

Maris Stella College (Autonomous), Vijayawada

Name of the Department: Agriculture & Rural development

Members of the Department:

Name of the HOD: Dr. P. Lakshmana swamy

Profile of every member in the Department

Name: D. Surekha Paul

Educational Qualification: M.Sc.

Designation: Asst. Professor

Years of experience: 2 years 2 months

Maris Stella College:

Other Institutions: Green fields institute of agriculture research and training,
Vijayawada

G Suite Email Id:

Email Id: surekhapaul.sp@gmail.com

Contact No: 7801078078

Aadhar No: 791168265291

Languages Known: Telugu, English, Hindi, Tamil.

Areas of Interest: Genetics and plant breeding, Agronomy, crop physiology.

Academic Contribution:

Academic Profile:

Refresher Courses/Orientation Courses/Short Term Courses Attended:

Research Publications:

- a) Journals
- b) Conference Proceedings

Paper Presentations:

Research Projects:

1. Influence of different priming treatments on seed germination and vigour of wheat (*Triticum aestivum L.*) seeds.

Books Published/Chapters in Books:

Research Guideship:

Workshops/Seminars/Webinars/Conferences Attended:

1. One day national webinar on Nutraceuticals and medicinal herbs for health & immunity.
2. National seminar at Kanpur
3. National seminar at New Delhi, about seed science and technology.

FDPs/Training Programs Attended:

Membership in Professional Bodies:

Recognition/Awards:

Overview of the Department

Agriculture plays a vital role in the Indian Economy. Almost 60 percent of the Indian work force is involved in agriculture and there is potential for the substantial growth of the sector. The demand for the trained professional in this field is very high both nationally & Internationally. As the agriculture sector plays a prominent role in the Financial, Cultural and Social Life of India, the stream of Agriculture Science makes a great contribution in the development of an energetic as well as naturally sustainable future of Agriculture Techniques. Thus, in a dire need of meeting the required Agricultural Graduates for Agricultural Sector. A student after completing B.Sc. in Agriculture gets a well-paying job right after Graduation and he can also progress towards Post Graduate degree and Research

Goals and Objectives

Objectives

1. To provide relevant education to the students in Agriculture, Processing and allied sciences.
2. To promote research and training on sustainable development of agricultural productivity, cost reduction in farming, farm mechanization and farm animal production.

3. To encourage the youths on entrepreneurship and rural development
4. To provide consultancy in agriculture to disseminate the technology innovation to the producer through integrated extension activities.

Goals

1. Responsive education, farmer –responsive training and services for development of Agriculture and agro-industry.
2. Maris stella College of Agriculture and Rural development visualize the critical importance of Agricultural Information and Communication Technology as an instrument for increasing productivity, rural development and enhancing the quality life of the farmers.
3. Maris stella College of Agriculture and Rural development aims to impart a technical education in Agriculture and related areas. The college creates, integrates, & shares knowledge to meet the objectives

Departmental Activities

2015-2016, 2016-2017, 2017 – 2018, 2018-2019, 2019-2020, 2020-2021, 2021-2022

Syllabus

2020-2025

Certificate/ Value Added Courses

2020-2021

Life skills: Human Values and Professional Ethics

SDC: Vermicompost Production

Certificate Course: Minimum supporting Price for Agriculture crop in Andhra Pradesh.

2021-2022

Life skills: Computer science

SDC: Zero Budget Natural Farming

Certificate Course: Seed Bed preparation

Courses Offered

2020-2025

SEMESTER -I

S.No .	COURSE TITLE	CODE	SE M	CREDIT S	THEOR Y	LA B
1	English		I	3	3	0
2	Fundamentals of Agronomy	AGRO101	I	3	2	1
3	Fundamentals of Plant Biochemistry and Soil Science	BICM101	I	3	2	1
4	Fundamentals of Agriculture Economics	AECO141	I	2	2	0
5	Fundamentals of Horticulture	HORT181	I	3	2	1
6	Rural Sociology, Educational Psychology and Human Values	AEXT 191	I	2	2	0
7	HVPE	LS-1	I	2	2	0
8	Vermicompost Production	SDC-1	I	2	1	1
9	MSPA	CERTIFICAT E	I	2	1	1

SEMESTER-II

S.No .	COURSE TITLE	CODE	SE M	CREDIT S	THEOR Y	LA B
1	English		II	3	3	0
2	Introductory Agrometeorology and Climate Change	AGRO 103	II	3	2	1

