General Information:

Name of Course: # NETWORK AND SYSTEM MANAGEMENT

Course Code:	PMTRTNB336HA
Semester:	6th
Number of Credits:	5
Allotment of Hours per Week:	2 lectures, 2 practices
Evaluation:	Exam (with grade)
Prerequisites:	**-**
Instructors:	**Dr Peter IVÁNYI, full professor**
	Office: 7624 Hungary, Pécs, Boszorkány u. 2. Office N^o B240
	E-mail: ivanyi.peter@mik.pte.hu
	Office Phone: +36 72 503650/23636

Introduction, Learning Outcomes

The main aim of this course is to introduce topics that arise, when an administrator has to manage several computers, e.g. more than 100 computers. The course has two main topics: ITIL and data center design.

Upon completion of this course the student should be able to:

    a. understand the foundations of services;
    b. understand foundations of ITIL;
    c. generally overview the systems in a data center;

General Course Description and Main Content:

Brief Syllabus: This lecture and tutorials cover two topics:

- ITIL life cycles: Strategy, Planning, Transition, Operation and Continuous Improvement
- Design of data centers: Buildings, electric power, cooling and ventilation, hardware and software aspects of networking, logical networking, fire protection, security, servers, data storage

Methodology:

The presentations give an introduction to the above mentioned topics. Tutorials will cover some practice of the topic and some additional practical topics.

Schedule:

Study period in 15 weeks:

1. ITIL strategy lifecycle
2. ITIL planning lifecycle
3. ITIL transition lifecycle
4. ITIL operation lifecycle
5. ITIL continuous improvement lifecycle
6. Introduction to data centers
7. Hardware aspects of networking
8. Logical aspects of networking
9. Cooling and ventilation of data centers
10. Servers, redundancy
11. Testing and validation of networking
12. Storage systems

Network and System Management
Course Code: PMTRTNB336HA
Semester: Spring 2018/2019 2.

Course Syllabus
Time: L Monday 11:15-12:45
P Monday 13:15-14:45
Location: PTE MIK,L A-119, P A-119

Attendance:
Attending is required all classes, and will impact the grade (max. 10%). Unexcused absences will adversely affect the grade, and in case of absence from more than 30% of the total number of lesson will be grounds for failing the class. To be in class at the beginning time and stay until the scheduled end of the lesson is required, tardiness of more than 20 minutes will be counted as an absence. In the case of an illness or family emergency, the student must present a valid excuse, such as a doctor's note.

Evaluation + Grading
The final grade will have two components
1. ITIL test (passing grade 65 %)
2. Theoretical exam (passing grade 60%)
The combination of the two grades

Grading scale

Numeric Grade:	5	4	3	2	1
Evaluation in points:	90,5-100	80,5-90	70,5-80	62,5-70	0-62

Students with special needs:
Students with special physical needs and requiring special assistance must first register with the Dean of the Students Office. All reasonable requests to provide an equal learning environment for all students is to be assured.

Required Reading:
    All required reading material is provided via the Neptun system.