2012 Undergraduate Curriculum for Measuring & Control Technology and Instrumentations (\boldsymbol{I})

]	Instruct	ion Hou	r Allocatio	n					(Credits	Distril	bution	for Sei	mester	s					
Course Number	Course Title	Assessment	Credits	Total Hrs	Lec	Lab	Practice	Recita- tion	1 19 W	I 0 W	2 18 W	II 3 W	3 19 W	Ш 0 W	4 18 W	IV 3 W	5 19 W	V 0 W	6 18 W	VI 3 W	7 19 W	VII 0 W	8 16 W	Responsible Unit
0001973	Chemistry and Environment	Exam	2	32	32				2					0										College of Environmental and Energy Engineering
0004312	Modern Chinese History	Exam	2	32	32				2															School of Marxism
0000011	Physical Education-1	General Assessment	1	32	32				1															Department of Physical Education
0000007	College English (Band One)	Exam	4	64	64				4															College of Foreign Languages
0001903	Calculus (Engineering)-1	Exam	5.5	99	64			35	5.5															College of Applied Sciences
0001908	Linear Algebra (Engineering)	Exam	3	54	48			6	3															College of Applied Sciences
0004311	Ethical Conduct and Fundamentals of Law	Exam	3	48	32		16				3													School of Marxism
0000012	Physical Education-2	General Assessment	1	32	32						1													Department of Physical Education
0000008	College English (Band Two)	Exam	4	64	64						4													College of Foreign Languages
0000072	University Physics I-1	Exam	4	64	64						4													College of Applied Sciences
0001904	Calculus (Engineering)-2	Exam	5.5	99	64			35			5.5													College of Applied Sciences
0002784	Fundamentals of National Defense	General Assessment	2	32	32							2												Students' Affairs Office
0000009	College English (Band Three)	Exam	4	64	64								4											College of Foreign Languages
0006457	Fundamentals of Chinese Sociology	Exam	4	64	48		16						4											School of Marxism
0000013	Physical Education-3	General Assessment	1	32	32								1											Department of Physical Education
0000073	University Physics I-2	Exam	4	64	64								4											College of Applied Sciences
0000010	College English (Band Four)	Exam	4	64	64										4									College of Foreign Languages
0000014	Physical Education-4	General Assessment	1	32	32										1									Department of Physical Education
0004361	Introduction to Philosophy	Exam	3	48	48										3									School of Marxism
0003333	Probability and Statistics (Engineering)	Exam	3	54	50			4									3							College of Applied Sciences
	University Requirements	Sub-total	61	1074	962		32	80	17.5	0	17.5	2	13	0	8	0	3							
0000066	Engineering Graphics V	Exam	3	48	48				3															College of Mechanical Engineering & Applied Electronics Technology

