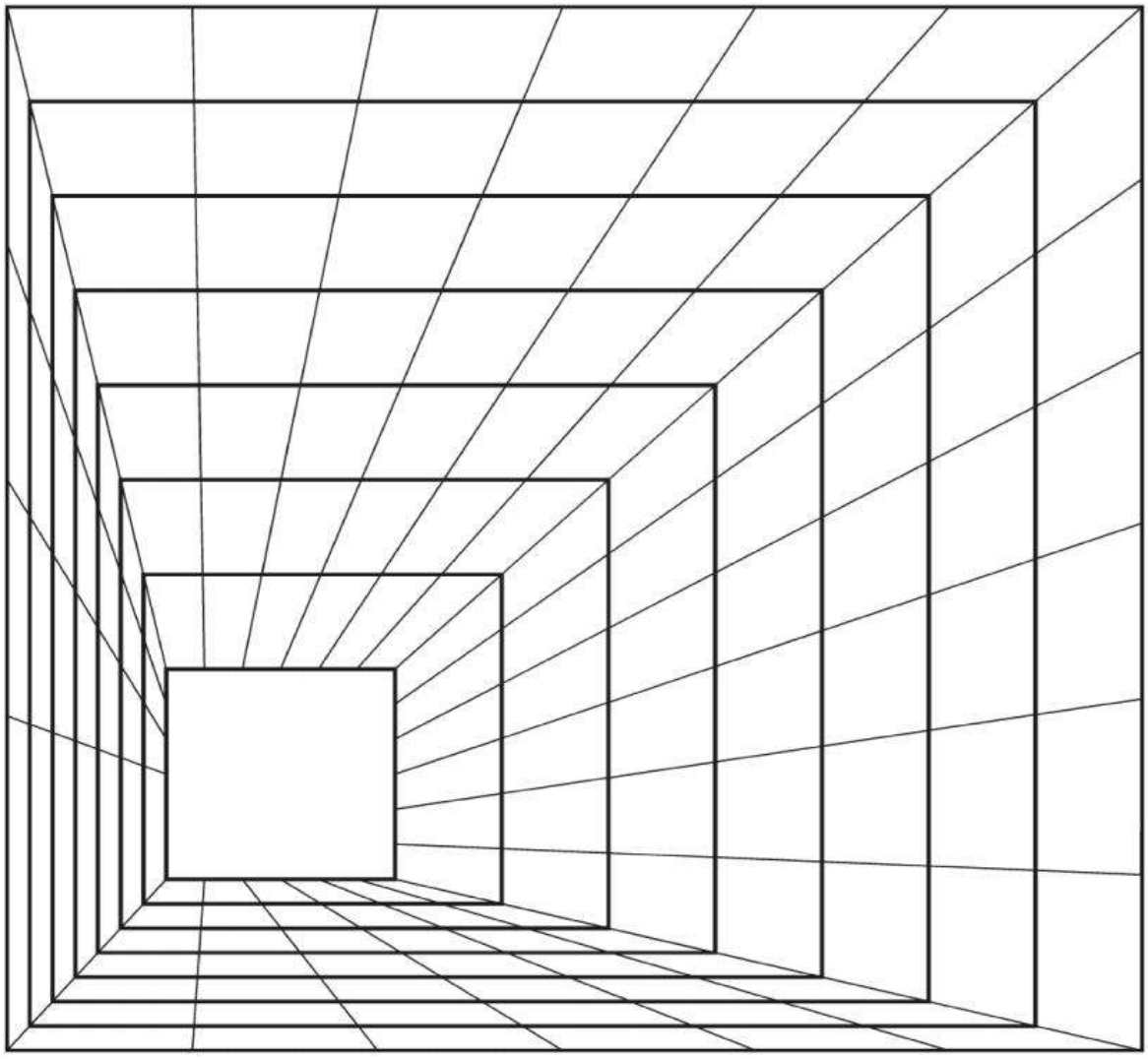
Architectural department
Faculty of Engineering Benha
Benha University

