



## Regolamento didattico

**LM**

2022/2023

**Classe: LM-21 - Ingegneria Biomedica**

**DM270/2004**

**Sede: Ancona (sede operativa)**

**CdS: Biomedical Engineering**

*eHealth and Clinical Engineering  
Engineering of Medical Devices*

### Anno: 1

Tip. DM	Tip. AF	SSD	Offerta formativa	CFU
b)	Caratterizzante	ING-INF/06	Biomedical Signal and Image Processing	9
b)	Caratterizzante	ING-INF/06	Cognitive Computation in Physiology and Medicine	9
b)	Caratterizzante	ING-INF/06	Models and Control of Biological Systems	9
c)	Affine	ICAR/01	Bio-Fluid Dynamics	6
c)	Affine	ING-IND/12	Applied Measurement Techniques	9
f)	Altre	-	Elective Courses taught in English	6

**Anno: 1 - Totale CFU: 48**

### eHealth and Clinical Engineering

c)	Affine	BIO/10	Bioinformatics and Systems Biology	9
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**Anno: 1 (: eHealth and Clinical Engineering) - Totale CFU: 9 + 48 comuni = 57**

### Engineering of Medical Devices

c)	Affine	ING-IND/22	Biomaterials for Medical Devices and Prostheses	9
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**Anno: 1 (: Engineering of Medical Devices) - Totale CFU: 9 + 48 comuni = 57**

### Anno: 2

Tip. DM	Tip. AF	SSD	Offerta formativa	CFU
b)	Caratterizzante	ING-INF/06	Bioengineering of Motor Rehabilitation	9
b)	Caratterizzante	ING-INF/06	Bioimaging and Brain Research	9
c)	Affine	ING-INF/04	Assistive Robotics	9
f)	Altre	-	Elective Courses taught in English	6
f)	Altre	-	Internship	6

Anno: 2 - Totale CFU: 54

**eHealth and Clinical Engineering**

b)	Caratterizzante	ING-INF/06	Clinical Engineering	9
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Anno: 2 (: eHealth and Clinical Engineering) - Totale CFU: 9 + 54 comuni = 63

**Engineering of Medical Devices**

b)	Caratterizzante	ING-INF/06	Dynamical Modelling of Movement	9
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Anno: 2 (: Engineering of Medical Devices) - Totale CFU: 9 + 54 comuni = 63

Totale CFU 2 anni: 120

**Riepilogo Attività Formative**

Attività	Min CFU		CFU eHCE	CFU EMD
	DM	Ordinamento		
b) - Caratterizzanti la Classe	45	45 - 60	54	54
c) - Affini o Integrative	12	27 - 42	33	33
d) Altre attività formative (D.M. 270 art. 10, 65)		33 - 39	33	33
<b>Totale</b>			<b>120</b>	<b>120</b>

**Offerta a scelta libera dello studente (OL) per i corsi a scelta**

SSD	Offerta formativa	Anno	CFU
ING-IND/12	Medical Device Certification and Regulation	1	6
ING-INF/04	Control and Identification in Bioengineering	1	6
MED/01	Medical Statistics (general elective course assigned by default)	1	6

**Curriculum eHealth and Clinical Engineering**

FIS/01	Bionanotechnology (general elective course assigned by default)	2	6
ING-INF/03	Biomedical Data Protection	2	6
ING-INF/03	Internet of Medical Things (IoMT)	2	6

**Curriculum Engineering of Medical Devices**

ING-IND/15	Methods and Tools for Biomedical Product Design (general elective course assigned by default)	2	6
ING-INF/02	Electromagnetic Safety in Medical Devices	1	6
ING-INF/02	Fields and Waves in Biomedical Systems	2	6