

<b>MONDAY</b>  19.07	<p>9:00 - 9:30 Opening and Welcome ceremony:</p> <p>9:30 - 10:00 <b>Virtual tour (presentation of TU Cluj-Napoca)</b></p> <p>10:00 -10:30 BRIGHT project presentation</p> <p>10:30 -11:00 Partners presentation</p> <p>11:00 -12:00 Presentation made by Medical institution: How engineers can support hospitals in the context of pandemic</p> <p>12:00 -13:00 Lunch break</p> <p>13:00 -13:30 Presentation related to the BRIGHT aims and objective of the International Summer school</p> <p>13:30 -13:45 Presentation of the medical parts to be developed and realized by 3D printing + launching of teams competition</p> <p>13:45 -14:00 Dividing in teams</p> <p>14:00 -15:00 <b>CAD – Computer Aided Design (lecture)</b></p> <p>15:00 -16:00 <b>CAD laboratory part 1 (working on medical parts prototypes design)</b></p>
<b>TUESDAY</b>  20.07	<p>9:00 - 10:00 <b>CAD laboratory part 2 (working on medical parts prototypes design)</b></p> <p>10:00 - 11:00 Validation of the proposed solutions by CAD experts – feedback (workshop / seminar)</p> <p>11:00 - 12:00 <b>CAE - Computer Aided Engineering (lecture)</b></p> <p>12:00 - 13:00 Lunch break</p> <p>13:00 - 14:00 <b>CAE laboratory part 1 (working on medical parts prototypes design)</b></p> <p>14:00 - 15:00 <b>CAE company presentation</b></p> <p>15:00 - 16:00 <b>CAE laboratory part 2 (working on medical parts prototypes design)</b></p>
<b>WEDNESDAY</b>  22.07	<p>9:00 - 10:00 Validation of the proposed solutions by CAE experts – feedback (workshop / seminar)</p> <p>10:00 - 11:00 <b>3D printing and Rapid Tooling (lecture)</b></p> <p>11:00 - 12:00 <b>3D printing company presentation</b></p> <p>12:00 -13:00 Lunch break</p> <p>13:00 - 14:00 Selecting of the adequate methods for printing the parts in cooperation with 3D printing experts (workshop / seminar)</p> <p>14:00 - 15:00 <b>Virtual Reality laboratory / Augmented reality experience</b></p> <p>15:00 - 16:00 <b>3D printing laboratory 1 (preparing the medical parts to be printed)</b></p>
<b>THURSDAY</b>  23.07	<p>9:00 - 10:00 <b>3D printing experience – feedback of the experts (workshop / seminar)</b></p> <p>10:00 -11:00 Discussion of issues occurred during the 3D printing process / improvements / corrections made in cooperation with 3D printing experts</p> <p>11:00 -12:00 <b>3D printing laboratory 2 (preparing the medical parts (improved variants) to be printed)</b></p> <p>12:00 -13:00 Lunch break</p> <p>13:00 - 14:00 <b>Process optimization and software control (lecture)</b></p> <p>14:00 - 15:00 <b>3D scanning and CMM control laboratory</b></p> <p>15:00 - 16:00 <b>3D printing experience – final feedback on behalf of the 3D printing experts (workshop / seminar)</b></p>
<b>FRIDAY</b>  24.07	<p>9:00 - 10:00 <b>Laboratory on Topological optimization of CAD models / Optimization of 3D printing processes</b></p> <p>10:00 - 11:00 <b>Medical imaging and project based learning laboratory</b></p> <p>11:00 -12:00 Conclusions and round table discussion with all participants at the end of the 1<sup>st</sup> week</p> <p>12:00 -13:00 Lunch break</p> <p>13:00 - 15:00 <b>Virtual city tour of Cluj-Napoca</b></p>