

## Master Degree in Biomedical Image Processing

1720700 - Department of Biomedical Engineering

**Admission Requirements:** Graduate students with a B.Sc. of Engineering or its equivalent.

**Core Courses (21 Cr):** 1720701, 1720704, 1720705, 1720711, 1720712, 1720715, 1720716.

**Elective Courses (9 Cr):** 1720702, 1720703, 1720708, 1720713, 1720714, 1720717, 1720718.

**M.Sc. Thesis: (8 Cr)**

**Core Courses (21 Cr)**

Code	Name	Hourse/ Week			Prerequisite Courses
		Theoretical	Practical	Total Cr	
1720701	Introduction to Biomedical Engineering	3	2	4	
1720704	Biomedical Signal Analysis	2	2	3	
1720705	Diagnostic Imaging	2	2	3	
1720711	Medical Informatics	2	2	3	
1720712	Technical Report Writing and Presentation Skills	2	-	2	
1720715	Introduction to Digital Image Processing	2	2	3	
1720716	Advanced Topics in Digital Image Processing	2	2	3	
		15	12	21	
<b>Elective Courses (9 Credit Hours)</b>					
1720702	Bioelectric Phenomena	2	2	3	
1720703	Biomedical Sensors	2	2	3	1720702
1720708	Physiological Modeling, Simulation and Control	2	2	3	1720702
1720713	Ethical Issues Associated with the use of Medical Technology	2	2	3	
1720714	Design of Experiments	2	2	3	
1720717	Security Systems	2	2	3	
1720718	Artificial Intelligence and Machine Learning	2	2	3	