

Topics for the proficiency examination for the second-cycle studies in the field of

ARCHITECTURE

TOPIC GROUP NO.1: architectural design

1. Main functional zones in hotel facilities and the principles governing their functional interconnections.
2. Key features of a contemporary sports and entertainment venue.
3. Long-span structural systems – their impact on architecture and load-bearing mechanisms.
4. Contemporary, monumental buildings of exceptional significance to the heritage of world architecture.
5. The influence of spatial context on architectural solutions.
6. Formal and functional characteristics of contemporary commercial architecture.
7. The influence of building regulations on architectural solutions.
8. Contemporary architects and their influence on the development of global architecture.
9. The concepts of high-tech and lightweight architecture.
10. The mottos 'less is more', 'less is bore' and 'yes is more' in architectural structures.
11. The principle of 'form follows function' in architectural structures.
12. The concept of 'genius loci' in architectural structures.
13. Innovations in architecture.
14. Principles of designing circulation routes in a contemporary office building. Typology of office design.
15. Characteristic features of R&D (research and development) building architecture.

TOPIC GROUP NO.2: urban planning/regeneration

1. The influence of the cultural environment on the design of new developments.
2. The influence of a plot's location within the urban fabric on the type and form of the proposed development and spatial planning.
3. The study of site conditions, the master plan and the local spatial development plan as documents for the protection of the cultural landscape.
4. The role of analyses (diagnosis of the existing condition) in the urban design process.
5. Spatial order and levels of urban planning.
6. 'A city for people' – implementing the concept in the design of public spaces.
7. Transport and mobility in the regeneration of urban areas.
8. Urban planning indicators and development parameters in the provisions of the local spatial development plan.
9. Public participation in local planning – purpose, role, forms, procedures.
10. Quality of life in the city and mitigating the effects of climate change.
11. Types of problem areas and their spatial potential in the regeneration process.

12. Strategic planning in spatial planning. Application of SWOT analysis.
13. Traditional town, urban agglomeration, conurbation, metropolis and metropolitan area.
14. Sustainable development at city level – purpose, principles, actions.
15. Basic planning acts and spatial planning instruments at the local level.

**TOPIC GROUP NO. 3 : conservation, regeneration, architectural theory,
research in the discipline of architecture and urban planning**

1. Forms and methods of heritage conservation.
2. Conservation recommendations in the design and construction process carried out in a historic building.
3. Provisions of the Venice Charter.
4. Adaptation, conservation and restoration in design within historic city centres.
5. Conservation protection zones.
6. Adaptations of historic buildings.
7. Urban regeneration.
8. Tools for area regeneration.
9. Gentrification.
10. Creative activities (creation), protective measures (conservation), transformations and
11. structural additions (compromise) in the process of regenerating inner-city areas.
12. Selected architectural theory.
13. Vitruvian Triad through the centuries.
14. The problem of academic research in the discipline of architecture and urban planning.
15. An academic article in the discipline of architecture and urban planning.
16. A selected movement or trend in 20th-century art.