

PANCHABHUTA CONSERVATION FOUNDATION

Kagala – Beerkodi, Kagal Beach
Kumta Taluka — 581351 Karnataka
Tel: +91 99201 63290
E-mail: info@panchabhuta.org
<http://panchabhuta.org>



Exact details subject to change. For any additional questions, please contact adarsh@panchabhuta.org

1. Full PDC Course Summary

Title: Panchabhuta / Mark Garrett Permaculture Design Certification Course

When: Course starts 15 January 2017 and lasts until 25 January 2017

Teachers: Mark Garrett and guests

Where: Kagal village, Kumta Taluk, Uttara Kannada District, Karnataka

What: Join permaculture expert Mark Garrett for a 10-day, 72-hour certified Permaculture Design Course based on *Permaculture: A Designer's Manual* by Bill Mollison, the co-founder of the global permaculture movement.



The course — split into two segments with a rest day in between — teaches design solutions based on a

fundamental rule: Without carbon, nitrogen, oxygen and water (CNOW), there is no life. The course presents this CNOW framework coupled with principles of permaculture design to build sustainable living systems for all.

Why: The course aims to address myriad development challenges such as polluted water, destructive construction, depleted soils, dwindling biodiversity, declining public health and unsustainable consumption. In contrast to many current practices, permaculture design solutions can bolster healthy ecosystems with healthy soils that support healthy food and healthy people.

The Panchabhuta / Mark Garrett Permaculture Design Course will teach participants about combining a design and planning techniques that range from closed loop waste management to sustainable agro-ecological systems to ecologically sensitive construction. Using nature as a guide, these principles can restore life for all.

Finally, as Mark says, “If it’s not fun, it’s not permaculture...”

Topics covered:

- Permaculture Ethics and Principles
- Concepts and Themes in Design
- Design Methods

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- Observing Patterns in Nature
- Sector Analysis
- Zone Planning
- Structures
- Waste to Wealth
- Climate
- Water
- Soils
- Trees/Flora/Fauna
- Earth Works
- Permaculture and Community



About Mark: For more than 25 years, Mark has developed, practiced and taught permaculture design on four continents. His work has included resort, residential and educational projects, for notable clients such as Six Senses Resorts and Necker and Mustique Islands. Mark originally coined CNOW term while working here in India with the Panchabhuta Conservation Foundation.

Who should attend: This course is aimed at anyone with interest in practically applying permaculture techniques to address real-life development problems. Large-scale developers, individual homeowners, government planners, NGOs, farmers, community leaders, educators and others are welcome.

Sign-up now: The course will accept registrations on a first-come, first-serve basis for a group of 10 to 15 participants, allowing Mark to customize the experience and maximize learning for all.

Fees for PDC: The course cost is all-inclusive of room, board and instruction. Per person prices are as follows:

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- INR 65,000 per person for a bed in a two-bed cottage (twin occupancy)
- INR 55,000 per person for a bed in a for quad cottage occupancy
- INR 45,000 for tented accommodation
- Until November 15, we are offering a 20 percent discount for early-bird registrations, so book your spot while they are available.

Included:

- All inclusive course set in beautiful Kagal, a quiet end-of-the-road beach destination near the Aghanashini Estuary, one of India's coastal biodiversity hotspots.
- Ten days of instruction and one day of break for exploring the local community and natural beauty
- On-site room and board in shared cottage rooms or individual tent accommodation
- Visits to Panchabhuta Conservation Foundation projects and community sites
- Training and instruction for solving participant's design challenges
- Internationally recognized Permaculture Design Certificate (PDC) on successful completion of the course



Overview of schedule:

- We suggest that participants aim to arrive at Panchabhuta Conservation Foundation by the afternoon or evening of 14 January.
- Instruction is expected to start on the morning of 15 January.
- A break day is typically given for students to socialize, tour locally or study deeper with their own permaculture interests.
- The course ends on 25 January with departures that evening or following morning.



For more information and registration: Visit our Web page at <http://panchabhuta.org/PDC/>

To contact us: Email the Panchabhuta Conservation Foundation at adarsh@panchabhuta.org

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2. Permaculture Design FAQ

What's the course about?

The full Permaculture Design Certification course, taught by Mark Garrett and hosted by Panchabhuta Conservation Foundation, offers hopeful alternatives to today's so-called modern development that has endangered many ecosystems, communities and lives across the globe. The course provides straightforward training in permaculture techniques to address many sustainable development challenges; students learn from real-life situations and come away ready to apply a suite of permaculture strategies to enhance and maintain sustainable lives and ecosystems.

