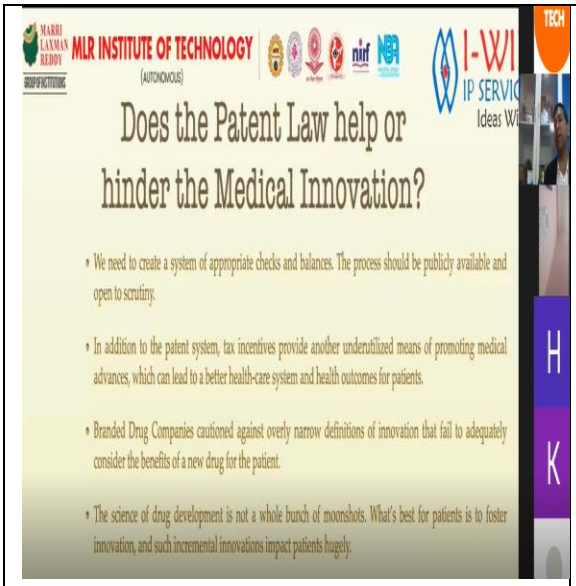
22	**Name of the Event**	IIC MHRD Ambassadors Training Series
	Duration	6 – 7 February 2020
	Resource Persons	Dr. Dipan Sahu
	Audience	450
	Organizing Agency	MHRD Innovation Cell
	Venue:	Centre for Innovation and Entrepreneurship
	Objective:	The objective of this program is to make the faculty from various institutes of Telangana and Andhrapradesh to get expertise in various concepts of innovation
	Deliverables:	The deliverables are concepts of Innovation and design thinking ,entrepreneurship,startups and

		Intellectual property rights
	Impact/Outcome:	The faculty has gained insights on the various concepts of innovation.

23	**Name of the Event**	IIC Leadership Talk
	Duration	
	Resource Persons	
	Audience	
	Organizing Agency	**CIE**
	Venue:	MLRIT
	Objective:	The objective of this program is to

		make the participants gain the knowledge on “procedures for filing various kinds of patents “
	Deliverables:	The deliverables for this program are Insights of different kinds of patents Patents,Design Patents,Trademark Patents,Brand Patents
	Impact/Outcome:	The participants were confident enough of filing the patents of their respective stream of engineering**.**

24	**Name of the Event**	Patent Law with Specific Focus on COVID-19
	Duration	11 June 2020
	Resource Persons	Mr.M Vijay Kumar, Registered Patent and Trademark Agent
	Audience	67
	Organizing Agency	Centre for Innovation and Entrepreneurship, MLR Institute of Technology, Hyderabad.
	Venue:	Online
	Objective:	The objective of this program is to engage in collaborative computer programming and lead to development in Vedio Games.
	Deliverables:	The deliverables of this program are programming concepts of gaming and insights about various softwares used for gaming
	Impact/Outcome:	The students were able to develop their own games applying the programming concepts of gaming


MLR INSTITUTE OF TECHNOLOGY
(AUTONOMOUS)
Does the Patent Law help or hinder the Medical Innovation?
• We need to create a system of appropriate checks and balances. The process should be publicly available and open to scrutiny.
• In addition to the patent system, tax incentives provide another underutilized means of promoting medical advances, which can lead to a better health-care system and health outcomes for patients.
• Branded Drug Companies cautioned against overly narrow definitions of innovation that fail to adequately consider the benefits of a new drug for the patient.
• The science of drug development is not a whole bunch of moonshots. What's best for patients is to foster innovation, and such incremental innovations impact patients hugely.
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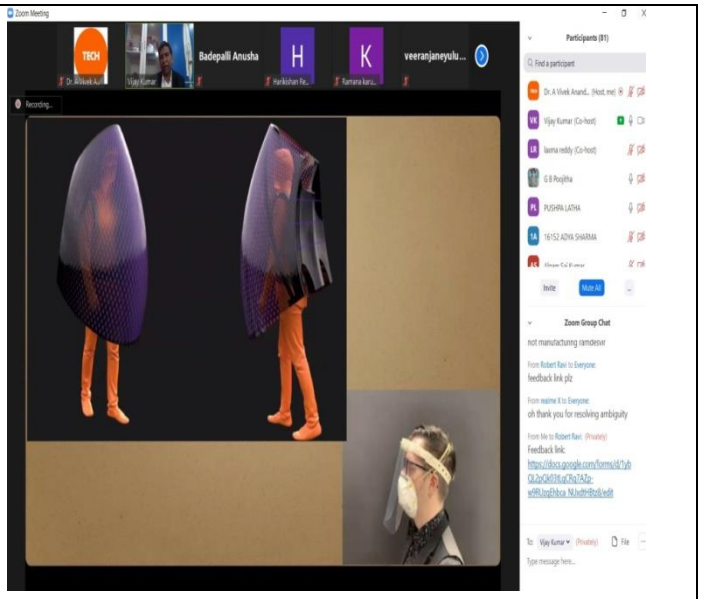
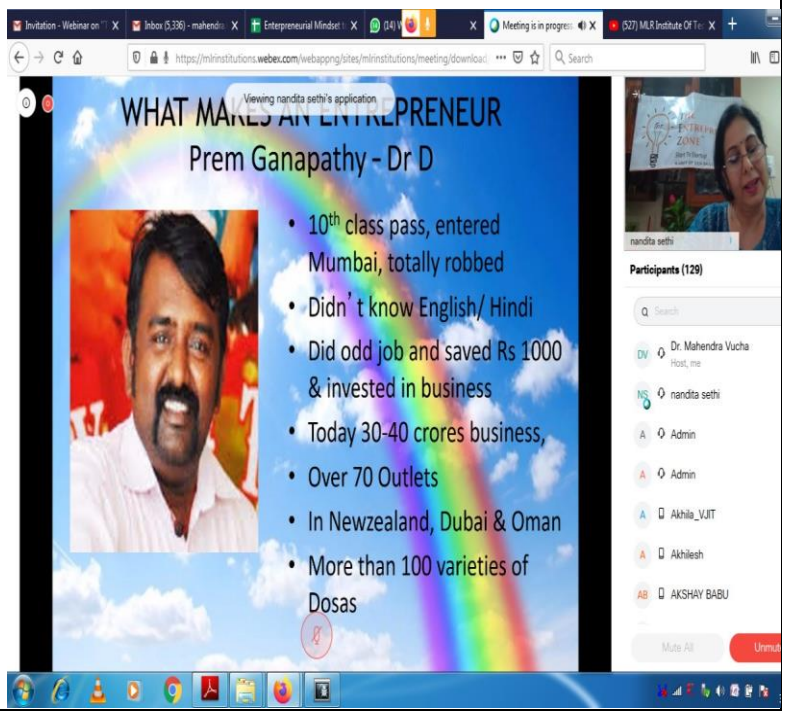
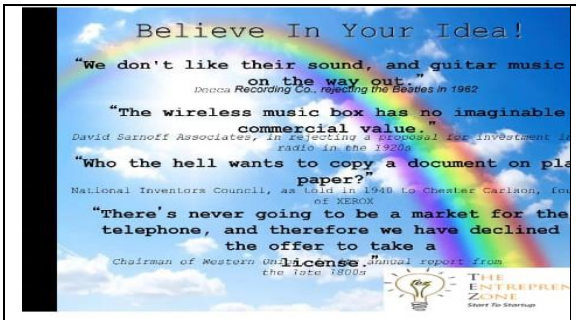
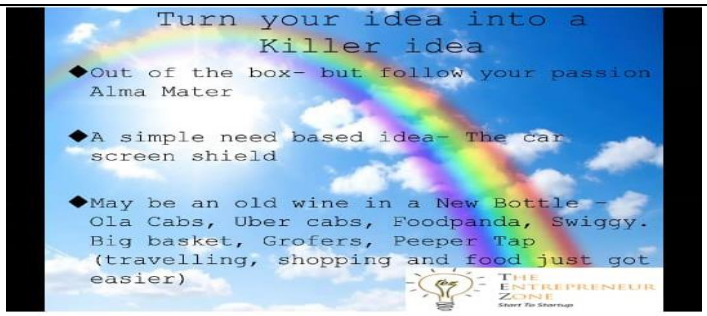

