ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Affiliated to VTU, Belagavi. Approved by AICTE & Recognized by Government of Karnataka)
Shobhavana Campus, Mijar - 574225, Moodabidire, Dakshina Kannada, Karnataka, India

ALVA'S

Department of Agriculture Engineering

A Report on

Alva's Rural Outreach Programme

[2022-23]

Creating Awareness about Integrated Farming System at K Amanath Shetty Function hall, Vidyagiri, Moodbidri

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DEPARTMENT OF AGRICULTURE ENGINEERING

Date - 6/10/2022

From,
Dr. Shashikumar
Associate Professor & Head
Department of Agriculture Engineering
AIET, Moodbidri

To,
IQAC Chairman
AIET, Moodbidri

Respected Sir,

Sub: Requesting to permit for conducting Awareness programme on Integrated Farming System -reg.

We are happy to inform you that Department of Agriculture Engineering Forum- KRISHITECH is planned to organize a societal beneficiary program on Creating Awareness about Integrated Farming System at K Amanath Shetty Function hall, Vidyagiri, Moodbidri on 22/10/2022. So, I hereby request your kind approval for the same.

Thank you

HOD
H.O.D.
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Alva's Rural Outreach Programme

2022-23

Creating Awareness about Integrated Farming System

The department of Agriculture Engineering conducted an awareness programme to the local farmers as well as students in K Amarnath Shetty Function hall, Vidyagiri, Moodbidri on 22/10/2022 under the guidance of Dr. Shashikumar. The students of the department are actively participated in the programme to create awareness about the Integrated Farming System to the local farmers as well as students.

The details of information shared with the local farmers as well as students are given below.

Firstly, students told about what is IFS like this way. In Integrated farming system, agriculture can be integrated with livestock, poultry and fish are maintained at same place to generate employment around the year and also get additional income. For example, same place poultry in upper layer and utilize their excreta. Pigs are in lower layer, residual water from pond was utilized for Agriculture and fodder crops production.

We can see in lot of villages coconut gardens are intercropped with fodder and allow the livestock and country hens to graze the pasture. The excreta can be recycled as manure for garden as well as forage crops is called as integrated farming. Integrated farming system when agriculture was jointly performed with animal husbandry the land, water and plant was fully utilized.

Second, they have explained in briefly about how they did develop a model by using naturally available material and that model can be seen in the figure 1. The model consisted of farm pond plus fish, biogas plant animal shed, house, plantation crops like coconut, arecanut and cashew crop, multiple cropping such as okra, tomato, beans etc and paddy field. The entire model developed by using soil and bamboo stick with an approximate area around 100 m^2.

The students are also told about fodder crops to be grown along with IFS in the following way.

Fodder production in integrated farming system: In integrated farming system, maintenance of cattles, realize more income; good quality fodder production is essential. Fodder cultivation improves soil fertility and soil water holding capacity. Weeds, non-beneficial plants and sedges growth were restricted. Legume fodder cultivation enriches soil nutrients particularly nitrogen. Profitable milk and meat production requires protein rich legume fodders to be fed to the animal husbandry.

