Programming 1
Course Code: IVB332ANMI
Semester: Autumn 2019/2020 1.

Course Syllabus
Time: Lecture Tuesday 10:15-11:00
Labours Tuesday 11:15-12:45, 13:15-14:45
Location: PTE MIK,Lecture A313, Labours A119

General Information:

Name of Course: # Programming 1

Course Code:	**IVB332MLMI**
Semester:	**1**nd
Number of Credits:	**4**
Allotment of Hours per Week:	**1** lectures, 2 labours
Evaluation:	**Mid-term**(with grade)
Prerequisites:	**-**
Instructors:	**Zoltan Zidarics**

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C programming

Programming in C language in basic level. Upon completion of this course the student should be able to: **interpret,** and **put into practice**

    a. using C language in different operating systems,
    b. using Code::Blocks as an integrated development environment,
    c. strong knowledge of procedural programming paradigm
    d. basic activities:

        a. creating a project
        b. creating a test environment
        c. documenting codes
        d. using variables,types and other C specific objects
        e. using system functions (LIBC)
        f. version controlling (Git, Gitlab)

General Course Description and Main Content:

Brief Syllabus: This lecture and practical based course aims to give computer science engineering students a solid C basis through covering the following topics:

- Creating and managing C projects
- Sharing codes in a version controlling system
- Working in a developer workgroup, managing software lifecycle

Students learn the basics of programming enabling them to interpret and understand engineering sciences and through solving elementary tasks they deepen their basic theoretical knowledge in the field of engineering. The practical sessions are designed to complement the requirements of different specialisations.

Methodology:

The presentations give an introduction to important part of C language and software development techniques of exercise solving and the basic theory. Equal emphasis is given to learning how to construct and manage a C project.

Schedule:

Study period in 15 weeks: September 3 - December 18 (2018)

    1. Preface, history

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2.   Structure of the language
3.   Data types
4.   Operations
5.   Controlling
6.   Objects
7.   Pointers
8.   Structure
9.   *Autumn break*
10.   GNU Libc
11.   Coding style
12.   Version controlling
13.   Gitlab
14.   Final exam
15.   Consultation

Correction period: Dec 18-23 (2018)
Exam: The subject ends with mid-term grade

Attendance:
Attending is not required all classes, but it needs all homeworks and project work at least 65% level.

Evaluation + Grading
Grading will follow the course structure with the following weight:

1. tests 50%
2. Homeworks 20 %.
3. project work 30 %
4. Offered exam grade: over 55 % during the study and correction period.
5. Written project work at the begin of exam period. A minimum of 55% is required to pass the project work.

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 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 and other Materials will be equivalent to:
   KERNIGHAN-RITCHIE'S C PROGRAMMING:
HTTP://VILI.PMMF.HU/PORTAL/DOCUMENTS/87/EAE48A19-618F-4D1C-B315-F112E58CF6FF
   C NOTES FOR PROFESSIONALS:
HTTP://VILI.PMMF.HU/~ZAMEK/CNOTESFORPROFESSIONALS.PDF
   THE GNU C
LIBRARY:HTTPS://WWW.GNU.ORG/SOFTWARE/LIBC/MANUAL/HTML_MONO/LIBC.HTML
   GIT DOCUMENTATION HTTPS://GIT-SCM.COM/DOC
   GITLAB DOCUMENTATION HTTPS://DOCS.GITLAB.COM/