



Sustainable Paradise:  
Unveiling Bali's Smart City  
Potential

# Course Overview and Schedule

With its exemplary sustainability practices, Bali serves as a living laboratory for studying the challenges and opportunities of sustainable development and smart city implementation. The island's commitment to environmental preservation, coupled with its ability to preserve cultural heritage while embracing innovation and entrepreneurship, provides valuable insights into the integration of tradition and progressiveness. Moreover, Bali's diverse stakeholders, including small businesses, actively contribute to sustainable practices and community engagement. Local Businesses play a vital role in fostering economic growth, driving innovation, and supporting local communities. By studying Bali's sustainable initiatives and engaging with the people of Bali, participants gain practical knowledge and inspiration for developing sustainable and smart cities in their own contexts. Through a faculty-led program in Bali, participants can explore firsthand the complexities of balancing environmental, social, and economic factors in achieving sustainable urban development.



## Day 1: Arrival in Bali and Orientation

- Arriving at the Accommodation, program overview, practical information
- **Welcome Dinner at Bali Buda** (including owner speech)

- By sourcing from local farmers who practice sustainable farming techniques, Bali Buda not only ensures the availability of wholesome ingredients but also promotes the vitality of the Balinese agricultural sector.

At the core of Bali Buda's ethos is a commitment to sustainability. This commitment permeates every aspect of their operations. They champion environmental programs such as EcoBali Recycling, which fosters a culture of waste reduction and recycling. Additionally, their active support of organizations like Indonesia Organic and the Bali Organic Association underscores their dedication to promoting organic farming practices that safeguard the environment and public health. By actively advocating for initiatives like "Say No To Plastic," Bali Buda actively contributes to reducing plastic waste and preserving Bali's pristine natural beauty. However, Bali Buda's impact transcends the realm of food and sustainability. They wholeheartedly support various health projects that provide low-cost or free services to underserved communities in Bali. By nurturing the well-being of their fellow Balinese citizens, they contribute to the development of a more equitable society, aligning with the principles of community empowerment and inclusivity. In the context of smart city development, Bali Buda exemplifies the harmonious integration of sustainability, community support, and cultural preservation.



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## Day 2: Introduction to Public Administration and Governance

- **Guest Lecture** by a local expert on public administration in Bali
- **Workshop 1: Case studies on successful public administration strategies in Bali**
  - Participants will gain insights into successful public administration strategies employed in Bali. They will understand how effective governance, community engagement, and sustainability considerations contribute to the island's development. By analyzing these case studies, participants can draw lessons and apply them to their own contexts, fostering the advancement of sustainable public administration strategies and smart city development worldwide. Examples: Waste Management: Bali's Innovative Recycling Initiatives, Community-Based Tourism: Preserving Cultural Heritage, Smart City Solutions: Transforming Urban Spaces, Sustainable Agriculture: Supporting Local Farmers, Coastal Management: Balancing Tourism and Environmental Preservation
- **Cultural Immersion: Uluwatu Kecak Dance**
  - Set against the backdrop of the Uluwatu Temple perched on a cliff overlooking the Indian Ocean, this traditional Balinese dance performance originated in the 1930s creates a magical atmosphere. The Uluwatu Kecak dance is an immersive experience, engaging the audience through synchronized chanting, energetic dance movements, and vibrant visuals. Taking place at the Uluwatu Temple, a sacred site in Bali, it offers a spiritual connection and a deeper understanding of Balinese traditions as it combines music, dance, mythology, and spirituality.

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## Day 3: Smart City Framework and Best Practices

- **Round Trip: The concept of smart cities and its components**
  - Site visits to local smart city projects and initiatives
    - Renewable Energy: Bali has invested in renewable energy, such as solar power, to reduce the island's reliance on fossil fuels. The **Garuda Wisnu Kencana Cultural Park** is an excellent example of sustainable energy use, which uses solar power to light up its iconic statue.
    - Smart Infrastructure: Bali has implemented various smart infrastructure technologies, such as smart traffic management systems and intelligent street lighting. The Bali Mandara Toll Road is an example of a smart road, which uses smart technologies to reduce traffic congestion and improve road safety.
    - Have a short break at Tanjung Bena Beach, where students can oversee the toll road and visit a turtle conservation park.
    - Green Spaces: Bali has numerous green spaces, such as parks, gardens, and protected areas. The **Bali Botanical Garden** is an example of a sustainable green space, which preserves the island's biodiversity and educate visitors about the importance of conservation.



- **Group activity to evaluate and analyze best practices in smart city development**
  - Encourage participants to consider how they can apply the insights gained from the visits to their own roles or future projects. Emphasize the value of continuous learning and staying informed about emerging trends and technologies in smart city development.