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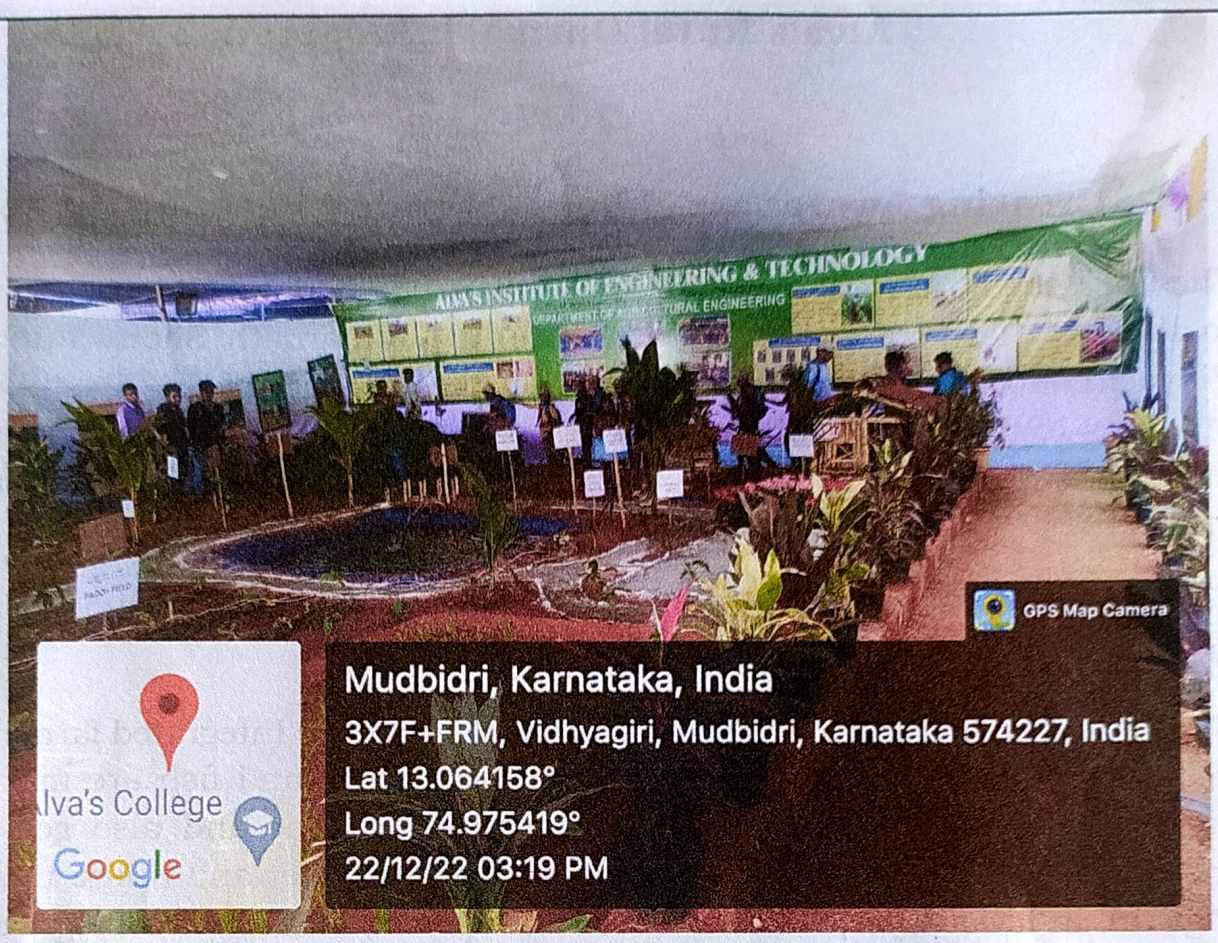