Course instruction is based on the fundamental notion that life on earth requires four primary ingredients — carbon, nitrogen, oxygen and water (CNOW). But the course goes beyond the theoretical as participants learn practical tools and techniques of permaculture design for bolstering these crucial ecosystem components.

The course moves beyond theory into practical, hands-on experience. Participants have fun in the field, get



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down-and-dirty and learn permaculture by doing.

These techniques are based on instructor Mark Garrett's decades of practice and teaching and follow the foundational work of Bill Mollison, co-founder of the global permaculture movement.

What is permaculture?

Bill Mollison, author of *Permaculture: A Designer's Manual*, coined the phrase permaculture to stand for "permanent agriculture." At its core, permaculture is the "conscious design and maintenance of agriculturally



productive ecosystems which have the diversity, stability and resilience of natural ecosystems." But permaculture is more than just a way of producing food. According to Mollison, it entails the "harmonious integration of landscape and people providing their food, energy, shelter and other material and non-material needs in a sustainable way... The philosophy behind permaculture is one of working with, rather than against, nature; of protracted and thoughtful observation rather than protracted and thoughtless action; of looking at systems in all their functions, rather than asking only one yield of them; and of allowing systems to demonstrate their own evolutions."

It's this principled design strategy — one that deals with agricultural, ecological, economic and social challenges — that Mark Garrett learned from Mollison himself and now practices and teaches across the world. But the permaculture design taught by Mark is hardly limited to theoretical classroom time. It's hands-on and field-based; as Mark likes to say, if it's not fun, it's not permaculture.

What does the course involve?

Mark runs a packed course — 10 learning days split into two segments with a break day in between. Days are generally divided into thematic teaching and discussion sessions, and students are also exposed to permaculture ideas, design and examples through a variety of film presentations, field visits and hands-on demonstrations.

The outline below gives applicants an idea of what they can expect, though the actual schedule is subject to change and availability of guests, field visit logistics, etc. Some sessions may also be tailored more to student needs once the group is established.

What do the days look like?

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The exact day-to-day schedule is subject to change and will likely be tailored to available field visits as well as individual participant needs. Below is a sample schedule based on past offerings of the course.

Day 1 presents an overview of the ethics and principles behind permaculture design. Students get a chance to introduce themselves and their motivation for participation. Mark offers an introduction to the basics and discusses the ethical decision to take responsibility for our own and our children's existence and the thought process for permaculture design. The day also includes introductory science such as the drivers/impacts of climate change, water/temperature cycles and the basics of soil.

Day 2 focuses on design, including basic principles as well as the tools and methods of analysis, observation, planning and more. Mark offers numerous resources for the novice and expert permaculture designer and provides real-world examples. Students also get a taste of some key design concepts including yields and cycles of a permaculture system and the principle of disorder. The day wraps up with time for each participant to begin work on an individual design for her or his specific needs, a process that will continue throughout the week.

Day 3 returns to the science and ecological principles driving permaculture design. Specifically, much of the work this day will focus on the climate and its patterns as well as the numerous factors to analyze, such as technology, animals, topography and risk. The day also includes a trip into the field for some first-hand experience with thoughtful observation of nature, which is a key part of the permaculture method. In addition, participants get an introduction to composting, which will be developed over the coming days.

Day 4 begins to move participants to thinking about how their build and site design fits within the natural environment. Much the day focuses on questions of appropriate structures and the structure of site. This includes talk about access. The day also features additional community visits so students can begin to see the potential or need for permaculture in practice.

Day 5 returns to natural science and in particular the crucial role and function of trees and water systems. Mark takes participants through the numerous benefits of trees, ranging from protection from wind and radiation to their regulatory functions in controlling microclimates and protecting soil. This is followed by an introduction to the related water cycle and the importance of planning for closed-loop systems, water harvesting and on-site treatment of consumed grey and black water.

