

Identification	Department	Engineering and Applied Sciences	
	Program	Bachelor	
	Subject	Construction Materials	
	Term	Spring, 2018	
	Instructor	Sabira Zeynalova	
	E-mail	zeynalova.sabira@inbox.ru , sabirazeynalova91@gmail.com	
	Phone:		
Prerequisites	Construction Materials, Rocks and Stones, Materials for Making Cement and Concrete		
Language	English		
Compulsory/Elective	Compulsory		
Text books and course materials	<p>Slides and the lectures will be shared by group e-mail on the instructor's dropbox. As the text books, reference can be made to the followings:</p> <ol style="list-style-type: none"> 1. S.K.Duggal "Building Materials" New Dehli, 2008. 2. Peter Domone and John Illston "Construction Materials" 4th Edition, London, United Kingdom, 2010 3. N.M.Agabeyli "Construction Materials and Products" Baku, 2011 		
Teaching methods	Case analysis		x
	Group discussion		x
	Lab		
	Lecture		x
	Course paper		x
	Others		
Evaluation Criteria	Methods	Date/deadlines	Percentage (%)
	Midterm Exam		30
	Case studies		
	Class Participation		5
	Activity		5
	Quizzes		
	Project		
	Presentation		
	Laboratory Work (Assignments)		20
	Final Exam		40
	Other		
	Total		100%
Course objectives	<p>The subject of Construction materials and products provides detailed information in construction materials and production technology, their physical and mechanical properties, testing methods, transportation and storage rules. Theoretical basis is explained the natural stone materials, construction, ceramics, adhesive materials, concrete, polymer building materials and products and other building materials production technology. Building structures: is very important in order to know the reinforced concrete, metal, wood and plastic structures in the calculation of building materials and products, physical and mechanical.</p>		
Learning outcomes	<p>Principal properties of building materials; Structural clay products; Rocks and stones; Wood and wood products; Materials for making concrete-Cement; Materials for making concrete-Aggregates; Materials for making concrete-Water; Puzzolanas; Concrete; Concrete Mix Design; Building mortars; Ceramic material; Polymeric Materials; Paints, enamels and varnishes; Tar, bitumen and asphalt; Gypsum; Special cements; Acid-resistant cements; Oil-well cements; Ferrocement; Miscellaneous materials; Adhesives; Linoleum; Thermocol;</p>		
Course outline	<p>Theoretical and Practical methods of construction materials aspects of construction. Every other week, series homework's will be assigned, to be completed within subsequent two weeks.</p>		
Policy	<p>Preparation for class The structure of this course makes your individual study and preparation outside the class extremely important. The lecture material will focus on the major points</p>		

	<p>introduced in the text. Reading the assigned chapters and having some familiarity with them before class will greatly assist your understanding of the lecture. After the lecture, you should study your notes and work relevant problems and cases from the end of the chapter and sample exam questions.</p> <p>1. Withdrawal (pass/fail) This course strictly follows grading policy of the School of Engineering and Applied Science. Thus, a student is normally expected to achieve a mark of at least 60% to pass. In case of failure, he/she will be required to repeat the course the following term or year.</p> <p>2. Cheating/plagiarism Cheating or other plagiarism during the Quizzes, Mid-term and Final Examinations will lead to paper cancellation. In this case, the student will automatically get zero (0), without any considerations.</p> <p>3. Professional behavior guidelines The students shall behave in the way to create favorable academic and professional environment during the class hours. Unauthorized discussions and unethical behavior are strictly prohibited.</p> <p>4. Ethics Students should not arrive in late to class. All cell phones must be turned off and stowed away before entering class. Use of any electronic devices is not allowed in the classroom and violators will be punished accordingly.</p> <p>Lessons are conducted in English that's why questions and their answers must be in English.</p>
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Tentative Schedule

Week	Date	Topics	Textbook/Assignments
1	10.02.2018	Principal properties of building materials Structural clay products	1. S.K.Duggal "Building Materials" New Dehli, 2008 2. N.M.Agabeyli "Construction Materials and Products" Baku 2011
2	17.02.2018	Rocks and stones Wood and wood products	1. S.K.Duggal "Building Materials" New Dehli, 2008 2. Peter Domone and John Illston "Construction Materials" 4th Edition, London, United Kingdom, 2010 3. N.M.Agabeyli "Construction Materials and Products" Baku 2011
3	24.02.2018	Materials for making concrete- Cement Materials for making concrete- Aggregates	1. S.K.Duggal "Building Materials" New Dehli, 2008 2. Peter Domone and John Illston "Construction Materials" 4th Edition, London, United Kingdom, 2010 3. N.M.Agabeyli "Construction Materials and Products" Baku 2011
4	03.03.2018	Materials for making concrete-Water Puzzolanas	1. S.K.Duggal "Building Materials" New Dehli, 2008 2. N.M.Agabeyli "Construction Materials and Products" Baku 2011
5	10.03.2018	Concrete Concrete Mix Design	1. S.K.Duggal "Building Materials" New Dehli, 2008 2. Peter Domone and John Illston "Construction Materials" 4th Edition, London, United Kingdom, 2010 3. N.M.Agabeyli "Construction Materials and Products" Baku 2011

6	17.03.2018	Water-Cement Ratio in Concrete Mix Design	1. S.K.Duggal "Building Materials" New Dehli, 2008 2. Peter Domone and John Illston "Construction Materials" 4th Edition, London, United Kingdom, 2010 3. N.M.Agabeyli "Construction Materials and Products" Baku 2011
	24.03.2018	Novruz Holiday	
7	31.03.2018	Strength of Concrete	1. S.K.Duggal "Building Materials" New Dehli, 2008 2. Peter Domone and John Illston "Construction Materials" 4th Edition, London, United Kingdom, 2010 3. N.M.Agabeyli "Construction Materials and Products" Baku 2011
8	07.04.2018	Midterm Exam	
9	14.04.2018	Building mortars Ceramic material	1. S.K.Duggal "Building Materials" New Dehli, 2008 2. N.M.Agabeyli "Construction Materials and Products" Baku 2011
10	21.04.2018	Polymeric materials Paints, enamels and varnishes	1. S.K.Duggal "Building Materials" New Dehli, 2008 2. Peter Domone and John Illston "Construction Materials" 4th Edition, London, United Kingdom, 2010 3. N.M.Agabeyli "Construction Materials and Products" Baku 2011
11	28.04.2018	Tar, bitumen and asphalt Gypsum	1. S.K.Duggal "Building Materials" New Dehli, 2008 2. Peter Domone and John Illston "Construction Materials" 4th Edition, London, United Kingdom, 2010 3. N.M.Agabeyli "Construction Materials and Products" Baku 2011
12	05.05.2018	Special cements Acid-resistant cements	1. S.K.Duggal "Building Materials" New Dehli, 2008 2. Peter Domone and John Illston "Construction Materials" 4th Edition, London, United Kingdom, 2010 3. N.M.Agabeyli "Construction Materials and Products" Baku 2011
13	12.05.2018	Oil-well cements Ferrocement	1. S.K.Duggal "Building Materials" New Dehli, 2008 2. N.M.Agabeyli "Construction Materials and Products" Baku 2011
14	19.05.2018	Miscellaneous materials Adhesives	1. S.K.Duggal "Building Materials" New Dehli, 2008 2. N.M.Agabeyli "Construction Materials and Products" Baku 2011
15	26.05.2018	Linoleum Thermocol	1. S.K.Duggal "Building Materials" New Dehli, 2008 2. N.M.Agabeyli "Construction Materials and Products" Baku 2011
16	TBA	Final Exam	