

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

NPTEL Video Course - Biotechnology - NOC:Experimental Nanobiotechnology

Subject Co-ordinator - Prof. P. Gopinath

Co-ordinating Institute - IIT - Roorkee

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

- Lecture 1 - Synthesis of Nanomaterials Using Ball Milling
- Lecture 2 - Synthesis Of Gold Nanoparticles
- Lecture 3 - Biological Synthesis of Nanomaterials
- Lecture 4 - Synthesis Of Carbon Dots
- Lecture 5 - Synthesis Of Polymeric Nanoparticles
- Lecture 6 - UV-Visible and Fluorescence Spectroscopy
- Lecture 7 - Dynamic Light Scattering and Zeta Potential Analysis
- Lecture 8 - Fourier Transform Infrared Spectroscopy
- Lecture 9 - X-Ray Diffraction
- Lecture 10 - Electron Microscopy
- Lecture 11 - Atomic Force Microscopy
- Lecture 12 - Electrochemical Nano-Biosensor
- Lecture 13 - Fabrication of Nanofibers Using Electrospinning
- Lecture 14 - Synthesis of Hydrogel and Nanogel
- Lecture 15 - In vitro 3D Cell Culture
- Lecture 16 - 3D Bioprinting
- Lecture 17 - In vitro Methods to Study Antibacterial Properties of Nanomaterials
- Lecture 18 - In vitro Cytotoxicity Analysis
- Lecture 19 - In vitro Methods to Study the Apoptotic Potential of Nanomaterials
- Lecture 20 - In vitro Hemocompatibility Test
- Lecture 21 - In vivo Toxicity Studies Using Zebrafish Embryo

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