3	Fundamentals of Genetics	GPBR 111	II	3	2	1
4	Fundamentals of Entomology-1	ENTO 131	II	3	2	1
5	Soil and Water conservation engineering	AENG 151	II	3	2	1
6	Fundamentals of Plant Pathology –I	PATH 171	II	3	2	1
7		LS-2	II	2	2	0
8	ZBNF	SDC-2	II	2	1	1
9	COMPUTER	CERTIFICAT E	II	2	1	1

SEMESTER-III

S.N o.	COURSE TITLE	CODE	SE M	CREDI TS	THEOR Y	LAB
1	Crop Production Technology (Cereals, Millets and Pulses)	AGRO 201	III	3	2	1
2	Fundamentals of Plant Breeding	GPBR 211	III	3	2	1
3	Fundamentals of Entomology II (Insect Ecology and Concepts of IPM)	ENTO 231	III	2	1	1
4	Fundamentals of Plant Pathology II (Plant Pathology Principles)	PATH27 1	III	2	1	1
5	Farm Machinery and Power	AENG 251	III	2	1	1
6	Production Technology for Vegetables and Spices	HORT 281	III	2	1	1

7	Agricultural Finance and Co-operation	AECO 241	III	2	1	1
8	Fundamentals of Agricultural Extension	AEXT 291	III	3	2	1
9	Economics for Rural Development	AERD201	III	2	2	0
10	Eco-physiology	CPHY 261	III	2	1	1

SEMESTER-IV

S.No.	COURSE TITLE	CODE	SEM	CREDITS	THEORY	LAB
1	Crop Production Technology - II (Oilseeds, Fibre, Sugar, Tobacco and Fodder crops)	AGRO 202	IV	3	2	1
2	Irrigation water management, farming systems and sustainable agriculture	AGRO 203	IV	3	2	1
3	Agriculture Marketing, Trade, Prices	AECO 242	IV	3	2	1
4	Manures, Fertilizers and Soil Fertility Management	SSAC 221	IV	3	2	1
5	Production Technology for Ornamental Crops, Medicinal and Aromatic Plants and Landscaping	HORT 282	IV	2	1	1
6	Entrepreneurship Development and Business Communication	AEXT 292	IV	2	1	1

7	Renewable energy and Green Technology	AENG 252	IV	2	1	1
8	Live-stock and Poultry Management	LSPM 201	IV	3	2	1
9	Statistical Methods	SMCA 201	IV	2	1	1
10	Rural Development Planning and Management	PMRD202	IV	2	2	0

SEMESTER-V

S.No.	COURSE TITLE	CODE	SEM	CREDITS	THEORY	LAB
1	Geo informatics and Nanotechnology for Precision Farming and Practical Crop Production	AGRO 301	V	3	2	1
2	Environmental Studies and Disaster Management	CPHY361	V	2	1	1
3	Principles of Food Science and Nutrition	BICM 300	V	3	2	1
4	Crop Improvement - I (<i>Cereals, Millets, Pulses and Oilseeds</i>) and Intellectual Property Rights	GPBR 311	V	3	2	1
5	Problematic Soils and their Management	SSAC 321	V	2	1	1
6	Protected Cultivation and	AENG 351	V	2	1	1

	Post-harvest technologies					
7	Pests of Field crops and Stored Grain and their Management	ENTO 331	V	3	2	1
8	Diseases of Field and Horticultural Crops and their Management - I (Field Crops)	PATH 371	V	3	2	1
9	Principles of Integrated Pest and Disease Management	PATH 372	V	2	1	1
10	Rural Industrialization and Entrepreneurship	RERD 203	V	2	2	0

SEMESTER-VI

S.No.	COURSE TITLE	CODE	SEM	CREDITS	THEORY	LAB
1	Rain fed Agriculture, Watershed Management and Principles of Organic Farming	AGRO 303	VI	3	2	1
2	Agriculture Informatics	SMCA 301	VI	2	1	1
3	Crop Improvement-II (<i>Fibre, Sugar, Starches, Narcotics, Vegetables, Fruits and Flowers</i>) and Principles of Seed Technology	GPBR 312	VI	3	2	1
4	Pest of Horticultural Crops and their Management and Beneficial insects	ENTO 332	VI	3	2	1

