



Course Specifications

Course Title:	Human factors for Applied Arts
Course Code:	413 AAD - 2
Program:	Bachelor in Applied arts
Department:	Applied arts
College:	Architecture and Design
Institution:	Jazan University

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A. Course Identification

1. Credit hours: 2hours (1 Lecture & 1 Laboratory)			
2. Course type			
a	University <input type="checkbox"/>	College <input type="checkbox"/>	Department <input checked="" type="checkbox"/>
			Others <input type="checkbox"/>
b.	Required <input checked="" type="checkbox"/>	Elective <input type="checkbox"/>	
3. Level/year at which this course is offered: 7/4rd Year			
4. Pre-requisites for this course (if any): None			
5. Co-requisites for this course (if any): None			

6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	3hours	100%
2	Blended	0	0 %
3	E-learning	0	0 %
4	Correspondence	0	0 %
5	Other	0	0 %

7. Actual Learning Hours (based on academic semester)

No	Activity	Learning Hours
Contact Hours		
1	Lecture	15
2	Laboratory/Studio	30
3	Tutorial	0
4	Others (specify) Assessment 1 Continuous assessment (1 hour only) 1 Presentation (0.5 hour only) 1 mid-term exam (1 hour only) 1 Final exam (and Practical – 2 hours)	4.5
	Total	49.5
Other Learning Hours*		
1	Study Theoretical study (1 hour for 1 CH) Practical (.5 hour for 1 CH)	30
2	Assignments 1 Continuous assessment for 1 CH 1 Mid- term exam for 1 CH 1 final exam(theoretical 1 hour - Practical 2 hours)	9
3	Library Preparation for 0.5 hour 1 CH	1.5
4	Projects 3 hours for 1 CH	12

5	Others(specify)	0
	Total	52.5
	All total	102

*The length of time that a learner takes to complete learning activities that lead to achievement of course learning outcomes, such as study time, homework assignments, projects, preparing presentations, library times

B. Course Objectives and Learning Outcomes

1. Course Description

There are many factors affecting the design. One of these factors is human dimensions and behavior. This course introduces students to concepts and theories of human factors, human perception, and the anthropometric aspects of ergonomics in applied arts design. Course materials relate to applications that follow the principles of human factors and ergonomic methods. Students will learn about the principles of human factors ergonomics, perception, and anthropometrics relationship to design, and analysis of interior spaces using those theories through assignments l project

2. Course Main Objective

This course is a close explains of the relation between design and human factors with a view to defining the human factors that affects and the various aspects of the products design. It provides students the ways to select products and how to design.

3. Course Learning Outcomes

CLOs		Aligned PLOs
1	Knowledge:	
1.1	The student will appreciate the levels of personal interaction in the architectural environment	K2
1.2	The student learns the ergonomic and anthropometric rules and architectural data.	K2
1.3	Achieving the safety of applied arts products	K3
2	Skills :	
2.1	The student recognizes the agronomy, anthropometric and architectural dimensions	S2
2.2	Explain the rules and foundations of the ergonomic and anthropometric	S2
2.3	Distinguish between good and non-good design	S3
3	Competence:	
3.1	The extent to which students cooperate with each other.	C2
3.2	Training to assume leadership responsibilities	C3

C. Course Content

No	List of Topics	Contact Hours
1	Definition of objectives, study plan and introduction for human factors.	3
2	Ergonomics and Anthropometry rules in Architecture.	3
3	Safety of use applied arts productions.	3
4	Ergonomics in architecture environment.	3

5	Anthropometry dimensions and furniture system.	3
6	1st mid-term exam	3
7	Motion seats and physiology.	3
8	Psychology for design of internal architecture environment.	3
9	Agreeable of movement performance to the human body with product.	3
10	Ergonomics application on chair.	3
11	Ergonomics application on medical beds.	3
12	2st mid-term exam	3
13	Ergonomics application on ceramic products for internal and external architecture	3
14	Ergonomics application on upholstery.	3
15	Revision	3
Total		45

