

Innsbruck University, 04.09.2025

## Pre-Diploma

### ./ topics and proposals

We, the LightweightStructures.unit, create at the intersection of design, lightweight structures & architectural geometry. Our “fat-free-design” approach results in intelligent, innovative and sustainable lightweight structures and architecture.

Radical design thinking can significantly inspire and extend analytical, logical thinking and creative problem-solving abilities. Geometry is key of promoted parametric, architectural and structural design processes. Geometry is omnipresent, from the initial form-finding stages to the structural concept and the actual construction. Architectural Geometry is therefore an entire research area, currently emerging and mediating at the border between applied geometry, structure and architecture. Our interests have especially been on the profound changes that nature including selforganizing forms and processes, and sometimes seemingly simple phenomena instigate in the way structures and architecture are thought, designed and built.

**WHY?** ... to promote environmentally compatible, structurally efficient and mind-elevating spaces.

**WHAT?** We create FatFreeDesign at the intersection of architectural design, lightweight structures & architectural geometry.

**HOW?** The basis of our multidisciplinary work in research and teaching is formed by radical creativity, analytical and structural thinking, computational and experimental methods and full-scale prototyping.

### *Interested in doing your Pre-Diploma and Diploma with LSU?*

You can

> **suggest your own topic** within the field OR

> **select from topics that we propose** to you. You will find proposed topics on our website.

If interested, come and talk to us to learn more about the topics and how to explore things together. Bring/Send your portfolio. Thank you.

## I. Topic and Proposal.

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Feel free to make your own proposal for a topic and provide a research and design plan that includes a timeline and the intended steps. Describe your skills and needed support as well as the aim of your project comprising the interests, methodology, and outcome as a final master's thesis as a follow-up of a successfully passed M2-studio and the Pre-Diploma- Design and Research Studio.

Given Name	<b>Name</b>	Student number
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<b>Topic / Title</b>	Provide a (preliminary) title or topic
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<b>Aim</b> I want to...	Say in short what is the aim of your proposal (max 20 words)
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<b>Content</b>	Provide a description of <b>what</b> you want to explore. Describe the process, skills and requirements (max 200 words)
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<b>Methodology</b> Method:	Explain <b>how</b> you want to do the design and research studio (max 50 words) and what <b>references</b> your proposal and work will be based on (list of max 5)
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References:

**Resources and  
Time Schedule**

Explain what you need to do at what time, what are the milestones for the Pre-Diploma. What resources and support do you need. What knowledge do you need/aim to complement?

**Why LSU?**

Explain why you would like to do your Pre-Diploma with LSU. What benefits do you expect for your work?

**Keywords**

Provide a maximum of **5 keywords** that describe your proposal/topic

## II. Portfolio.

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Provide a link that opens or that can download your portfolio.

## III. Skills provided / needed.

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Provide a list of your skills that you already have and that will help develop your EP Pre-Diploma- Design. Below you can also provide a list of skills that need to be complemented. Provide a reason why you would need them.

**Skill provided**

Rated 1 - 4 with 1 beginner, 2 medium, 3 advanced, 4 expert

**Skill needed**

Why?

#### IV. Submission of Application.

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Rename this file "NAME\_Prediploma\_LSU.pdf" and send it in time to [lightweightstructures@uibk.ac.at](mailto:lightweightstructures@uibk.ac.at)  
Do not send any further attachments or material.