“Collineation Grounds”

Exhibition at Otakaari

“Collineation Grounds” is the title of your exhibition, which be hold at the court yard of Otakaari 1 from the 25th of May of 2021. Collineation Grounds’ is an arena to capture material representations of topics from low dimensional geometry and topology. The exhibition provides a framework to show a continuity/larger scale of mathematical concepts with a sense of materiality and an emotionally strong expressions of a rational process, or vice versa

The exhibition aims to find multiple relations between art and mathematics. In Mathematics, like in art there is a big space for interpretations and perspectives; these perspectives try for example to find different proofs and approaches. One of them is to increase understanding of this science. This statement is one of the main purposes of this exhibition: “to make science approachable through art”; to share the human understanding of mathematics to all professionals of Aalto university; to all the Aalto community. This exhibition will try to reach all kind of audiences (from mathematics, arts and any kind of audience) and aims that the people see mathematics as a source of inspiration from visual practices.

The exhibition content will be created by groups teams; these will be formed by multidisciplinary student teams; each group will make interpretations on low dimensional geometry, topology or any other mathematical concept, by designing a sculpture for the exhibition. Due to the different academic backgrounds of the students, each student can approach the task from the rational through the sensitive, or vice versa; this option is a flexible way that will help to developed and produce outcomes with this dual relation.

The whole exhibition is pictured as a whole, where circular platforms and mirrors are the backdrop for the students works. The round mirroring surfaces are used as unifying components in exhibition. These extends the artwork as a wider concept and alters the experience of viewing art differing by changing angles/distance - emphasizing artworks and the surrounding.

The aim is to generate an experience for the visitor where each team will design and produce one piece, that its contact surface can fit in a diameter from 1 to 1,5 meters. Once all pieces are place on the courtyard, they will generate something "more" than the separate pieces on their own; generating a synergy when all the sculptures are together. The expression and result of each sculpture has to be unique and conceived considering the concepts, topics related to the course and the ideas created in each multidisciplinary group.

As teachers, we would like you to find new ways to express the topics of the course and your personal and group ideas. Use any media, materials (lightweight or not so heavy) and experiment with them. As in all exhibitions, there are some guidelines and framework to follow (more details will be discuss in the tutoring per group), but the following are the most important to be considered.

Guidelines:

* Each team will have a budget of 1000€ (max. amount, this includes the material for prototypes and models)
* The pieces have to be considered as lightweight Structures\* (or not so heavy) in case there are physical objects
* Each team will design; produce one piece, that its contact surface of can fit in a diameter from 1 to 1,5 meters.
* Each team will help in the setup of their own sculpture.
* Each team will help setting down the exhibition.

\*Lightweight structures, when we talk about it, does not mean that the appearance has to be lightweight in case you do not want it; in this guideline is because of technical and safety reasons. In case you want an opposite effect than lightweight; how can something with a heavy appearance, actually have a light structure? There is the possibility to work ephemeral pieces. What if the piece is something immaterial? or that something starts to change, or to rotten?

Something that relates more than the visual sense? Etc...

\*These guidelines are not limitations and do not mean that you lack of options, on the contrary the guidelines and limitations will give you the opportunity to be more creative in a way of solving a problem. When there are limitations, we find better solutions to achieve something. (Those limitations will be discussed with each team during the process)

**TASK 01**

INDIVIDUAL AND GROUP REFERENCE TASK

Deadline 28.01.21

In this task, each student has to search for nine references (3 art, design or architecture, 3 Mathematical concepts for example: geometry/topology and 3 free topic). After each student has their references; each team have to choose from all the members nine final references (three from each topic mentioned).

*What are references?*

*References are images taken from the net, books, personal trips etc.… This images or “references” will be the starting point for inspirational ideas, (are images from existing projects or whatever that refers to your ideas into an image). The first aim is that you start searching for things that you like, for thing that catches your eye, something that you have not seen, or thinks that you love etc... (I think you get the point). These references will show main ideas and your personal interpretation of the topic in images (all references are valid as long are related with the topic and your personal interpretation about it).*

PRESENTATION

Each team has to show the following in a 5 - 7 min pdf-presentation. The presentation has to present the following:

1.-TEAM INTRODUCTION (name of the team, backgrounds, interests)

2. - GROUP REFERENCES TASK -each team have to present in 3 slides where there are shown the selected nine references from all the individual references. (1 slide per topic (3 images in each slide)

The aim of this task is first that each team knows each team member preferences, taste, expression and what each team member likes. as well is a good way to start get acquaintance with the topics involve in the course and is a good method that each team start to search and to discover their preferences as a team, this will help them to make decisions about their concepts and ideas to develop.

Good Luck!

Exhibition Design Team

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