

**Institute Industry Interaction Cell
College of Agricultural Engineering & technology,
Dr. Rajendra Prasad Central Agricultural University, Pusa, BIHAR**

Expert Lecture on “Simulation Based Farm Machinery Design” 20th June 2026 (Hybrid Mode)

The Department of Farm Machinery and Power Engineering, College of Agricultural Engineering and Technology, Dr. Rajendra Prasad Central Agricultural University, Pusa, Samastipur, Bihar, successfully organized the expert lecture by Dr. Pankaj Gupta, Professor & HoD, FMPE, CAET, AAU, Gujarat. The programme commenced with a welcome address by Dr. S.K. Patel and Dean CAET addressed the gatherings. A Total of 70 Participants were benefited. Some of the highlights are :

Understanding of Simulation Tools: Gained knowledge of modern simulation techniques such as CAD, Finite Element Analysis (FEA), and multibody dynamics for designing, analyzing, and optimizing farm machinery before prototype development.

Improved Design and Performance Evaluation: Learned how simulation helps predict stress, deformation, vibration, durability, and operational performance of agricultural machines, thereby reducing design time, development cost, and field testing requirements.

Application in Smart Agricultural Engineering: Enhanced understanding of integrating simulation with digital engineering, precision agriculture, and advanced manufacturing to develop efficient, reliable, and sustainable farm machinery for modern agricultural practices.

Some of glimpses