D. Teaching and Assessment

1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.0	Knowledge		
1.1	The student will appreciate the levels of personal interaction in the architectural environment	Lectures and discussions Brainstorming Cooperative learning Group discussion	MCQ direct method (Theoretical objective test) by Test specification table. indirect method course LO survey
1.2	The student learns the ergonomic and anthropometric rules and architectural data.		
1.3	Achieving the safety of applied arts products		
2.0	Skills		
2.1	The student recognizes the agronomy, anthropometric and architectural dimensions	Lectures and experiments Brainstorming Cooperative learning Group discussion	direct method (Theoretical objective test) by Test specification table. indirect method course LO survey
2.2	Explain the rules and foundations of the ergonomic and anthropometric		
2.3	Distinguish between good and non-good design		
3.0	Competence		
3.1	The extent to which students cooperate with each other.	Discussions and feedback, group project, research essays	direct method (Theoretical objective test) by Test specification table. indirect method course LO survey
3.2	Training to assume leadership responsibilities		
3.3	Effective assessment and effective decision making		

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
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#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Quizzes	Periodically	10%
2	Midterm test	Week 6&12	10%
3	Research& project	periodically	20%
4	Presentation	Week 13	10%
5	Final exam (or work)	Week 16	50%
Total			100%

*Assessment task (i.e., written test, oral test, oral presentation, group project, essay, etc.)

E. Student Academic Counseling and Support

Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice :

- Individual consultations and academic advices will be allocated for a minimum of 6 hours per week.
- Tutorial for weak students will be allocated for a minimum of 4 hours per week.

F. Learning Resources and Facilities

1. Learning Resources

Required Textbooks	Sanders, M.M. & McCormick, E.J. (1993) Human Factors in Engineering & Design, 7th ed. McGraw-Hill, NY. Panero, J. & Zelnick, M. (1979). Human Dimension and Interior Space: A Source Book of Design Reference Standards, Watson-Guptill
Essential References Materials	Salvendy, G. (2006). Hand book of Human Factors and ergonomics, 3rd edition, Wiley.Lang, Pheasant, S. & Haslegrave, C. (2005) Body space: Anthropometry, Ergonomics and the Design of Work, 3rd edition, CRC.
Electronic Materials	https://introduce effects of ergonomic factors on products.
Other Learning Materials	Ramsey and sleeper: “Architectural Graphic Stander”, New York

2. Facilities Required

Item	Resources
Accommodation Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.) Class space furnished for more than 30 students.)	Classroom/lab
Technology Resources Computing resources (AV, data show, Smart Board, software, etc.)	Data show
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	Not required

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods	
Effectiveness of teaching and assessment		Direct	Indirect
<ul style="list-style-type: none"> Occasional student s feedback to head of the instructor. 	Course instructor and students.	Occasional student Faculty meeting	Online system course evaluation
<ul style="list-style-type: none"> Effectiveness of teaching and assessment 	Students	Analysis of test results	Course learning outcome survey
<ul style="list-style-type: none"> Checking of test results 	One of faculty member, then head of department	Taking samples of answering papers	-Course learning outcome survey
Extent of achievement of course learning outcomes			
<ul style="list-style-type: none"> Course learning outcomes survey. 	students	Paper questionnaire	-Objective test by test specification
<ul style="list-style-type: none"> Revision of course contents and objectives every 5 years. 	Program Leaders, Peer Reviewer.	-Paper questionnaire	-Objective test by test specification
Quality of learning resources			
Assessment, Extent of achievement of course learning outcomes	Program Leaders, Peer Reviewer.	-Analysis of plan	-Objective test by test specification

Evaluation areas (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)

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

Assessment Methods (Direct, Indirect)

H. Specification Approval Data

Council / Committee	Department council
Reference No.	
Date	