Day 6 digs into the all-important but often under-regarded topic of soil and its crucial role in a healthy ecosystem. This includes a detailed explanation of soil components and the relationship between healthy soil and the food web. The day also features tools and

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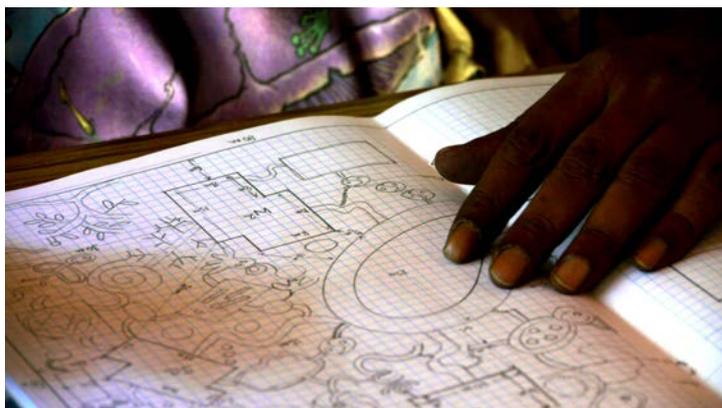


techniques to rehabilitate degraded soil (a common problem today) and introduces the important steps to proper site assessment.

A Day of Break gives students a bit of rest and relaxation after an intense first-half of the permaculture design course. Participants may simply relax, socialize (or brainstorm) among themselves or enjoy the wonders that the Aghanashini estuary has to offer for sightseeing. The exact timing of this day may change with the needs of the workshop.



Day 7 follows up on the discussion of dirt with an introduction to earthworks, banks, topographic resources and the like. The discussion shifts to revisit the topic of waste and waste handling and the importance (and value) in sustainably turning waste (ranging from grey water to kitchen food scraps to organic forest litter) into wealth. This includes a



discussion of the idea of an organic wealth centre, which is part of Panchabhuta Conservation Foundation's community development strategy.

Day 8 deals with a topic of particular importance for many practitioners in India: tropical permaculture. These sessions highlight particular characteristics of tropical soils and soil building as

well as permaculture-appropriate construction in a monsoon environment. The day also features a session on incorporating animal systems such as chicken coops and integrated fishponds, as well as time for students to work on their own individual designs.

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Day 9 gives participants a look at strategies for other climates — the extremes of deserts and frosty regions. Then the discussion moves beyond individual practices and returns to bigger picture motivations, ideals and strategies in permaculture for communities. The day wraps up with substantial time for students to work on their own individual designs and get one-on-one guidance.

Day 10 turns attention to the students themselves. After a final session of planning individual designs, participants present their ideas and plans for trainers and receive feedback. The day ends with a debrief, a discussion of what participants each take away from the course and the formal presentation of Permaculture Design certificates. The night dinner allows students to relax with their new friends and colleagues before departure the next morning.

Who should consider applying?

Permaculture has numerous applications for designing sustainable, healthy development that supports humans working in concert with natural systems. These tools, techniques and strategies can be useful for people from numerous backgrounds, professions and vocations. This includes developers of property large or small (from the resort to the single-family home); urban and rural planners (as permaculture is not limited to traditional agricultural settings); NGOs interested in working for new forms of sustainable development; government officials and leaders who are attempting to transform their communities and regions; farmers and food producers who wish to gain the benefits of sustainable, economical, ecological and resilient design; educators looking to bring a discussion of permaculture into learning environments; and anyone else facing environmental, health and development challenges.



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What is the registration process?

Please visit <http://panchabhuta.org/PDC> and follow the links for registration. The registration page will gather a few details about you and your interests in the course.

Also, please denote which type of accommodation you desire. As spaces fill, it's possible that your preferred accommodation will not be available.

Once your registration is complete, please send an e-mail to adarsh@panchabhuta.org notifying that you have submitted the documentation.

Registration will be accepted on a first-come, first-serve basis, so don't delay. The course is also intended to be taught to a relatively small group (no more than 10 or 15 students) in order to give maximum attention and allow personalization of the course. Extra students who are interested may be waitlisted or offered space in a future workshop.

What are the procedures for paying?

After registering for the course(s), participants will be contacted to work out an appropriate method of advance payment. Only upon receipt of payment will course space be reserved.

What does the fee cover?

In addition to all course materials, instruction and training, the fees for courses include:

- Accommodation either in a shared room or single-person tent (with varying costs outlined above).
- All meals — lunch and dinner on the arrival day, three daily meals during course days as well as the break until dinner on the final departure day.
- All instruction materials and an internationally recognized Permaculture Design Certificate upon successful completion.

What do I need to bring?

