(B) Course information in english

General course information:

Course title:		id Body chanics	Course code	e:	ГК0401
Credits:	6	CHAINOS	Work load (hours):		211
Course level:		Undergraduate			
Course type:		Mandatory			
Course category:		Basic			
Semester:	20		Hours per w	eek:	4
Course objectives	(ca)	abilities pursu	od and loarnin	na roc	
The course is indistributed force, described. The topic constraints and determinant structure for the analysis of british and structure.	trodu mom ics th virtua ires	ictory to mech ient, internal fo nat are develope al work. Plana are examined. I	anics. Physica prces, work, end and include equit ar and three an particular, te	al cor energy ilibrium e-dimei echniqu	ncepts like force, , friction etc are n, stability, motion, nsional structural
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Instructor's data:

Name:	Olympia Panagouli Assoc. Professor		
Level:			
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Other tutors:	-		

Week No.		Hours		
	Course contents	Course attendance	Preparation	
1	Fundamental Concepts and Principles in Mechanics.	4	3	
2	Vector Analysis.	4	3	
3	Rigid Bodies: Equivalent System of Forces.	4	3	
4	Free Body Diagram. Equilibrium of 2-D bodies.	4	3	
5	Equilibrium of 3-D bodies.	4	3	
6	Distributed Forces.	4	3	
7	Truss Analysis (statically determinant).	4	3	
8	Internal forces in Members	4	3	
9	Beam Analysis (statically determinant).	4	3	
10	Frame Analysis (statically determinant).	4	3	
11	Curved beams	4	3	
12	Centroids of Areas and Lines	4	3	
13	Work and Energy. Virtual Work theorem.	4	3	
14	Stability. Friction.	4	3	

Additional hours for:			
Class project	Examinations	Preparation for examinations	Educational visit
	3	40	

Suggested literature:

- Vardoulakis J. and Giannakopoulos A. E., 2008, Technical Mechanics I, Publisher Symmetria.
- Beer E. P. and Johnston E. R., 1977, Vector Mechanics for Engineers. Statics and Dynamics, McGraw-Hill.

Teaching method (select and descri	be if necessary - weight)
Teaching	
	70%
Seminars	
Demonstrations	
Laboratory	
Exercises	
	30%
Visits at facilities	
Other (describe):	
Total	100%

Evaluation method (select)- weight:				
	written	%	Oral	%
Homework				
Class project				
Interim examination				
Final examinations		100%		
Other (describe):				