

**AMITY UNIVERSITY**  
**SCHOOL OF PLANNING AND ARCHITECTURE, AUMP**



**YEAR -V, SEMESTER – IX**

<b>Course Title</b>	<b>Low cost Architecture</b>			<b>L</b>	<b>T</b>	<b>P</b>	<b>S</b>	<b>Credits</b>
<b>Course Code</b>	<b>BAR 906</b>			<b>1</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>2</b>
<b>Course Type</b>	<b>EC</b>							

**Course Objective:**

To familiarize the student with cost-effective construction for building economy  
To develop an understanding of different issues, types and techniques involved in the design and construction of low cost structures

**Course Contents:**

**Module I: Introduction**

Basic shelter issues in India. National building organization – Recommendation of Housing and Urban Development Corporation

**Module II: Alternative building materials and techniques**

Pressed soil blocks, soil cement blocks and other alternative materials – fly ash brick, gypsum byproducts, ferrocement products, bamboo, jute stalk etc

**Module III: Cost effective building construction methods**

Different types of walling, roofing, foundation. Laurie Baker's experiments in low cost housing. Experiments conducted by CBRI, Roorkee

**Student Learning Outcomes:**

Students will learn the methods and techniques of cost effective Architecture

**Pedagogy for Course Delivery:**

The course is delivered through lectures, field trips and presentation by the students

**Prerequisite:**

Nil

**Assessment/ Examination Scheme:**

<b>Theory %</b>	<b>Lab/ practical/studio %</b>	<b>End Term Examination</b>
<b>100 %</b>	<b>NILL</b>	<b>Theory</b>

**Lab / Practical / Studio Assessment :**

	<b>Sessional work</b>						<b>End Term</b>
<b>Weightage %</b>	<b>50%</b>						<b>50%</b>
<b>Component drop down</b>	<b>A</b>	<b>S</b>	<b>AS1</b>	<b>AS2</b>	<b>CT1</b>	<b>CT2</b>	<b>Theory</b>
<b>Weightage %</b>	<b>05</b>	<b>05</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>50</b>

A : Attendance, S : Seminar, PR : Presentation, AS : Assignment , MSE: Mid semester Exam, VV: Viva Voice, C: Case discussion, P: Project, CT: class test, SW : Studio Work, EE: End sem. Exams.

**Text & References:**

- Alternative Construction, Contemporary Natural building Methods: Edited by Lynne Elizabeth and Cassandra Adams.
- Low cost housing in developing countries by G. C. Mathur
- Laurie Baker by Gautam Bhatia