

# ENGINEERING OF BIOMATERIALS

THE OFFICIAL JOURNAL OF THE POLISH SOCIETY FOR BIOMATERIALS  
AND THE FACULTY OF MATERIALS SCIENCE AND CERAMICS / AGH UNIVERSITY OF KRAKOW

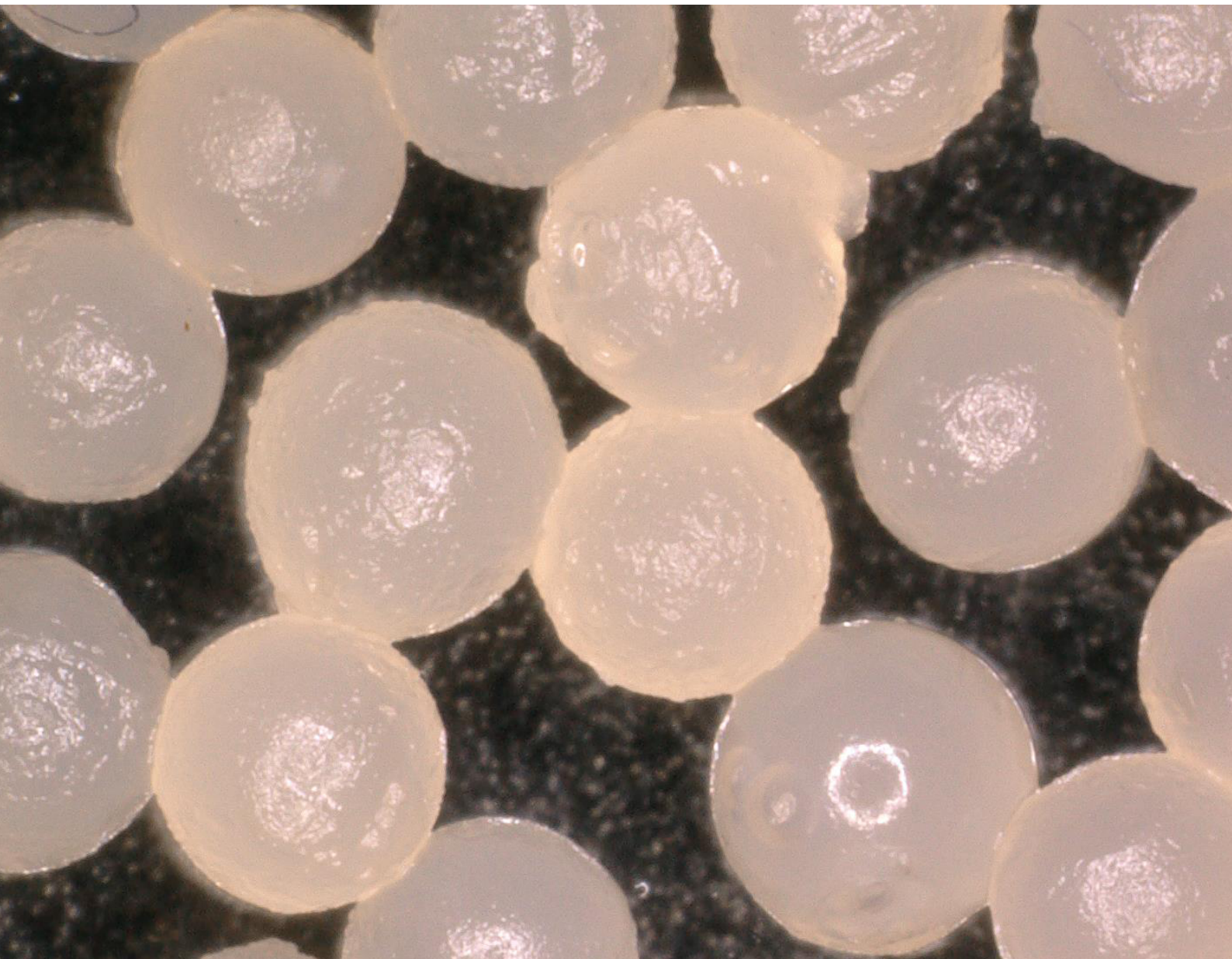
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AGH University of Krakow  
Faculty of Materials Science and Ceramics  
al. A. Mickiewicza 30, building A-3  
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### The scope of the journal includes topics such as:

- Materials Science  
(Ceramics, Polymers, Metals and Alloys, Composites)
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- Cell & Tissue Engineering
- Biotechnology
- Chemical Engineering
- Nanotechnology
- Surfaces, Coatings & Films
- Medicine
- Veterinary Science

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AGH University of Krakow  
 Faculty of Materials Science and Ceramics  
 Department of Biomaterials and Composites  
 al. A. Mickiewicza 30, building A-3  
 30-059 Krakow, Poland  
 tel. (48) 12 617 44 48, 12 617 25 61  
 e-mail: [epamula@agh.edu.pl](mailto:epamula@agh.edu.pl), [kabe@agh.edu.pl](mailto:kabe@agh.edu.pl)

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## Studia Podyplomowe „Biomateriały – Materiały dla Medycyny”

### Charakterystyka studiów:

Tematyka prezentowana w trakcie zajęć obejmuje przegląd wszystkich grup materiałów dla zastosowań medycznych: metalicznych, ceramicznych, polimerowych, węglowych i kompozytowych. Uczestnicy zapoznają się z metodami projektowania i wytwarzania biomateriałów, a następnie możliwościami analizy ich właściwości mechanicznych, właściwości fizykochemicznych (laboratoria z metod badań: elektronowa mikroskopia skaningowa, mikroskopia sił atomowych, spektroskopia w podczerwieni, badania energii powierzchniowej i zwilżalności, badania reologiczne, termiczne, mechaniczne) oraz właściwości biologicznych (badania *in vitro* i *in vivo*). Omawiane są także regulacje prawne i aspekty etyczne związane z badaniami na zwierzętach (norma EU ISO 10993) i badaniami klinicznymi, a także najnowsze osiągnięcia inżynierii tkankowej i nanomedycyny.

