INTEGRATING SUSTAINABLE HABITAT DESIGN IN ARCHITECTURE CURRICULUM

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EDUCATION MECHANISM IN INDIA

Architecture Education

AICTE
Council Of Architecture
IIA

Canberra Accord 2008
CORE PRINCIPLES

- Awareness of responsibilities towards human, social, cultural, urban architectural and environmental values as well as architectural heritage.
- Adequate knowledge of the means of achieving ecological, sustainable design and environmental conservation and rehabilitation.
- Development of a creative competence in building techniques founded on a comprehensive understanding of the disciplines and construction methods related to architecture.

- Adequate knowledge of project financing, project management, cost control and methods of project delivery.
- Training in research techniques as an inherent part of architectural learning for both students and teachers.
Stage I - Opportunities
Climate and Environment, Building Services
Freedom to institutes to allot 25% study time to subjects of their choice

Stage II - Opportunities
Electives such as Sustainable Architecture, Energy Conscious Architecture, Environmental Studies and Intelligent Buildings
Research Skills and Dissertation

Course content does not include in depth knowledge about fundamental of building physics and diagnostics, rendering inadequate knowledge to use building simulation tools
Research in the field of building physics, building energy efficiency and management is limited
Infrastructure to support research activities is also limited
Awareness of building codes and energy codes is high but knowledge is limited
SUGGESTIONS FOR INTEGRATING SUSTAINABLE DESIGN IN CURRICULUM

- Understanding fundamental principles of building physics and diagnostics, further learning the tools for gauging building performance and further incorporating them in projects during the design studio is a long process.
- Hence use the flexible 25% to start introduction of these principles right at the Stage I of the course which enriches existing subjects of Climatology and Building Services.

SUGGESTIONS FOR INTEGRATING SUSTAINABLE DESIGN IN CURRICULUM

- Technical course content development for electives such as Sustainable Architecture, Energy Conscious Architecture, Environmental Studies and Intelligent Buildings.
Suggestions for Integrating Sustainable Design in Curriculum

- Encourage post graduate courses in the field of sustainable habitat design
- Encourage multi disciplinary post graduate diplomas for integrated approach to building design
- Encourage research activities
3-Legged Sustainability Stool

<table>
<thead>
<tr>
<th>Economic Leg</th>
<th>Social Leg</th>
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<tbody>
<tr>
<td>Good Jobs</td>
<td>Working conditions</td>
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<td>Fair wages</td>
<td>Health services</td>
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<td>Security</td>
<td>Community &amp; Culture</td>
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<tr>
<td>Infrastructure</td>
<td>Social justice</td>
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</tbody>
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Quality of Life / Genuine Wealth / Genuine Progress

Sustainability
- Environmental Leg: Pollution & Waste, Renewable Energy, Conservation, Restoration
- Economic Leg: Good Jobs, Fair wages, Security, Infrastructure, Fair Trade
- Social Leg: Working conditions, Health services, Education services, Community & Culture, Social justice

3-Overlapping-Circles Model

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<th>ECONOMY</th>
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Architecture Education

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THANK YOU