

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Multidisciplinarny		Code 1010112121010115659
Field of study Civil Engineering	Profile of study (general academic, practical) (brak)	Year /Semester 1 / 2
Elective path/specialty -	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: 15 Classes: 15 Laboratory: - Project/seminars: 30		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 %) 5 100%
Responsible for subject / lecturer: dr hab. inż. Jerzy Pasławski email: jerzy.paslowski@put.poznan.pl tel. 616652113 Budownictwa i Inżynierii Środowiska ul. Piotrowo 5 60-965 Poznań		Responsible for subject / lecturer: Piotr Nowotarski Roman Milwicz email: piotr.nowotarski@put.poznan.pl roman.milwicz@put.poznan.pl tel. 616652830 Budownictwa i Inżynierii Środowiska ul. Piotrowo 5 60-965 Poznań
Prerequisites in terms of knowledge, skills and social competencies:		
1	Knowledge	Basic computer skills, Basic knowledge of test procedures Basic knowledge of specific scientific testing.
2	Skills	Ability to communicate in different languages??, the ability to work with computer hardware and research.
3	Social competencies	Awareness of lifelong learning, the ability to work in a group and adopt different social roles
Assumptions and objectives of the course: Familiarize students with the capabilities of performing research in the framework of the thesis in conjunction with cooperation with external companies. Presentation of ownership frameworks, methods of construction of various components of the object to me : Walls, ceilings, roof trusses		
Study outcomes and reference to the educational results for a field of study		
Knowledge:		
1. Student knows the procedures for quality management of construction projects. Knowledgeable about the effectiveness, cost and lead time construction projects under risk and uncertainty - [K_W10]		
2. Student knows the rules of production materials and construction products - [K_W05]		
3. Student is knowledgeable about doing business in the construction industry. Understand the principles of financial management of enterprises - [K_W11]		
Skills:		
1. Student knows how to draw up a schedule of construction and cost estimate, contract or construction project business plan, manage, manage the building process, set out the obligations and responsibilities of project supervision and construction - [K_U10]		
2. Student is Able to carry out risk analysis in the implementation of projects and operation of buildings and implement appropriate measures and safety. Able to develop standards and norms of work and quality management procedures. - [K_U12]		
3. Student can make the development of preparing him to undertake scientific work. - [K_U18]		
Social competencies:		

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| 1. Student complements and extends knowledge of modern processes and technologies in construction - [K_K03] |
| 2. Student understands the need to inform the public knowledge of the construction - [K_K08] |
| 3. Student observes the principles of economic / financial activity of enterprises, comply with the rules of ethics. - [K_K11] |

Assessment methods of study outcomes		
Final test of the seminars. Quiz to test on exercises. Project completion on projects.		
Course description		
Methodology of Scientific Research Opportunities for cooperation with the Companies outside Job opportunities after graduation in the direction of CTM Presentations of companies cooperating with ZTIOB Wood frameworks		
Basic bibliography:		
1. Urbanek Grzegorz, Kompetencje a wartość przedsiębiorstwa 2. Roy Rob Timber Framing for the Rest of Us ISBN 9780865715080		
Additional bibliography:		
Result of average student's workload		
Activity	Time (working hours)	
1. Work with students	45	
2. Student work on their own	30	
Student's workload		
Source of workload	hours	ECTS
Total workload	125	5
Contact hours	45	3
Practical activities	30	2