5	Diseases of Field and Horticultural Crops and their Management - II (Horticultural Crops)	PATH 372	VI	2	1	1
6	Post-harvest Management and Value Addition of Fruits and Vegetables	HORT 381	VI	2	1	1
7	Communication Skills and Personality Development	AEXT 391	VI	2	1	1
8	Farm Management, Production and Resource Economics	AECO 341	VI	2	1	1

SEMESTER-VII

Rural Agricultural Work Experience (RAWE) and Agro-Industrial Attachment (AIA)

S.No.	COURSE TITLE	CODE	SEM	CREDITS	THEORY	LAB
1	Rural Agricultural Work Experience (RAWE) and Agro-Industrial Attachment (AIA)	<u>RAWE</u>	VII			
		R				
	Crop Production	A		5	0	5
	Crop Protection			4	0	4
	Rural Economics			3	0	3
	Extension Programme	W		4	0	4
Research Station / KVK /DAATT Centre activities and attachment to Agro based industries	E		4	0	4	

SEMESTER-VIII

S.No.	COURSE TITLE	CODE	SEM	CREDITS	THEORY	LAB
1	AELP-Agriculture Experiential Learning Programme	AELP	VIII	20	0	20

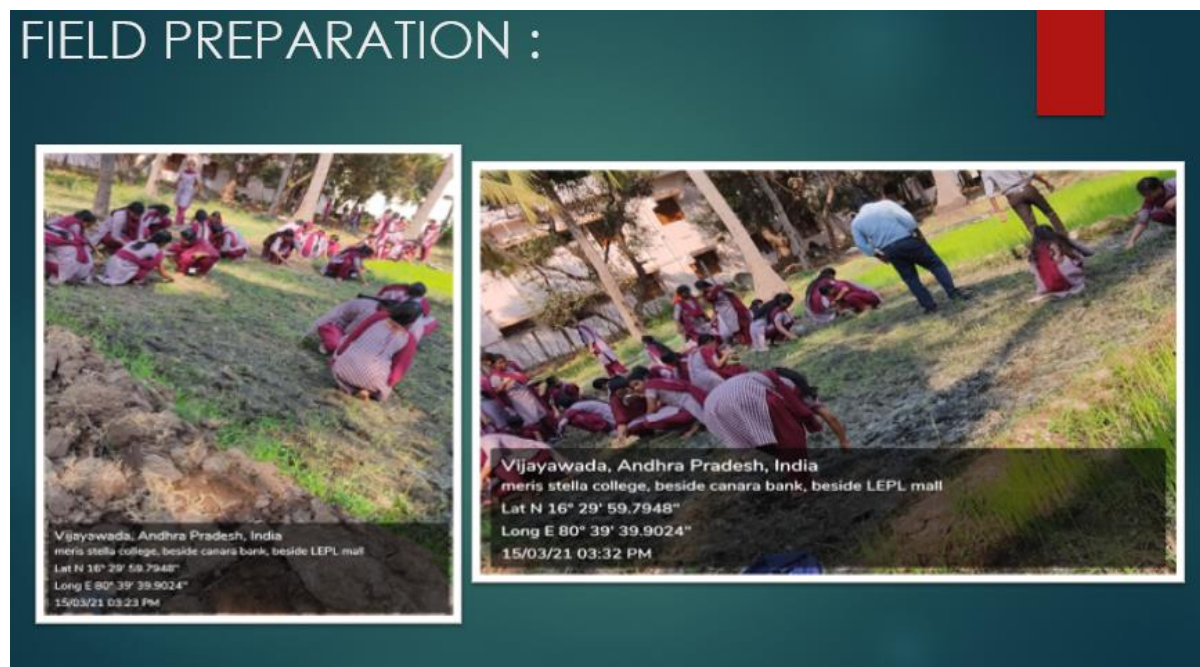
Students Study Projects

1. Vermicompost production from the agriculture waste.
2. Horticulture crops seedling development under shade net.
3. Grafting techniques.
4. Soil collection and analysis.