Matrices

Architectural Department Program



Architectural department 2023

CONTENTS

- Program Mission

Program Mission			Faculty Mission			(NARS 2018) CBE													
			F1	F2	F3	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	B1	B2	B3	B4	B5
The architecture program at the Faculty of Engineering Benha is committed to preparing an architect who is intellectually and scientifically qualified and has the ability to compete in the labor market and keep pace with scientific and technological development in the field of architecture in a manner that serves and achieves the needs of society within the framework of an ethical approach that allows continuous improvement and preservation of the environment and society.	**M1**	The architecture program at the Faculty of Engineering Benha is committed to preparing an architect who is intellectually and scientifically qualified and has the ability to compete in the market labor.	*					*			*	*	*			*			*	*
	M2	Keep pace with scientific and technological development in the field of architecture.		*		*	*			*				*	*		*	*	*	
	M3	In a manner that serves and achieves the needs of society within the framework of an ethical approach that allows continuous improvement and preservation of the environment and society.			*			*	*			*	*			*	*	*		

Faculty Mission	Benha Faculty of Engineering - Benha University is committed to graduate well prepared engineers equipped with knowledge and skills necessary to compete in labor market, and capable of using and developing modern technology, and providing research in engineering fields to serve society and community.
F1	Benha Faculty of Engineering - Benha University is committed to graduate well prepared engineers equipped with knowledge and skills necessary to compete in labor market.
F2	Capable of using and developing modern technology.
F3	Providing research in engineering fields to serve society and community.

- Program Objectives

	Program Objectives	Program Mission			(NARS 2018) CBE															Graduate Attributes													Requirements			Credit Hours of Subject Area							
		M1	M2	M3	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	B1	B2	B3	B4	B5	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11	G12	G13	G14	University	Faculty	Program	Humanities and Social Sciences	Mathematics and Basic Sciences	Basic Engineering Sciences	Applied Engineering and Design	Computer Applications and ICT	Projects and Practice	Discretionary
PO1	Apply a wide spectrum of engineering knowledge, science and specialized skills with analytic, critical and systemic thinking to identify and solve engineering problems in real life situation.	*	*		*	*							*							*	*														*		*	*		*		*	
PO2	Prepare qualified innovative architects who can adhere to architectural engineering ethics and standards and work to develop the profession and the community and promote sustainability principles.	*		*			*										*					*		*	*						*				*	*			*			*
PO3	Work in and lead a heterogeneous team and display leadership qualities, business administration, and entrepreneurial skills.	*									*	*	*										*					*							*				*		*		*
PO4	Use techniques, skills, and modern engineering tools necessary for architectural engineering practice.		*					*	*								*									*								*						*	*	*
PO5	Master self-learning and life -long learning strategies to communicate effectively in academic/professional fields.	*							*			*		*													*	*				*	*			*	*	*			*	
PO6	Strengthening students' ability to make decisions, solve problems, and develop architectural and urban solutions to develop and serve the local community.			*						*			*		*	*		*	*										*	*					*		*					*	
PO7	Create architectural designs that satisfy both aesthetic, technical and meet building users' requirements.		*	*			*	*		*					*	*													*	*	*				*				*		*	

Program Mission	The architecture program at the Faculty of Engineering Benha is committed to preparing an architect who is intellectually and scientifically qualified and has the ability to compete in the labor market and keep pace with scientific and technological development in the field of architecture in a manner that serves and achieves the needs of society within the framework of an ethical approach that allows continuous improvement and preservation of the environment and society.
M1	The architecture program at the Faculty of Engineering Benha is committed to preparing an architect who is intellectually and scientifically qualified and has the ability to compete in the market labor.
M2	Keep pace with scientific and technological development in the field of architecture.
M3	In a manner that serves and achieves the needs of society within the framework of an ethical approach that allows continuous improvement and preservation of the environment and society.

