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## COMPUTER APPLICATIONS IN ARCHITECTURE SYLLABUS

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Credit/Hours	: 3 (3,0)
Prerequisite	: BIL101-BIL101E
C/E	: Compulsory
Instructor	: Prof.Dr. Alaattin Kanoğlu, Assist. Prof.Dr. Yüksel Demir

### 1. THE AIM OF THE COURSE

The course aims:

- to open a new window for the students to consider the support of information technology and computers in their professional practice,
- to provide basic skills of understanding, analyzing, designing, developing and implementing an information system required by architectural offices.

### 2. CONTENT OF THE COURSE

The outline of the course is given below:

- Introduction, Basic concepts of IS and IT, Components of IS and IT, Information requirements of architects and various professionals in building production process, Categories of computer applications in architectural practices
- Design-related computer applications; 2D CAD, 3D CAD, 4D CAD, etc.,
- Management-related computer applications; Project and project management concepts, Project planning and programming applications, Cost estimating applications, Integrated packages, Applications for model development.
- Applications for the design and analysis of sub-systems: Acoustics, fire, lighting, heating, airconditioning systems.
- Applications for development of software models for AEC industry,
- Determination and development of term project proposals,

### 3. REQUIREMENTS FOR FINAL EXAM

- minimum 80% attendance to class,
- minimum 80% attendance to practical studies,
- submission of all assignments at a certain maturity level,
- presentation of one of the models in literature at a certain maturity level,
- submission of term project at a certain maturity level.

### 4. SUCCESS

CC or over is required for final grade that is the average of assignments and term project for success.

### 5. CALCULATION OF FINAL GRADE

- Mid-term exam ----- 20%
- Assignments ----- 20%
- Term project ----- 40%
- Final exam ----- 20%