

## Architectural Engineering Courses (AR)

Architectural Engineering & Environmental Design Courses Group

### AR 411 – Architectural Design & Urban Landscape

#### COURSE INFORMATION

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Course Title: Architectural Design & Urban Landscape  
 Code: AR 411  
 Hours: Lecture – 2 Hrs.                      Tutorial – 4 Hrs.                      Credit –3.  
 Prerequisite: CB 221

#### GRADING

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Class Performance/Attendance:	10%
Midterm # 1/Assignments – (7 <sup>th</sup> Week):	30%
Midterm # 2/Assignments – (12 <sup>th</sup> Week):	20%
Final Exam:	40%

#### COURSE DESCRIPTION

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This course introduces the fundamentals of architectural design and landscape architecture for none architects students. It familiarizes students with the design process, the analysis of form and function, and the development of an architectural project. The course focuses on the role of architect and urban planner in organizing space and time to fulfill different human needs and activities. It directs students on how to deal with different design problems through systematic design process, and how to take into their considerations different physical, cultural, and temporal factors.

#### TEXT BOOK & REFERENCES

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Architect's Data by NEUFERT, Ernest Publisher: Oxford: Blackwell, 2nd ed. 1980

Architectural Graphics by GHING, Francis Publisher: New York: Van Nostrand Reinhold, 2nd ed. 1985

Architecture: Form, Space & Order by CHING, Francis Publisher: New York: Van Nostrand Reinhold, 1979

Design Strategies in Architecture: An Approach to the Analysis of Form by BAKER, Geoferey H. Publisher: London: Van Nostrand Reinhold, 2nd ed. 1996

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Basic Elements of Landscape Architectural Design by BOOTH, Norman K. Publisher: New York: Elsevier Science Publishing Co., 1983

An Introduction to Landscape Architecture by LAURIE, Michael Publisher: New York: American Elsevier Publishing Co., 1975

Landscape Architecture: A Manual of Site Planning and Design by SIMONDS, John O. Publisher: New York: McGraw-Hill, 2nd ed. 1983.

### COURSE AIM

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The course aims at familiarizing students with the fundamentals of Architectural Design and Urban Landscape Planning. It also aims at developing students' drafting and presentation skills in order to be able to express his/her design ideas.

### SPECIFIC OUTCOMES OF INSTRUCTION

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- Students should be able to analyze the different elements of an architectural or a landscape design project.
- The student should have an essential understanding of the design process and basic planning procedures within a multidisciplinary design team approach has to be achieved.

### COURSE OUTLINE

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- Week Number 1:* An Introduction to Architectural Design, Design and Planning Requirements,
- Week Number 2:* Basic Criteria
- Week Number 3:* Site Considerations in Design, Natural Characteristics, Orientation, Circulation &
- Week Number 4:* Parking, Utilities
- Week Number 5:* Site Considerations in Design, Natural Characteristics, Orientation, Circulation &
- Week Number 6:* Parking, Utilities (Continued)
- Week Number 7:* Functional Requirements in Architectural Design, Preparing an Architectural Program
- Week Number 8:* Conceptual Design Process, Spatial Organization and Circulation.
- Week Number 9:* Diagrams.
- Week Number 10:* Detailed Design, Design Analysis, Use of Diagrams
- Week Number 11:* Introduction: Landscape Architecture, Design, Planning, Urban Landscape
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*Week Number 12:* Characteristics

*Week Number 13:* Landscape and Natural Resources: Man & Nature, the Ecological Basis, Natural

*Week Number 14:* Landscape Characters

*Week Number 15:* Water – Planning Approach, Water as a Resource, as a Landscape Feature.

*Week Number 16:* Final Exam.

COURSE COORDINATOR AND DEMAND

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*Course Coordinator:*

*Course Demand:*            *Required*