Course Specifications:
ARE7126 - Technical Reports in Architecture

1. Basic Information

Program Tile	Architectural Engineering
Department offering the Program	Architectural Engineering
Department Responsible for the Course	Architectural Engineering
Course Title	Technical Reports in Architecture
Course Code	ARE7126
Year/ Level	First Year - Second Semester
Specialization	Minor
Authorization date of course specification	2005

Teaching Hours	Lectures	Tutorial	Practical
	-	2	0

2. Course Attributes:

No.	Attribute
01	Apply knowledge of mathematics, science and engineering concepts to the solution of engineering problems.
07	Communicate effectively.
10	Display professional and ethical responsibilities; and contextual understanding.
11	Engage in self- and life- long learning.

3. Intended Learning Outcomes (ILOs):

a. Knowledge and Understanding:

No.	Knowledge and Understanding
A_{05}	Methodologies of solving engineering problems, data collection and interpretation.
A_{10}	Technical language and report writing.
A_{12}	Contemporary engineering topics.

b. Intellectual Skills

No.	Intellectual Skills
B_{04}	Combine, exchange, and assess different ideas, views, and knowledge from a range of sources.
B_{05}	Assess and evaluate the characteristics and performance of components, systems and processes.
B_{20}	Discuss, search and formulate informed opinions appropriate to specific context and circumstances affecting architecture profession & practice.

c. Professional Skills

No.	Professional Skills
C_{11}	Exchange knowledge and skills with engineering community and industry.

C_{12}	Prepare and present technical reports.
C_{19}	Respect all alternative solutions; changes in original plan of the project, differences in style, culture, experience and treat others with respect.
C_{21}	Respond effectively to the broad constituency of interests with consideration of social and ethical concerns.

d. General Skills

No.	General Skills
D_{01}	Collaborate effectively within multidisciplinary team.
D_{03}	Communicate effectively.
D_{04}	Demonstrate efficient IT capabilities.
D_{06}	Manage tasks and resources efficiently.
D_{07}	Search for information and adopt life-long self learning.
D_{09}	Refer to relevant literature effectively.

4. Course Contents:

No.	Topics
1	Introduction to course
2	Visual perception criteria
3	Visual perception elements or principles
4	Influence of structure on architecture design
5	Applications

5. Teaching and Learning Methods:

5.1 Normal Students:

No.	Teaching Method	Choice
1	Lectures	√
2	Discussion Sessions	√
3	Information Collection from Different Sources	×
4	Practical	×
5	Research Assignment	√
6	Field Visits	√
7	Case Studies	×
8	Smart Sessions	√

5.2 Disable Students:

No.	Teaching Method	Reason
1	Presentation of the course in digital material.	Better access any time.
2	Web communication with students	Better communication with certain cases.
3	Asking small groups to do assignments; each composed of low, medium, and high performance students.	Knowledge and skills transfer among different levels of students.

4	Asking disabled students to do PowerPoint/Poster presentations.	Encouraging disabled students' engagement and interaction.

5.3 Excellent Students:

No.	Teaching Method	Reason
1	Developing course materials gradually to allow excellent students to receive teaching that meets their needs	Excellent students rely on excellent teaching
2	Encouraging students to participate in competitions with rewarded bonus marks.	Increasing excellent students' competitiveness

6. Student Assessment:

6.1 Student Assessment Methods:

No.	Assessment Method	Choice	ILOs
1	Mid Term Examination	√	A_{05}, B_{04}, C_{11}, C_{12}, ,D_{01}
2	Oral Examination	×	-
3	Practical Examination	×	-
4	Semester work	√	A_{10}, A_{12}, B_{20}, B_{05}, D_{03}
5	Other types of assessment	×	-
6	Final Term Examination	√	A_{12}, $C_{19,}$ C_{21}, D_{04} ,D_{06}, D_{09}

6.2 Assessment Schedule:

No.	Assessment Method	Weeks
1	Mid Term Examination	×
2	Oral Examination	×
3	Practical Examination	×
4	Semester work	×
5	Other types of assessment	2^{nd} -14^{th}
6	Final Term Examination	15^{th}

6.3 Weighting of Assessments:

No.	Assessment Method	Weights
1	Mid Term Examination	-
2	Oral Examination	-
3	Practical Examination	-
4	Semester work	-
5	Other types of assessment	-
6	Final Term Examination	100%
Total		100%

7. List of References

No.	Reference List
1	Recommended books and internet sites.

8. Facilities Required for Teaching and Learning:

No.	Facility	Choice
1	Lecture Classroom	√
2	Lab Facilities	×
3	White Board	√
4	Data Show System	√
5	Visualizer	×
6	Smart Board	√

No.	Facility	Choice
7	Wireless Board	×
8	Presenter	×
9	Sound System	√
10	Wire-Internet	×
11	Wireless Internet	√
12	…	-

9. Matrix of Knowledge and Skills of the Course:

No.	Topic	Attributes	Knowledge & Understanding	Intellectual Skills	Professional Skills	General Skills
1	Introduction to course	01	A_{05}	-	-	D_{01}
2	Visual perception criteria	07	A_{05}, A_{10}	B_{04}	-	D_{03}, D_{07}
3	Visual perception elements or principles	10, 11	A_{12}	B_{05}	C_{11}	D_{04}, D_{06}
4	Influence of structure on architecture design	11	A_{12}	B_{20}	C_{12}, C_{21}	D_{07}, D_{09}
5	Applications	07, 10, 11	A_{05}, A_{10}, A_{12}	-	C_{19}	D_{04}, D_{06}, D_{09}

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Date of Approval: