

## IAR577 Vernacular Architecture and Sustainability

Faculty of Architecture– Elective course

Credit: 3      ECTS: 7,5



Course Description: IAR 577 Vernacular Architecture and Sustainability explores the architectural characteristics and spatial qualities inherent in vernacular structures across diverse global regions. The course delves into the profound impact of geographical location, topography, and climate on vernacular buildings, emphasizing their critical role in contributing to sustainable design practices.

Course Outcomes:

- Analyze and compare the architectural features of vernacular buildings from various regions, highlighting the influence of cultural, historical, and environmental factors.
- Evaluate the relationship between geographical location and vernacular architecture, recognizing how local materials and construction techniques respond to specific contextual challenges.
- Examine the impact of topography on vernacular design, elucidating how settlements adapt to different terrains and landscapes for optimal functionality and sustainability.
- Demonstrate an understanding of how climate shapes vernacular architecture, exploring passive design strategies employed to regulate temperature, ventilation, and energy usage.
- Critically assess the cultural significance of vernacular buildings, considering their role in community identity and the preservation of traditional knowledge and practices.
- Synthesize knowledge of vernacular architecture and sustainability principles to propose innovative solutions for contemporary design challenges.
- Develop communication skills through the presentation of case studies, effectively conveying the sustainable design strategies employed in vernacular architecture.
- Collaborate in interdisciplinary teams to address real-world scenarios, applying vernacular-inspired sustainable design principles to propose solutions that align with social, economic, and environmental considerations.
- Evaluate the ethical implications of incorporating vernacular architecture principles into contemporary design, considering issues of cultural appropriation, preservation, and responsible adaptation.