| | F | aculty | / of Civ | vil Eng | gineeri | ng and | Envir | onmental Sciences | ; | |
|----------------------------------|---|--|----------|---------|---------|---------------------------------------|--|------------------------|--------------------|--|
| Field of study | | Env | ironme | ental E | Ingine | Degree level and programme type | Bachelor's degree | | | |
| Specialization/ diploma path | International School of Engineering Study profile | | | | | | | | Academic profile | |
| Course name | Sanitary installations | | | | | | | Course code | 19284218H | |
| | | | | | | | | Course type | Obligatory | |
| Forms and | L | С | LC | Ρ | SW | FW | S | Semester | VI | |
| humber of hours of tuition | 2 | - | - | 2 | - | - | - | No. of ECTS credits | 4 | |
| Entry requirements | Water supply systems, hydraulics | | | | | | | | | |
| Course objectives | Developing knowledge about the components and design of water and sanitary installations in buildings. Developing knowledge about the solutions in material used in building installations. Developing skills for determining type of installation in buildings, depending on the size and use of the building. | | | | | | | | | |
| Course content | Design, construction, operating of water, sanitary. Legal regulations related to design of building installations. | | | | | | | | | |
| Teaching methods | informative lecture, conversational lecture, discussing the problem, project | | | | | | | | | |
| Assessment | lecture – written test | | | | | | | | | |
| method | proje | ct - pro | oject ex | ecutio | n | | | | | |
| Symbol of | Reference to Learning outcomes learning outcomes | | | | | | | Reference to the | | |
| learning | | | | | | | | learning outcomes for | | |
| outcome | | | | | | | | | the field of study | |
| L01 | Student defines the types of installations in buildings K_W14 | | | | | | | | | |
| LO2 | Stude | ent des | K_W14 | | | | | | | |
| LO3 | Stude | Student classifies the materials in building installations K_U07 | | | | | | | | |
| LO4 | Stude insta | ent ma Ilations | K_U18 | | | | | | | |
| LO5 | Stude | ent not | es the | proble | ms ope | eration | of build | ding installations | K_U19 | |
| LO6 | Stude insta | ent ass llation | sesses | K_K02 | | | | | | |
| Symbol of learning outcome | Methods of assessing the learning outcomes | | | | | | Type of tuition during which the outcome is assessed | | | |
| LO1 | writte | en test | | | | | | | L | |
| LO2 | written test | | | | | | | L | | |

COURSE DESCRIPTION CARD – SPECIMEN

| LO3 | written test, project execution L, | | | | | |
|---|--|---|---|--|--|--|
| LO4 | written test, project execution | L, P | | | | |
| LO5 | written test L | | | | | |
| LO6 | written test | L | | | | |
| | No. of hours | | | | | |
| | lecture attendance | 32 | | | | |
| | participation in classes, laboratory classes, etc. | 32 | | | | |
| | preparation for classes, laboratory classes, projects, seminars, etc. | 16 | | | | |
| Calculation | working on projects, reports, etc. | 16 | | | | |
| | participation in student-teacher sessions related to the classes/seminar/project | 5 | | | | |
| | implementation of project tasks | 8 | | | | |
| | preparation for and participation in exams/tests | 8 | | | | |
| | TOTAL: | 1 [.] | 17 | | | |
| | HOURS | No. of ECTS credits | | | | |
| Student work | 69 | 2,8 | | | | |
| | 48 | 1,9 | | | | |
| Basic | 1. Wise A.F.E., Swaffield J., Water, Sanitary and Waste Services | for Buildings, | Routledge, | | | |
| | 2012; | | 0 / | | | |
| references | 2012; 2. Panchdhari A.C., Water Supply And Sanitary Installations, New | v Age Interna | tional,2005; | | | |
| references | 2012; 2. Panchdhari A.C., Water Supply And Sanitary Installations, New 3. Garrett R.H., Hot and Cold Water Supply, Wiley, 2000. | v Age Interna | tional,2005; | | | |
| references Supplementary | 2012; 2. Panchdhari A.C., Water Supply And Sanitary Installations, New 3. Garrett R.H., Hot and Cold Water Supply, Wiley, 2000. 1. Bartram J., Legionella and the Prevention of Legionellosis, | v Age Interna , World Heal | tional,2005; th | | | |
| references Supplementary references | 2012; 2. Panchdhari A.C., Water Supply And Sanitary Installations, New 3. Garrett R.H., Hot and Cold Water Supply, Wiley, 2000. 1. Bartram J., Legionella and the Prevention of Legionellosis, Organization, 2007 | v Age Interna , World Heal | tional,2005; | | | |
| references Supplementary references Organisational | 2012; 2. Panchdhari A.C., Water Supply And Sanitary Installations, New 3. Garrett R.H., Hot and Cold Water Supply, Wiley, 2000. 1. Bartram J., Legionella and the Prevention of Legionellosis, Organization, 2007 | v Age Interna , World Heal Date of is | tional,2005; th suing the | | | |
| references Supplementary references Organisational unit conducting | 2012; 2. Panchdhari A.C., Water Supply And Sanitary Installations, New 3. Garrett R.H., Hot and Cold Water Supply, Wiley, 2000. 1. Bartram J., Legionella and the Prevention of Legionellosis , Organization, 2007 Department of Water Supply and Sewerage | / Age Interna , World Heal Date of is progr | tional,2005; th suing the amme | | | |
| references Supplementary references Organisational unit conducting the course | 2012; 2. Panchdhari A.C., Water Supply And Sanitary Installations, New 3. Garrett R.H., Hot and Cold Water Supply, Wiley, 2000. 1. Bartram J., Legionella and the Prevention of Legionellosis Organization, 2007 Department of Water Supply and Sewerage | v Age Interna , World Heal Date of is progr | tional,2005; th suing the amme | | | |
| references Supplementary references Organisational unit conducting the course Author of the | 2012; 2. Panchdhari A.C., Water Supply And Sanitary Installations, New 3. Garrett R.H., Hot and Cold Water Supply, Wiley, 2000. 1. Bartram J., Legionella and the Prevention of Legionellosis Organization, 2007 Department of Water Supply and Sewerage Jacek Dawidowicz, PhD DSc Eng. | v Age Interna , World Heal Date of is progr 10.05 | tional,2005; th suing the amme | | | |

L – lecture, C – classes, LC – laboratory classes, P – project, SW – specialization workshop, FW - field work,

S – seminar