



<b>COURSE: Multimodality imaging</b>		
<b>DEGREE: Biomedical Engineering</b>	<b>YEAR: 2017/2018</b>	<b>TERM: 2nd</b>

WEEKLY PLANNING									
WEEK	SESSION	DESCRIPTION	GROUPS (mark X)		SPECIAL ROOM FOR SESSION (Computer class room, audio-visual class room)	Indicate YES/NO If the session needs 2 teachers	WEEKLY PROGRAMMING FOR STUDENT		
			LECTURES	SEMINARS			DESCRIPTION	CLASS HOURS	HOMEWORK HOURS (Max. 7h week)
1	1 26-Jan	Introduction	X				Mónica Abella	1,6	4
2	2 30-Jan	Interaction of radiation and matter / X-Ray production I	X				Mónica Abella	1,6	
2	3 2-Feb	Interaction of radiation and matter / X-Ray production II <b>(Computer room)</b>		X	Yes	Yes	In computer room. Mónica Abella	1,6	
3	4 6-Feb	Conventional Radiology I	X				Mónica Abella	1,6	
3	5 9-Feb	Conventional Radiology II	X				Mónica Abella	1,6	
4	6 13-Feb	Advanced Techniques I <b>(Computer room)</b>		X	Yes	Yes	In computer room. Mónica Abella	1,6	

4	7 16-Feb	Advanced Techniques II <b>(Computer room)</b>		X	Yes	Yes	In computer room. Mónica Abella	1,6	
5	8 20-Feb	Computed Tomography I	X				Mónica Abella	1,6	6
5	9 23-Feb	Computed Tomography II	X				Mónica Abella	1,6	
6	10 27-Feb	Radioactivity and Radionuclide production: cyclotron, generator, Poisson distribution, decay, half life	X				Mónica Abella	1,6	
6	11 2-Mar	Measurement & Instrumentation	X				Mónica Abella	1,6	
7	12 6-Mar	PET	X				Mónica Abella	1,6	
7	13 9-Mar	Radiation detection	X				Mónica Abella	1,6	
8	14 13-Mar	Data processing <b>(Computer room)</b>		X	Yes	Yes	In computer room. Mónica Abella	1,6	
8	15 16-Mar	Advances in Nuclear Medicine <b>(Computer room)</b>		X	Yes	Yes	In computer room. Mónica Abella	1,6	
14	16 20-Mar	Ultrasound: Physical principles	X				Claudia de Molina	1,6	
15	17 23-Mar	Ultrasound: Physical principles	X				Claudia de Molina	1,6	
16	18 3-Apr	Ultrasound: Instrumentation		X			In laboratory. Claudia de Molina	1,6	
9	19 6-Apr	MRI: Physical principles I	X				Manuel Desco	1,6	
10	20 10-Apr	MRI: Physical principles II <b>(Computer room)</b>		X	Yes	Yes	In computer room. Manuel Desco	1,6	4
10	21 13-Apr	MRI: Instrumentation	X				Manuel Desco	1,6	
11	22 17-Apr	MRI: Sequences I	X				Manuel Desco	1,6	
11	23 20-Apr	MRI: Localization and reconstruction I <b>(Computer room)</b>		X	Yes	Yes	In computer room. Manuel Desco	1,6	
12	24 24-Apr	MRI: Localization and reconstruction II	X				Manuel Desco	1,6	4
13	25 27-Apr	MRI: Imaging sequences	X				Manuel Desco	1,6	

13	26 4-May	MRI: Other sequences and artifacts	X				Manuel Desco	1,6	
17	26 4 8-May	TUTORSHIP					Mónica Abella	1,6	
<b>Subtotal 1</b>								<b>41,6</b>	<b>18</b>
<b>Total 1</b> (Hours of class plus student homework hours between weeks 1-14)								<b>53,6</b>	

<b>TOTAL A</b> (Total 1 + Total 2)	<b>59,6</b>
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### LABORATORIES CLASSES PROGRAMMING (\*)

WEEK	SESSION	DESCRIPTION	LABORATORY	WEEKLY PROGRAMMING FOR STUDENT		
				DESCRIPTION	CLASS HOURS	HOMEWORK HOURS (Max. 7h week)
	1	X-ray	BiiG laboratories, 7.2.H31	February 12th-16 <sup>th</sup> , from 10am to 2pm	3	4
	2	CT	BiiG laboratories, 1.0.G14	February 26th-28th and March 13th-14 <sup>th</sup> , from 10am to 2pm	3	4
	3	MRI	HGGM hospital	4 <sup>th</sup> , 7 <sup>th</sup> May, from 9am to 2pm	3	4
	4	US	BiiG laboratories, , 1.0.G13	April 3th, from 5pm to 7pm (seminar hours)	2	2
<b>Subtotal 3</b>					<b>11</b>	<b>14</b>
<b>Total 3</b> (Hours of class plus student homework hours of seven sessions laboratories)					<b>25</b>	

<b>TOTAL B</b> (Total 3)	<b>25</b>
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<b>TOTAL</b> (Total A + Total B. <u>Maximum 180 hours</u> )	<b>84,6</b>
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(\*) In EPS are given an additional 16 hours of laboratory practices along ten sessions.