



Sample Brief Course Description

Course title	Principles of Green Building Design
Course code	ECE 436
College	Engineering
Department / Program	Electrical Engineering/Renewable Energy
Year/ Level	5/9
Course Type	<p>A.</p> <p><input type="checkbox"/> University</p> <p><input type="checkbox"/> College</p> <p><input type="checkbox"/> Department</p> <p><input checked="" type="checkbox"/> Others</p> <p>b.</p> <p><input type="checkbox"/> Required</p> <p><input checked="" type="checkbox"/> Elective</p>
Credited Hours	3
Contact Hours	(LT:3, LB:0, TR:0)
Pre-requisites (if any)	ECE 230
Co-requisites (if any)	---
Course description	This course covers the principles of green building and construction, including the incorporation of green principles in renovations and new construction. Energy efficiency, interior quality and sustainable building materials.
Course Main Objectives	1. To impart knowledge about green building principles and practices.



	<ol style="list-style-type: none">2. To learn about the importance of sustainable use of natural resources and energy.3. To learn about the principles of effective energy and resource management in buildings.4. To raise awareness of the basic criteria for green building rating systems.5. To learn about ways to reduce, recycle, and reuse for sustainability.
Learning Outcomes	Knowledge and Understanding <ol style="list-style-type: none">1. Define sustainability and a green building, along with its features and benefits2. Describe the criteria used for site selection and water efficiency methods.3. Explain the energy efficiency terms and methods used in green building practices
	Skills: <ol style="list-style-type: none">1. Integrate notions and guiding principles from science and engineering disciplines to systematically form a more complete, coherent framework of analysis that offers a richer understanding of green building design.2. Select materials for sustainable built environment & adopt waste management methods
	Values: <ol style="list-style-type: none">1. Develop the ability to work collaboratively in a multi-disciplinary group, and communicate internally and externally as demonstrated in the project assignments.
References	Montoya, Michael. 2011. Green building fundamentals: practical guide to understanding and applying fundamental sustainable construction practices and the LEED system. 2nd ed. Prentice Hall.