Zoom Meeting
Badepalli Anusha
veeranjaneyulu...
Participants (81)
Zoom Group Chat
feedback link plz
oh thank you for resolving ambiguity

25	**Name of the Event**	The Entrepreneurs Mindset for Startups
	Duration	30 June 2020
	Resource Persons	Dr. Nandita Sethi
	Audience	152
	Organizing Agency	Centre for Innovation and Entrepreneurship, MLR Institute of Technology, Hyderabad.
	Venue:	Online
	Objective:	The objective of this program is to make the participants to gain awareness about startups.
	Deliverables:	The deliverables are concepts of Innovation, entrepreneurship and leadership qualities
	Impact/Outcome:	The faculty has known the importance of leadership qualities and its role in the field of entrepreneurship




Believe In Your Idea!
"We don't like their sound, and guitar music on the way out."
Decca Recording Co. rejecting the Beatles in 1962
"The wireless music box has no imaginable commercial value."
David Sarnoff Associates, in rejecting a proposal for investment in radio in the 1920s
"Who the hell wants to copy a document on pla paper?"
National Inventors Council, as told in 1940 to Chester Carlson, for of XEROX
"There's never going to be a market for the telephone, and therefore we have declined the offer to take a license."
Chairman of Western Union's internal memo, Annual report from the late 1800s
THE ENTREPRENEUR ZONE
Start To Startup

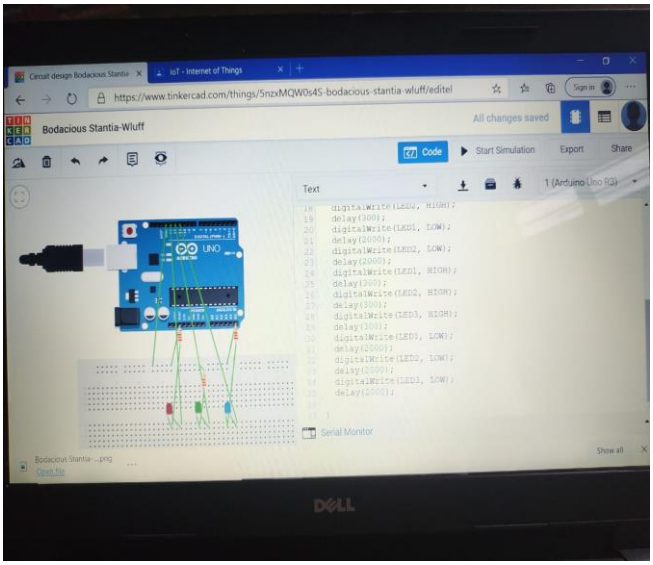

Turn your idea into a Killer idea
◆Out of the box- but follow your passion Alma Mater
◆A simple need based idea- The car screen shield
◆May be an old wine in a New Bottle - Ola Cabs, Uber cabs, Foodpanda, Swiggy. Big basket, Grofers, Peeper Tap (travelling, shopping and food just got easier)
THE ENTREPRENEUR ZONE
Start To Startup


