

Program starting in academic year 2026/2027

Field of study: Biomedical Engineering and Technologies

Level of study: First cycle

Study mode: Full-time

Primary discipline: Information and Communication Technology

Profile: General academic

no.	Course name	SEM	E	ECTS
1	Information Technology and Fundamentals of Programming	I		6
2	Material Science			3
3	Mathematics 1		E	7
4	Physics		E	3
5	Chemistry			5
6	Engineering Drawing			2
7	Business Communication for Engineers 1			3
8	Study Skills for University			1
9	Advanced Programming	II		6
10	Computer Aided Design			3
11	Mechanical Engineering			4
12	Modern Physics			3
13	Mathematics 2		E	7
14	Measurements			4
15	Business Communication for Engineers 2		E	2
16	Civic Knowledge and Engagement 1			1
17	Physical Education 1			0
18	Electronics and Electrical Engineering	III	E	5
19	Signal Processing			5
20	Robotics			4
21	Anatomy and Physiology			4
22	Biophysics			3
23	Interdisciplinary Problem-Based Learning Project			5
24	Foreign Language 1			3
25	Civic Knowledge and Engagement 2			1
26	Physical Education 2			0
27	Biostatistics	IV	E	5
28	Image Processing and Computer Graphics			5
29	Medical Data Repositories			3
30	Medical Electronics			5
31	Intellectual Property Protection and Commercialization			2
32	Team Project			6
33	Foreign Language 2			3
34	Civic Knowledge and Engagement 3			1
35	Physical Education 3			0
36	Biomaterials 1	V	E	4
37	Biomechanical Engineering			4
38	Medical Imaging			4
39	Medical Informatics and Microsystems Technology			4
40	Machine Learning			3
41	Implants and Artificial Organs			4
42	Biomedical Engineering Project			7
43	Mobility Semester	VI		30
44	Biomaterials 2	VII		2
45	Law and Ethics in Biomedical Engineering			2
46	Diploma Seminar		E	3
47	Final Project			15
48	Internship			6
49	Elective courses			2
50				
				210

Core courses in the study programme are highlighted in bold.

Pursuant to Section 16(3a) of the Study Regulations at Lodz University of Technology, in order to take the competency exam, students must have successfully completed all core courses as specified in the programme above that are during the semesters preceding the final semester of study . Every core course completion must be confirmed by an entry in the IT system.