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## Day 4: Sustainable Urban Planning in Bali

- **Workshop 4: Sustainable Development and Resource Management**
  - This workshop will focus on the principles of sustainable development and how to manage natural resources in a way that supports economic development while protecting the environment. Students will learn about the concept of the circular economy, which aims to eliminate waste and promote resource efficiency, and will work in groups to develop a sustainable development plan for a hypothetical project. By the end of the workshop, students will have a better understanding of how to balance economic development with environmental protection and how to incorporate sustainability principles into community development projects.
- **Visit to famous Tegalalang rice fields**
  - Visiting the famous Tegalalang rice fields in Bali is a must for those interested in urban sustainability. These traditional terraced landscapes showcase sustainable agriculture, ecological preservation, and the preservation of cultural heritage. They provide insights into efficient resource management, community empowerment, and serve as inspiration for sustainable urban planning. Moreover, the popularity of Tegalalang rice fields as a tourist destination provides opportunities for local businesses, including accommodations, restaurants, and tour operators, creating a positive impact on the local economy and livelihoods of the community.
- **A speech and sharing session on Sustainable Agriculture and Food Security.**

Bali is a flourishing culinary scene. As global awareness about sustainable and eco-friendly lifestyles rises, Moksa Plant-based Restaurant & Permaculture Garden stands to join the bandwagon as a healthy and eco-friendly culinary establishment.

  - Dinner at Moksa Plant-based Restaurant & Permaculture Garden. Students can hand-picked the ingredients of their dinner from the permaculture garden next to the dining space. A permaculture garden is the best method that follows the forest planting system, replicating the natural ecosystems. Moksa Plant-based Restaurant & Permaculture Garden showcases more than 60 species of edible plants as the local and healthy source of their food ingredients at the restaurant.



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## Day 5: Entrepreneurship and Business Planning

- **Company Visit: The Lawn Canggu**

Tai "Buddha" Graham, a renowned surf legend and the owner of The Lawn, has an intriguing story that led him to Bali. Embarking on his venture with only a modest amount of money, Tai's resourcefulness and determination came into play. He embraced a creative approach to make the most out of his limited resources. Today, Tai Graham has established himself as one of Bali's most successful entrepreneurs, gaining recognition for his contributions to the vibrant party scene with popular establishments such as "Single Fin" and "The Lawn." These venues, known for their vibrant atmosphere, serve as premier bars and day clubs in Bali. Tai Graham's journey exemplifies the resilience, tenacity, and entrepreneurial spirit required to succeed in a competitive industry. His story serves as an inspiration to aspiring entrepreneurs and showcases the opportunities that can arise from pursuing one's passions in unexpected places. Through his hard work and innovative thinking, Tai has left an indelible mark on Bali's entertainment landscape, creating spaces where locals and visitors alike can gather, connect, and enjoy the vibrant spirit of the island.

- **Warmadewa University Campus Visit and Lecture**

Warmadewa University, one of our esteemed and prestigious partner universities, invites students to participate in a campus tour to explore the universities in Bali and connect with their student community. This opportunity aims to provide students with an insight into academic life in Bali while benefiting from the expertise of Warmadewa University's academic staff. During a session, our partners will discuss Bali's emerging economy, the establishment of entrepreneurs, the growth of businesses, and the associated challenges. This will provide students with valuable knowledge and a deeper understanding of the dynamic business landscape in Bali. The campus tour serves as a platform for students to immerse themselves in the academic environment of Warmadewa University and gain firsthand experience of the educational opportunities and resources available. Additionally, they will have the chance to interact with fellow students and engage in cultural exchanges, fostering a sense of global citizenship and expanding their perspectives.

A mini workshop in which Warmadewa local students will show and teach students how to make "Canang Sari", one of the Balinese Hindus' daily offerings to God, which can be seen in Balinese temples, shrines in houses, and on the grounds.



- **Cultural Immersion: Pura Tanah Lot**

Pura Tanah Lot, a sacred sea temple in Bali, holds immense cultural and spiritual significance. Perched on a rock formation along the coast, it offers breathtaking sunset views and serves as a sanctuary for worship and meditation. This iconic landmark showcases Balinese heritage, featuring intricate stone carvings and ancient rituals. Its unique location and harmonious blend of nature and spirituality make it a popular tourist attraction, contributing to Bali's vibrant tourism industry. Pura Tanah Lot represents the rich traditions and cultural tapestry of Bali, providing visitors with a memorable and spiritually enriching experience.

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### Day 6: Trip to Ubud - The Symbiosis of Culture and Tourism

- **Visit to Ubud Palace and Tirta Empul Holy Water Temple**

A historical building complex, the Ubud Palace, introduces Balinese architecture with many intricated details on the building. The building was once the official residence of the royal family of Ubud, and now it has become one of the most important cultural and tourism sites in Bali. Tirta Empul Holy Water Temple is a temple complex built around a mountain spring. Balinese refer to spring water as holy water.



- **Cultural workshops on Balinese arts, music, and dance at “Nataraja Balinese Dance and Music Lessons” in Ubud.**

Ubud is the center of Balinese art. Nataraja was founded in 1975 to foster local children in the arts. Then in 1982, with the rapid development of tourism in Ubud and the increasing number of tourists arriving, Nataraja opened lessons for tourists by placing a sign "Nataraja Balinese Dance and Music Lessons."