THE ENTREPRENEUR ZONE
Start To Startup
nandita sethi

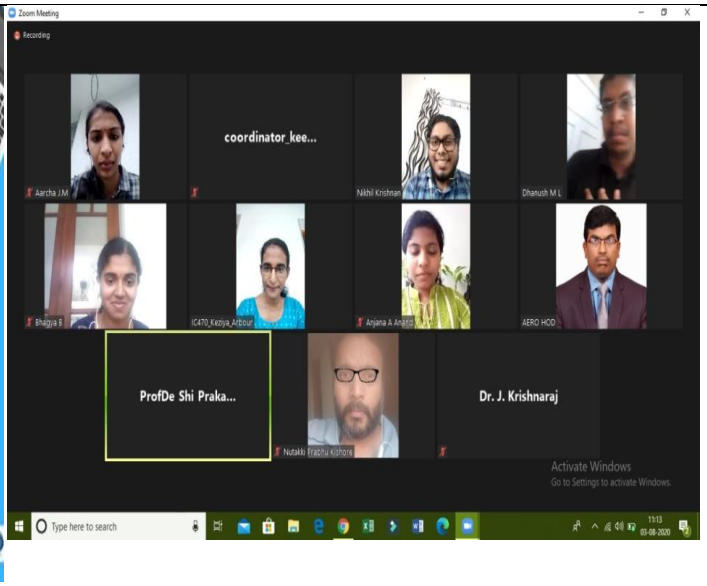

THE ENTREPRENEUR ZONE
Start To Startup
nandita sethi

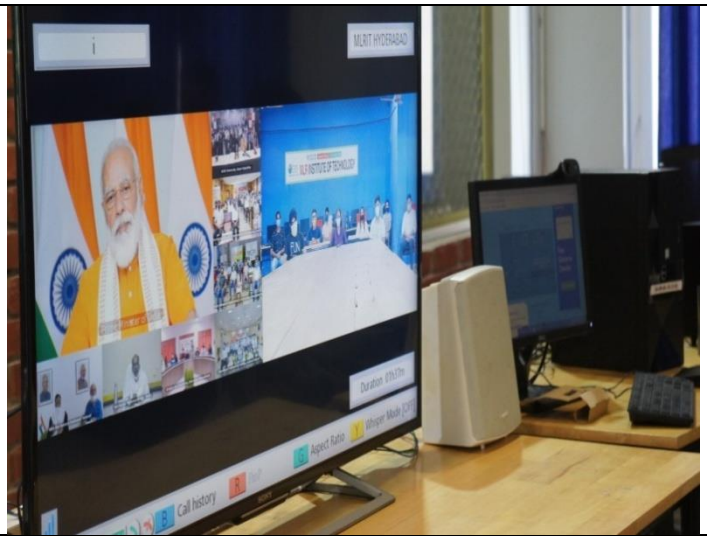
26	**Name of the Event**	Virtual Training on IoT
	Duration	20 – 23 July 2020
	Resource Persons	Dr. Mahendra V Head - Centre for Innovation and Entrepreneurship, MLR Institute of Technology, Hyderabad.
	Audience	
	Organizing Agency	Centre for Innovation and Entrepreneurship, MLR Institute of Technology, Hyderabad.
	Venue:	Online
	Objective:	The objective of this program is to make the participants gain the knowledge on "procedures for filing various kinds of patents with special focus on covid-19 law "
	Deliverables:	The deliverables for this program are Insights of patent law and various kinds of patents in brief.
	Impact/Outcome:	The participants were confident enough of filing the patents of their respective stream of engineering**.**


MARRI LAXMAN REDDY GROUP OF INSTITUTIONS
INSTITUTION'S INNOVATION COUNCIL
MLR Centre for Innovation & Entrepreneurship
Presents
Virtual Training on Internet of Things (IOT)
Target Audience
B.Tech Aspirants
10+2 (Intermediate Completed)
Day 1
Society Impact & Getting Started with IOT
Day 2
Interfacing of Sensors and Actuators
Day 3
IOT Devices and Interfacing with Sensors
Day 4
Hands on Practice of IOT Use Cases
E-Certificate will be issued to Participants
Attractive prizes of worth 5000/- for building IOT use Cases
Faculty Coordinator
A Shubhangi Rao - 9999361318
Student Coordinator
Phani - 8186953816
Nishanth - 9618321842
Date: 20-23 july 2
(03:00 PM - 05:0
Registration Link
https://bit.ly/20e05jf
POWERED BY
MLR INSTITUTE OF TECHNOLOGY
Autonomous, Approved by AICTE, Accredited by NBA and NAAC, NIRF
MARRI LAXMAN RED
INSTITUTE OF TECHNOLOGY AND MANAGE
Autonomous, Accredited by NBA and NAAC, AICTE


https://www.tinkercad.com/things/5nzxMQW0s4S-bodacious-stantia-wluff/editel
Bodacious Stantia-Wluff
All changes saved
Code
Start Simulation
Export
Share
Text
UNO
Serial Monitor
DELL

27	**Name of the Event**	Software India Hackathon – 2020 Software Edition Grand Finale
	Duration	1 – 3 August 2020
	Resource Persons	Mrs. Shanmugam,
	Audience	120
	Organizing Agency	MHRD Innovation Cell, India
	Venue:	Centre for Innovation and Entrepreneurship
	Objective:	The objective of this program is to make students gain insights about the entrepreneurship and how should they prepare their mindset before setting up a business.
	Deliverables:	The expert has given a brief talk on the factors to be focused on for the overall development of a startup
	Impact/Outcome:	The students were able to gain the knowledge about the various factors to be focused about the startups.



 MLR INSTITUTE OF TECHNOLOGY	 MLRIT HYDERABAD Call history Aspect Ratio

RTUPS @ MLRIT

S. No.	Financial Year	Name of Start-up	Name of the Co-Founders
1	2016-17	Shopping Mall Era	S.Manaswini Reddy, P.Sindhu,V.SaiRashmitha,N.Sowmya,M.Bharath
2	2016-17	Technoshala	K.Manasa, N.Sriharsha,DikshaSingh,VishalPunzuri
3	2016-17	Kisan Express	M.Rajeev Reddy, SrihasLanka,Sai Hari Adabala,A.MaruthiPhanidra
4	2016-17	Visitoria	M.Tejashree Bhagya Sarvani, G.Prathyusha,M.SaiSudeepthi,SwathiThummu
5	2016-17	Services 365	T.Shivanand, ShanmukhiMahankali,T.Shandilya Kumar
6	2016-17	Career Hub	AbhilasDhumala, Raj Kumar Maddoju,G.NagarjunaReddy,G.Swaroop Reddy
7	2018-19	Landbots	Kushal Kumar Desavathi, Hardhik Ganesh Lambat, Ganesh Motilal Nyaupane, Ranjith Kumar Bommina, Ramu Neel Nishant Thiruranthakam
8	2018-19	Garnai Robots	Vamsi Tummala, Aneela Reddy Thota, NikithaSomishetty
9	2018-19	Farmers Ally	SamyuktaGurram, SravyaNichanamepla, Rachana Panja, Nageena Shaik, Akhil Bikki
10	2018-19	Neww Tech	Venkata Sai Chaitanya, Sree Nidhi Thimmapuram, Satya HardhavcardhanVasamsetti, Hemanth Reddy Boreddy, Keshava Rao TarunMailarum
11	2018-19	Snap D Solutions	Balla. Anil Kumar, A. Sai Pranavi, Garnepudi Swetha, Muddula. Nikhil Kumar Reddy

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GOVERNMENT OF TELANGANA TS08AA 74925674

REGISTRATION AND STAMPS DEPARTMENT

THE REGISTRAR OF FIRMS
Ranga Reddy

Acknowledgement of Registration of Firm

The Registrar of Firms, Ranga Reddy hereby acknowledges the receipt of the statement prescribed by section 58(1) of the Indian Partnership Act. 1932.

The statement has been filed and the name of the firm SHOPPING MALL ERA , Sy No-444/ Kmr Educational Society/ Dundigal/ Quthbullapur/ Rangareddy/ Telangana/ India/ has been entered in the Register of Firms as [No : 3193 of 2016] at Ranga Reddy.

SEAL OF REGISTRAR OF FIRMS
Ranga Reddy District TELANGANA

Ranga Reddy

P.S.R

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Date : 20/08/2016

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Date: 2016.08.20 14:39:08 IST

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TS00AA 74925606

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The Registrar of Firms, Ranga Reddy hereby acknowledges the receipt of the statement prescribed by section 58(1) of the Indian Partnership Act. 1932.

The statement has been filed and the name of the firm TECHNOSHALA , Sy No-444/ Kmr Educational Society/ Dundigal/ Quthbullapur/ Rangareddy/ Telangana/ India/ has been entered in the Register of Firms as [No : 3185 of 2016] at Ranga Reddy.

SEAL OF REGISTRAR OF FIRMS
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The statement has been filed and the name of the firm KISAN EXPRESS , Sy No 444/ Kmr Educational Society/ Dundigal/ Quthbullapur/ Rangareddy/ Telangana/ India/ has been entered in the Register of Firms as [No : 3198 of 2016] at Ranga Reddy.

