



Lecture announcement

Materials and Processes in Additive Manufacturing

Materialien und Prozesse in der Additiven Fertigung

SoSe 2026

Date: Wednesday 9:45 a.m. – 11:15 a.m.
Wednesday 11:30 a.m. – 13:00 p.m.

Location: BE 52.4 (Seminarroom iBMB)

Supervisor: Jennifer Rudolph M. Sc. (iBMB)

Office hours: by arrangement

Language: English

Technical University of Braunschweig
**Institute for Building Materials,
Concrete Construction and Fire
Safety (iBMB)**
Division of Building Materials

Course coordinator
Niklas Freund M. Sc.

Beethovenstraße 52
38106 Braunschweig

Supervisor:
Jennifer Rudolph M. Sc.
Tel. +49 (0) 531 391-8224
j.rudolph@ibmb.tu-bs.de
<https://www.tu-braunschweig.de/ibmb>

Date: 24. Februar 2026

Date	Time	Topic	Lecturer
08.04.2026	09:45 - 11:15	Introduction lecture module AM	Rudolph/ Khader
	11:30 - 13:00	Lecture 1: Additive Manufacturing in the Construction industry - classification, examples and vision	Freund
15.04.2026	11:30 - 13:00	Lecture 2: Depositing processes: Shotcrete 3D Printing & Extrusion	Rudolph
22.04.2026	11:30 - 13:00	Lecture 3: Thixotropic Structural Buildup for Depositing 3D Printing processes	Rudolph
29.04.2026	11:30 - 13:00	Lecture 4: Digital manufacturing with earthen materials	Freund
06.05.2026	09:45 - 11:15	Lecture 5: Reinforcement concepts for AM	Freund
13.05.2026	09:45 - 11:15	Lecture 6: Particle-bed 3D printing I	Freund
	11:30 - 13:00	Lecture 7: Particle-bed 3D printing II	
03.06.2026	09:45 - 11:15	Lecture 8: Large Particle & Injection 3D Concrete Printing	Freund
10.06.2026	09:45 - 11:15	Lecture 9: Building Law Approval	Weger
17.06.2026	09:45 - 11:15	Lecture 10: Arc-based Additive Manufacturing	Hensel
24.06.2026	09:45 - 11:15	Lecture 11: Practical building application	Meyer-Brötz
08.07.2026	09:45 - 10:45	Exam	

 *Module I*