

Workshop house design project

Comprehensive design 1-2 test / 18-21 Feb. 2021
Department of Agricultural and Industrial Building Design

CONTEXT

The KEM_P (Kelet-Európa Misszió Pihenőpark) is largely a recycling and recreational camp (and future agricultural) site within the general logistic base of the Kelet-Európa Misszió (Eastern Europe Mission, see link: <https://www.misszio.eu/index.php/kozpont>) located on the outskirts of Inárcs, a village of 4.400 inhabitants, 40 kms south of Budapest.

The Mission manages various charity programs throughout the Carpathian Basin, focusing on underdeveloped regions, segregated minorities, people living in poverty, and children; their main activity is collecting and recycling/redistributing all sorts of donations from across the globe and reassigning them to those in need.

The organization's base in Inárcs was created via donations over the past several decades adding elements one after the other to the site, resulting in a dissonant group of buildings presenting a disturbing, incoherent image, far from what the Mission would like to promote to the public.

THE SITE

The site now includes an old soviet warehouse, a small dormitory-like block made out of containers, several low-quality wooden bungalows and a larger central building which includes dorms, offices and storage area. The design site is the plot no. 0139/2. The EEM (KEM) also owns a forested area on the other side of the road, which could be the scene of the future development phases. Choosing the location for the Workshop house is also part of the design task; when defining the occupied space, you should consider future development opportunities (setting up a model greenhouse-plantation, expanding the workshop space, etc.)

DESIGN TASK

The purpose of this design task is to give a fresh and contemporary architectural solution to the core development unit that the Mission's headquarters is to be extended with. The Mission is taking on the challenge to become a training and development centre that focuses on two projects: the actual small-scale manufacturing of a DIY (Do It Yourself) greenhouse and a DIY shelter unit; with the possibility to train people on how to assemble and repair the units at home by themselves. The task is **to design the Workshop House** that includes the spaces necessary for these functions: prototype research and development, prototype production, group training and prototype introduction (in a showroom or similar), also the storage of a few samples. See the list of rooms below. Since it is likely for the house to be built based on donation money, the use of cost-effective solutions is strongly encouraged. The design should also consider the environment of the KEM_P site, which is a low-density, heterogenous village area, lacking a distinctive visual or architectural quality. Thus the Workshop House is also to serve as a flagship, a sample for good-quality, affordable design in the area.

LIST OF ROOMS

/these do not necessarily mean separate spaces, functions can be merged - without damaging useability - if the design concept requires so/:

1. Entrance area / circulation	15-20 m2
2. Administration, offices	12 m2
3. Classroom /meeting room for 15 people	25-30 m2
4. Social block for in-house workers changing room for 5 people (with shower), toilets (gender-separated)	20 m2
5. Social block for guests changing room / cloakroom for 15 people, toilets	15 m2
6. Kitchenette	10 m2
7. Material testing and development lab	15 m2
8. Workshop space including carpentry and metal-shaping machinery**	~65 m2
9. Assembly space and showroom*	~45 m2
10. Material storage	~30 m2
11. Prototype storage	~100 m2

Altogether:

~360 m2

* the display of the assembled prototypes can happen in an outdoor area, incorporated in the overall design of the house

** this should be a well-equipped workshop space with a clear height of at least 4,5m, with heavy-lifting indoor bridge crane

SUBMISSION-PRESENTATION

NO PRINTS are necessary!

PPT or .PPTX format in pieces of 12 (max. 15) sheets (1-title, 2-3-4 inspirational references/descriptive parts, 5-site plan, 6-7 floor plan(s), 7-sections, 8-9 facades, 10-3D presentation/photomontage, architectural vision) with text!

It should be 1 compiled ppt, or pptx file of max 15Mb.

Site plan(s)	M 1:500 scale
Floor plan(s)	M 1:200 scale
Section(s) – min. 2 perpendicular	M 1:200 scale
Facades	M 1:200 scale
3D images, sketches, photomontage decision	depends on the competitor(s)

To be sent by 21. 02. 2021 Sunday latest 12.00 PM onto the following email: komplextervezes@gmail.com. Personal presentation (TEAMS) to be held (compulsory!) 22. 02. 2021 Monday between 8.15am -1.00 pm!

Groups are welcome up until max. 2 people.

Chance for questions in written format sent to komplextervezes@gmail.com closed by 8.00 am Friday 19. 02. 2021.

Written answers are given Friday until 2.00 pm, and there is an online consultation on Friday between 1.00-2.00pm (TEAMS).

POINTS OF REFERENCE FOR EVALUATION

- tight and reasonable functional arrangement
- unique architectural appearance
- environmental connections
- proportional suiting-in
- harmony and balance enhancing the general appearance with the existing environment
- attractive contemporary architectural aesthetics

17th February 2021

As an extension of the project (not included in the framework of the design test) we suggest you prepare a DIY house extension prototype, that can serve as a plug-in upgrade element for the houses of the underprivileged. The prototypes can be submitted to the following competition. The Department has already paid the registration for multiple teams.

A home that can be home delivered worldwide

<https://uni.xyz/competitions/diy-home/info/about/>

If you are interested to apply, please contact your tutor for more information until the 23rd of February!

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head of course

Helfrich Szabolcs DLA
head of course

Prof. Marga Jann, AIA, RIBA
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