

Title of Blended Intensive Program (BIP):

“Additive Manufacturing: Design and Processing”

The objective of this BIP program is students to become familiar with topics related to Design for Additive Manufacturing (DfAM), design of cellular structures, additive manufacturing processes, etc.

During the preparation phase, students will have to follow asynchronously the uploaded online teaching material related to program topic for better understanding and follow the lectures and workshop phase easily. The online material will be provided for each student after successful application individually.

In the on-site phase students will start the lectures and lab work after upon arrival immediately. Students will be working on small international groups for lab work. Also, students will stay at Hellenic Mediterranean University campus in double rooms for free of charge. Staff members can also stay in campus rooms in single rooms for free of charge.

The 17th of September is the arrival day. Students can arrive at HMU faculty from Heraklion airport which is 15 minutes away by direct bus connection.

The live synchronous face-to-face part of the BIP will start on the 18th of September early in the morning, and students will have to follow three lectures that day.

On the third and fourth day, students will have to follow two lectures per day. Also, they will be working in small international groups in the additive manufacturing labs.

For the next two days, a workshop on the topic of Design for Additive Manufacturing (DfAM) is scheduled. Students will be working in a computer room using CAD and design software. This workshop will be extended in two last days with intermediate lectures.

September 23rd will be the departure day.

During the above days, the participants will be visiting industrial local companies and also, they will have the opportunity to visit the unique Knossos Palace archaeological site and the archeological museum of Heraklion.

After the synchronous face to face sessions in Heraklion the online phase follows. During this period students will work in groups to prepare a project related with program topics. Students must prepare, submit, and present a report about their work online. Specifically, the virtual phase will start on October 2nd and complete on October 30th. During the virtual phase, students will be required to work on a specific project related to creating lightweight structures that will be fully compatible with additive manufacturing constraints

The workload of the BIP will correspond to 3 ECTS credits. The course will be accredited by the universities participate.