- Graduate Attributes

Graduate Attributes	Requirements			Credit Hours of Subject Area						
	University	Faculty	Program	Humanities and Social Sciences	Mathematics and Basic Sciences	Basic Engineering Sciences	Applied Engineering and Design	Computer Applications and ICT	Projects and Practice	Discretionary
G1: Master a wide spectrum of engineering knowledge and specialized skills and can apply acquired knowledge using theories and abstract thinking in real life situations.		1		1	1		1			
G2: Apply analytic critical and systemic thinking to identify, diagnose and solve engineering problems with a wide range of complexity and variation.			1				1		1	1
G3: Behave professionally and adhere to engineering ethics and standards.		1		1		1				1
G4: Work in and lead a heterogeneous team of professionals from different engineering specialties and assume responsibility for own and team performance.		1				1		1		1
G5: Recognize his/her role in promoting the engineering field and contribute in the development of the profession and the community.			1		1	1			1	
G6: Value the importance of the environment, both physical and natural, and work to promote sustainability principles.	1						1		1	
G7: Use techniques, skills and modern engineering tools necessary for engineering practice.		1						1		1
G8: Assume full responsibility for own learning and self-development, engage in lifelong learning and demonstrate the capacity to engage in post- graduate and research studies.	1			1	1	1				
G9: Communicate effectively using different modes, tools and languages with various audiences; to deal with academic/professional challenges in a critical and creative manner.	1			1		1		1		
G10: Demonstrate leadership qualities, business administration and entrepreneurial skills	1						1	1		
G11: Knowing the laws, legislations and requirements in the field of architecture and urbanism and how to apply them to meet local needs and global developments.			1						1	1
G12: The ability to combine outstanding creative design with technological development to improve the quality of the built environment and meet social, technological, and environmental challenges.			1	1			1		1	
G13: Solve architectural problems with a wide range of complexity and variation throughout applying analytic critical and systemic thinking.			1				1		1	
G14: 14. Demonstrate understanding of cultural, historical and established architectural theories, philosophies and context.			1	1						1

- Student Competences

Student Competences	(NARS 2018) CBE															Graduate Attributes													
	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	B1	B2	B3	B4	B5	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11	G12	G13	G14
A1	*															*	*											*	
A2		*															*				*	*					*		
A3			*																		*							*	*
A4				*																	*	*				*	*		
A5					*																*	*	*				*		*
A6						*												*		*				*	*	*			
A7							*											*	*	*			*	*					
A8								*										*	*	*			*	*					
A9									*								*			*		*			*		*	*	
A10										*						*						*	*						*
B1											*					*										*	*	*	*
B2												*									*					*	*	*	
B3													*								*	*					*		
B4														*					*							*	*		
B5															*			*		*					*				

Student Competences	Teaching & Learning Methods																	
	Lecture	Tutorials	er-based In	esign Stud	m-based L	t-based Le	active Lea	resentatio	Case Study	Report	erative Le	ain Stormi	Projects	Simulation	Discussion	al-based L	elf Learnin	Modeling
A1	*	*			*										*			
A2			*											*		*		
A3	*	*		*		*		*	*				*		*			
A4	*	*			*													
A5								*		*	*						*	*
A6	*	*				*							*					
A7						*	*			*		*	*			*		*
A8	*	*										*	*		*			*
A9				*	*	*		*		*		*	*					*
A10									*	*							*	
B1	*			*	*	*	*	*	*		*		*	*	*			*
B2		*	*	*	*	*	*	*	*		*	*	*	*	*			*
B3	*			*	*	*	*		*			*	*	*	*	*		*
B4		*	*	*		*				*					*	*	*	
B5	*																*	

Student Competences	Assessment Methods												
	Oral Test	Mid-term	Quizzes	Reports	Observation	Discussions	Projects	Mini Projects	Assignments	Presentations	Modeling	Portofolio	Final Exam
A1	*	*	*	*	*	*	*	*	*				*
A2	*						*	*	*				
A3	*	*	*	*		*	*	*	*	*			*
A4		*	*		*	*	*		*				*
A5	*			*	*	*	*	*	*	*	*	*	
A6	*	*	*			*	*	*	*	*			*
A7	*			*	*	*	*	*	*	*	*		
A8	*	*	*	*	*	*	*	*	*	*		*	*
A9	*			*	*	*	*	*	*	*	*		
A10	*			*		*	*	*		*	*	*	
B1	*	*	*	*	*	*	*		*	*	*	*	*
B2	*	*				*	*			*	*	*	*
B3	*	*				*	*			*	*	*	*
B4		*	*	*	*	*		*	*				*
B5		*	*	*		*		*	*				*

Student Competences	Program Learning Outcomes														
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10	PLO 11	PLO 12	PLO 13	PLO 14	PLO 15
A1	*														
A2		*													
A3			*												
A4				*											
A5					*										
A6						*									
A7							*								
A8								*							
A9									*						
A10										*					
B1											*				
B2												*			
B3													*		
B4														*	
B5															*

- Program Courses (Compulsory & Electives)

