

19. Biomimicry: Nature inspired integrated thinking

COURSE FACULTY **Seema Anand**



Co founder, Biomimicry India ; Adjunct faculty,
RV College of Architecture, Bangalore

Education:

B. Speciality in Biomimicry, Biomimicry 3.8,
USA
5 year Dip. Architecture, TVB School of
Habitat Studies, New Delhi

Experience:

A practicing architect and has taught Biomimicry in more than 100
talks and workshops as part of Biomimicry India since 2012.

CO-FACULTY

Prashant Dhawan



Co founder, Biomimicry India

Education:

BSc in Biomimicry, Arizona State Univ., USA
PGDM, ISB, Hyderabad
B.Arch., School of Planning & Architecture,
Delhi

Experience:

A biomimicry professional who has taught Biomimicry in more than 100
talks and workshops as part of Biomimicry India which include ISRO,
Rolls Royce, INCOSE among many others.

Keywords

Biomimicry, Bioinspired, sustainability,
Biomimetics, Nature-inspired

Overview

This workshop will introduce 'biomimicry', a
new discipline that looks at nature as a source
of ideas and solutions to help solve human
challenges. Each day during the workshop you'll
get to see and learn something new about the
amazing patterns, designs and solutions in
nature. You will also get to play learning games
and go outside to explore nature. You will learn
about biomimicry tools and methodology that
you'll apply as a group project to develop a
nature inspired innovation/solution to a human
challenge.

Course Code: **OE2019** | Seats: **14**

CAMPUS: Bengaluru

Objective

To introduce "Biomimicry: nature inspired design
thinking" approach to the students. Reconnect
with nature: learning to observe and take
inspiration from nature (not 'about' nature but
'from' nature. -Observe and understand nature
by 'function') -Understand and explore how
learning from nature can inspire sustainable and
innovative solutions to human challenges.

Methodology

Lectures & presentation sessions interwoven with
games, movies and activities to understand
biomimicry concepts Field trips & outdoor
exercises to observe, reconnect and identify
patterns in nature -Discussions & student
presentations (peer learning) -Multidisciplinary
explorations (crossing disciplinary boundaries)

Deliverables

Application of the Biomimicry approach in order
to solve problems/innovate in especially in the
fields of design, engineering and business.