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| Identification | Department | School of Engineering and Applied Science |
| Subject | Health, Safety and Environment (HSE) (ENV 305) - 3 credits |
| Term | Spring 2017 |
| Instructor | Tural Maharramov MSc, Ph.D. candidate tural.mhr@gmail.comtural.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%3Dntt_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 instill safe working behaviors in them. |
| Tentative Schedule |
| **Week** | **Date** | **Topics** | **Textbook/Assignments** |
| 1 | 18.09.2017 | Introduction to HSE Basic concepts | Unit 1Element 1 |
| 2 | 25.09.2017 | Foundation in health and safetyLocal and international HSE legislations and standards | Unit 1Element 1 |
| 3 | 02.10.2017 | Health and safety management systems-PLANHealth and safety management systems-DO (Part 1) | Unit 1Element 2Element 3 |
| 4 | 09.10.2017 | Health and safety management systems-DO (Part 2) | Unit 1Element 3 |
| 5 | 16.10.2017 | Health and safety management systems-CHECK | Unit 1Element 4 |
| 6 | 23.10.2017 | Health and safety management systems-ACT | Unit 1Element 5 |
| 7 | 30.10.2017 | Workplace hazards and risk control  | Unit 2Element 1 |
| **8** | **06.11.2017** | **Midterm Exam** |  |
| 9 | 13.11.2017 | Transport hazards and risk control | Unit 2Element 2 |
| 10 | 20.11.2017 | Musculoskeletal hazards and risk control | Unit 2Element 3 |
| 11 | 27.11.2017 | Work equipment hazards and risk control | Unit 2Element 4 |
| 12 | 04.12.2017 | Electrical safety | Unit 2Element 5 |
| 13 | 11.12.2017 | Fire safety | Unit 2Element 6 |
| 14 | 18.12.2017 | Chemical and biological health hazards and risk controlEnvironmental hazards | Unit 2Element 7 |
| 15 | 25.12.2017 | Physical and psychological health hazards and risk control Hazard control methods | Unit 2Element 8 |
|  |  | **Final exam** |  |