

Al-Nahrain University
College of Engineering
Department of Medical Engineering
Study Plan for M.Sc. Degree Course (2016-2017)

First Semester

No.	Code	Subject	Hrs. Per Week		Units
			Theo.	App.	
1	CREQ710	Technical English I	2		1
2	MDER 710	Advanced Medical Laser App.	2		2
3	MDER 711	Advanced Biomechanics	3		3
4	MDER 712	Advanced Signal Processing	3		3
5	MDER 713	Elective I	2	1	2
6	MDER 714	Elective II	2	1	2
Total			14	2	13
			16		

Second Semester

No.	Code	Subject	Hrs. Per Week		Units
			Theo.	App.	
1	CREQ 720	Technical English II	2		1
2	MDER 720	Biomedical Diagnostic Systems	2		2
3	MDER 721	Advanced Medical Engineering App.	3		3
4	MDER 722	Dynamics of Human Movements	3		3
5	MDER 723	Elective III	2	1	2
6	MDER 724	Elective IV	2	1	2
Total			14	2	13
			16		

Approved Electives

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| <ol style="list-style-type: none"> 1. Bio-Medical Optics 2. Advanced Biomaterials 3. Ultrasonic Bio-instrumentation. 4. Human Thermal Balance Systems 5. Tissue Engineering. 6. Compartmental Analysis. 7. Modeling of Physiological System. 8. Bone Mechanics 9. Respiratory Mechanics | <ol style="list-style-type: none"> 10. Advanced Bio-Tribology 11. Advanced Analytical Mechanics 12. Clinical Engineering. 13. Modern Control 14. Fuzzy Logic Design 15. Advance Mathematics 16. Advanced Interface Circuits 17. Cardiovascular Mechanics 18. Special Selected Advanced Topic(s) |
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Thesis

The student should register for a research project (10) units.