Visual Programming I.
Course Code: IVB268ANMI
Semester: Spring 2019/2020 1.

Course Syllabus

Location: PTE PMMIK, MIK A117

General Information:

Name of Course:	# VISUAL PROGRAMMING
Course Code:	**IVB268ANMI**
Semester:	
Number of Credits:	
Allotment of Hours per Week:	3 Lessons /Week
Evaluation:	Term Mark
Prerequisites:	**Programming I.**

Instructors: **Péter MÜLLER, assistant lecturer**
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Introduction, Learning Outcomes:

The main goal of the course is to give an introduction to visual programming in the LabView environment. The students attending the course get an insight into the basic concepts and programming techniques applied in visual programming. After successfully finishing the course, the students will have the required knowledge and skills needed for basic level application development in LabView.

The objectives of this course:

- getting familiar with the basics of visual programming in LabView,
- acquiring the skills for building simple applications in a visual programming environment.

Schedule:
The rough outline of the schedule is as follows:
Week 1: Course Intro, Basic Concepts of Visual Programming, Navigating LabView
Week 2: Dataflow paradigm, Building a simple VI
Week 3: Debugging Techniques
Week 4: Basic Data Types, Implementing a VI
Week 5: Plotting Data, Case Structures, Loops
Week 6: Data structures, Arrays, Clusters
Week 7: Type definitions, Exercises
Week 8: Test 1.
Week 9: Autumn break
Week 10: Sequential Programming, State Machine Algorithms
Week 11: Variables, Race Conditions
Week 11: Event-Driven Programming, Design Patterns
Week 12: Functional Global Variable, User interface control
Week 13: Consultation
Week 14: Test 2.

Attendance:
Attendance is required at 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
End of course grades assigned by instructors are based on:
Exams: 90% (45-45)
Participation, progress, effort and attitude : 10%

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Grading Scale:

Numeric Grade:	5	4	3	2	1
Evaluation in points:	89%-100%	77%-88%	66%-76%	55%-65%	0-54%

Students with Special Needs:
Students with a 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.

Readings and Reference Materials:

NI Core 1-2 Course Manual

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