**Lab 3. Development of Information Security Management System (access control policy)**

1. Generate Access Control Policy for the computer science department where students, teachers, researchers, secretaries, accountants and managers work (people can have different roles – e.g. students that learn and research, teachers that teach and research …). Hint: you will need groups and populate each group with different individuals.

2. Modify the account policies (password and account) so that the security of the system improves. Describe in your own words password requirements.

3. Create access control matrix for files

“spending” - only the accountant can manipulate it and both manager and account can read it;

“exam” - only the creator (teacher) can read and manipulate it;

“research findings” - only researches can write in it but everyone can read it;

“exam\_registration” - controlled by the secretary, can be written but not read by students, and deleted and read by the teacher.

4. Using ISO 27002 standard identify assets according to previous tasks and choose appropriate controls for protection of these assets. Present results in the table:

| **Asset** | **Details** | **Location** | **Risk** | **Control** |
| --- | --- | --- | --- | --- |
| Project plans | Details of product development | Project manager office (computer, paper documentation) | Disclosure (gives advantage to competitor) | 6.1.5 Confidentiality agreements  9.1.2 Physical entry controls  9.2.1 Equipment siting and protection  10.4.1 Controls against malicious code  10.5.1 Information back-up  10.7.3 Information handling procedures  11.1.1 Access control policy  11.3.1 Password use  11.3.3 Clear desk and clear screen policy  11.5.2 User identification and authentication  11.6.1 Information access restriction  11.6.2 Sensitive system isolation |
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Sources:

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