

SUBJECT: Architecture of Workplaces 1 – Theory of Industrial Building Design	SESSION	SEMESTER	YEAR
LECTURER: Bartók István DLA associate professor	2020/2021	2nd	N. III.

## CONDITIONS OF FULFILMENT

### LECTURES

PRESENCE AND O T H E R CONDITIONS	Attendance of lectures, making notes and sketches fully covering the lectures.
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T A S K	
PRESENCE	Online participation in lessons is highly recommended. There are real-time online lectures on MS Teams due to the timetable of the course until withdrawal or modification of the Dean's directive or any other BME online education measures of higher level.
SCHEDULE OF HANDING IN	
MIN. REQUIREMENT OF ACCOMPLISHMENT	There are two mid-term tests and one additional test during the course. There is a scoring for each test. The average of the two best tests must be at least 50% of the points of the two tests.
CONDITIONS OF COMPLEMENTATION	
REMARKS	

### EXAMINATION

CONDITIONS OF EXAMINATION OR SUBSCRIPTION	Written exam. Examination due to the regulations of the faculty – according to Code of Studies.
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## TOPICS SCHEDULE

Educ. Week Cal. Week	Date	LECTURE	Date	PRACTICE
1. 7.	11. 02.	Lecture 1		Themes/ Conditions of fulfilment Questions of today and challenges of future Material, structure, form – connections in space and time Nature of building material – experience, know-how, experiments, failure and success
2. 8.	18. 02.	Lecture 2		INDUSTRY 1.0 – changing needs, new possibilities Revolutions and industrial revolutions: people and machines
3. 9.	25. 02.	Lecture 3		INDUSTRY 2.0 – mass production Modern wars – new needs: compulsion and experiments
4. 10.	04. 03.	Lecture 4		INDUSTRY 3.0 – automation Space and structure: big, “smart”, economic. Halls Questions of technology and spatial flexibility. High-tech
5. 11.	11. 03.	Lecture 5 Mid-term test no. 1		INDUSTRY 4.0 – network World of recent past and today, digitalization, intelligent factory, cyber-physical system, cloud computing food questions
6. 12.	18. 03.	Lecture 6		INDUSTRY 5.0 – “coopetitive workspace” World of today and near future, new challenges: “unique mass production”, human cognitive abilities + technology Overpopulation, sustainability
7. 13.	25. 03.	Studio week		
8. 14.	01. 04.	Spring holiday		
9. 15.	08. 04.	Lecture 7		Work environment, lighting, air, temperature Colour, space, material, comfort design, prestige Satisfactory vs. wasteful spaces
10. 16.	15. 04.	Lecture 8		Diversity of uniformity: offices once and today open plan, or single office Office architecture: methodology and space transformation
11. 17.	22. 04.	Lecture 9 Mid-term no. 2		Out of date. Can it be saved? Must it be demolished? Or can it be reinvented? reconstruction/revitalisation/rehabilitation IPARTERV – industrial architecture on the top
12. 18.	29. 04.	Lecture 10		Workplace of today and tomorrow Low-tech, Smart-tech and High-tech architecture 'remediate-reuse-recycle' - ReCLAIM. Alternative/ recycle/sustainability
13. 19.	06. 05.	Lecture 11 Retake test no. 3		Summary INDUSTRY 5.0/ Introduction of Architecture of Workplaces 2 Best practice – students projects
14. 20.	13. 05.	Project finalization week		
15. 21.	16. 05.			