COURSE DESCRIPTION CARD - SYLLABUS

Course name
Fundamentals of Architecture [N1IŚrod2>PA]

Course

Field of study
Environmental Engineering

Year/Semester
2/4

Area of study (specialization)
–

Profile of study
general academic

Level of study
first-cycle

Course offered in
Polish

Form of study
part-time

Requirements
elective

Number of hours

Lecture
10

Laboratory classes
0

Other
0

Tutorials
0

Projects/seminars
0

Number of credit points

1,00

Coordinators

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Lecturers

Prerequisites

The ability to perceive external conditions and to analyze an engineering problem in its socio-economic, geopolitical and historical background. Awareness of the need to constantly update and supplement knowledge and skills

Course objective

Transfer of basic knowledge in the area of architecture design in universal designing as a context for engineer'sprofession, and typical tasks appearing in the engineering.

Course-related learning outcomes

Knowledge:
1. Student knows the principal objectives of architecture and urban design (in universal framing) together with the meansused to achieve them
2. The student knows and understands the role of formal and functional solutions in the history of architecture
3. The student knows and understands the relationship between architecture and urban planning in a universal sense and technical and economic possibilities

Skills:
1. The student is able to obtain the necessary information and recognize the basic features of a building characterizing a given period in the history of architecture and urban planning
2. The student is able to identify the most important achievements in the development of architecture and urban planning and appreciate their universal character
3. The student is able to analyze architecture and urban planning from a universal perspective as an expression of the needs and possibilities of the investor

Social competences:
1. The student understands the need to constantly update knowledge to the extent necessary to solve theoretical and practical problems and their context
2. Students can see the need for continuing to increase the depth and breadth of their knowledge

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Written final tests (approx. 30 to 40 issues), Students' activity in acquiring knowledge/skills checked during classes

Programme content

1. Introduction: basic concepts in universal designing architecture, sustainable construction.
2. Built environment space (in universal framing): function, functionality and ergonomics in buildings.
3. The succession of styles as technological and material progress
4. History of towns and urban planning. City - structure, city planning
5. Architectural project, Technical description ,
6. Work tool for architectures, designers and constructions in universal framing.
7. Building vs human needs in universal framing: thermal comfort, light, etc.
8. Eco-construction. Historical buildings

Course topics

none

Teaching methods

Information lecture, lecture with multimedia presentation

Bibliography

Basic:
Basic bibliography:
1. Broniewski T., Historia architektury dla wszystkich wyd. II, Ossolineum, Wrocław 1980
2. Czarnecki W., Planowanie miast i osiedli t.I-VI, PWN, W-wa 1965
3. Koch W., Style w architekturze Świat Książki, W-wa 1996
4. Watkin D., Historia architektury zachodniej Arkady, W-wa 2006
5. Wróbel T., Zarys historii budowy miast Ossolineum, Wrocław 1971
6. Additional
7. Biegański P., U źródeł architektury współczesnej PWN, W-wa 1972
8. Charytonow E., Zarys historii architektury wyd. VII, WSiP, W-wa 1978
9. DiAlfonso E , Samss D., Historia architektury Arkady, W-wa 1997
10. Dobrowolski T., Sztuka polska Wyd. Literackie, Kraków 1974
11. Estreicher K., Historia sztuki w zarysie wyd. VII PWN, W-wa 1986
12. Karpowicz M., Barok w Polsce Arkady, W-wa 1988
13. Latour S i Szymski A., Rozwój współczesnej myśli architektonicznej PWN, W-wa 1985
14. Lorentz S., i Rottermund, A Klasycyzm w Polsce Arkady, W-wa 1984
15. Świechowski Z., Sztuka romańska w Polsce Arkady, W-wa 1982
16. Fletcher B., A history of architecture 20th ed. Architectural Press, Oxford 1996
17. Kostof S., A history of architecture 2nd ed. Oxford University Press 1995

Additional:
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Breakdown of average student's workload

	Hours	ECTS
Total workload	25	1,00
Classes requiring direct contact with the teacher	10	0,50
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	15	0,50