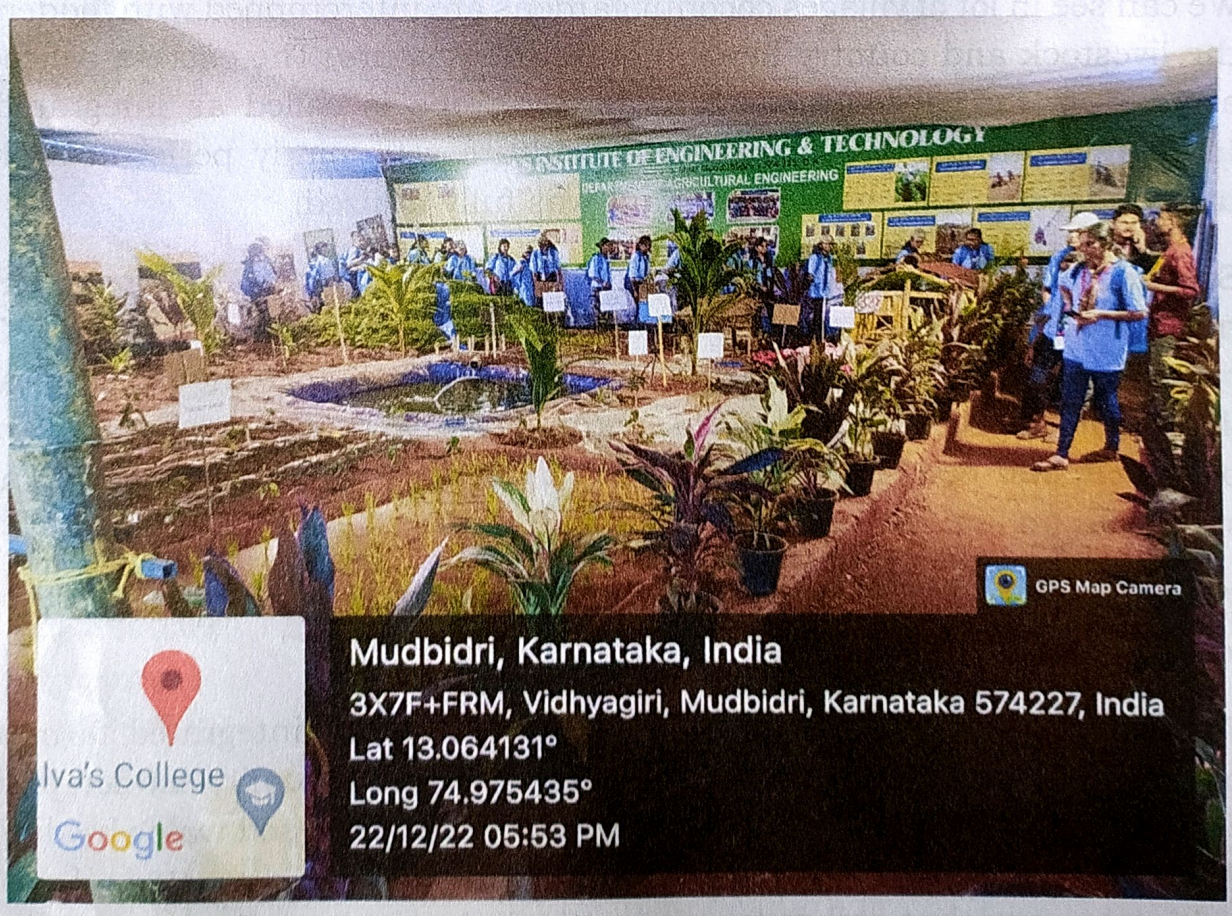

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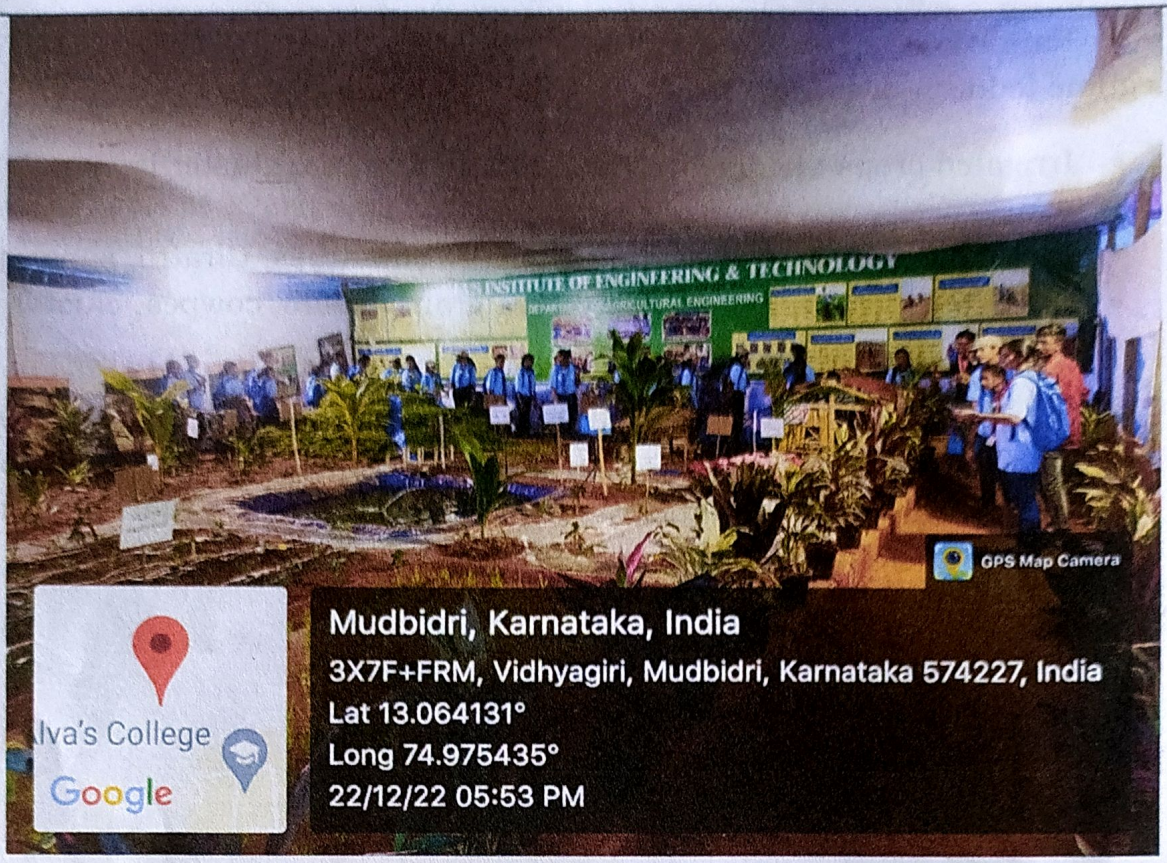