- **Reflection and discussion on the integration of cultural heritage in smart city development**

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### Day 7: One Day/Sunday Off

- **A surfing lesson at Seminyak Beach or a trip to Aling-aling waterfall**

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### Day 8: Cultural Immersion and Community Engagement

- **Activity: Morning Yoga Class**

At Madhuyogasan Bali Studio Canggu or the Yoga Barn in Ubud, where they filmed “Eat, Pray, and Love.”

- **NGO Visit: Mountain Mama**

Mountain Mamas is a social-enterprise with a main mission in empowering women to produce alternative bags from pre-loved materials. Established in 2017, the Mountain Mamas project has ever since been empowering local women in Bali, on the slopes of mount Batu Karu by providing them with trainings and skills developments.

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## Day 9: Biodiversity and Ecotourism

- **Mangrove Ecosystems of Southern beach of Bali (Tahura Ngurah Rai)**

The most extensive mangrove forest destruction in Bali occurred in Taman Hutan Raya (Tahura) Ngurah Rai, 253.4 hectares of the total area of 1,373.5 hectares, making it the largest mangrove forest in Indonesia. Mangrove forests have several functions, namely preventing seawater intrusion, erosion, and abrasion, and were instrumental in forming the island and stabilising the presence of coastal habitat. In addition to these nature conservation functions, mangrove forests play a significant role as tourism attractions (Eco Tourism Mangrove). Eco Tourism Mangrove is a mangrove forest area that not only has a function as nature conservation but also in it there are elements of nature tourism and education where students can enjoy various facilities related to mangrove forest activities. In addition, this mangrove forest area can also be an ecological learning for students associated with various activities that support the sustainability of the mangrove forest itself and as an effort to improve the economy of Suwung Kauh society.



- **Kemenuh Butterfly Park**

In addition to preserving the butterfly ecosystems, Kemenuh Butterfly Park is also established to provide education about the ecosystem. With more than five hundred butterflies, One of the main attractions of this conservation park is one educational building which contains information about butterflies. Students can learn about the butterfly ecosystem by reading the provided information and observing their life cycles.

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## Day 10: Sustainable Tourism

- **Penglipuran Village**

Named as one of the three cleanest village in the world, Penglipuran village is not only famous for its cleanliness and neatness, but also for its people who still preserve traditional Balinese cultures in their daily lives. The architecture of the building and land management still follows the concept of Tri Hita Karana, the Balinese philosophy of the balance of the relationship between God, humans, and the environment. During the visit to the village, students will observe how the residents of the village carry out the traditional Balinese culture into their daily lives despite the modern days influence



- **Tenganan Village**

Visit one of the oldest traditional villages in Bali and learn about traditional Balinese textiles. Students will meet with the locals and observe how they apply their intricate skills in forming unique textured hand-woven "gringsing" textiles.

### Day 11: Waste Management: River Clean up with Sungai Watch

- Sungai Watch is an environmental organization on a mission to stop plastic from going into the ocean. Sungai Watch, in English means "River Watch", is a registered charity both as a Yayasan in Indonesia and a 501(c)3 in the United States. Students will learn how Sungai Watch install the multiple barriers in the rivers to better understand flaws in waste management. Furthermore, they will also gain insight on how they may source the river pollution to optimize the barriers and launch waste management projects.



### Day 12: Cultural Immersion; visit to Pinge village

- Pinge Tourism Village is located in Baru Village, Marga District, Tabanan Regency. This village is situated at an altitude of 500 meters above sea level. The origin or history of the name Pinge Village comes from the ancient Balinese historical heritage temples in this village called Natar Jemeng Temple. According to residents, a white Cempaka grows very large, and the term "ping" itself means "white." Pinge Tourism Village is a Balinese cultural heritage village from the past, quite old; Pinge Village also offers traditional houses that look unique and attractive, such as the entrance to the courtyard or ankle-ankle, which look parallel and neatly arranged. Students can directly see the activities of Pinge Village residents, such as plowing the fields, preparing seeds, planting rice, harvesting rice, storing rice in barns, harvesting flowers, and so on. Furthermore, students can also learn about Balinese culture directly from the Pinge Village residents.

### Day 13: Visit to Nusa Penida Hybrid Solar Power Plant

- Started operating ahead of the G20 Summit in November 2022, the Nusa Penida Hybrid Solar Power Plant continues to supply clean energy for Bali up until now. With a capacity of 3.5 Megawatts peak (MWp), this solar power plant able to reduce emissions of 4.19 thousands tons of CO<sub>2</sub>e per year for Bali island. In addition to supplying clean electricity, the PLTS spanning over 4.5 hectares of land, also serves as a location for educational tourism in Bali.

### Day 14: Farewell

- Closing Ceremony at Warmadewa University  
Hand over a certificate of completion and have traditional Balinese food as lunch.

