Sub.	توصیف مقرر دراسي – Course Description	الموضوع
Date		التاريخ



Course Code & No	IE332	رقم المقرر ورمزه
Course Name	Work design and analysis	اسم المقرر
Credit Hours	3 (2+1+2)	عدد الساعات المعتمدة
Pre-requisite	IE 343, IE 331 Co-Req.	المتطلب السابق

General Description	توصيف عام
Introduction to work analysis and design; Methods engineering: Study of the basic work measurement techniques; Applications and limitations of the stop-watch time study, pre- determined motion time systems.	

Course Objectives	أهداف المقرر
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The course aims to provide the knowledge and skills to design and analyze work utilizing well established approaches and techniques of time and motion study.

By the end of the course, each student should be able to:

- Demonstrate an understanding of the fundamental concepts of work systems and work study.
- Use different types of engineering work methods such as charting and diagrams techniques in operations and job analysis (laboratory experiments & case study).
- Appraise various types of engineering work measurements such as direct time study, predetermined motion time systems, Standard Data Systems, work sampling in analysing time of tasks (laboratory experiments).
- Judge a grasp of the fundamental principles of experimental design, collection of data related to work study, and their analysis and interpretation (laboratory experiments).
- Operate in a team and communicate effectively in performing the assigned works

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References	المراجع
Required Textbooks Methods, Standards and Work Design, by B. W. Niebel and A. Freivalds, 11th ed,McGraw-Hill, Latest edition. MOST work measurement systems, K.B. Zandin, Elsiever, Latest edition	
Essential References Materials Work measurement and methods improvement, L.S. Aft, John Wiley, Latest edition	