Fig1. Shows student and farmers visiting the developed Integrated Farming System Model

Cereal and grass fodders are mixed with legume fodders will reduce the cost incurred for concentrate.

Guidelines for fodder production

1. In minimum land high yielding forage varieties must be selected.
2. Select forage varieties suitable for both irrigated and rainfed condition.
3. Based on soil testing forage crops could be cultivated.

Forage crops can be classified as follows

- Grass fodder
- Grain fodder
- Legume fodder
- Tree fodder

Grass fodders

- Irrigated crops: Cumbu-napier hybrid grass and Guinea grass
- Rainfed crops : Kollukattai grass and Deenanath grass

Grain fodders

- Irrigated crops: Forage maize, forage sorghum, Forage cumbu

- Rainfed crops: Forage sorghum, Forage cumbu

Legume fodders

- Irrigated crops : hedge lucerne, lucerne, cowpea, cluster beans, Soya , centro
- Rainfed crops : Hedge lucerne, stylo, Desmanthes, Ciratro, sangu pushpam
- Short term crops: Pigeon pea, horse gram, lablab, cowpea, cluster beans

At the end of the programme farmers as well as students are highly satisfied about their gained information on IFS and its importance in the prosperity of rural development. The students are exposed to various farmers problem. It motivated them to actively involve in farmers oriented problems.

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Department of Agriculture Engineering

Creating Awareness about Integrated Farming System

Alva's Rural Outreach Programme **2022-23**

The following 3rd semester students are involved in Creating Awareness about Integrated Farming System at K Amanath Shetty Function hall, Vidyagiri, Moodbidri under Alva's Rural Outreach Programme.

Batch	USN	Name	Signature
1	4AL21AG001	A BHOOMIKA REDDY	
	4AL21AG002	ABHISHEK K S	
	4AL21AG003	AJITH MALI PATIL	
	4AL21AG004	AMARNATH I	
	4AL21AG005	ANANYA K	
	4AL21AG006	CHAITRA	
	4AL21AG007	CHANDAN B M	
	4AL21AG009	CHETHAN P	
	4AL21AG010	DEEPAK M S	
	4AL21AG011	DEEPAK R	
	4AL21AG012	H P Y SACHIN	
2	4AL21AG013	HAFEEL NIYAZ	
	4AL21AG014	JEEVAN KUMAR H N	
	4AL21AG015	K A PREKSHA	
	4AL21AG016	KEERTHAN ALVA	
	4AL21AG017	KEERTHANA M RAM	
	4AL21AG018	KIRAN V	
	4AL21AG019	MANASI ANILRAO PAPPALE	
	4AL21AG020	MANSOOR P E	
	4AL21AG021	MONISHA S	
	4AL21AG022	NAGASHREE N	
	4AL21AG023	NAVYA K	
	4AL21AG024	POORNACHANDRA	
3	4AL21AG025	PRANEETH	
	4AL21AG026	REGAN AIDON SALDANHA	
	4AL21AG027	SAHANA M GOWDA	
	4AL21AG028	SANTHOSH M	
	4AL21AG029	SAWAN SHETTY	
	4AL21AG030	SHREEHARSHA K S	
	4AL21AG031	SNEHA M	
	4AL21AG032	SUSHA S SHETTY	
	4AL21AG033	SUTHEEJ	
	4AL21AG034	TARUN K	
	4AL21AG035	TEJASKUMAR	
	4AL21AG036	USAMA MEHABOOBSAB KOPPAL	

Faculty Coordinator

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