Course Schedule, Grading and Rules

Week 1 (26-30.09.2022):
1) Course rules
2) Grading information
3) Lecture: FPGA

Week 2 (03-07.10.2022):
1) Lecture: Basic Verilog

Week 3 (10-14.10.2022):
1) AND gate will be implemented with students as a Vivado tutorial .
2) Experiment 1 will be worked on by the students at home. Results and problems regarding to Experiment 1 will be discussed in week 4.

Week 4 (17-21.10.2022):
1) Verilog Lecture: if-else, case statements
2) Discussion of results and problems of Experiment 1.
3) Student will complete experiment report for Experiment 1 and upload it to Ninova.
4) Experiment 2 will be worked on by the students at home. Results and problems regarding to Experiment 2 will be discussed in week 5.

Week 5 (24-28.10.2022):
1) Vivado Lecture: constraints, .xdc file editing, pin assignment
2) Discussion of results and problems of Experiment 2.
3) Student will complete experiment report for Experiment 2 and upload it to Ninova.
4) Experiment 3 will be worked on by the students at home. Results and problems regarding to Experiment 3 will be discussed in week 6.

Week 6 (31.10-04.11.2022):
1) Vivado Lecture: generate
2) Discussion of results and problems of Experiment 3.
3) Student will complete experiment report for Experiment 3 and upload it to Ninova.
4) Experiment 4 will be worked on by the students at home. Results and problems regarding to Experiment 4 will be discussed next in week 7.

Week 7 (14.11-18.11.2022):
1) Verilog Lecture: Clock
2) Vivado Lecture: Using IP Catalog
3) Discussion of results and problems of Experiment 4.
4) Student will complete experiment report for Experiment 4 and upload it to Ninova.
5) Experiment 5 will be worked on by the students at home. Results and problems regarding to Experiment 5 will be discussed in week 8.

Week 8 (21-25.11.2022):
1) Verilog Lecture: Finite State Machines
2) Discussion of results and problems of Experiment 5.
3) Student will complete experiment report for Experiment 5 and upload it to Ninova.
4) Experiment 6 will be worked on by the students at home. Results and problems regarding to Experiment 6 will be discussed in week 9.

Week 9 (28.11-02.12.2022):
1) Discussion of results and problems of Experiment 6.
2) Student will complete experiment report for Experiment 6 and upload it to Ninova.
3) Experiment 7 will be worked on by the students at home. Results and problems regarding to Experiment 7 will be discussed in week 10.

Week 10 (05-09.12.2022):
1) Lecture: Matlab
2) Verilog lecture: reading from a file and writing into a file with testbench
3) Discussion of results and problems of Experiment 7.

4) Student will complete experiment report for Experiment 7 and upload it to Ninova.
5) Experiment 8 will be worked on by the students at home. Results and problems regarding to Experiment 8 will be discussed in week 11.

Week 11 (12-16.12.2022):
1) Discussion of results and problems of Experiment 8.
2) Student will complete experiment report for Experiment 8 and upload it to Ninova.

Week 12 (19-23.12.2022):
1) Registration for makeup experiment using form at https://forms.gle/DfzbytydHNAN73xA6
2) Makeup experiment will be worked on by the students at home. Results and problems regarding to makeup experiment will be discussed in week 13.

Week 13 (26-30.12.2022):
1) Discussion of results and problems of makeup experiment.
2) Student will complete experiment report for makeup experiment and upload it to Ninova.

Course Rules:
1) Each student should be prepared when he/she enters to the lab session. Topics regarding to each experiment must be reviewed before experiments.

2) If a student has a reason for not atending an experiment session which is defined in the general rules of the university, he/she must give a request to the deans office. If the reason is accepted then the student can retake that experiment.

3) A student can take only one retake.

4) If there is a second missing experiment, he/she will get 0 as the grade.

5) If a student's average experiment grade is lower than 35, the student will get VF.

6) There are 8 experiments.

7) **Two term projects** and **one final project** will be given. Dates of the projects will be determined during the term.

8) The final grade of a student is calculated by using Equation (1). The grade of one experiment is calculated by using Equation (2).

Grading:

Final grade=0,4*Average of the experiment grades+0,3*Average of two term project grades+0,3*Final project grade   (1)

Experiment grade = 0,7*Performance during experiment + 0,3*Report   (2)