



Farm Mechanization

FACULTY DEVELOPMENT PROGRAMME

Resource Person

Dr. Joseph Reddy

Principal Scientist (Agriculture Eng.)

Associate Dean Academics

Acharya N.G. Ranga University, Andhra Pradesh

No. of Students and/or Faculty Participated: 175

Date: 10th June 2020

Dr. Joseph Reddy Principal Scientist/Associate Dean Academics has a specialization in the design and development of Agricultural Machinery. Some of his notable contributions are;

- Development and evaluation of Tractor drawn seed cum ferti drill for Bengal gram (Chickpea) and Sorghum crops
- Development and evaluation of tractor-operated chickpea harvester
- Development and Evaluation of Tractor PTO operated Rotary Strip-Drill for sowing in paddy stubble field for sowing Maize, Sorghum, and chickpea crops
- Development of suitable Dry land matching implements for Mini- Tractor (15 to 21 hp range) for the benefit of Small and Marginal Farmers
- Development of Tractor PTO operated Multi crop high-capacity thresher
- Development of Tractor PTO operated FYM pulverizer cum spreader
- Development of tractor-operated cotton stalk root uprooter cum shredder

About the session;

The session gave a brief idea of the importance of farm mechanization and its implementation at the farm level, Mechanization raises the efficiency of labor and enhances the farm production per worker. By its nature, it reduces the quantum of labor needed to produce a unit of output. Agricultural farm mechanization helps in increasing production, productivity, and profitability in agriculture by achieving timeliness in farm operations, bringing precision in metering and placement of inputs, reducing available input losses, and increasing the utilization efficiency of costly inputs (seed, chemical, fertilizer, etc). Further, there was a briefing that introduced some of the tractors developed by Dr. Joseph Reddy, the main discussion was on the Mini tractor (15-24hp) and its matching implements. Such as 2 Bottom ploughs, 6-tyne Cultivator, 6- row Seed cum ferti drill.

Objective;

- To brief on Mini Tractor (15hp) for the benefit of Small and Marginal Farmers in India
- To introduce new Tractors to the farm to help marginal farmers in the farming activities
- To introduce new ideas for research in the field of Agricultural Engineering

Outcomes:

The session gave a brief idea of the importance of farm mechanization at the farm level, Farm Mechanization raises the efficiency of labor and enhances the farm production per worker. By its nature, reduces the quantum of labor needed to produce a unit of output. The session showcased some of the models developed to help in the intercultural activities in farming.



Bullock Drawn Country Plough



Bullock Drawn M.B.Plough

Matching implements to Mini-Tractor(15-24hp)

10 kW Generator

Generator fan and broadcaster

**High ground clearance mechanism
Dry land crops**

2-Bottom M.B Plough

6-tyne cultivator

6-row seed cum ferti drill

Mini-tractor operated Rain gun

Mini-tractor

Developed at R A R S, Nandyal



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Organized by :

Centurion University of Technology and
Management

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FACULTY LIST

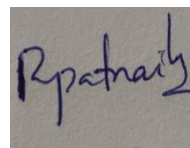
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3	Dr.Jyotiprakash Rath	Asst.Prof
4	Dr.Shanatanu Bhattacharya	Asst.Prof & HOD, Dept. of Botany
5	Dr.Pratibha Rani Deep	Asst.Prof
6	Mr.Debashish Trpathy	Asst.Prof & HOD, Dept. of Zoology
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