Year	Program Courses		Program Learning Outcomes															Program Objectives						
	Code	Course Title	A1 / PLO1	A2 / PLO2	A3 / PLO3	A4 / PLO4	A5 / PLO5	A6 / PLO6	A7 / PLO7	A8 / PLO8	A9 / PLO9	A10 / PLO10	B1 / PLO11	B2 / PLO12	B3 / PLO13	B4 / PLO14	B5 / PLO15	PO1	PO2	PO3	PO4	PO5	PO6	PO7
Preparatory Year	B 1011	Mathematics (1) (a)	1	1														1	1					
	B 1012	Mathematics 2	1	1														1						
	B 1021	Mechanics (a)	1	1														1						
	B 1022	Mechanics (b)	1	1														1						
	B 1031	Physics (a)	1	1														1						
	B 1032	Physics (b)	1	1														1						
	B 1041	Chemistry (a)	1	1														1						
	B 1042	Chemistry (b)	1	1														1						
	M 1071	Producion Eng & Workshops (a)				1		1													1		1	
	M 1072	Producion Eng & Workshops (b)				1															1			
	M 1002	Technology & society							1			1							1					
	E 1021	Computer Fundamentals and Programming (a)				1						1									1			1
	E 1022	Computer Fundamentals and Programming (b)				1						1									1			
	M 1061	Eng. Drawing (a)						1		1									1	1				
	M 1062	Eng. Drawing (b)						1		1									1	1				
	U 1011	Technical English Language					1			1		1										1		
	U 1012	Technical English Language					1			1		1										1		
1st Year	AE1111	Architecture Design 1A									1		1	1				1						1
	AE1112	Architecture Design 1B									1		1	1				1					1	1
	AE1121	Building Construction 1A						1	1						1				1	1	1			
	AE1122	Building Construction 1B					1								1				1			1		
	AE1131	History & Theory of Architecture 1A					1					1	1								1	1	1	1
	AE1132	History & Theory of Architecture 1B					1						1								1	1	1	
	AE 1171	Theory of Structure	1												1			1	1		1			
	AE 1172	Plane Surveying	1	1											1			1			1			
	AE 1174	Properties of materials		1											1			1	1		1			
	AE1101	Visual Training									1	1	1								1	1	1	1
	AE1102	Perspective and Sciography										1	1									1	1	1
	U1103	English Language					1			1		1										1		
	U1104	Human Rights							1			1								1		1		
2nd Year	AE1211	Architecture Design 2A									1		1	1				1					1	1
	AE1212	Architecture Design 2B									1		1	1				1					1	1
	AE1221	Building Construction 2A					1								1				1		1	1		
	AE1222	Working Drawings & Const.Methods (1)					1								1				1		1	1		
	AE1231	History&Theory of Architecture 2A					1					1	1								1	1	1	1
	AE1232	History&Theory of Architecture 2B					1						1								1	1	1	1
	AE 1271	Reinforced Concrete and Foundations 1		1											1			1	1		1			
	AE1272	Reinforced Concrete and Foundations 2		1											1				1		1			
	AE 1216	Technical Installations					1										1					1		
	AE1201	Environmental Control			1										1				1		1		1	
	AE1202	Human Studies in Architecture								1		1		1					1	1		1		
	AE1203	Computer application 1				1				1			1								1			1
3rd Year	AE1311	Architectural Design 3A									1		1	1				1					1	1
	AE1312	Architectural Design 3B									1		1	1				1					1	1
	AE 1321	Working Design 1A													1	1	1		1		1		1	
	AE1322	Working Design 1B													1	1	1		1		1		1	
	AE1331	History&Theory of Architecture 3A					1		1			1	1								1	1	1	1
	AE1332	History&Theory of Architecture 3B				1	1		1				1								1	1	1	1
	AE 1361	Town Planning (I)										1	1		1					1			1	
	AE1362	Urban Design(1)							1				1						1				1	1
	AE13**	Elective A																						
	AE1301	Computer Application 2				1				1			1								1			1
	AE 1302	Technical Report					1		1	1										1	1			
	AE 1303	Peronals Skills					1		1			1								1		1		
4th Year	AE 1411	Architecture Design (4)									1		1	1		1		1						1
	AE1421	Working Dr.&Const.Methods (2)													1	1	1		1		1		1	
	AE14**	Elective B																						
	AE14**	Elective C																						
	AE15**	Elective D																						
	AE15**	Elective E																						
	AE1400	Field Training													1	1	1			1	1		1	
	AE 1402	profession practice & Legislations				1			1							1	1				1		1	1
	AE 1500	Graduation Project			1			1			1			1	1			1	1		1		1	1
Elective A	AE 1324	Building Technology					1		1						1						1	1	1	1
	AE 1364	Site Planning and Landscape Architecture									1		1	1									1	1
	AE1352	Introduction to Environmental Studies			1										1				1		1		1	
	AE 1382	Computer Application 3				1				1			1								1			1
Elective B	AE1461	Town Planning (2)						1			1				1		1			1			1	
	AE1463	Urban Design2											1	1									1	1
Elective C	AE1413	Principals Interior design			1									1				1						1
	AE 1465	Computer Aided Analysis (Information Systems) (1)										1	1								1			1
	AE 1451	Computer Aided Environmental Design			1										1						1			1
Elective E	AE1411	Analytical Skills and Critical Thinking																						
	AE 1562	Computer Aided Analysis (Information Systems) (2)										1	1								1			1
	AE 1512	Architectural Criticism	1		1													1				1		
	AE 1514	Interior Design			1									1				1						1
	AE1516	Aesthetics and Form Generation	1		1								1					1				1		
	AE 1552	Environmental Assessment & Rating Tools in Building			1										1				1		1		1	
	AE1532	Architecture of Islamic Societies					1					1	1								1	1	1	1
	AE1522	Project management						1								1	1				1	1	1	1
	AE1524	Quantities & Specifications						1								1	1	1			1			
			12	12	9	9	17	8	10	10	11	18	26	13	21	8	9							

