

NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

NPTEL Video Course - Agriculture - NOC:Design of Farm Machinery

Subject Co-ordinator - Prof. Hifjur Raheman

Co-ordinating Institute - IIT - Kharagpur

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

- Lecture 1 - Moldboard plow
- Lecture 2 - Forces acting on moldboard plow
- Lecture 3 - Draft of moldboard plow
- Lecture 4 - Disk plow
- Lecture 5 - Disk Harrow
- Lecture 6 - Design of Disk Harrow
- Lecture 7 - Numericals related to design of tractor drawn disk harrow
- Lecture 8 - Design of a Tractor drawn Disk Harrow
- Lecture 9 - Design of spike tooth harrow
- Lecture 10 - Cultivator
- Lecture 11 - Forces and moments acting on the shank and frame of a cultivator
- Lecture 12 - Design of tractor drawn cultivator
- Lecture 13 - Rotavator
- Lecture 14 - Soil resistance and specific work of the rotavator
- Lecture 15 - Design of components of a rotavator
- Lecture 16 - Design of a tractor drawn rotavator
- Lecture 17 - Design of a tractor drawn rotavator (reversed mode)
- Lecture 18 - Combination tillage implements
- Lecture 19 - Draft and power requirement of combination tillage implements
- Lecture 20 - Design of a passive-passive combination tillage implement
- Lecture 21 - Design of an active-passive combination tillage implement
- Lecture 22 - Computation on design of active-passive tillage implement
- Lecture 23 - Performance parameters
- Lecture 24 - Performance parameters (Continued...)
- Lecture 25 - Tillage performance index
- Lecture 26 - Seed drill/planter
- Lecture 27 - Components of seed drill and its calibration
- Lecture 28 - Performance evaluation of metering unit and design of hopper
- Lecture 29 - Designs of fluted roller metering unit and ground wheel

Get DIGIMAT For High-Speed Video Streaming of NPTEL and Educational Video Courses in LAN

<http://www.digimat.in>

NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

- Lecture 30 - Design of single seed metering unit
- Lecture 31 - Designs of feed roll shaft, furrow openers and frame
- Lecture 32 - Design calculations for fluted roller metering unit and hopper
- Lecture 33 - Seed tube and furrow closer
- Lecture 34 - Seed flow sensing in a seed drill
- Lecture 35 - Design of drum seeder
- Lecture 36 - Design of multi-crop drum seeder
- Lecture 37 - Deciding the dimensions of a multi-crop dryland drum seeder
- Lecture 38 - Design of a remote controlled drum seeder for wetland
- Lecture 39 - Granular chemical applicators
- Lecture 40 - Liquid chemical applicators
- Lecture 41 - Low pressure liquid chemical applicators
- Lecture 42 - Selection of pumps for liquid chemical applicators
- Lecture 43 - Atomizers
- Lecture 44 - Performance evaluation of sprayers
- Lecture 45 - Droplet size determination
- Lecture 46 - Factors affecting droplet size
- Lecture 47 - Solar Energy operated unmanned sprayer
- Lecture 48 - Working principle of harvesters
- Lecture 49 - Components of harvesting equipment with shear cutting
- Lecture 50 - Geometry of knife section and model for estimating load causing failure of stem
- Lecture 51 - Design of a self-propelled vertical conveyor reaper
- Lecture 52 - Numericals related to cutting by impact and shear
- Lecture 53 - Design of an electric-vertical conveyor reaper (E-VCR)
- Lecture 54 - Power requirement and field performance of an electric vertical conveyor reaper
- Lecture 55 - Onion topper cum digger
- Lecture 56 - Classification, working principle and factors influencing performance of threshing equipment
- Lecture 57 - Power requirement of threshing equipment and design informations
- Lecture 58 - Performance parameter for evaluation of threshers
- Lecture 59 - Design of a spike tooth thresher
- Lecture 60 - Solar energy operated thresher