

(AG520) Biomass Management for Fodder and Energy

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Unit 1

Introduction to biomass management, biomass resource assessment management techniques/supply chains,

Unit II

Processing of paddy straw, densification- Extrusion process, pellets, mills and cubers, Baling-classification, uses;

Unit III

residue management for surface mulch and soil incorporation, Paddy Straw choppers and spreaders as an attachment to combine Harvester, Mulch seeder,

Unit IV

Paddy Straw Chopper-cum-Loader, Balar for collection of straw; Processing of straw/ fodder for animal use;

Unit V

Agricultural and horticultural use, Cushioning material for fruits and vegetables, Mulching and Composting, Paper and cardboard manufacturing, Straw as a fuel.

TEXT BOOKS:

1. Chahal, D.S. (1985). Food, Feed and Fuel from Bio mass . IBH Publishing . Pvt. Ltd. NewDelhi.
2. Chakravarty, A. (1989). Bio Technology and other Alternative Technologies for Utilisation of Bio-mass/Agri.Wastes. Oxford & IBH Pub.Co.Pvt Ltd.

REFERENCE BOOKS:

1. Alba S. A.E. Humphery and N.E. Milles. (1973). Bio Chemical Engineering (2 ed.).
2. Baily, J.E and D.F. Ollies. (1986). Bi Chemical Engineering Fundamentals (2 ed.). Prescott and Dunn Industrial Micro Biology.