Department Club Activities

2020-2021,
2021-2022

Gallery



DEMONSTRATION ABOUT FERTILIZER APPLICATION::



FERTILIZER APPLICATION::



CONVENTIONAL PUDDLING OPERATION FOR PADDY FIELD::



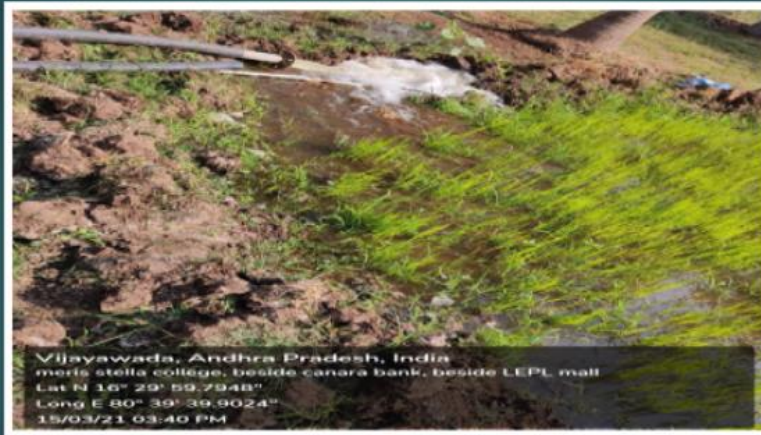
TRAPPING CROPS :: SUNFLOWER



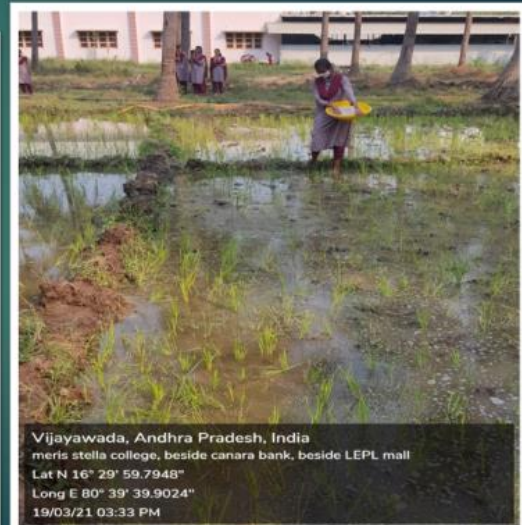
TRANSPLANTING THE PADDY SEEDLINGS



IRRIGATION



FERTILIZER APPLICATION AFTER TRANSPLATING::



WEED MANAGEMENT IN PADDY FIELD ::



VERMICOMPOST



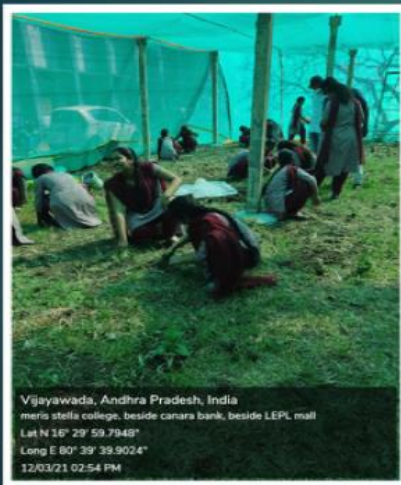
SHADE NET LAND PREPARATION::



INNER VIEW OF SHADE NET



WEEDING IN SHADE NET



SEED BED PREPARATION UNDER SHADE NET



Vijayawada, Andhra Pradesh, India
meris stella college, beside canara bank, beside LEPL mall
Lat N 16° 29' 59.7948"
Long E 80° 39' 39.9024"
20/03/21 11:55 AM



Vijayawada, Andhra Pradesh, India
meris stella college, beside canara bank, beside LEPL mall
Lat N 16° 29' 59.7948"
Long E 80° 39' 39.9024"
20/03/21 11:56 AM



Vijayawada, Andhra Pradesh, India
meris stella college, beside canara bank, beside LEPL mall
Lat N 16° 29' 59.7948"
Long E 80° 39' 39.9024"
20/03/21 11:56 AM

CLASS ROOM PRATICALS

► BIO CHEMISTRY AND SOIL SCIENCE PRATICAL



Vijayawada, Andhra Pradesh, India
meris stella college, beside canara bank, beside LEPL mall
Lat N 16° 29' 59.7948"
Long E 80° 39' 39.9024"
12/03/21 02:05 PM



Vijayawada, Andhra Pradesh, India
meris stella college, beside canara bank, beside LEPL mall
Lat N 16° 29' 59.7948"
Long E 80° 39' 39.9024"
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EXTERNAL PRACTICALS

- ▶ AGRONOMY:
- ▶ VIVA AND IDENTIFICATION



HORTICULTURE EXTERNAL PRACTICAL



BIO CHEMISTRY AND SOIL SCIENCE PRACTICAL