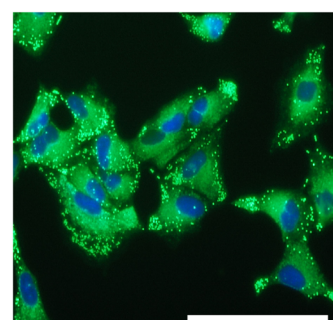
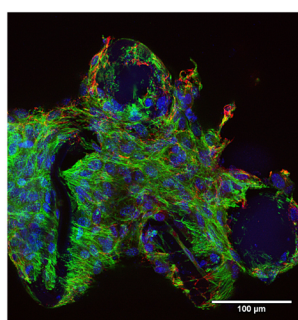
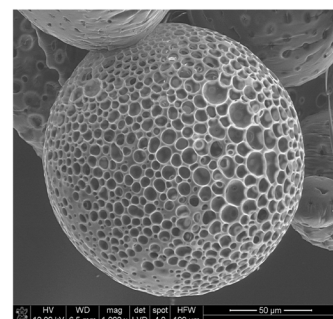
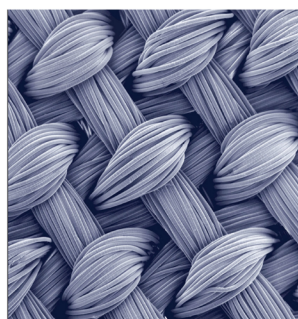
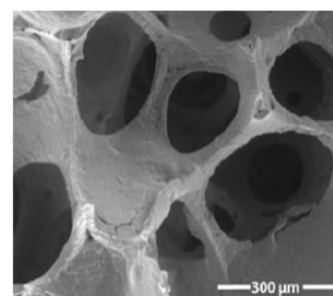
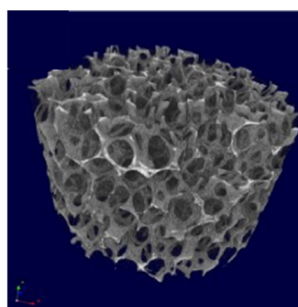
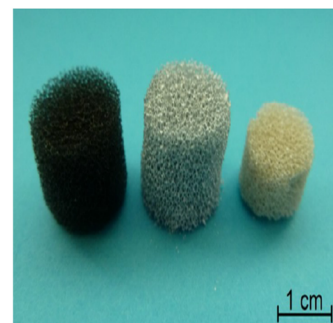
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**Tryb zgłoszeń:** kolejność zgłoszeń

**Opłaty:** 4 000 zł (za dwa semestry)

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**Zajęcia:** osiem zjazdów (soboty-niedziele) raz w miesiącu (AGH Kraków)



### Zgłoszenia:

Dr inż. Katarzyna Reczyńska-Kolman  
Sekretarz Studiów Podyplomowych  
tel. 12 617 23 38  
kmr@agh.edu.pl

Prof. dr hab. inż. Elżbieta Pamuła  
Kierownik Studiów Podyplomowych  
tel. 12 617 44 48  
epamula@agh.edu.pl



# WYROBY MEDYCZNE

Wytwarzanie • Legislacja • Jakość • Certyfikacja

## Interdyscyplinarne studia łączące inżynierię materiałową z regulacjami sektora wyrobów medycznych

Studia podyplomowe przygotowane w odpowiedzi na dynamiczny rozwój sektora MedTech i rosnące zapotrzebowanie na specjalistów łączących kompetencje inżynierskie z wiedzą z zakresu legislacji, jakości i certyfikacji wyrobów medycznych.

Program obejmuje pełny cykl życia wyrobu medycznego – od projektowania i doboru biomateriałów, przez wytwarzanie i badania właściwości, aż po ocenę biogodności, ocenę kliniczną oraz proces certyfikacji zgodny z MDR.

### DLA KOGO?

- ✓ inżynierowie i absolwenci kierunków technicznych
- ✓ działy B+R, jakości i Regulatory Affairs
- ✓ osoby planujące rozwój kariery w branży wyrobów medycznych

### DLACZEGO WARTO?

- ✓ specjaliści WIMiC AGH
- ✓ praktyczne moduły z ekspertami CeCert
- ✓ unikalne kompetencje dla sektora MedTech

**REKRUTACJA 1-28 lutego 2026**

### Zgłoszenia:

Dr inż. Patrycja Domalik-Pyzik  
Sekretarz Studiów  
Tel. 12 617 37 59  
pdomalik@agh.edu.pl

Prof. dr hab. inż. Elżbieta Pamuła  
Kierownik Studiów  
Tel. 12 617 44 48  
epamula@agh.edu.pl

### Szczegóły



Organizator: Wydział Inżynierii Materiałowej i Ceramiki AGH  
Partner merytoryczny: CeCert sp. z o.o.

Patronat: Polskie Stowarzyszenie Biomateriałów





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