Course Specification
(Bachelor)

Course Title: Work Design and Measurement	
Course Code: INE 3311	
Program: Bachelor in Industrial Engineering	
Department: Industrial Engineering	
College: College of Engineering	
Institution: King Khalid University, Abha, Saudi Arabia	
Version: 3	
Last Revision Date: 17-12-2025	

Table of Contents

A. General information about the course:

1. Course Identification

1. Credit hours: (3)					
2. Course type					
A.	☐University	☐College	☒ Department	☐Track	☐Others
B.	☒ Required		☐Elective		
3. Level/year at which this course is offered: (5/3)					
4. Course general Description:					
This course is mainly concentrating on the relationship between the man and his work, methods of workstation design, measurement of worker efficiency, measurement of the required motion and time to execute a job (motion and time study), in addition to practical sessions that include experiments to cover subjects related to motion and time study.					
5. Pre-requirements for this course (if any)**:**					
ME 2315					
6. Co-requisites for this course (if any)**:**					
7. Course Main Objective(s):					
To enable students to understand, define, classify, design, and analyze different types of recording techniques for method & Time study.					

2. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	60	100
2	E-learning		
3	Hybrid • Traditional classroom • E-learning		
4	Distance learning		

3. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	**Lectures**	30
2.	**Laboratory/Studio**	
3.	**Field**	
4.	**Tutorial**	30
5.	**Others (specify)**	
Total		60

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
1.0	**Knowledge and understanding**			
1.1	Define Method study & Time study and its role in managing productivity.	K1	Lectures and tutorials	Assignments Midterm Exam Final Exam
1.2	Define the wide range of specialist knowledge in industrial system management, process optimization, sustainability, economics, environment, policy, health and safety, to be understood drawing on current developments in industrial engineering.	K3	Lectures and tutorials	Assignments Midterm Exam Final Exam
2.0	**Skills**			
2.1	Select and apply statistical tools, data interpretation, and modern engineering techniques to solve complex engineering problems.	S2	Lectures and tutorials	Assignments Midterm Exam Final Exam
2.2	Conduct analysis using statistical tools to investigate, and carry out research activities on current developments or specific research topics in industrial engineering.	S6	Lectures and tutorials	Assignments Midterm Exam Final Exam

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
3.0	**Values, autonomy, and responsibility**			
3.1	Engage in life-long learning for acquiring and implementing knowledge, as needed, using suitable learning strategies	V3	Lectures and tutorials	Project

C. Course Content

No	List of Topics	Contact Hours
1.	Introduction and history, and importance of work study	10
2.	Approaches for workstations design	10
3.	Motion study	10
4.	Work study flowcharts	10
5.	Work efficiency measurement	13
6.	Time study	7
Total		**60**

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	6 to 8 Assignments	2, 3, 4, 5, 6, 7, 8, 9	10%
2.	Quiz 1	3	10%
3.	Quiz 2	7	15%
4.	Project	6	5%
5.	Mid Term Exam	5	20%
6.	Final Exam	12	40%

*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.).

E. Learning Resources and Facilities

1. References and Learning Resources

Essential References	• Andris Freivalds (2020), Methods, Standards, and Work Design, 13th Edition
Supportive References	Lecture Handouts
Electronic Materials	PowerPoint Slides, YouTube Videos, Software

Other Learning Materials	Multimedia associated with the textbook and the relevant websites

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Classrooms
Technology equipment (projector, smart board, software)	• projector
Other equipment (depending on the nature of the specialty)	

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Students	Indirect (Questionnaire)
Effectiveness of Students' assessment	Faculty	Direct
Quality of learning resources	Program Leaders	Direct
The extent to which CLOs have been achieved	Faculty	Direct
Other		

Assessors (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify)

Assessment Methods (Direct, Indirect)

G. Specification Approval

COUNCIL /COMMITTEE	**REVIEWED BY CURRICULUM COMMITTEE** **APPROVED BY QUALITY COMMITTEE**
REFERENCE NO.	**9**-6-47
DATE	**2**5/06/1447