CB431 Technical Installations In Buildings

COURSE IN						
Prerequisites	Academic Year & Level		Teaching Methods			
	Year	Semester	Lecture	Tutorial	Laborator y	Credit Hrs.
CB322	4	8	4	2	0	3

COURSE INFORMATION

COURSE AIM

The course aims at understanding of the physical requirements of buildings, the different technical installations in buildings, and the equipment required for building control systems. COURSE WEEKLY CONTENTS

- **1** Human comfort and health requirements.
- 2 Human comfort and health requirements. Continued
- **3** Thermodynamics Principles.
- 4 Active HVAC systems Heating systems
- **5** Active HVAC systems Cooling systems.
- 6 Thermal insulation in buildings
- 7 Water proofing and moisture problems in buildings. + Midterm Exam
- 8 Lighting systems.
- 9 Vertical circulation.
- **10** Execution of electrical systems in buildings.
- **11** Plumbing systems (1,2).
- 12 Plumbing systems (1,2). Continued
- **13** Fire protection systems.
- **14** Architectural acoustics in buildings (1,2).
- 15 Architectural acoustics in buildings (1,2). Continued
- STUDENT GRADING & ASSESSMENT

Weeks	Exams		Assign.	Quizzes	Reports	Present.	Lab.	Total
1 to 7	20	Midterm	← To	1 be freely distri	D MAR buted among	ккs possible assessr	\rightarrow nents	30
8 to 12	÷			2	D MAR	RKS	\rightarrow	20
13 to 15	←			1	D MAR	RKS	\rightarrow	10
16 or 17	40	Final						40
Total		Exams	Assign.	Quizzes	Reports	Present.	Lab.	100
REFERENCES								

TextbookThe Building Environment: Active and Passive Control Systems, Vaughn
Bradshaw, John Wiley & Sons, 2006.OtherDesign and Construction Hand Book, MERRITT F. S., RICKETTS J.T., McGraw
Hill, Inc, New York, Latest Edition.