**FAUL | 2018/2019 | MGG | 1º semestre**

**Teacher:** Luís Mateus

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| Week 7<br>8/Nov – F & G<br>9/Nov – E & PL | • Line manipulation (in Rhino: project, pull, extend on surface, offset on surface, offset normal to surface)<br>• Transformations (in Rhino: twist, bend, taper, stretch, flow, smooth, soft move, cage editing).<br><br>• Exercise 6 (weight: 8)<br>Consider the base file given in (http://home.fa.ulisboa.pt/~lmmateus/1819_1_sem/MGGbase6.zip).<br>Choose the boundary corresponding to you number. That will be the starting point of you model.<br>The purpose of the exercise is to model a bridge/vault with a specified height at the middle (H value). The vault, seen from top, coincides with the given boundary.<br>The basis for the ashlars (considered in stone) is the given modulus.<br>The straight lines, both to be considered with the same height, define the margins to be linked with the bridge/vault.<br>After modelling the vault (through topologic transformations of the ashlars), solve the connection between the bridge, the vertical walls and the margins.<br><br>- Do a report, in PDF, illustrating and describing the modelling process and the results obtained.<br>- The delivery of the exercise (file *.3dm + *.pdf in a zipped folder named XXXXXXX_6.zip where XXXXXXX corresponds to your student number) should be done via Wetransfer or by email:<br>>> until the 24h of 25/11/2018 |