

12 days

PDC+ syntropic AGROFOREST

Permaculture Design Certificate

Paraíso Tipu Tipu | Algarve-PT

450€ all included

facilitators



Daniel Mello-Mattos



Cândida Shinn



Ecotopias

Sustentabilidade e Regeneração

www.ecotopias.org



Dates				Week Day	Session 1	Session 2	Session 3	Session 4
27/4	16/5	8/6	29/6	Wed	Intros, Course & Site orientation	Ethics-Principles	Pattern learning & traditional cultures	Energy Flow
28/4	17/5	9/6	30/6	Thu	Patterns 1 presentation	Patterns 2 finding patterns	Ecology Basics	Water in Landscape
29/4	18/5	10/6	1/7	Fri	Soil & Paths on time	Plants & Fungi	Plants-Soils-Water 1	Site Reading
30/4	19/5	11/6	2/7	Sat	Soil making - practical	Design patterns	Design methods	Design tools
1/5	20/5	12/6	3/7	Sun	Tools & management in rural life	Design exercises in movement (zones 0 & 1)	Design exercises ahead (zones 2 & 3)	Design exercises forward (zones 4 & 5)
2/5	21/5	13/6	4/7	Mon	Resource & Energy Conservation	Culture and Society in Deep Ecology	Economy and Justice in a Possible World	Climate & biomes
3/5	22/5	14/6	5/7	Tue	Microclimates & ecosystems	Plants-Soils-Water 2	Forests & Livelihoods	Design exercises - inward
4/5	23/5	15/6	6/7	Wed	Water systems - cycle & recycle	Community engagement & Livelihood learning	Succession & Structure of living systems	Reading Landscapes
5/5	24/5	16/6	7/7	Thu	Full Silence	Debate	Climate-Forest-Soil-Landscape-Rain making	Climate Design
6/5	25/5	17/6	8/7	Fri	Zone 0 - house making & living	Zone 1 - garden & accessible food (practical)	Zone 2 - integrative farm & holistic prospective	Zone 3 - neighborhood & beloved dwellers
7/5	26/5	18/6	9/7	Sat	Zone 4 - countryside life	Zone 5 - live and let live	Practical work: designing a farm & beyond	Practical work: designing a farm & beyond
8/5	27/5	19/6	10/7	Sun	Practical work: understanding the design	Design presentations	Design presentations	Party

ECOTOPIAS PDC+ - PERMACULTURE DESIGN COURSE + SYNTROPIC AGROFOREST - TIMESCHEDULE AND CALENDAR

Day 1 - 27 april- Wednesday

Session 1- Intros, Course & Site orientation

Welcoming

Brief presentations & games

Tour

Course presentation & brief history of Permaculture

Session 2- Ethics-Principles

Ethics : The three cares: Earth, People, Future

Principles: Observe & interact; Gather & Store energy; Obtain a yield; Find regulation & accept feedback; Use & value renewable resources, services and knowledges; Produce no waste; Design from patterns to details; Integrate rather than segregate; Use adequate scale solutions; Value diversity; Use edges and margins & explore layers of periphery; Creatively use & respond to change

Session 3- Pattern learning & traditional cultures

What are patterns and where to find them?

Who defines what is a pattern and how to understand

Pattern shaping vc pattern joining

Session 4- Energy Flow

From the begining: thermodynamic principles and other physicalities

Life, dissipative structures and negentropy

Convection, capilarity and bifurcations for border effect

Creating life from life, because life is always there

Day 2 - 28 april - Thursday

Session 1- Patterns 1 - presentation

Systemic thinking - linear and non linear causalities

Traditional Mollison & Holmgreen approach

Session 2- Patterns 2 - finding patterns

Ethics and principles as patterns

ODS, Agenda 21, Earthcharter, Agenda Habitat as patterns

A Cell (structural isolation) and the problem of the boundaries in ecology

Meditation: Am I an organism?

Session 3- Ecology Basics

The Sun, The Earth and origins of life

Systems & Chains, Dynamics & Mechanics

The 4 pillars: homeostasis, resilience, self organization, bifurcation

Atmospheric circulation

Trophic networks

Session 4- Water in Landscape

Air moisture, water vapour, clouds, rainfall, watershed, water table, rivers, lakes, oceans

Pinching water for everybody's benefit

No drink no deal

Fighting desertification with bare mindset

Day 3 - 29 april - Friday

Session 1 - Soil & Paths on time

Every erosion starts with uncover

Perenization as a forecast, or the possible meanings of permasoils

Ancient roads and what can we learn from them

If you go one time, no road; if more follow you, beware the consequences

Systemic fertility

Session 2- Plants & Fungi

How the plants get food

Fantastic Fungi and The Micelliæ (just another band's name)

