

IE-462

Section 1, CRN: 35760/761/762

Section 2, CRN: 35771/772/773

Section 3, CRN: 48769/770/771

Second Semester 1439-40 H (Spring-2019) – 2(2,1,1)
“INDUSTRIAL INFORMATION SYSTEMS”

Sunday, February 17, 2019 (12/06/1440H)

Course Project [20 Points]

Assessment and Redesign of Industrial Information System in Saudi Workplace

You are required to contact and review a Saudi workplace or system of your choosing, then analyze, model, and redesign their industrial information system. The following rules apply:

- a) You are required to work in a team of no less than **4** and no more than **5** students. No exceptions!
- b) The workplace can include either an **entire institution, or –preferably– a system** within an institution (e.g. inventory or sales department for a large company); and can include any private or public sector company or institution.
- c) **Academic honesty** rules seriously apply! You are not permitted to use a project from a previous semester or obtained from any other external source. KSU and COE Plagiarism rules will be very strictly enforced. Any assistance received during the project must be explicitly justified.
- d) You must **attach detailed photos** to support your work, showing all parts of the designed IIS, sample employees at work, and the design team, etc. You must also properly **cite** all your utilized references (e.g. company work regulations and policies).
- e) You will earn more credit depending on the **quality** of your work (especially the **design and redesign** of the IIS).
- f) The **report** must include the following sections:
 - **Background** regarding your selected workplace
 - **Justification** for why you chose this particular workplace/system
 - Detailed steps of what was done during the project, including work breakdown structure (WBS) and **Gantt chart**, etc.
 - **IIS models**, including detailed forms and explanation, before and after the redesign phase:

- Process modeling: detailed IDEF0 model, DFD model (top level down to elemental/primitive levels)
 - Data modeling: E-R diagram
 - MS Access **database file** to simulate how your IIS works, including:
 - Sample database tables
 - Queries and forms
 - **References**
 - Appendix 1: **Who did what**
 - Appendix 2: **Photo section** (see point *d* above)
 - Note, all presented work must be **neatly typed, printed, and bound**. No handwritten work will be accepted. Note, besides content and quality, you will also be graded on your spelling, grammar, formatting, neatness, etc.
- g) Your group will be required –collectively– to perform a **6–7 minute** presentation (you will not be allowed to exceed the time limit).
- You will present a summary of your research, including a slide that states your **references** and “**who did what**”, as well as sample photos (see point *d* above)
 - You must also show **all sections elaborated in your report**, including sample queries and forms from your database
 - Note, besides the quality of the content of your work, you will receive a grade for your overall presentation and speech skills, as well as your PowerPoint slides. **All group members** must participate in this activity.
- h) You must **submit** the following at the time of your presentation:
- A *printed and bound* **report** showing all steps and details of the complete work accomplished in this project.
 - Printout of slides used in your **presentation** (use 2-4 per page; grayscale is acceptable).
 - Copies of all **references** you have used, forms, reports, and any other material that add value and authenticity to your work. Remember, you will be monitored for plagiarism.
 - Attached, labeled **CD** containing ALL the above-mentioned items (most importantly the report, presentation, and references) as well as the MS Access database file (with sample queries) and all modeling-related files and figures.
 - Note, you must submit all work **on the day of your scheduled**

presentation. No late work will be accepted.

- i) The scheduled presentation date is: **Thursday, April 4th, 2019** (28/07/1440H) after Asr prayer. Note, the location will be announced at a later time.

I wish you the very best with this project, and hope you can both learn and enjoy working on it.