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The statement has been filed and the name of the firm VISITORIA , Sy No-444/ Kmr Educational Society/ Dundigal/ Quthbullapur/ Rangareddy/ Telangana/ India/ has been entered in the Register of Firms as [No : 3180 of 2016] at Ranga Reddy.

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Date: 2016.08.19 12:57:56 IST

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TS00AA 74925595

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The Registrar of Firms, Ranga Reddy hereby acknowledges the receipt of the statement prescribed by section 58(1) of the Indian Partnership Act. 1932.

The statement has been filed and the name of the firm SERVICES 365 , Sy No 444/ Kmr Educational Society/ Dundigal/ Quthbullapur/ Rangareddy/ Telangana/ India/ has been entered in the Register of Firms as [No : 3181 of 2016] at Ranga Reddy.

SEAL OF REGISTRAR OF FIRMS
Ranga Reddy District TELANGANA

Ranga Reddy

P.S.R

REGISTRAR OF FIRMS

Date : 19/08/2016

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Date: 2016.08.19 13:01:49 IST

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GOVERNMENT OF TELANGANA TSAAA 74925685

REGISTRATION AND STAMPS DEPARTMENT

THE REGISTRAR OF FIRMS
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The Registrar of Firms, Ranga Reddy hereby acknowledges the receipt of the statement prescribed by section 58(1) of the Indian Partnership Act. 1932.

The statement has been filed and the name of the firm CAREER HUB , Sy No-444/ Kmr Educational Society/ Dundigal/ Quthbullapur/ Rangareddy/ Telangana/ India/ has been entered in the Register of Firms as [No : 3192 of 2016] at Ranga Reddy.

SEAL OF REGISTRAR OF FIRMS
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Ranga Reddy

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Date : 20/08/2016

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Date: 2016.08.20 13:53:41 IST

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GOVERNMENT OF TELANGANA

REGISTRATION AND STAMPS DEPARTMENT

TSVSAA 51844443

THE REGISTRAR OF FIRMS

Medchal - Malkajgiri

Acknowledgement of Registration of Firm

The Registrar of Firms, Medchal - Malkajgiri hereby acknowledges the receipt of the statement prescribed by section 58(1) of the Indian Partnership Act. 1932.

The statement has been filed and the name of the firm LANDBOTS , Hno-15-10 Room No-ak-109/ Mlr Institute Of Technology/ Dundigal/ Qutballapur/ Medchel/ Telangana/ India/ has been entered in the Register of Firms as [No : 4721 of 2018] at Medchal - Malkajgiri.

SEAL OF REGISTRAR OF FIRMS
Medchal - Malkajgiri
District
TELANGANA

REGISTRAR OF FIRMS

Medchal - Malkajgiri

Date : 03/12/2018

Signature valid

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Date: 2018.12.03 11:19:19 IST

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GOVERNMENT OF TELANGANA

REGISTRATION AND STAMPS DEPARTMENT

TSVSAA 51844421

THE REGISTRAR OF FIRMS

Medchal - Malkajgiri

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The Registrar of Firms, Medchal - Malkajgiri hereby acknowledges the receipt of the statement prescribed by section 58(1) of the Indian Partnership Act. 1932.

The statement has been filed and the name of the firm GARNAI ROBOTS , H No-15-10 Room No-sr-108/ MIr Institute Of Technology/ Dundigal/ Qutballapur/ Medchel/ Telangana/ India/ has been entered in the Register of Firms as [No : 4724 of 2018] at Medchal - Malkajgiri.

SEAL OF REGISTRAR OF FIRMS
Medchal - Malkajgiri District TELANGANA

Medchal - Malkajgiri

REGISTRAR OF FIRMS

Date : 03/12/2018

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THE REGISTRAR OF FIRMS
Ranga Reddy

Acknowledgement of Registration of Firm

The Registrar of Firms, Ranga Reddy hereby acknowledges the receipt of the statement prescribed by section 58(1) of the Indian Partnership Act. 1932.

The statement has been filed and the name of the firm SERVICES 365 , Sy No 444/ Kmr Educational Society/ Dundigal/ Quthbullapur/ Rangareddy/ Telangana/ India/ has been entered in the Register of Firms as [No : 3181 of 2016] at Ranga Reddy.

SEAL OF REGISTRAR OF FIRMS
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Date : 19/08/2016

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Date: 2016.08.19 13:01:49 IST

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GOVERNMENT OF TELANGANA

REGISTRATION AND STAMPS DEPARTMENT

TSVSAA 51844432

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Medchal - Malkajgiri

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The Registrar of Firms, Medchal - Malkajgiri hereby acknowledges the receipt of the statement prescribed by section 58(1) of the Indian Partnership Act. 1932.

The statement has been filed and the name of the firm FARMERS ALLY , Hno-15-10 Room No-mt-001/ Mlr Institute Of Technology/ Dundigal/ Qutballapur/ Medchel/ Telangana/ India/ has been entered in the Register of Firms as [No : 4722 of 2018] at Medchal - Malkajgiri.

SEAL OF REGISTRAR OF FIRMS
Medchal - Malkajgiri District
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Medchal - Malkajgiri

Date : 03/12/2018

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Date: 2018.12.03 11:21:47 IST

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REGISTRATION AND STAMPS DEPARTMENT

TSVSAA 51844443

THE REGISTRAR OF FIRMS

Medchal - Malkajgiri

Acknowledgement of Registration of Firm

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The statement has been filed and the name of the firm LANDBOTS , Hno-15-10 Room No-ak-109/ Mlr Institute Of Technology/ Dundigal/ Qutballapur/ Medchel/ Telangana/ India/ has been entered in the Register of Firms as [No : 4721 of 2018] at Medchal - Malkajgiri.

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Medchal - Malkajgiri
District
TELANGANA

REGISTRAR OF FIRMS

Medchal - Malkajgiri

Date : 03/12/2018

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TSVSAA 60384677

THE REGISTRAR OF FIRMS

Medchal - Malkajgiri

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The Registrar of Firms, Medchal - Malkajgiri hereby acknowledges the receipt of the statement prescribed by section 58(1) of the Indian Partnership Act. 1932.

The statement has been filed and the name of the firm SNAP D SOLUTIONS , H No-15-10 Room No-jc-307/ MIr Institute Of Technology/ Dundigal Quthbullapur Mandal/ Qutballapur/ Medchel/ Telangana/ India/ has been entered in the Register of Firms as [No : 256 of 2019] at Medchal - Malkajgiri.

