

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

NPTEL Video Course - Biotechnology - NOC:Medical Biomaterials

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Co-ordinating Institute - IIT - Madras

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

Lecture 1 - Introduction to Biomaterials
Lecture 2 - Background history
Lecture 3 - History
Lecture 4 - Properties - Mechanical and Physico-chemical
Lecture 5 - Properties - Mechanical and Physico-chemical
Lecture 6 - Mechanical properties
Lecture 7 - Mechanical Properties (Continued...)
Lecture 8 - Resorbability, biodegradation
Lecture 9 - Resorbability, biodegradation (Continued...)
Lecture 10 - Biofilm
Lecture 11 - Biofilm (Continued...)
Lecture 12 - Biofilm (Continued...)
Lecture 13 - Biofilm (Continued...)
Lecture 14 - Material characterization - Analytical instruments
Lecture 15 - Analytical instruments
Lecture 16 - Analytical instruments (Continued...)
Lecture 17 - Analytical instruments (Continued...)
Lecture 18 - Biological responses, compatibility, cytotoxicity
Lecture 19 - Proteins, Tissue and blood Response
Lecture 20 - Cell-biomaterial interaction
Lecture 21 - Animal trials (in vivo)
Lecture 22 - Animal trials
Lecture 23 - Metals-types, classifications, applications
Lecture 24 - Metals - properties
Lecture 25 - Metals - properties (Continued...)
Lecture 26 - Metals - properties (Continued...)
Lecture 27 - Metals
Lecture 28 - Polymers-types, classifications, applications
Lecture 29 - Polymers

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- Lecture 30 - Polymers (Continued...)
- Lecture 31 - Polymer blends
- Lecture 32 - Natural biopolymers
- Lecture 33 - Natural biopolymers - (Continued...)
- Lecture 34 - Biopolymers- proteins / hydrogels
- Lecture 35 - Hydrogels
- Lecture 36 - Experiments
- Lecture 37 - surface modification-Demonstration
- Lecture 38 - Ceramics
- Lecture 39 - Cardiovascular and ocular biomaterials
- Lecture 40 - Sterilisation/Device failure