

University POLITEHNICA of Bucharest Faculty of Medical Engineering Smart Biomaterials and Applications Second cycle degree – 2 years Master Programme (4 semesters, 120 ECTS);



# COURSE AND LABORATORY DIAGRAM

### First Year – First Semester

Smart Biomaterials Smart and Biomimetic Biomaterials Active Nanobiostructured Surfaces and Interfaces Engineering Settings of Biomaterials Dental Cements Scientific Research and Practice

Proiectarea și managementul programelor educaționale\*

### First Year – Second Semester

Artificial Tissues and Organs Radiation Interactions with Nanobiomaterials and Living Tissue Advanced Technologies for Biomaterials Processing 2 Advanced Technologies for Biomaterials Processing Carbon-based Polymeric Biomaterials for Bioengineering Tissue Regeneration Engineering with Stem Cells(C) Scientific Research and Practice 2

Psihopedagogia adolescenților, tinerilor și adulților\* Multimedia în educație\*

## Second Year - First Semester

Advanced bioceramics Protein engineering (Bio)Functionalized polymers-scaffolds for regenerative and personalized medicine Medical analyses and evaluation advanced techniques Scientific research and practice

Didactica domeniului și dezvoltării în didactica specializării (învățământ liceal, postliceal)\* Sociologia educației / educație interculturală\*

#### Second Year – Second Semester

Ethics Research practice / Prepare dissertation

Practică pedagogică (învățământ liceal, postliceal)\* Examen de absolvire psihopedagogie, nivelul 2\*