Life beyond measure. Thinking like a forest

Roots systems stratification

Session 3- Plants-Soils-Water 1

Hipermar and the sponge effect

Watersheds, Water tables, Biotic pump part 1

Paleoclimatology of the Eastern Sahara

Making rivers great again

Session 4- Site Reading

Finding ways to live with the dwellers

Applying the 12 principles in 15 minutes: give us examples

Day 4 - 30 april - Saturday

Session 1- Soil making - practical

Composting and/or mineralization

Increasing life underground fast

Many ways for raising black earth

Session 2- Design patterns

4 exercises of patternhood:

a) Self sufficient cave

b) Self sufficient city

c) Self sufficient region

d) Self sufficient continent

Session 3- Design methods

Differences between hollistic, integral and other unified methods

Theoretical issues on design: what about we cannot see before we do?

Combining approaches: Empirical, Qualitative, Collaborative, Participative, Situational, Prospective, Solidary

Session 4- Design tools

Collaborative tools:

- maps
- interviews
- history
- trees
- clouds
- diagrams

Day 5 - 1 may - Sunday

Session 1- Tools & management in rural life

Basic tools safety, use & maintenance

Session 2- Design exercises in movement (zones 0 & 1)

What goes where?

Testing and retesting the effects of the design

Session 3- Design exercises ahead (zones 2 & 3)

Around the around: combining layers with distance, time and scale

Testing and retesting the effects of the design

Session 4- Design exercises forward (zones 4 & 5)

Popping the bubble: no boundaries for nature today

Use less the uselessness

Testing and retesting the effects of the design

Day 6 - 2 may - Monday

Session 1- Resource & Energy Conservation

Carbon as a source of living energy, storing carbon and life together

Huge food production with no more than us

Session 2- Culture and Society in Deep Ecology

Design practices: social and spiritual engagement of all living beings

Session 3- Economy and Justice in a Possible World

Design practices: social and political engagement of all living futures

Session 4- Climate & biomes

Brief presentation about river cycles, soil building and depletion and plant adaptation

Day 7 - 3 may - Tuesday

Session 1- Microclimates & ecosystems

Brief presentation about structure of ecosystems, stratification, succession ecology of communities evolution and livelihoods

Session 2- Plants-Soils-Water 2

Hipermar and the sponge effect, Watersheds, Water tables, Biotic pump part 2

Roots systems stratification: increasing life underground fast

How the forests get food with Fungi: many ways for raising black earth

Life beyond measure. Thinking like a forest

Paleoclimatology of the Eastern Sahara, Making rivers great again

Session 3- Forests & Livelihoods

Brief presentation about forest peoples around the world.

Debate

Session 4- Design exercises - inward

Day 8 - 4 may - Wednesday

Session 1- Water systems - cycle & recycle

Traditional and modern tools to bring and distribute water

Water treatment basics - brief presentation

Water reuses

Session 2- Community engagement & Livelihood learning

Design practices: unlearn the taught every day and observe as if it was the first time

Session 1- Succession & Structure of living systems

Who comes first, the shocken or the ego?

All together: stories up and down the time&space

Take a deep breath, we are here (what could we do if we did)

Humankind as a(nothered) living system

Session 4- Reading Landscapes

When a landscape can exist?

Drawing future and past together with the same pencil

A no-dime landscape, or how the first peoples carved and thrived?

Hierarchy: first the primal - sun, gravity, water, paths, plants, sights.

Day 9 - 5 may - Thursday

Session 1- Full Silence

Session 2- Debate

Session 3- Climate-Forest-Soil-Landscape-Rain making

Weaving web of life: improving structures and functions of agroecosystems

Build clouds as a life style

Session 4- Climate Design

How many hectares of agroforest do we need to feed the world?

Atmospheric circulation and climate balances

Climate design

Day 10 - 6 may - Friday

Session 1- Zone 0 - house making & living

Fundamentals of bioconstruction

Techniques clipshow

Session 2- Zone 1 - garden & accessible food (practical)

Before you start the task of changing the world, go around your house three times and find what to eat every day

Session 3- Zone 2 - integrative farm & holistic prospective

Re-tour on the land testing and retesting designs

Debate

Session 4- Zone 3 - neighborhood & beloved dwellers

Bringing together all landscape partners to the agora. Why and if not?

Day 11 - 7 may - Saturday

Session 1- Zone 4 - countryside life

Designs of the future with family, friends and global changes

Session 2- Zone 5 - live and let live

Design exercise: what else do we need for a perfect planet?

Sessions 3-and 4- Practical work: designing a farm & beyond

Tip: where is the cloud fence?

Day 12 - 8 may - Sunday

Session 1- Practical work: understanding the design

Redoing a farm & beyond design, once again

Debate

Session 2- Design presentations

The Talent's Show

Session 3- Design presentations

The Talent's Show

Session 4- Party