

Home (index.php) / Facilities



## Facilities

(singlePage.php?id=17&amp;type=SP)

There is ample opportunity for the scholars to avail the numerous facilities being provided by the department. This includes a computer lab parallel to the college' having all the multimedia and interfacing devices, farm machinery lab, farm power lab, two workshops, a fully computerized bio-diesel lab, traction lab, farms for testing on mechanization, advanced audio-visual teaching aids etc.

### Research & Development

There is infrastructure and financial support for the research & development cell and the scholars are encouraged to undergo intensive advance research work of their choice. Presently, various research projects are underway being sanctioned through ICAR under AICRP, NATP, KVIC, GVT-MPUAT etc. and sanctions of more research projects are awaited, being structured according to the needs and deeds of the scholars.

#### On going research projects

Name	Funding Agency
AICRP	
1.All India Coordinated Research Project on Farm Implements & Machinery	ICAR, New Delhi
2.All India Coordinated Research Project on Utilization of Animal Energy with Enhanced System Efficiency	ICAR, New Delhi
3.All India Coordinated Research Project on Ergonomics and Safety in Agriculture	ICAR, New Delhi
Farm Machinery Testing Centre ( <a href="https://www.ctae.ac.in/images/editorFiles/Testing charges 2021-22(1).pdf">https://www.ctae.ac.in/images/editorFiles/Testing charges 2021-22(1).pdf</a> )	Ministry of Agriculture and Cooperation, Government of India, New Delhi

#### Machines/Technology developed

- Water hyacinth chopper cum crusher; Patented Technology
- Different matching attachments for multipurpose tool frame such as seeding device, bund former, bed former, MB plough, water tanker and trailer

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- Paddle operated maize dehusker sheller
- Ergo-friendly fruit harvesting package
- Hydraulic tractor trailer with safety devices
- Solar operated maize dehuskar sheller
- Pneumatic tray seeder
- Orange fruit harvester
- Mechanisation of sowing and threshing of seed spices crops by development and successful evaluation of planter and thresher.
- Air sleeve boom sprayer.
- Multi crop seed drill cum planter.
- Automatic variable rate sprayer for fruit orchard
- Multi laying machine with planting attachment

### Teaching Aids

Apart from conventional classroom teaching, advanced audio-visual aids are used to build innovative outlook and research inclination among the scholars and ease the conceptualization of technological aspects. The advance audio-visual tools comprises classroom studies on LCD projector and through internet which not only produces a conducive environment for learning but also aids in better understanding of the basic concepts of the subject.

### Laboratories

- Farm Power Lab
- Farm Machinery Lab
- Plant Protection Lab
- CAD and Data Processing Lab
- Bio-diesel Lab

- Traction Lab
- Experiential Learning Workshop
- Prototype Manufacturing Workshop



Ergonomics Laboratory



CAD and Data Processing Laboratory



Electro Discharge Machine (EDM)



Universal Radial Drilling Machine



Metal Cutting Band Saw



Laser land Leveller



Power Weeder



Rotavator



Self Propelled Reaper



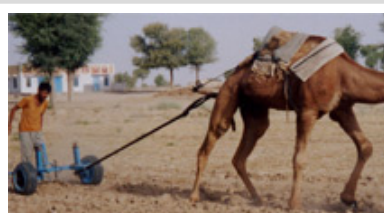
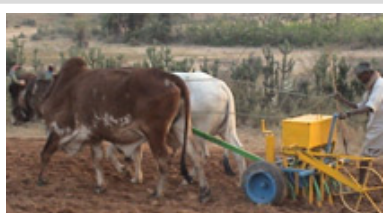
Multi crop seed drill cum planter



Whole plant maize thresher



Aero Blast Sprayer





## Quick Links

- [Home \(index.php\)](#)
- [Sitemap \(singlePage.php?id=17&type=SP\)](#)
- [National Institute Ranking Framework : CTAE Reports \(singlePage.php?id=31&type=SP\)](#)
- [TEQIP-III \(singlePage.php?id=34&type=SP\)](#)
- [Bhartiya Chatra Sansad \(singlePage.php?id=44&type=SP\)](#)
- [Prayaag 2013 \(CTAE TechFest\) \(singlePage.php?id=15&type=SP\)](#)
- [C-GOLD-2014-Activities \(singlePage.php?id=17&type=SP\)](#)
- [Gold Fiesta-2014 \(CTAE TechFest\) \(singlePage.php?id=19&type=SP\)](#)
- [Promoting Innovations in Individuals, Start-ups and MSMEs \(singlePage.php?id=21&type=SP\)](#)
- [IUMS \(singlePage.php?id=22&type=SP\)](#)
- [STUDENT PORTAL LOGIN \(singlePage.php?id=23&type=SP\)](#)
- [Tech View 2019 \(singlePage.php?id=24&type=SP\)](#)
- [CTAE TECHFEST-2015 \(singlePage.php?id=26&type=SP\)](#)
- [Students No Dues Form \(singlePage.php?id=28&type=SP\)](#)
- [GLOBAL RAJASTHAN AGRITECH MEET \(GRAM-2016\) \(singlePage.php?id=29&type=SP\)](#)
- [Vidya Lakshmi Portal - VLP \(singlePage.php?id=32&type=SP\)](#)
- ["ARIIA 2020 Submission Report" \(images/staticContent/Submission Report 2020.pdf\)](#)
- [Package of Practices, Publication & Patent Facilitation Cell \(singlePage.php?id=46&type=SP\)](#)
- [STATE LEVEL SPORTS CHAMPIONSHIP KARMATH-2020 \(singlePage.php?id=49&type=SP\)](#)
- [C.T.A.E. STUDENT FEED BACK SYSTEM \(B.Tech. Program\) \(singlePage.php?id=58&type=SP\)](#)
- [NewGen IEDC-CTAE \(singlePage.php?id=59&type=SP\)](#)
- [ARIIA 2021 CTAE REPORT \(images/staticContent/ARI-I-1067.pdf\)](#)
- [MPUAT Staff Directory \(images/staticContent/Telephone-Directory-MPUAT-\(2022\).pdf\)](#)
- [Farm Machinery Testing Centre \(singlePage.php?id=72&type=SP\)](#)

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**24°**

7:40 pm IST

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