General Information

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| Name of Course | Computer Networks I. |
| Course Code | PMRMINB127HA |
| Semester | 2017/2018 1. (Spring) |
| Number of Credits | 3 |
| Allotment of Hours per Week | 2 lectures and 0 practical lessons per week |
| Evaluation | Signature with grade |
| Prerequisites | Computer Architectures I. |
| Instructors | Dr. Géza Várady, Email: varady.geza@mik.pte.hu  Office: 7624 Pécs Boszorkány u. 2. Room: B109, Office phone extension: 23808 |

Introduction and learning outcomes

Computer Networks I. give a base for the next steps in the lectures in connection with Computer Networks. The course covers the basic goals of networks, the different grouping of networks and the main concepts behind the grouping parameters. The course goes through the basic layered reference models, the functions of the different layers. The details of the first and second layers of the ISO/OSI model is also covered. The different possible implementations of the physical layer are investigated and compared. The course is about network history and about the basics of the lower layer functions.

General Course Description and Main Content

This subject covers the fundamental principles of networks. The lecture covers network evolution history, network groupings, network layer models and implementations of lower layers.

The subject of the course includes the followings.

* Network aims
* Network history
* Grouping of Networks
* Layered model of network functions
* Lower layer implementations

Methodology

The course is based on the lectures with examples.

Schedule

The semester is divided into 14 weeks which follow the themes given above.

Attendance

Attending is not required but is strongly recommended. Preparation for the exams can be done according to the handout slides and the reference materials, although the course is part of the state exam for students.

Required Performance, Evaluating, Grading

The requirement is to make a midterm and a final exam scheduled for the 6th week and for the exam terminus in the theory part. The grade of the examination will be based on the final exam grade.

5. Outstanding work. Execution of work is thoroughly complete and demonstrates a superior level of achievement overall with a clear attention to details. The student is able to synthesize the course material with new concepts and ideas in a thoughtful manner and is able to express those ideas in clear way.

4. High quality work. Student work demonstrates a high level of knowledge with consistency. The student demonstrates a level of thoughtfulness in addressing concepts and ideas. Work demonstrates excellence but less consistency than a ‘5’ student.

3. Satisfactory work. Student work addresses all of the task and assignment objectives with few minor or major problems.

2. Less than satisfactory work. Work is incomplete in significant ways and lacks attention to details.

1. Unsatisfactory work. Work exhibits several major and minor problems with basic conceptual premise, lacking both intention and resolution. Results are severely lacking and are weak in clarity and completeness.

Grading Scale:

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| --- | --- | --- | --- | --- | --- |
| Numeric Grade | 5 | 4 | 3 | 2 | 1 |
| Evaluation interval | 85-100% | 72-84% | 63-72 % | 50-62 % | 0-49 % |

Students with Special Needs

Students with disability and needs to request special accommodations, please notify the Deans Office. Proper documentation of disability will be required. All attempts to provide an equal learning environment for all will be made.

Recommended Reading and Reference Materials

* **A.S. Tanenbaum – Structured Computer Architectures**