Code	Weekly Contact Hours			Credit Hours of Subject Area							Requirements		
	Lect.	Tut.	Lab.	Humanities and Social Sciences	Mathematics and Basic Sciences	Basic Engineering Sciences	Applied Engineering and Design	Computer Applications and ICT	Projects and Practice	Discretionary	University Requirements	Faculty University	Program Requirements
B 1011	4	2	0		5							*	
B 1012	4	2	0		5							*	
B 1021	4	1	1		5							*	
B 1022	4	1	1		5							*	
B 1031	4	0	2		5							*	
B 1032	4	0	2		5							*	
B 1041	2	0	2		3							*	
B 1042	2	0	2		3							*	
M 1071	2	0	3		3							*	
M 1072	0	0	3		1							*	
M 1002	2	0	0	2								*	
E 1021	0	0	2					1				*	
E 1022	0	0	2					1				*	
M 1061	0	0	3			1						*	
M 1062	0	0	3			1						*	
U 1011	0	0	2	1							*		
U 1012	0	0	2	1							*		
AE1111	3	7	0	1		1	2		2				*
AE1112	3	7	0	1		1	2		2				*
AE1121	2	4	0			1	3						*
AE1122	2	4	0			1	3						*
AE1131	2	2	0	1		2							*
AE1132	2	2	0	1		2							*
AE 1171	3	2	0			4							*
AE 1172	2	2	0			3							*
AE 1174	2	2	0			3							*
AE1101	2	5	0			4							*
AE1102	2	4	0			4							*
U1103	0	0	2	1							*		
U1104	2	0	0	2							*		
AE1211	3	7	0				5		1				*
AE1212	3	7	0				5		1				*
AE1221	2	4	0				3		1				*
AE1222	2	4	0				3		1				*
AE1231	2	2	0	1		2							*
AE1232	2	2	0	1		2							*
AE 1271	2	2	0			3							*
AE1272	2	2	0			3							*
AE 1216	2	4	0			4							*
AE1201	2	3	0							3			*
AE1202	2	2	0	1						2			*
AE1203	2	0	3					3					*
AE1311	3	7	0				4	1	1				*
AE1312	3	7	0				4	1	1				*
AE 1321	2	6	0				3	1	1				*
AE1322	2	6	0				3	1	1				*
AE1331	2	2	0			3							*
AE1332	2	2	0			3							*
AE 1361	2	4	0				2	1		1			*
AE1362	2	4	0				2	1		1			*
AE13**	2	2	0	1			2						*
AE1301	2	0	2					3					*
AE 1302	2	0	0	2									*
AE 1303	2	0	0	2									*
AE 1411	3	7	0				2	2	2				*
AE1421	2	6	0				2	2	1				*
AE14**	2	4	0	2			2						*
AE14**	2	4	0					2		2			*
AE15**	2	4	0					2		2			*
AE15**	2	4	0					2		2		*	
AE1400	0	0	2							1			*
AE 1402	2	2	0					3					*
AE 1500	5	13	2				1	1	9	1			*
			Total (H)	21	40	48	53	28	24	15	229		
			% (H)	9%	16%	20%	22%	11%	10%	6%			
			Ref. (%)	9-12%	20-26%	20-23%	20-22%	9-11%	8-10%	6-8%			

Code	Teaching & Learning Methods																	
	Lecture	Tutorials	Computer-based Instruction	Design Studio	Problem-based Learning	Project-based Learning	Interactive Learning	Presentations	Case Study	Report	Co-operative Learning	Brain Storming	Projects	Simulation	Discussion	Practical-based Learning	Self Learning	Modeling
B 1011	*	*			*													
B 1012	*	*			*													
B 1021	*	*																
B 1022	*	*																
B 1031	*	*														*		
B 1032	*	*														*		
B 1041	*	*														*		
B 1042	*	*														*		
M 1071	*	*			*					*			*		*			
M 1072		*								*			*					
M 1002	*									*					*		*	
E 1021			*		*													
E 1022			*		*													
M 1061	*	*													*			
M 1062	*	*													*			
U 1011	*														*			
U 1012	*			*	*			*							*			
AE1111	*			*	*				*				*		*			*
AE1112	*			*	*				*				*		*			*
AE1121	*	*				*		*				*	*		*		*	*
AE1122	*	*			*										*		*	
AE1131	*	*						*				*			*		*	*
AE1132	*			*	*			*					*		*			*
AE 1171	*	*			*										*			
AE 1172	*	*	*												*			
AE 1174	*	*														*		
AE1101	*			*	*			*	*				*		*			*
AE1102	*	*			*		*					*					*	
U1103							*								*		*	
U1104																		
AE1211	*			*	*			*	*				*		*			*
AE1212	*			*	*			*	*				*		*			*
AE1221	*	*				*		*		*			*					
AE1222	*	*				*		*		*			*					
AE1231	*	*						*		*		*			*		*	*
AE1232	*	*						*		*		*			*		*	*
AE 1271	*	*				*												
AE1272	*	*								*								
AE 1216	*				*			*				*			*		*	
AE1201	*	*						*				*			*			
AE1202	*				*			*	*				*		*			
AE1203	*		*										*		*			
AE1311	*			*	*			*	*				*		*			*
AE1312	*			*	*			*	*				*		*			*
AE 1321	*	*				*				*			*				*	
AE1322	*	*				*				*			*				*	
AE1331	*	*						*		*		*			*		*	*
AE1332	*			*	*			*					*		*			*
AE 1361	*	*						*					*		*			
AE1362	*	*						*	*				*		*			*
AE13**	*	*						*					*		*			
AE1301	*		*										*		*			
AE 1302	*				*			*				*			*		*	
AE 1303	*				*		*	*			*				*		*	
AE 1411	*			*	*			*	*				*		*			*
AE1421	*	*				*				*			*				*	
AE14**	*	*			*			*	*				*		*			
AE14**	*			*				*					*		*			
AE15**	*	*			*			*				*			*			
AE15**	*	*				*				*			*				*	
AE1400					*										*		*	
AE 1402	*				*			*							*			
AE 1500	*			*	*			*	*				*		*			*

