

Integrated research and teaching system for the implementation of additive technologies BPI/PST/2021/1/00092

Workshop No. 2.1.:

Selection of manufacturing technology in the area of additive technologies, including finishing treatments

| | Monday | Tuesday | Wednesday | Thursday | Friday |
|-------|---|--|--|---|--|
| | 24.04.2023 | 25.04.2023 | 26.04.2023 | 27.04.2023 | 28.04.2023 |
| 10:00 | Registration & Welcome Ceremony Lecture: Additive Manufacturing Processes in Medical Applications | Lecture: Fundamentals and application of Selective Laser Sintering | Lecture: Shot Peening as a special treatment technology - theory | Lecture: Preparation of samples for microscopic observation of the Ti6Al4V structure & Preparation of a metallographic microsection | Practice: Microscopic observations of the microstructure |
| 11:00 | Coffee break | Coffee break | Coffee break | Coffee break | Coffee break |
| 11:30 | Practice: Preparing samples for Selective Laser Sintering process | Practice: 3D printing of polyamide samples for material models | Practice: Shot Peening as a special treatment technology | Practice: Chemical etching of microsections. Electrochemical etching tests. Microscopic observations of the microstructure | Discussion and summary of the workshop: Conclusion of the selection of manufacturing technology in the area of additive technologies |
| 14:00 | Lunch | Lunch | Lunch | Lunch | Lunch |
| 15:00 | End of the Workshops' day | End of the Workshops' day | End of the Workshops' day | End of the Workshops' day | End of the Workshops' day |

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