

**(AG516) Farm Power and Machinery Management**

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**Unit 1**

The role of mechanization and its relationship to productivity, employment, social and Technological change;

**Unit II**

performance and power analysis; cost analysis of machinery: fixed cost and variable costs, effect of inflation on cost;

**Unit III**

selection of optimum machinery and Replacement criteria; Break-even analysis, reliability and cash flow problems;

**Unit IV**

mechanization Planning; case studies of agricultural mechanization in India.

**Unit V**

Human Engineering aspects and gender studies.

**TEXT BOOKS:**

1. Barger, E.L., Liledahl, J.B., Carleton, W.M. and Mckibben, E.G. (1978). *Tractor and their power units*. Wiley Eastern pvt. Ltd, New York
2. Donnel Hunt. *Farm Machinery and management*. Iowa State University Press, Ames, USA.
3. Kepner, R.A., Bainer Roy, and Barges, E.C. (1978). *Principals of Farm Machinery*, . CBS Publishers and Distributors, Delhi-17

**REFERENCE BOOKS:**

1. Mehta M.L. et al. (1995). *Testing and Evaluation of Agricultural Technology* . Information Centre, Ludhiana, India
2. Radhey Lal and Datta, A.C. (1978). *Problems in Agricultural Engineering*. Sathya Prakashan, Allahabad
3. RNAM . (1955). *Test codes and Procedure for farm machinery*