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

NPTEL Video Course - Agriculture - NOC:Farm Machinery

Subject Co-ordinator - Prof. VK Tewari

Co-ordinating Institute - IIT - Kharagpur

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

Lecture 1 - Importance of Farm Machines in the Contest of Enhance Production, Multiple Cropping, Labour Scare Lecture 2 - Ploughing and first opening of the soil, the design and component details Lecture 3 - Tractor, implement and soil force consideration for tillage implement design Lecture 4 - Tractor, implement and soil force consideration for tillage implement design Lecture 5 - Mechanics of rotavoator or rotary tillers Lecture 6 - Design of a tractor PTO operated rotavator Lecture 7 - Tractor implement hitching systems Lecture 8 - Mechanics of tractor implement hitch system and traction prediction models Lecture 9 - Laboratory class on traction and tire testing Lecture 10 - Combination tillage implements for efficient land preparation Lecture 11 - LASER guided land laveller Lecture 12 - Introduction of seeding operation Lecture 13 - Types of seed metering devices and their operation Lecture 14 - Types of fertilizer metering, furrow opening and soil covering devices Lecture 15 - Equipment for seeding and planting Lecture 16 - Equipment for precision planting Lecture 17 - Equipment for Paddy Transplanting Lecture 18 - Microcontroller based uniform seed rate application system Lecture 19 - GPS based automatic Variable rate fertilizer applicator Lecture 20 - Embedded GPS integrated Variable Rate Fertilizer Applicator Lecture 21 - Design of a seeding equipment - PART 1 Lecture 22 - Design of a seeding equipment - PART 2 Lecture 23 - Design of a seeding equipment - PART 3 Lecture 24 - Design a tractor drawn seed drill for a 40 hp tractor - I Lecture 25 - Design a tractor drawn seed drill for a 40 hp tractor - II Lecture 26 - Testing of tractor operated seeding equipment Lecture 27 Lecture 28 Lecture 29

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Lecture 30 Lecture 31 Lecture 32 - Farm machines for interculture operation Lecture 33 - Performance of weeding blades of a push-pull weeder Lecture 34 - Advanced level machinery for inter and intra row weeding Lecture 35 - Tractor mounted contact type microcontroller based improved variable rate herbicide applicator Lecture 36 - Design of manually operated weeding equipment Lecture 37 - Plant protection equipment/machinery Lecture 38 - Selection and design of plant protection equipment/machinery Lecture 39 - Manually operated knapsack-cum-boom sprayer Lecture 40 - Performance evaluation of sprayer Lecture 41 - Testing and certification of spraying equipment Lecture 42 - Problems based on the design and selection of spraying equipment - I Lecture 43 - Problems based on the design and selection of spraying equipment - II Lecture 44 - Advanced level spraying equipment Lecture 45 - Advanced level spraying equipment Lecture 46 - Harvesting equipment Lecture 47 - Machines for harvesting cereal crops, root and fruit crops Lecture 48 - Combine Harvester Lecture 49 - Advanced technology approach for cotton harvesting Lecture 50 - hreshing operation and equipment Lecture 51 - Design of threshing equipment Lecture 52 - Performance evaluation and testing of thresher Lecture 53 - Conservation Agriculture Lecture 54 - Materials for construction of farm machinery Lecture 55 - Machinery for Land Drainage, Land Reclamation and Estate Maintenance Part - I Lecture 56 - Machinery for Land Drainage, Land Reclamation and Estate Maintenance Part - II Lecture 57 - Machinery for Land Drainage, Land Reclamation and Estate Maintenance Part - III Lecture 58 - Machinery Selection and Management - Part 1 Lecture 59 - Machinery Selection and Management - Part 2 Lecture 60 - Epiloque

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