In addition to clothes and personal items (including a bath towel), participants should bring drawing and drafting needs such as sketchbook, colour pencils, pencils, rubber, sharpener, graph paper, notebook, ruler, compass, pens, etc. If possible, students should also have survey maps, Google Maps and/or contour maps of their own land, farm or a property they are planning to design. Computers are not necessary; Internet may or may not be available.

What can I do to prepare?

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Students can prep by reading some of the foundational work by Bill Mollison such as *Introduction to Permaculture* (available on the web) and *Permaculture: A Designer's Manual*. Search by Google to find these and other books online. Mark recommends students purchase the *Designer's Manual* as a ready reference book.

Where is this located?

The course will be held at the Panchabhuta Conservation Foundation site in Kagal, a small coastal village near the Aghanashini River estuary. The property faces the beach and provides a quiet environment surrounded by rice paddy and buffeted by the sound of waves. During January, the coastal winter means slightly chilly nights and early mornings and pleasant, mostly sunny days.

Panchabhuta Conservation Foundation is accurately marked on Google Maps. Just search and you'll find us.

How do I get there? Is there pick-up or drop-off?

Kumta is the nearest major bus stand and railhead with connections to other places along the Karnataka coast as well as to Bangalore. Auto rickshaws are available in Kumta that will run to Panchabhuta's location (Kagal, Nirvana Beach) for around Rs. 300 one-way.

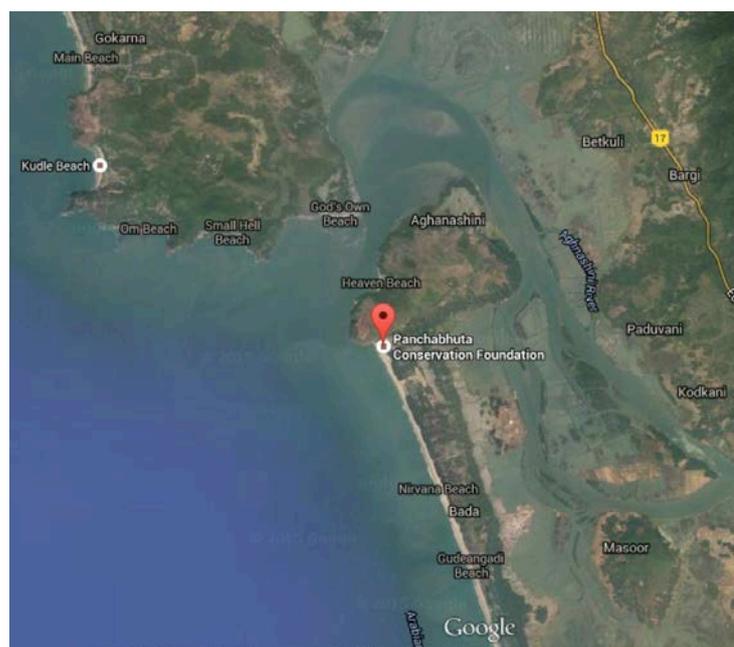
Panchabhuta can also arrange pick-up and drop by taxi from the bus stand or train station can be arranged for additional charges. Please mention this when you contact adarsh@panchabhuta.org

Goa is the nearest airport. From there, the drive to Kagal by car is approximately three-and-a-half hours. Again, Panchabhuta can arrange this pick-up from Goa for additional fees.

What are the facilities like?

Participants will be housed at the Panchabhuta foundation site, which includes a number of small houses built around a permaculture site intended to mirror traditional building practices in this region. It also serves as a community development and research center.

Participants are treated to comfort and security in tastefully appointed and comfortable accommodations. The shared accommodations are in beautiful fan-cooled wooden



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cottages with platform beds and comfortable contemporary mattresses; Panchabhuta also keeps a stock of modern, individual camping tents with sleeping pads for individual accommodation beneath the stars. Toilet/shower blocks are separated by gender and come with Western commodes, clean/solid fixtures, good water and hygienic conditions; all washrooms are kept in pristine condition.

The kitchen is equipped to cook sumptuous meals from locally sourced ingredients. The property is staffed by sincere and friendly people who work hard to make sure all visitors are properly taken care of. If you have any particular concerns about access or accommodating a particular need, please contact us.

Who do I contact if I want more information?

After reading this FAQ, if your questions are still not answered, please send an e-mail to adarsh@panchabhuta.org with the subject line "Question about Panchabhuta / Mark Garrett Permaculture Design Course."