SEAL OF REGISTRAR OF FIRMS
Medchal - Malkajgiri
District
TELANGANA

Medchal - Malkajgiri

REGISTRAR OF FIRMS

Date : 21/01/2019

Signature valid

Digitally signed by
VEMKAT R[illegible]ESH
RE[illegible]INENI
Date:[illegible].01.21
13:12:4[illegible]IST

MEE SEVA MEE SEVA

Products Developed

S. No	Product Name	Student Name	BRANCH
1	Solar Powered Cam And Follower Impact Paper Plate Making Machine	Lakkakula.Rambabu (16R21A0390) Mohammad Nawaz Ahmed Shareef (17R25A0347) Immadi Anjani (16R21A03C4) Kasireddy.Praneeth REDDY (16R21A0387) Mulk Raj Dwivedi (16R21A03D7)	MECH
2	Khoa Making Machine With Stationary Drum and Inverted Stirring Mechanism	D. Sai Pavan (17R21A0374) G. Harshavardhan Reddy (17R21A0378)	MECH
3	Manual Paper Plate Making Machine Using Scotch-Yoke Mechanism	K.Sri Krishna Karthik (18R25A0316) K. Prakash Raju (18R25A0319) M. Arun Kumar (18R25A0323)	MECH
4	Customizable Khoa Making Machine With Variable Vessel And Fuel Usage	P. Dileep Sai (18R25A0326) R. Venkat (18R25A0330) Venkata Karthik.G (17R21A03H8) K. Shivayan (17R21A03H2) Md. Salman Pasha (17R21A03F8)	MECH
5	Automatic Flower Stitching Machine	G.V.S.Bhanudeep (18R21A2176) G.BalaBhanuprakash (18R21A2178) G.Sravan Kumar (18R21A2173) B.Venu Baba (18R21A2166) G.Sohan Raju (18R21A2177) V.Ashritha (18R21A21A9)	Aero
6	Solar Powered Sugarcane Juicer With Level Gear Mechanism	L. Sai Ram (17R21A2185) K.S. Bhavan (17R21A2181) T. Akhilesh (17R21A21B1) Ch. Deepthisree (17R21A2117) S. Sudha (17R21A21A3) M. Udaya Sree (17R21A286)	Aero
7	Hydraulic Baling Machine Using Solar Energy	Vishal Kanhaiya (16R21A03B1) E.Kranthi (16R21A0376) Vijay Ganesh Brhs (16R21A0364) A.Venkata Karthik (16R21A0362)	MECH

		V.Muralidhar Sai (16R21A03A9)	
8	Pepper Processing Machine	G.Leeladhar Reddy (17R25A0336) K.Arun Kumar (17R25A0341) K.Mohan Baba (17R25A0342) P.B.R.Pratap Singh (17R25A0350) S.Rishi Kumar (17R25A0355)	MECH

1. PAPER PLATE MAKING MACHINE

Micro scale paper plate making is a huge industry and there are various types of paper plate making machines for a variety of different types plates, and production scales. This could be ascribed towards the high and differing energy consumption for the differing machines, plate types and quantities. Can the high pressure and heat technology behind paper plate making be rethought, so that the energy costs could be brought down and the reliability on mains electricity increased?

STEPS INVOLVED IN EXISTNG MANUFACTURING PAPER PLATE:

In general, the steps involved in making paper plates are as follows.

1. The paper sheet is cut into two square pieces of suitable size
2. The pieces are cut into circles by a circular blade
3. The circles are then heat-pressed with molds/dies to make the plates

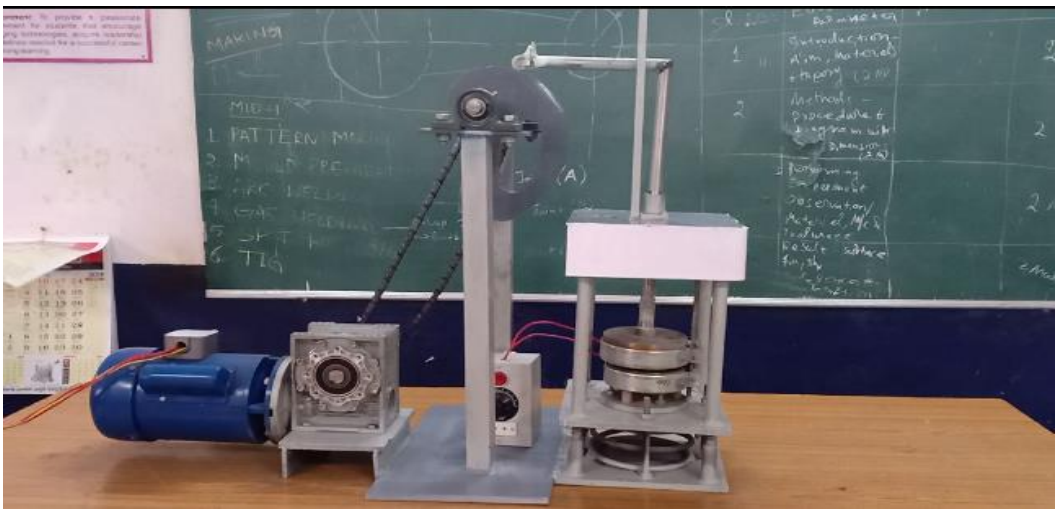
Majority of energy/effort is needed for the third step – heat-pressing the paper.

PROBLEMS TO BE CONSIDERED IN MANUFACTURING PROCESS:

1. How to improve the present high pressure and heat technology to make it more energy-efficient while also reducing manual labor?
2. Modification of machines so that at least part of the energy requirement is satisfied through renewable energy sources like solar energy?
3. How to make these machines cost-effective?

CONCEPT OF THE PROPOSED WORK:

Usually the present existing machines uses hydraulic power as their working force (or) load for giving the shape to the paper. We came up with an idea of using cam and follower mechanism as the mode of transmission of force (or) load. It will reduce the cost of the machine as there is no hydraulic power used and this is a solar powered machine, so, there is no need of electric power and the maintenance cost will also be going down.



PROPOSED PAPER PLATE MACHINE

WORKING PRINCIPLE OF PROPOSED MACHINE:

The solar energy is stored in a battery taken from the solar panel which will be giving power supply to motor and the motor will be supplying power to cam shaft. Due to the shape of cam, the follower will be reciprocating, that will in-turn make the upper die free fall on the lower die and the paper plate making process is completed.

WORKING PICTURES IN PRODUCTION LAB:


2. KHOA MAKING MACHINE WITH INVERTED STIRRING MECHANISM

Khoa is a traditional dairy product, which is produced in India by both organized and unorganized sector. It is the base for various traditional sweets manufactured in India. In India khoa is traditionally manufactured by continuous boiling of milk in a shallow iron or stainless steel vessel to remove moisture and the process continues till the total solid level is attained in the range of 65 to 72%. Khoa contain 75-80% moisture, 25-37% fat, 17 -20% protein, 22-25% lactose, and 3.6-3.8% ash. The milk is subjected to high heat temperature during the manufacture of khoa that initiates number of physico-chemical changes resulting in characteristics sensory, textural and structural properties in khoa. The continuous heating will reduce water activity, inactivates various milk enzymes and destroy pathogenic and spoilage microorganisms apart from development of desirable flavors and texture. The heating process promotes the denaturation and coagulation of milk proteins and the process is more rapid due to frothing and incorporation of air by continuous stirring. The disruption of fat globule membrane and subsequent release of free fat that account for 44.8-62.8 percent of total fat in khoa occurs due to vigorous agitation during heating process of milk.