				Instruction Hour Allocation Credits Distribution for Semesters																				
Course Number	Course Title	Assessment	Credits	Total				Recita-	1	I	2	II	3	Ш	4	IV	5	v	6	VI	7	VII	8	Responsible Unit
				Hrs	Lec	Lab	Practice	tion	19 W	0 W	18 W	3 W	19 W	0 W	18 W	3 W	19 W	0 W	18 W	3 W	19 W	0 W	16 W	
0007072	Freshmen Seminar Course	General Assessment	1	16	8		8		1															College of Mechanical Engineering & Applied Electronics Technology
0001931	Engineering Mechanics III	Exam	5.5	88	84	4					5.5													College of Mechanical Engineering & Applied Electronics Technology
0003832	Mechanical Manufacture III	Exam	4	64	64								4											College of Mechanical Engineering & Applied Electronics Technology
0007112	Fundamentals of C Programming Language	Exam	3	48	32	16							3											College of Computer Science
0007223	Electric & Electronic Technology-1	Exam	2	32	28			4							2									College of Mechanical Engineering & Applied Electronics Technology
0002291	Fundamentals of Mechanical Design V	Exam	5	80	62	8		10							5									College of Mechanical Engineering & Applied Electronics Technology
0007476	Engineering Optics-1	Exam	3	48	44	4									3									College of Mechanical Engineering & Applied Electronics Technology
0007224	Electric & Electronic Technology-2	Exam	4	64	64												4							College of Mechanical Engineering & Applied Electronics Technology
0000329	The Theory of Error and Data Processing	General Assessment	2	32	28	4											2							College of Mechanical Engineering & Applied Electronics Technology
0006176	The Basis of Control Engineering III	Exam	3	48	44	4											3							College of Mechanical Engineering & Applied Electronics Technology
0007477	Engineering Optics-2	Exam	3	48	40	8											3							College of Mechanical Engineering & Applied Electronics Technology
0002062	Measurement and Control Circuit	Exam	2	32	24	8													2					College of Mechanical Engineering & Applied Electronics Technology
0007225	Electric & Electronic Technology-3	Exam	2	32	32														2					College of Mechanical Engineering & Applied Electronics Technology
0006178	Technology of Measurement	Exam	3	48	40	8													3					College of Mechanical Engineering & Applied Electronics Technology
0007478	Computer Vision and Image Processing	General Assessment	2	32	26	6													2					College of Mechanical Engineering & Applied Electronics Technology
	Discipline Requirements	Sub-total	47.5	760	668	70	8	14	4		5.5		7		10		12		9					
0003796	Laboratory of Chemistry and Environment	General Assessment	0.5	12			12		0.5															College of Environmental and Energy Engineering
0004747	Machine Shop Training B	General Assessment	2	60			60				2													College of Mechanical Engineering & Applied Electronics Technology
0003389	Practice of Engineering Graphics IV	General Assessment	3	90	48	10		32			3													College of Mechanical Engineering & Applied Electronics Technology
0004964	Physics Laboratory (Engineering)-1	General Assessment	1	24	2	22					1													College of Applied Sciences
0003087	Practices of National Defense	General Assessment	1	30			30					1												Students' Affairs Office
0004965	Physics Laboratory (Engineering)-2	General Assessment	1.5	36			36						1.5											College of Applied Sciences
0003833	Curriculum Design of Mechanical Manufacture III	General Assessment	2	60			60								2									College of Mechanical Engineering & Applied Electronics Technology
0007069	Social Practices	General Assessment	2	48			48									2								School of Marxism

]	Instruct	ion Hou	r Allocatio	n					C	credits	Distril	bution	for Sei	mesters	s					
Course Number	Course Title	Assessment	Credits	Total Hrs	Lec	Lab	Practice	Recita- tion	1 19 W	I 0 W	2 18 W	II 3 W	3 19 W	III 0 W	4 18 W	IV 3 W	5 19 W	V 0 W	6 18 W	VI 3 W	7 19 W	VII 0 W	8 16 W	Responsible Unit
0001301	Course Teaching Outline of Course Fundamentals of Machine Design I	General Assessment	3	90			90									3								College of Mechanical Engineering & Applied Electronics Technology
0007227	Cognitive Practice	General Assessment	1	30			30									1								College of Mechanical Engineering & Applied Electronics Technology
0003935	Course Design on Virtual Instrument	General Assessment	2	60			60										2							College of Mechanical Engineering & Applied Electronics Technology
0007740	Practice of Geometric Precision Measurement	General Assessment	1	24		24											1							College of Mechanical Engineering & Applied Electronics Technology
0007230	Practice of Electric & Electronic Technology	General Assessment	1	24		24											1							College of Mechanical Engineering & Applied Electronics Technology
0007229	Electric & Electronic Technology Course Design	General Assessment	2	60			60												2					College of Mechanical Engineering & Applied Electronics Technology
0006183	Comprehensive Course Design of Measurement Technology	General Assessment	2	60	2		58												2					College of Mechanical Engineering & Applied Electronics Technology
0007231	Professional Practice	General Assessment	4	120			120													4				College of Mechanical Engineering & Applied Electronics Technology
0007232	Senior Project Proposal	General Assessment	1	30			30														1			College of Mechanical Engineering & Applied Electronics Technology
0009021	Senior Project	General Assessment	16	480			480																16	College of Mechanical Engineering & Applied Electronics Technology
	Practical Requirements	Sub-total	46	1338	52	80	1174	32	0.5	0	6	1	1.5	0	2	6	3	0	4	4	1		16	
	Discipline Electives		2	32	32																2			College of Mechanical Engineering & Applied Electronics Technology
	Major Requirements		8	128	128																8			College of Mechanical Engineering & Applied Electronics Technology
	Major Electives		4	64	64																4			College of Mechanical Engineering & Applied Electronics Technology
	GEESEM:EM		8	128	128										4		4							
	General Education Electives		8	128	128														4		4			
	Electives	Sub-total	30	480	480										4		4		4		18			
	Total for Theoretical Instruction		138.5	2314	2110	70	40	94	21.5		23	2	20		22		19		13		18			
	Total for Practical Instruction		46	1338	52	80	1174	32	0.5	0	6	1	1.5	0	2	6	3		4	4	1		16	
	Innovation Requirements		4	96			96						1		1		1		1					
	Total		188.5	3748	2162	150	1310	126	22	0	29	3	22.5	0	25	6	23	0	18	4	19	0	16	

