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| Identification | | | Department | Civil Engineering | | |
| Subject | Health, Safety and Environment (HSE) (ENV 305) - 3 credits | | |
| Term | Fall 2017 | | |
| Instructor | Tural Maharramov MSc, Ph.D. candidate [tural.mhr@gmail.com](mailto:tural.mhr@gmail.com)  [tural.maharramov@khazar.org](mailto:tural.maharramov@khazar.org) | | |
| Classroom/hours | Monday, 18:40 | | |
| Prerequisites | | | None | | | |
| Language | | | English | | | |
| Compulsory/Elective | | | Compulsory | | | |
| Textbooks and course materials | | | **Core textbook:**  *1.NEBOSH (National Examination Board in Occupational Safety and Health) International General Certificate handbooks:*  *UNIT IGC1: MANAGEMENT OF INTERNATIONAL HEALTH AND SAFETY*  *UNIT GC2: CONTROLLING WORKPLACE HAZARDS*  **Supplementary sources:**  *2. Occupational health- A manual for primary health care workers* *3.* [*L. Lee Harrison*](http://www.amazon.com/s/ref=ntt_athr_dp_sr_1?_encoding=UTF8&sort=relevancerank&search-alias=books&field-author=L.%20Lee%20Harrison)*. (2008) Environmental, Health and Safety Auditing Handbook (Hardcover)* | | | |
| Teaching methods | | | Case analysis | | | x |
| Group discussion | | | x |
| Lab | | |  |
| Lecture | | | x |
| Course project | | |  |
| Problem solving | | | x |
| Others | | | x |
| Evaluation criteria | | | Methods | | Date/deadlines | Percentage (%) |
| Midterm Exam | |  | 30 |
| Case studies | |  |  |
| Class Participation | |  | 10 |
| Quizzes | |  | 10 |
| Project | |  |  |
| Presentation | |  | 10 |
| Laboratory Work | |  |  |
| Final Exam | |  | 40 |
| Reading task ( review paper) | |  |  |
| Total | |  | 100 |
| Course objectives | | | The objective of the module is to teach the students about all type of hazards including anthropogenic and natural hazards existing at universities, home and workplaces.  The module covers hazards identification, analysis methods, control methods, usage of safety equipment and other necessary theoretical and practical skills.  The hazards response measures based on local and international standards will be delivered at the HSE classes by case studies, team works, video materials, technical means, presentations and facilitation. | | | |
| Course outline | | | The main aim of this module is to prepare students for their future professional career and install safe working behaviours in them. | | | |
| **Tentative Schedule** | | | | | | |
| **Week** | **Date** | **Topics** | | | | **Textbook/Assignments** |
| 1 | 18.09.2017 | Introduction to HSE  Basic concepts | | | | Unit 1  Element 1 |
| 2 | 25.09.2017 | Foundation in health and safety  Local and international HSE legislations and standards | | | | Unit 1  Element 1 |
| 3 | 02.10.2017 | Health and safety management systems-PLAN  Health and safety management systems-DO (Part 1) | | | | Unit 1  Element 2  Element 3 |
| 4 | 09.10.2017 | Health and safety management systems-DO (Part 2) | | | | Unit 1  Element 3 |
| 5 | 16.10.2017 | Health and safety management systems-CHECK | | | | Unit 1  Element 4 |
| 6 | 23.10.2017 | Health and safety management systems-ACT | | | | Unit 1  Element 5 |
| 7 | 30.10.2017 | Workplace hazards and risk control | | | | Unit 2  Element 1 |
| **8** | **06.11.2017** | **Midterm Exam** | | | |  |
| 9 | 13.11.2017 | Transport hazards and risk control | | | | Unit 2  Element 2 |
| 10 | 20.11.2017 | Musculoskeletal hazards and risk control | | | | Unit 2  Element 3 |
| 11 | 27.11.2017 | Work equipment hazards and risk control | | | | Unit 2  Element 4 |
| 12 | 04.12.2017 | Electrical safety | | | | Unit 2  Element 5 |
| 13 | 11.12.2017 | Fire safety | | | | Unit 2  Element 6 |
| 14 | 18.12.2017 | Chemical and biological health hazards and risk control  Environmental hazards | | | | Unit 2  Element 7 |
| 15 | 25.12.2017 | Physical and psychological health hazards and risk control  Hazard control methods | | | | Unit 2  Element 8 |
|  |  | **Final exam** | | | |  |