EXISTING MANUFACTURING METHODOLOGY

Khoa is generally manufactured in jacketed kettles, which has several disadvantages like poor and inconsistent quality and limited shelf life of about 5 days at 30°C.Most attempts made for up-gradation of the technology of khoa are directed towards mechanization of the process and developing continuous khoa making plants has developed mechanized conical process vat for preparation of khoa. It consists of a stainless steel conical vat with a cone angle of 60° and steam-jacket partitioned into 4-segments for efficient use of thermal energy and less heat loss. Due its batch type of operation, it is suitable only for making limited quantities of the product.

STEPS INVOLVED IN EXISTNG MANUFACTURING PAPER PLATE

In general, the steps involved in making paper plates are as follows.

1. Simmering full-fat milk in a large, shallow iron pan for several hours over a medium fire.

2. Gradual evaporation of water content until milk solidifies.

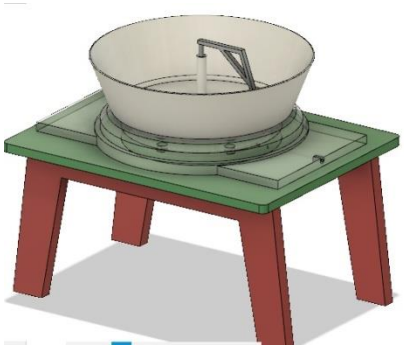
DRAWBACKS OF THE EXISTING MACHINES

The manual and semi-automatic machines uses rotating drum mechanism where the drum carrying the Khoa rotates and the stirrer remains stationary. This model demands higher power requirement to propel the drum along with the weight the milk.

WORKING PRINCIPLE OF PROPOSED MACHINE

Compared to the existing models, the proposed model has a modified stirring mechanism. The spindle of the stirrer is perpendicular to the drum. The stirrer is bolted to the spindle and can be removed easily to make this machine more users friendly. The drum size can be varied easily making it convenient to wide range of consumers ranging from small scale industry to large scale producers. The drum is designed to be stationary whereas as existing

models use rotating drums. This reduces the load requirements and minimizes the dynamic loading conditions. The stirrer requires very minimal power and torque requirement. A 0.5hp motor is sufficient for this purpose.



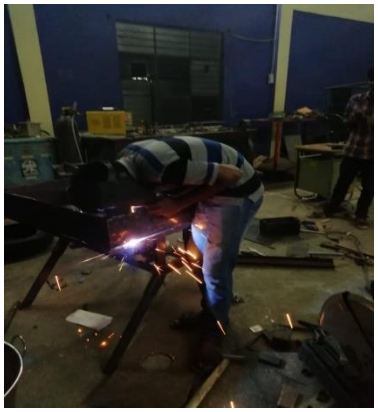
NOVELTY IN DESIGN

Existing design makes use of rotating drums. This design demand more torque and power. This also increases the weight of the overall components and demand more power. The proposed model uses a stationary drum that minimizes the torque and power requirement. This helps to scale down the energy requirement. This machine aim wide range of customers ranging from small-scale industry to large-scale khoa manufacturers. The proposed inverted stirring mechanism can help to accommodate varying drum sizes. As the power is only required to rotate the stirrer alone, a low power motor can be used to serve the power requirement. This makes the machine more users friendly.

HIGHLIGHTS:

- Solar Friendly
- Lower power and torque requirement
- Minimized built cost
- Compact and Reliable


WORKING PICTURES IN PRODUCTION LAB

3. PAPER PLATE MAKING MACHINE USING SCOTCH-YOKE MECHANISM

Paper Plates are alternatives of steel, glass and ceramic plates. Paper plates are basically not used on the first place but are used as alternatives or for specific use. In India, paper plates hold great prominence because of their large-scale usage. This industry is growing in rapid rate in India and profit margin in the manufacturing of plate is also very high.

EXISTING MANUFACTURING METHODOLOGY

The process of manufacturing is not very complicated. The product is manufactured using the specific die. The paper and the polythene sheets are previously cut to size or can also be purchased as per the production requirement. The specific die is mounted on the press and the die is heated to the desired temperature. The two layers of paper and the polythene sheets are placed in between the male-female die parts and pressure is applied so that the product takes shape. The formed product is next removed and another set is loaded. The machine is an ordinary press with one fixed platform and another moving plunger. The movement of the plunger is through hydraulic mechanism. The formed products are collected and the edges are trimmed to give it a proper shape. The plates and bowls are packed separately and stocked for dispatch.

STEPS INVOLVED IN EXISTNG MANUFACTURING PAPER PLATE

In general, the steps involved in making paper plates are as follows.

1. The paper and the polythene sheets are previously cut to the required size.
2. Layers of paper and the polythene sheets are placed in between the die parts.
3. Pressure is applied so that the product takes shape; movement of the plunger is through hydraulic mechanism

Majority of energy/effort is needed for the hydraulic mechanism.

DRAWBACKS OF THE EXISTING MACHINES

The manual and semi-automatic paper plate cutting machines uses two different mechanisms to complete the process. In the first mechanism, a punching machine is used

to cut the paper in circular shape from the paper rolls. It is then transferred manually to other molding devices to hot-press.

WORKING PRINCIPLE OF PROPOSED MACHINE

The proposed model integrates these two mechanisms into a single machine. The primary advantage of this system is that, it drastically reduces the machining time compared with older models. The top plate is guided through the guiding tubes using an electric motor. The motion is transferred using a Scotch-Yoke mechanism. This mechanism had got several advantages over the hydraulic pumps used in automatic devices. This is foul proof and maintenance-free compared with hydraulic systems. This also delivers higher pressure and reduces the processing time. The panel coupled to the top plate slides through the four guiding pillars. This improves the stability, damps vibration and enhances the rigidity of the total system. The die plates will be heated using induction plates to an optimum range of temperature. In addition to this, an automatic paper feeder will be added to the proposed model, this will complete the automation process. This can be added optionally to the existing system as it increases the cost of production.

NOVELTY IN DESIGN

Existing design makes use of separate paper cutter and punching device. This design demand more time and manpower. The commonly used punching device use hydraulic press. This demand more maintenance compared to mechanical devices. The proposed model uses a Scotch-Yoke mechanism that minimizes the torque and power requirement. This helps to bring down the power and torque requirements making it more solar friendly.