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			Instruction Hour Allocation Credits Distribution for Semesters																					
Course Number	Course Title	Assessment	Credits	Total Hrs	Lec	Lab	Practice	Recita- tion	1 19 W	I 0 W	2 18 W	II 3 W	3 19 W	III 0 W	4 18 W	IV 3 W	5 19 W	V 0 W	6 18 W	VI 3 W	7 19 W	VII O W	8 16 W	Responsible Unit
0006175	Signal System and Signal Processing	General Assessment	2	32	32																2			College of Mechanical Engineering & Applied Electronics Technology
	Discipline Electives	Sub-total	2	32	32																2			
0000618	Technology of Intelligentized Instruments	General Assessment	2	32	24	8															2			College of Mechanical Engineering & Applied Electronics Technology
0001555	Precision Instrument Design	General Assessment	2	32	30	2															2			College of Mechanical Engineering & Applied Electronics Technology
0002534	Photoelectric Technology I	General Assessment	2	32	28	4															2			College of Mechanical Engineering & Applied Electronics Technology
0003830	The Computer Measuring and Controlling System (Self-learning)	General Assessment	2	32	14		18														2			College of Mechanical Engineering & Applied Electronics Technology
0003320	C51 and Computer Control Technology	General Assessment	2	32	18	14															2			College of Mechanical Engineering & Applied Electronics Technology
0004069	High-Speed Broad Design(Self- learning)	General Assessment	2	32	24	8															2			College of Mechanical Engineering & Applied Electronics Technology
0004063	Advanced Engineering Practice	General Assessment	4	64	38	20		6													4			College of Mechanical Engineering & Applied Electronics Technology
0004507	Technology of Precision Measurement (Chinese/English)	General Assessment	2	32	28	4															2			College of Mechanical Engineering & Applied Electronics Technology
	Major Requirements	Sub-total	18	288	204	60	18	6													10			
0002054	Techniques of Non-Destructive Testing (Chinese/English)	General Assessment	2	32	28	4															2			College of Mechanical Engineering & Applied Electronics Technology
0002538	Computer Aided Mechanical Design I	General Assessment	2	32	20		12														2			College of Mechanical Engineering & Applied Electronics Technology
0002821	Technique of Mechanical Reliability(Self-learning)	General Assessment	2	32	32																2			College of Mechanical Engineering & Applied Electronics Technology
0003819	Robotics Fundamentals	General Assessment	2	32	26		6														2			College of Mechanical Engineering & Applied Electronics Technology
0004062	Field Bus Technology I	General Assessment	2	32	26	6															2			College of Mechanical Engineering & Applied Electronics Technology
0004064	Remote Fault Diagnosis of the Equipment	General Assessment	2	32	28	4															2			College of Mechanical Engineering & Applied Electronics Technology
	Major Electives	Sub-total	12	192	160	14	18														8			

ng)	Assessment	2	32	14		18									2	& Applied Electronics Technology
	General Assessment	2	32	18	14										2	College of Mechanical Engineering & Applied Electronics Technology
lf-	General Assessment	2	32	24	8										2	College of Mechanical Engineering & Applied Electronics Technology
ce	General Assessment	4	64	38	20		6								4	College of Mechanical Engineering & Applied Electronics Technology
ement	General Assessment	2	32	28	4										2	College of Mechanical Engineering & Applied Electronics Technology
	Sub-total	18	288	204	60	18	6								10	
⁄e	General Assessment	2	32	28	4										2	College of Mechanical Engineering & Applied Electronics Technology
sign	General Assessment	2	32	20		12									2	College of Mechanical Engineering & Applied Electronics Technology
	General Assessment	2	32	32											2	College of Mechanical Engineering & Applied Electronics Technology
	General Assessment	2	32	26		6									2	College of Mechanical Engineering & Applied Electronics Technology
	General Assessment	2	32	26	6										2	College of Mechanical Engineering & Applied Electronics Technology
e	General Assessment	2	32	28	4										2	College of Mechanical Engineering & Applied Electronics Technology
	Sub-total	12	192	160	14	18									8	
V i	ce-Director:								Vice-	Presi	dent:					

Date:		Date: