

| STUDY MODULE DESCRIPTION FORM | | |
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| Name of the module/subject Wood construction in terms of historical and cultural | | Code 1010102121010116280 |
| Field of study Civil Engineering second-cycle studies | Profile of study (general academic, practical) (brak) | Year /Semester 1 / 2 |
| Elective path/specialty Costruction Engineering and Management | Subject offered in: Polish | Course (compulsory, elective) obligatory |
| Cycle of study: Second-cycle studies | Form of study (full-time,part-time) full-time | |
| No. of hours Lecture: 30 Classes: - Laboratory: - Project/seminars: 15 | | No. of credits 3 |
| Status of the course in the study program (Basic, major, other) (brak) | | (university-wide, from another field) (brak) |
| Education areas and fields of science and art technical sciences | | ECTS distribution (number and %) 3 100% |
| Responsible for subject / lecturer: Piotr Rapp email: piotr.rapp@put.poznan.pl tel. 61 6652094 Faculty of Civil and Environmental Engineering 60-965 Poznan, ul. Piotrowo 5 | | |
| Prerequisites in terms of knowledge, skills and social competencies: | | |
| 1 | Knowledge | The basic knowledge on structural mechanics and strength of materials. |
| 2 | Skills | Determining of the static model of a structure, determining of inner and support forces, determining of stresses and deflections in structural members. |
| 3 | Social competencies | Team work ability. |
| Assumptions and objectives of the course: The target of the course is to introduce the participants into timber structure development from the earliest historical periods to the present time. | | |
| Study outcomes and reference to the educational results for a field of study | | |
| Knowledge: | | |
| 1. Ability to differentiate structure types and styles from respective historical periods. - [-] 2. Knowing of ideas which led to creation of new timber structure types, mainly roof structures. - [-] 3. Knowing of timber joint designing methods resulting from wood properties. - [K_W07] | | |
| Skills: | | |
| 1. Drawing sketches and static schemes of selected roof structure types. - [K_U14] 2. Designing specific elements of structure joints. - [K_U07] 3. Making technical drawings of wood structures. - [K_U14] | | |
| Social competencies: | | |
| 1. Team work ability. - [K_K01] | | |
| Assessment methods of study outcomes | | |

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| <p>Passing the course involves passing project seminars and lectures. Passing project seminars involves preparation and oral project defence. Passing lectures involves written final exam. Exam marks scale in %: 90 very good (A) 85 good plus (B) 75 good (C) 65 satisfactory plus (D) 55 satisfactory (E) below 54 unsatisfactory/ failed (F)</p> | | |
| Course description | | |
| <p>The aim is to make students familiar with the following issues: Beginnings of timber structure constructions in early historical and ancient periods. Construction ideas in Middle Ages illustrated with examples of roof structures. Beginning and development of purlin, collar-beam, hanger and strut structures and roofs with tilted columns. Specific regional and sacral types of timber structures in Poland.</p> | | |
| Basic bibliography: | | |
| <ol style="list-style-type: none"> 1. Witruwiusz: O architekturze ksią dziesięć. PWN Warszawa 1956 2. Kopkowicz F.: Ciesielstwo polskie. Wyd. Arkady 1958 3. Praca zbiorowa: Drewniane kościoły Wielkopolski. Poznań 2003 4. Rapp P. : Historyczny rozwój ciesielskich konstrukcji dachowych w polskich kościołach [w R. Ganowicz: Historyczne więźby dachowe polskich kościołów, Wyd. Akademii Rolniczej w Poznaniu, Poznan 2000] 5. Wiśniewska M.: Osadnictwo wiejskie. Wyd. Politechniki Warszawskiej, Warszawa 1999 6. Strona internetowa: http://fast10.vsb.cz/temtis/en/ [1] Podręcznik 1. Konstrukcje drewniane. Projekt Leonardo TEMTIS, Opole 2008 [2] Handbook 2. Design of timber Structures According to E C 5. Projekt Leonardo TEMTIS, Opole 2008 | | |
| Additional bibliography: | | |
| <ol style="list-style-type: none"> 1. Gloger Z.: Budownictwo drzewne i wyroby z drzewa w dawnej Polsce. Warszawa 2006 (reprint) 2. Matlakowski W.: Budownictwo ludowe na Podhalu. (reprint z roku 1892) 3. Jankowski A.: Kościoły drewniane o zdwojonej konstrukcji scian w Wielkopolsce. Wyd. Uniwersytetu Kazimierza wielkiego w Bydgoszczy, Bydgość 2009 4. Ostendorf F.: Die Geschichte des Dachwerks. Hannover 1908 (reprint) | | |
| Result of average student's workload | | |
| Activity | Time (working hours) | |
| 1. Preparation for passing lectures | 30 | |
| 2. Making projects | 95 | |
| Student's workload | | |
| Source of workload | hours | ECTS |
| Total workload | 75 | 3 |
| Contact hours | 50 | 2 |
| Practical activities | 40 | 2 |