HIGHLIGHTS:

- Solar Friendly
- Lower power and torque requirement
- Minimized built cost

- Compact and Reliable

WORKING PICTURES IN PRODUCTION LAB


4. KHOA MAKING MACHINE

Khoa making is a simple process but requires continuous stirring of milk in its preparation time of 3 – 4 hours in hot conditions. At most attention needed during the boiling of milk – little carelessness burns the milk at the bottom of the vessel. In a big vessel called kadai placed over a chulla (chulla is feed with agricultural residue used for burning purpose) around 50 lit of milk is poured which produces nearly 20kg khoa by stirring continuously for 3 hrs.

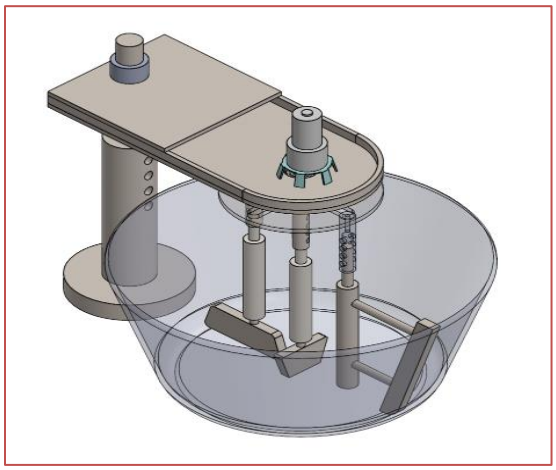
STEPS INVOLVED IN EXISTNG MANUFACTURING PAPER PLATE:

- Limited capacity due to batch operation resulting in non-uniform product quality and thus not suitable for large volume production
- Inefficient use of energy and low heat transfer of bulky equipment

PROBLEMS TO BE CONSIDERED IN MANUFACTURING PROCESS:

- Cost: there are several machines – highly expensive for small scale producers to afford
- Quantity: as each cycle deals with 60-100 lit equipment must be big enough to fit in such large volumes
- Power supply: consider that most of the villages do not have proper power supply
- Type: less manual work will be appreciated at least in the stirring part

- Time: Instruments consuming less time than manual work will be encouraged



CONCEPT OF THE PROPOSED WORK: To overcome the limitations that are associated with the machines currently existing in the market, we, team "FoodTech Builders" has proposed a solution i.e. **A** Customizable KhoaMaking Machine for Everyone.

WORKING PRINCIPLE OF PROPOSED MACHINE: The machine is designed to operate with milk capacities in the range of 10 - 150 liters.Accordingly, vessels that can hold10, 25, 50, 75, 100, 125 and 150 liters are made available. It provides the required degree of freedom to the maker in selecting the desired vessel according to the small/large scale production. According to the chosen vessel, provisions are made in the machine to adjust the height of the stand, length of the cantilever beam/plate and length of the stirring rods. Bottom and side scrapers can be made available in appropriate lengths that suits according to the vessel. It fetches greater advantage to the entrepreneurs in marketing the machine and its spare parts. By replacing flat scrapers with multiple hemispherical scrapers, the machine can be made

comfortably work with curved vessels as well. As the vessel is not an integrated part of the machine, it makes the machine more suitable for existing manual Khoa entrepreneurs and marks the solution more suitable to entrepreneur's existing setup. The machine is suitable for heating milk using firewood, this can temporarily counter the LPG requirement. The machine designed to operate on 0.5 hp motor and the power supply to thismotor can be obtained from domestic household power source or through an inverter i.e. charged via solar panels. Spillage losses can significantly be arrested by considering the vessel with an inward bent (top).

WORKING PICTURES IN PRODUCTION LAB:

5. GARLAND MACHINE

The majority of industrially used cardboard and waste packing machines are available only at a high-power consumption, a high price and generally not suitable for the local waste paper market. In these circumstances a manual machine is used which relies on a worm driven mechanism to press the waste, which involves lots of drudgery and still requires that the waste be packed.

STEPS INVOLVED IN EXISTNG MANUFACTURING:

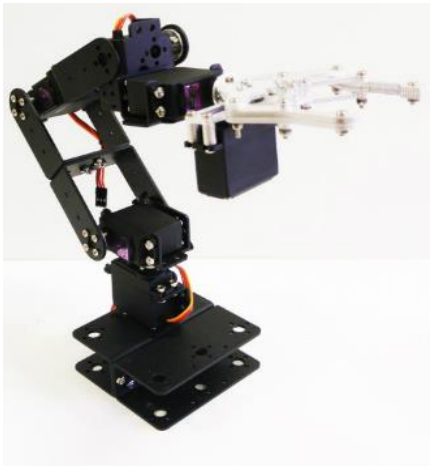
To design and develop a Machine which shall be used to create a garland. The primary objective of the design is to reduce or eliminate the human

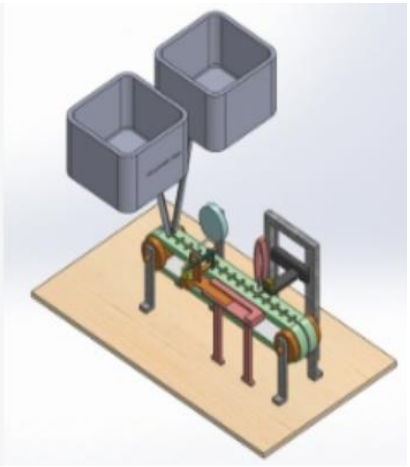
involvement in making garlands by integrating the machine with advanced technology.

PROBLEMS TO BE CONSIDERED IN MANUFACTURING PROCESS:

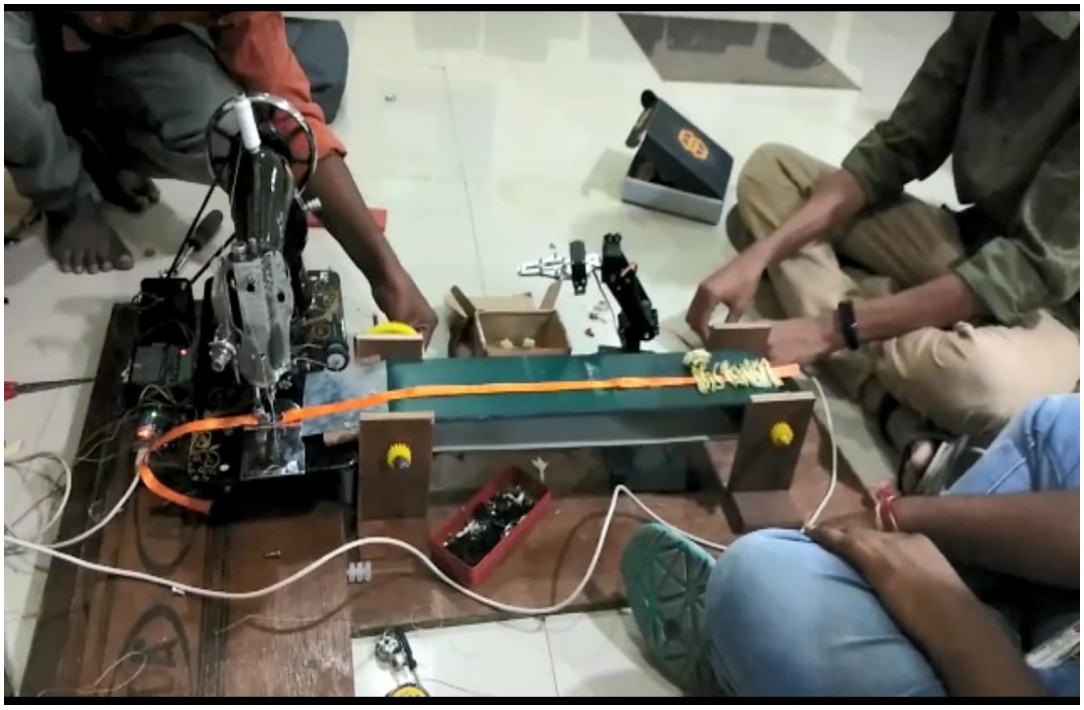
The automated garland machine have robotic arm which places the flowers on the conveyor belt, with moment of the conveyor belt the flowers move to stitching section, the flowers moving on a strip are stitched together to make a flower garland.

