

بسم الله الرحمن الرحيم

KING SAUID UNIVERSITY
COLLEGE OF ARCHITECTURE AND PLANNING
DEPARTMENT OF ARCHITECTURE & BUILDING SCIENCES
COURSE : **Arch 487**

NEW CONSTRUCTION TECHNIQUES IN BUILDINGS
INSTRUCTOR : DR. MANSOUR A. AL-JADEED

FIELD REPORT

INTRODUCTION:

In accordance with its objectives the course this semester will chiefly cover a series of presentations and discussions about the new building systems that have been introduced in the country in the last few decades. Each student has to prepare a field report about one of those systems that are available in Riyadh area.

METHOD:

- Each student should select one of the available new building systems in the area and arrange for a field visit according to the visit schedule that has been given at the beginning of the semester.
- He will then make an oral presentation on the selected system after a sufficient field and market surveys as well as library research.
- A period of approximately 15 to 20 minutes will be allocated to each presentation which will be followed by discussion sessions of 10 to 15 minutes. (In order to enrich their oral presentation, students can show slides, distribute figures, pictures or charts on the walls of the classroom.)
- The field report as well as a summery sheet or two should be submitted at the beginning of the oral presentation. (Extra copies of the summery sheet should be distributed to other students.

FORMAT OF THE REPORT:

- a) The report should be written on A4 size sheet either in Arabic or in English and presented in a file. It should consist the following information:
 - At the first page – Subject, date, name & number of the student, and name of instructor.

- At the second page – A table which includes the production company, its address & telephone number, and the system or products that the company produced.
- At the third page – A table of content which includes the main headings, titles, or points with the pages numbers.
- 15 to 20 pages report – It should include detailed information about the building production system chosen.
- At the last page – References in alphabetical order (name of the author (s) and book, name and address of publisher, and year of publication).
- Appendixes – Further information, catalogs, pictures, or drawings may be attached in one or more appendixes.

b) General headings in the report for each new building system or component should include:

- Name of the system and its origin in addition to its general characteristics.
- Description of the components:
 - o Shape, size, and dimensions
 - o Weight, density,
 - o Appearance including texture, color, pattern etc.,
 - o Chemical and/or physical composition, list of principle raw materials used in manufacturing the products.
 - o Method of manufacturing or production
 - o Transportation of products to construction sites.
 - o Method of assembly or erection and connection details.
- Characteristics of material relating to behavior in use such as:
 - o Strength,
 - o Fire resistance,
 - o Thermal conductivity
 - o Acoustical properties,
 - o Durability.
- Approximate cost of the system.
- Some examples of projects under construction where the system has been used (photographs and details may be included).