Code	Assessment Methods														Bloom Levels					
	Oral Test	Mid-term	Quizzes	Reports	Observation	Discussions	Projects	Mini Projects	Assignments	Presentations	Modeling	Portofolio	Practical Exam	Final Exam	Remmber	Understand	Apply	Analyze	Evaluate	Create
B 1011		*	*			*								*	*	*		*	*	
B 1012		*	*						*					*	*	*		*	*	
B 1021	*	*	*						*					*		*	*	*	*	
B 1022	*	*	*						*					*		*	*	*	*	
B 1031		*	*										*	*	*	*		*	*	
B 1032		*	*										*	*	*	*		*	*	
B 1041		*											*	*		*	*	*		
B 1042		*											*	*		*	*	*		
M 1071		*		*		*	*							*	*	*		*		*
M 1072				*			*						*		*	*		*		*
M 1002	*	*				*								*	*	*			*	
E 1021		*	*						*					*		*		*	*	*
E 1022		*	*						*					*		*		*	*	*
M 1061		*							*					*		*	*		*	*
M 1062		*							*					*		*	*		*	*
U 1011		*							*					*	*	*	*			
U 1012		*				*			*					*	*	*	*			
AE1111	*	*				*	*		*	*	*			*		*	*	*		*
AE1112	*	*				*	*		*		*			*		*	*	*		*
AE1121		*	*			*	*		*	*	*	*		*	*	*	*		*	
AE1122		*		*					*	*	*			*	*	*	*		*	
AE1131		*	*	*		*			*	*	*	*		*	*	*		*	*	
AE1132	*	*				*	*		*	*	*			*	*	*		*	*	
AE 1171		*	*						*					*	*	*		*	*	
AE 1172		*		*					*					*		*	*	*		
AE 1174		*							*					*		*	*		*	*
AE1101	*	*				*	*		*	*	*			*		*	*		*	*
AE1102		*	*						*			*		*						
U1103	*				*	*			*					*	*	*	*			
U1104																				
AE1211	*	*				*	*		*	*	*			*		*	*	*		*
AE1212	*	*				*	*		*	*	*			*		*	*	*		*
AE1221	*	*	*	*			*		*	*				*	*	*	*		*	
AE1222	*	*	*	*			*		*	*				*	*	*	*		*	
AE1231		*	*	*		*			*	*	*	*		*	*	*		*	*	
AE1232		*	*	*		*			*	*	*	*		*	*	*		*	*	
AE 1271	*	*						*	*					*	*	*	*	*		
AE1272		*	*	*					*					*	*	*	*	*		
AE 1216		*				*			*	*		*		*		*	*		*	
AE1201	*	*		*						*				*		*	*	*	*	
AE1202	*	*				*	*		*	*				*	*	*		*	*	
AE1203		*				*	*		*					*		*	*		*	*
AE1311	*	*				*	*		*	*	*			*		*	*	*		*
AE1312	*	*				*	*		*	*	*			*		*	*	*		*
AE 1321	*	*	*	*			*	*	*	*				*	*	*	*		*	
AE1322	*	*	*	*			*	*	*	*				*	*	*	*		*	
AE1331		*	*	*		*			*	*	*	*		*	*	*		*	*	
AE1332	*	*				*	*		*	*	*			*	*	*		*	*	
AE 1361		*				*	*		*	*				*		*	*	*		*
AE1362		*		*		*	*		*	*	*			*		*	*	*		*
AE13**						*	*		*					*		*	*	*		*
AE1301		*				*	*		*					*		*	*		*	*
AE 1302	*	*				*			*	*				*		*	*	*	*	
AE 1303	*	*				*			*	*				*		*	*		*	
AE 1411	*	*				*	*		*	*	*			*		*	*	*	*	*
AE1421	*	*	*	*			*	*	*	*				*	*	*	*		*	*
AE14**		*				*	*		*	*				*		*	*		*	*
AE14**		*				*	*		*	*				*		*	*		*	*
AE15**		*	*			*			*	*		*		*		*	*	*	*	
AE15**	*	*	*	*			*	*	*	*				*		*	*	*	*	
AE1400	*			*												*	*	*		
AE 1402	*	*				*			*	*				*		*	*	*	*	
AE 1500	*					*	*		*	*	*			*		*	*	*	*	*

يعتمد من :

أ.د / زينب فيصل عبدالقادر

- Assessment Methods VS Teaching & Learning Methods

Assessment Methods			Teaching and Learning Methods																
			Lecture	Tutorials	Computer-based Instruction	Design Studio	Problem-based Learning	Project-based Learning	Interactive Learning	Presentations	Case Study	Report	Co-operative Learning	Brain Storming	Projects	Simulation	Discussion	Practical-based Learning	Self Learning	Modeling
Formative Assessment	Tests	Oral Test						*		*	*	*			*		*	*	*	
		Mid- term	*	*																
		Experimental			*													*		
		Quizzes	*	*																
	Reports									*		*					*		*	
	Observation						*		*				*	*						
	Discussions		*	*		*	*	*		*	*	*		*	*		*			*
	Projects	Projects				*	*		*	*	*	*	*		*	*	*	*	*	*
		Mini Projects				*		*	*		*		*		*	*	*	*		*
	Assignments			*	*	*	*													*
	Presentations							*		*	*	*			*					*
Summative Assessment	Final Exam		*	*																

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