CONCEPT OF THE PROPOSED WORK: The idea is to implement a fully automatic machine which works with the combination of robotic arm and sewing machine. Robotic arm works on the commands given through the computer programming using Embedded-C. The main objective of the robotic arm is to place the flowers on the conveyor belt.





WORKING PICTURES IN PRODUCTION LAB:



6. SOLAR POWERED SUGAR CANE JUICER MACHINE

To understand the basic design and fabrication of multiple gear systems and to analyze the working mechanisms of different gear modules.Especially, this is chosen for to simplify the machine equipment cost and as well as reduce the burden of handling and to design fully working solar powered SUGARCANE JUICER machine.

WAYS OF APPROACH TOWARDS ANALYSIS AND DESIGN:

1. Gone through different aspects of choosing gear material and roller material as per mentioned by FSSAI of India.
2. Studied and understood the various complications in designing a machine.
3. Complexities and challenges are recorded for future scope development.
4. Finally, worked on the aspect of how to overcome the challenges recorded.

INNOVATIVE CONCEPT IN DESIGN

The regular model of a Sugarcane juicer machine runs with the flywheel and spur gear mechanism.But herein we changed the spur gear mechanism to straight bevel gears mechanism.

Crown Gear

Pinion Gear

WHY TO CHOOSE THIS MECHANISM?

- Designed for easy assembling & dissembling.
- Reduced weight ratio.
- Simplified gear set-up.
- And mainly it runs with 80% efficiency even with SOLAR ENERGY up to 3 yours without any grid power supply.

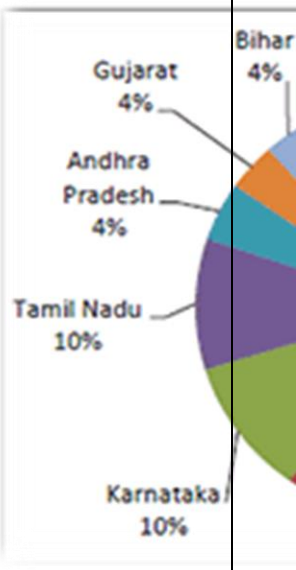
CHALLENGES TO BE CONSIDERED:

1. To overcome the gear slip condition.
2. Studying mechanical power losses.
3. Designing the perfect gear module.
4. Setting the alignment of shaft.

HOW THIS VARIES FROM EXISTING MACHINES:

- Comparing to the existing model which runs on the spur gear mechanism includes heavy load with producing low amount of torque.
  - Financially also the machine equipment is also costlier.
- Coming to the innovated design, the there is a decrease in weight of machine since flywheel mechanisms are completely replaced with bevel.
- As we are also utilizing the solar energy with a conversion of DC to AC power by the inverter with 3kw capacity reduces the usage of electricity consumption.

SCOPE AT INDUSTRIAL LEVEL



Utilization of natural energies became so common these days and also a trendy one.

WORKING PICTURES

8. PEPPER PROCESSING CHAIN

The richness of the culture and the fragrance of the spices were the major sources of glory of the ancient India. It is really amazing to see that India could maintain her supremacy in the production and trade of spices even the Vedic ages dating back to 6000 B.C, to the modem era of the third millennium. The vicissitudes of history made unbelievable changes everywhere but the Indian domination over the world spices market still remains unquestionable.

EXISTING PROCEDURE FOR PRODUCTION OF WHITE PEPPER:

After harvest the pepper berries are removed from the stems either by hand or by beating with sticks (threshing) or by using a minim mechanical thresher and then the outer husk of the berry has to be removed. This is done by soaking the ripe berries in slow running water for up to a week, to soften the outer husk and make it easy to remove or by chemical solvents (which is unhygienic). Pepper is graded by size, color and relativedensity. Color grading is done by hand. Small machines are available for grading pepper according to the size or relative density of the peppercorns.

INNOVATIVE PROCEDURE FOR PRODUCTION OF WHITE PEPPER:

- The existing structure of machine is too bulky where we have designed these machines which is portable and compact insize
- The process presently used in factories is not automated and involves much manual work, we have used fully automated process for production of whitepepper
- Some of the existing mechanism has implemented to increase the effectiveness of pepper processing unit

CONCEPT OF THE PROPESED WORK:

The main project is focused on developing the methods to improve the

efficiency of the pepper processing machines which are

- Threshermachine
- Peelingmachine
- Gradingmachine

THRESHER

After harvesting the pepper berries are removed from the stems using a mechanical machine is called thresher. The stems are separated out and discarded. The principle of Thresher machine is to separate the stem and granule's using Pulley Drive Mechanism.

PEELER

After harvest the outer husk of the berry has to be removed. This is done by soaking the ripe berries in slow running water for up to a week, to soften the outer husk and make it easy to remove

GRADER

The basic principle of grader is to separating the various size of granule using simple link mechanism by converting circular motion into linear motion. Where two perforated sheet are placed for different size of 2mm and 5mm in which granule slide and fall in different diameter of sheet.

FUTURE SCOPE: In India we produce and market more than fifty types of spices and export them to more than 150 countries around the globe. A study about the problems and prospects of all these spices is far beyond the scope of the study. Pepper and Cardamom, known as the 'King' and 'Queen' of spices respectively, have dominating role in terms of significance in the world market as well as in domestic production.

GROWTH RATE:

CONCLUSION: Hence, we have designed and fabricated a fully automated pepper processing chain system by implementing simple mechanisms which reduces the weight and ideal time for operations.

- It is also compactable to shiftfrequently.
- It increases the production rate compared to present rate ofproduction.

WORKING PICTURES IN PRODUCTION LAB: