

**Università degli Studi di Bergamo**  
Piano degli studi - Corso di Laurea Magistrale in "**Medical Engineering**"  
Classe di Laurea LM21  
**a.a. 2026-27**

**1<sup>st</sup> year**

Number	Course	Area (SSD)	Credits	Code	Semester
1	Cardiovascular medicine	MED/11 MEDS-07/B	8	148001-MOD1	2
	General medicine	MED/09 MEDS-05/A		148001-MOD3	1
2a	Data Science in medicine	ING-INF/04 IINF-04/A ING-INF/06 IBIO-01/A	6	175014	2
2b	Medical informatics	ING-INF/06 IBIO-01/A	6	175014	1
3a	Biomechanics and medical device simulations	ING-IND/34 IBIO-01/A	9	175001-M1	2
3b	Technologies for regenerative medicine	ING-IND/34 IBIO-01/A	6	175001-M2	1
4	Medical support systems for chronic diseases	ING-IND/34 IBIO-01/A	6	148003	1
<b>Two elective courses chosen from the following</b>					
5-6	Healthcare operations	ING-IND/17 IIND-05/A	12	148005-M1	1
	Advanced biomaterials	ING-IND/22 IMAT-01/A		175002	2
	Control and modeling of biological systems	ING-INF/04 IINF-04/A		175003	2
<b>Total 1<sup>st</sup> year</b>			<b>53</b>		

**2<sup>nd</sup> year** activated starting from the academic year 2027/2028

Number	Course	Area (SSD)	Credits	Code	Semester
7a	Digital human modelling & rehabilitation	ING-IND/15 IIND-03/B	6	148008	1
7b	Biomedical sensors	ING-INF/01 IINF-01/A	6		1
8	Advanced regulatory affairs for medical devices	ING-IND/34 IBIO-01/A	6	175004	1
9	Advanced biomedical imaging & machine learning	ING-INF/06 IBIO-01/A	6	175000-M1	1
<b>Biomechanical Lab</b>				175009	
10	Biomechanics lab	ING-IND/34 IBIO-01/A	3	148021-5	2
	Rehabilitation lab	ING-IND/15 IIND-03/B	3	148021-4	
	Biofluids and microfluidics lab	ING-IND/06 IIND-01/F	3	175006	
<b>ICT/Electronic Lab</b>				175010	
11	Sensing devices lab	ING-INF/01 IINF-01/A	3	148021-3	2
	Data analysis lab	ING-INF/04 IINF-04/A	3	148021-1	
	Virtual reality Lab	ING-IND/15 IIND-03/B	3	175007	
12	Elective activities (Table A, additional elective activities, Winter/Summer School, BIP)*		12		
<b>Total 2<sup>nd</sup> year</b>			<b>54</b>		

Thesis work and final defense		12	175008
Credits reserved for activities under Article 10, paragraph 5, letter d		1	175011
<b>TOTAL</b>		<b>120</b>	

Table A	Area (SSD)	Credits	Code	Language
Virtual and physical prototyping	ING-IND/15 IIND-03/B	6	161001-M1	ENG
Project management	ING-IND/35 IEGE-01/A	6	37197-ENG	ENG
Forensic medicine for medical technologies	MED/43 MEDS-25/A	6	148023	ENG
Computational fluid dynamics	ING-IND/06 IIND-01/F	6	39070-ENG	ENG
Materials for advanced engineering applications	ING-IND/22 IMAT-01/A	6	39171-ENG	ENG
Computational mechanics of solids and structures	ICAR/08 CEAR-06/A	6	60039-ENG	ENG

Scienza delle costruzioni	ICAR/08 CEAR-06/A	6	22034	ITA
Acustica applicata	ING-IND/10 IIND-07/A	6	60118	ITA

<b>Additional elective activities</b>	<b>Area (SSD)</b>	<b>Credits</b>	<b>Code</b>
Internship		6	60065
CREO-LAB Salute		6	165021
CREO-LAB Tecnologie digitali e intelligenza artificiale		6	38110

The selection of other courses provided by the School of Engineering must be verified and approved by the Degree Program Board

\* A **curricular internship** or a **Summer / Winter School** or a **CREO-Lab** or a **BIP** for a maximum of 6 credits can be included among the 12 credits for elective courses after evaluation by the Degree Program Board