POLITECHNIKA KRAKOWSKA IM. TADEUSZA KOŚCIUSZKI

KARTA PRZEDMIOTU

obowiązuje studentów rozpoczynających studia w roku akademickim 2017/2018

Wydział Inżynierii Lądowej

Kierunek studiów: Budownictwo Profil: Ogólnoakademicki

Forma sudiów: stacjonarne Kod kierunku: BUD

Stopień studiów: II

Specjalności: Konstrukcje budowlane i inżynierskie - studia w języku angielskim

1 Informacje o przedmiocie

Nazwa przedmiotu	Przygotowanie pracy dyplomowej
Nazwa przedmiotu w języku angielskim	Preparation of Diploma Project
Kod przedmiotu	WIL BUD oIIS E30 $17/18$
KATEGORIA PRZEDMIOTU	Przedmioty związane z dyplomem
Liczba punktów ECTS	19.00
Semestry	3

2 LICZBA GODZIN

Semestr	Liczba godzin
3	580.00

3 Cele Przedmiotu

- Cel 1 Summary of knowledge acquired in the studying course. The acquisition of the practical application of engineering knowledge.
- Cel 2 Better understanding of the design of selected engineering structures.



4 WYMAGANIA WSTĘPNE W ZAKRESIE WIEDZY, UMIEJĘTNOŚCI I INNYCH KOMPETENCJI

1 Passing of all subjects required by sequential list of items.

5 EFEKTY KSZTAŁCENIA

- **EK1 Wiedza** He knows the rules of analysis, design and dimensioning of components of complex building structures: metal, concrete, composite, wood and masonry.
- **EK2 Wiedza** He has knowledge of advanced topics strength of materials, modeling of materials and structures. He has knowledge of the theoretical basis of Finite Element Method.
- **EK3 Wiedza** He knows the classification and scope of computer programs supporting the analysis and design of structures and useful for planning construction projects.
- **EK4 Umiejętności** He is able to the design elements and complex metal structures, reinforced concrete, composite, wood and masonry. He is able to perform the classic static analysis and dynamic stability regimes rod (trusses, frames and tendons) statically determinate and indeterminate and surface structures (discs, plates, membranes and coatings).

6 Treści programowe

Praca Dyplomowa

Lp	Tematyka zajęć Opis szczegółowy bloków tematycznych	Liczba godzin
PD1	Analysis of the literature and the creation of the descriptive part of the work	80
PD1	Analysis of the literature and the creation of the descriptive part of the work	80
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PD2	Computer analysis and design work	400
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Lp	Tematyka zajęć Opis szczegółowy bloków tematycznych	Liczba godzin
PD2	Computer analysis and design work	400
PD2	Computer analysis and design work	400
PD3	The editing work on the Masters Thesis.	100
PD3	The editing work on the Masters Thesis.	100
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Praca Dyplomowa

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7 Narzędzia dydaktyczne

 $\mathbf{N1}$ Konsultacje

 $\mathbf{N2}$ Inne



8 Obciążenie pracą studenta

Forma aktywności	ŚREDNIA LICZBA GODZIN NA ZREALIZOWANIE AKTYWNOŚCI		
Godziny kontaktowe z nauczycielem akademickim, w tym:			
Godziny wynikające z planu studiów	0		
Konsultacje przedmiotowe	20		
Egzaminy i zaliczenia w sesji	0		
Godziny bez udziału nauczyciela akademickiego wynikające z nakładu pracy studenta, w tym:			
Przygotowanie się do zajęć, w tym studiowanie zalecanej literatury	0		
Opracowanie wyników	0		
Przygotowanie raportu, projektu, prezentacji, dyskusji	0		
Sumaryczna liczba godzin dla przedmiotu wynikająca z całego nakładu pracy studenta	20		
Sumaryczna liczba punktów ECTS dla przedmiotu	19.00		

9 Sposoby oceny

Ocena formująca

 $\mathbf{F1}\,$ Sugerowana ocena promotora zawarta w opinii do pracy

Ocena podsumowująca

 ${\bf P1}$ Ocena uzgodniona recenzenta i promotora

KRYTERIA OCENY

Efekt kształcenia 1			
NA OCENĘ 3.0	He has met the conditions set sufficiently		
Na ocenę 3.5	He has met the conditions set better then sufficiently		
Na ocenę 4.0	He has met the conditions set well		
Na ocenę 4.5	He has met the conditions set better then well		
NA OCENĘ 5.0	He has met the conditions very well		
Efekt kształcenia 2			
Na ocenę 3.0	He has met the conditions set sufficiently		



Na ocenę 3.5	He has met the conditions set better then sufficiently			
Na ocene 4.0	He has met the conditions set well			
Na ocenę 4.5	He has met the conditions set better then well			
Na ocenę 5.0	He has met the conditions very well			
	Efekt kształcenia 3			
Na ocenę 3.0	He has met the conditions set sufficiently			
Na ocenę 3.5	He has met the conditions set better then sufficiently			
Na ocenę 4.0	He has met the conditions set well			
Na ocenę 4.5	He has met the conditions set better then well			
Na ocenę 5.0	He has met the conditions very well			
	Efekt kształcenia 4			
Na ocenę 3.0	He has met the conditions set sufficiently			
Na ocenę 3.5	He has met the conditions set better then sufficiently			
Na ocene 4.0	He has met the conditions set well			
Na ocene 4.5	He has met the conditions set better then well			
Na ocenę 5.0	He has met the conditions very well			

10 Macierz realizacji przedmiotu

Efekt kształcenia	Odniesienie danego efektu do szczegóło- wych efektów zdefiniowa- nych dla programu	Cele Przedmiotu	Treści programowe	Narzędzia dydaktyczne	SPOSOBY OCENY
EK1		Cel 1 Cel 2		N1 N2	F1 P1
EK2		Cel 1 Cel 2		N1 N2	F1 P1
EK3		Cel 1 Cel 2		N1 N2	F1 P1
EK4		Cel 1 Cel 2		N1 N2	F1 P1



11 Wykaz literatury

LITERATURA PODSTAWOWA

[1] Naaman Antoine E. — Prestressed Concrete. Analysis and design, Michigan, 2004, Techno Press 3000

12 Informacje o nauczycielach akademickich

Osoba odpowiedzialna za kartę

dr inż. Rafał Szydłowski (kontakt: rszydlowski@pk.edu.pl)

Osoby prowadzące przedmiot				
1 dr inż. Rafał Szydłowski (kontakt: rszydlowski@op.pl)				
13 ZATWIERDZENIE KARTY PRZEDMIOTU DO REALIZACJI				
(miejscowość, data)	(odpowiedzialny za przedmiot)	(dziekan)		
Przyjmuję do realizacj	I (data i podpisy osób prowadzących przedmiot)			