

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

NPTEL Video Course - Multi Disciplinary - NOC:Introduction to Biomimicry

Subject Co-ordinator - Prof. Sivakumar Srinivasan, Prof. Satya Seshadri, Prof. Mrinalini, Prof. Shiva Subrama

Co-ordinating Institute - IIT - Madras

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

- Lecture 1 - Course overview
- Lecture 2 - What is biomimicry ?
- Lecture 3 - Why is biomimicry important ?
- Lecture 4 - Nature's unifying patterns - Introduction
- Lecture 5 - Case study
- Lecture 6 - How to do biomimicry ?
- Lecture 7 - Learning resources - Biomimicry Institute
- Lecture 8 - Skills, attitudes and mindset for a biomimic
- Lecture 9 - Course activity
- Lecture 10 - Recap of Week 1
- Lecture 11 - What are we mimicking ?
- Lecture 12 - Function and Strategy
- Lecture 13 - Approaches to biomimicry
- Lecture 14 - From Problem to Solution
- Lecture 15 - Using the UNSDG to identify challenges
- Lecture 16 - Recap of Week 2
- Lecture 17 - Step 1 - Define the problem
- Lecture 18 - Step 2 - Biologize the problem
- Lecture 19 - Step 3 - Discover strategies in nature
- Lecture 20 - Applying the Biomimicry Design Spiral
- Lecture 21 - Step 4 - Abstract design strategies from nature
- Lecture 22 - Step 5 - Emulate nature's strategies in your solution
- Lecture 23 - Step 6 - Evaluate feasibility
- Lecture 24 - How to apply the biomimicry process ?
- Lecture 25 - Recap of Week 4
- Lecture 26 - Nature's Unifying Patterns I
- Lecture 27 - Systems Thinking - Introduction
- Lecture 28 - Systems Thinking - Understanding consequences
- Lecture 29 - Nature's Unifying Patterns II

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- Lecture 30 - Tools - Mind mapping
- Lecture 31 - Using biomimicry to design a solution
- Lecture 32 - Recap of Week 6
- Lecture 33 - Developing creative confidence
- Lecture 34 - Learning from the biomimicry process
- Lecture 35 - The need for creativity in our lives
- Lecture 36 - Unlocking your creativity
- Lecture 37 - Taking your biomimicry ideas to market
- Lecture 38 - The journey so far
- Lecture 39 - Finding the hero in you
- Lecture 40 - Course wrap-up