

Lab Logistics

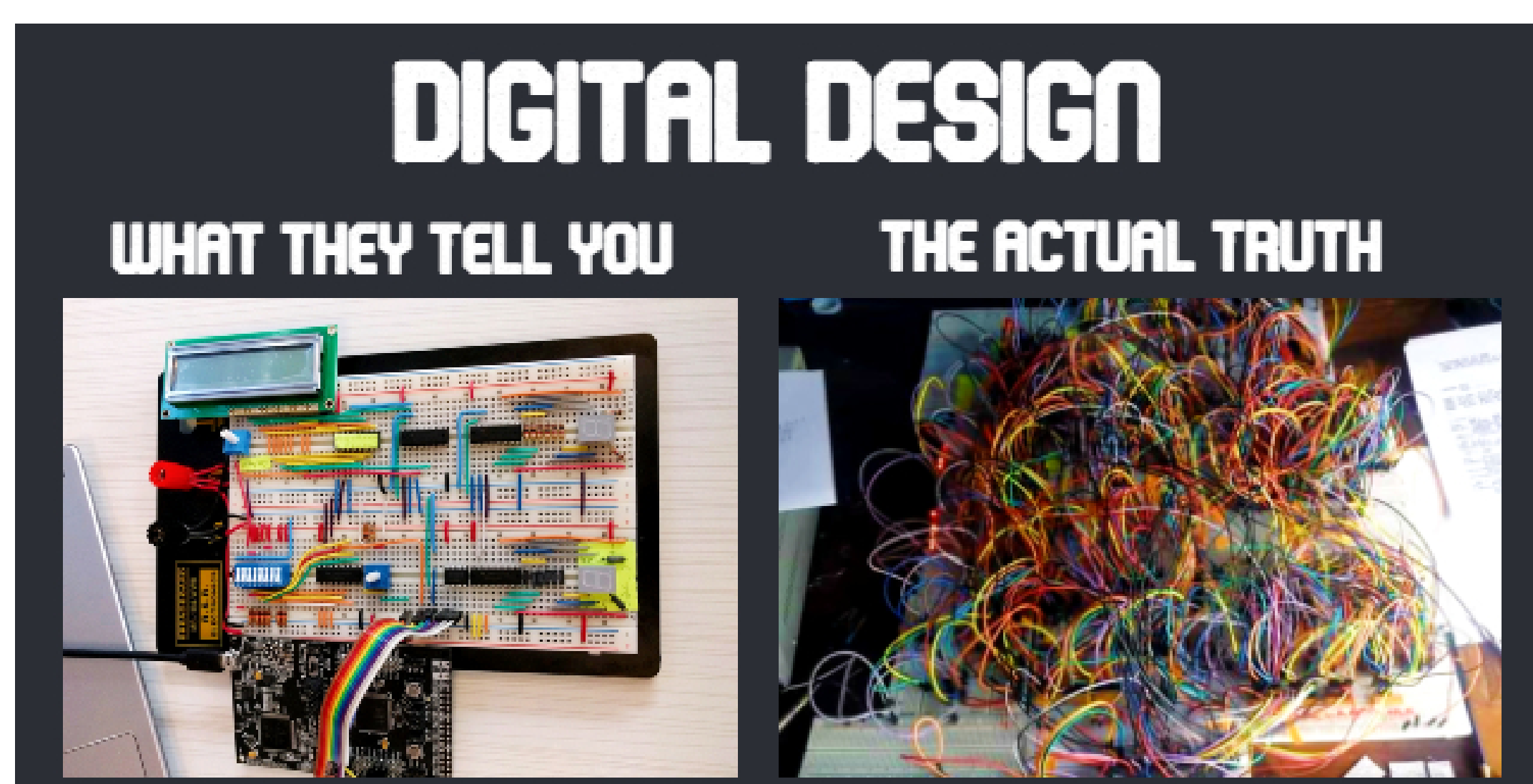
BBM233 Digital Design Lab - 2024 Fall



LET'S GET THIS PARTY STARTED

Dear BBM233 Students,

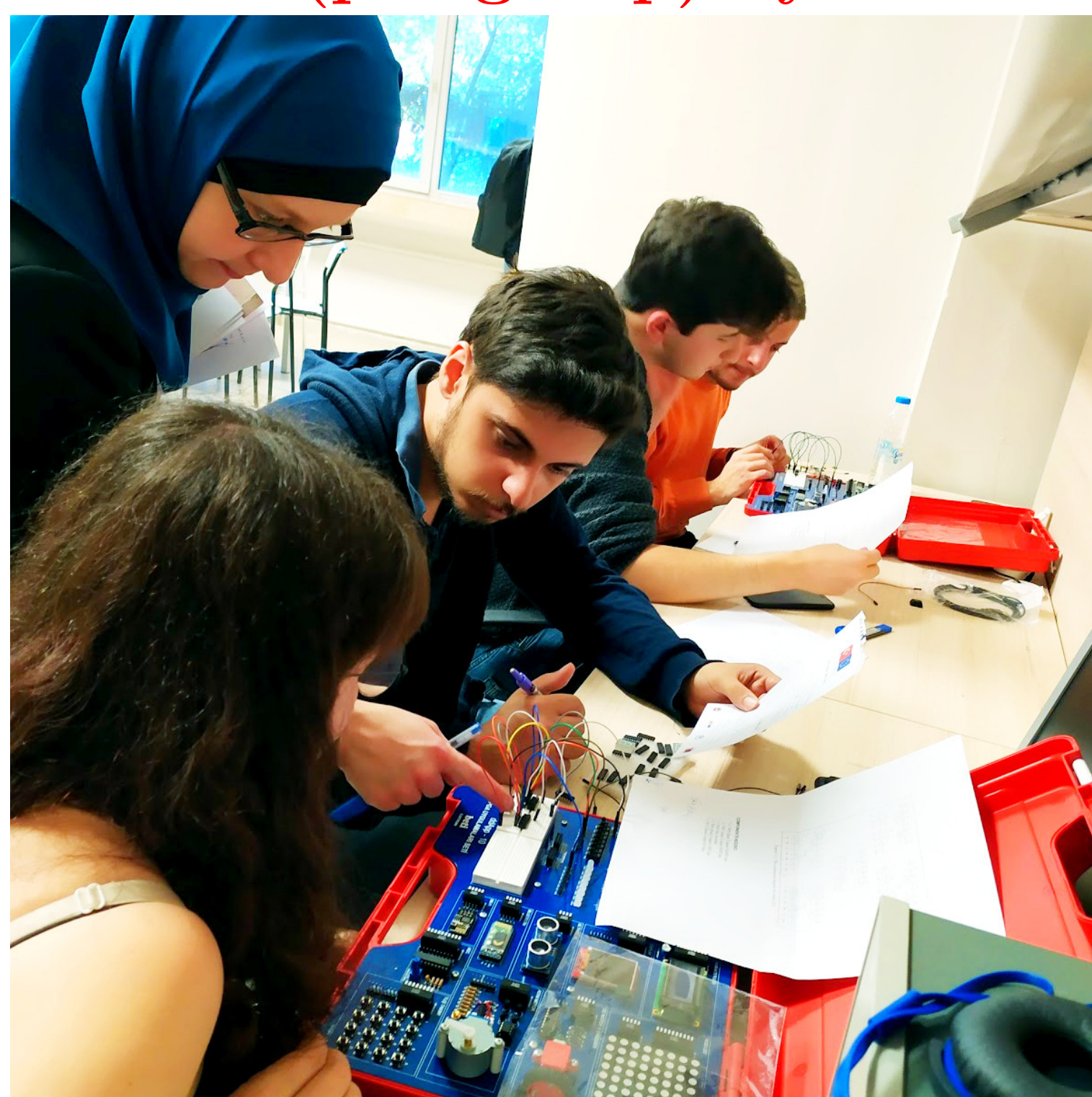
We are so excited to get started with the lab experiments. But first, you need to get some theoretical knowledge. Our lab sessions will begin in Week 3 of this semester. Please follow our [Piazza class](#) regularly, as all course announcements will be posted here. We are looking forward to building fun digital logic design projects with you this semester.



LAB TOPICS

Our lab course will consist of two parts:

- First half: **Board experiments** - digital logic design using logic gates and other electronic components (**Digital Systems Lab**). **Please obtain the necessary materials (per group) by the end of Week 3!**



MATERIAL NEEDED FOR BBM233 EXPERIMENTS:

- 2 X 7400 QUAD 2-INPUT NAND GATE
- 2 X 7402 QUAD 2-INPUT NOR GATE
- 2 X 7404 HEX INVERTER
- 2 X 7408 QUAD 2-INPUT AND GATE
- 2 X 7432 QUAD 2-INPUT OR GATE
- 2 X 7447 BCD TO 7-SEGMENT DECODER/DRIVER + 2 X COMMON ANODE SEVEN SEGMENT DISPLAY
- A SET OF JUMPER CABLES

- Second half: **Verilog projects** - digital logic design using hardware description languages and FPGA simulators (**Computer Lab**).

GRADING POLICY

- 3 Board Experiments 30% (10% each)
- 2 Verilog Quizzes 5%
- 2 Verilog Assignments 40% (20% each)
- Final Project (Verilog) 25%

OPTIONAL JOINING OUR MS TEAMS CLASS

Since both labs do not have enough space to take all students at once, we may need to have a few online sessions in the second half of the semester. Please join our MS Teams Class for that purpose as instructed. We will use [Microsoft Teams for Education](#) for our lab sessions, so please install this software on your computer or use the online Web application by [signing in to your Office 365 account using your hacettepe.edu.tr e-mail address: <accountname>@hacettepe.edu.tr](#).

Students and teachers get Teams for free

Engage students with virtual face-to-face connections and activities, or set up a remote lunch to keep classrooms connected and having fun and it's free for students and teachers with a valid school email address.

Enter your school email address

selmadilek@hacettepe.edu.tr

Get Started

[DOWNLOAD MICROSOFT TEAMS >](#)



Finally, you will use your hacettepe.edu.tr account password to sign in.

Join our Teams Group BBM233 Digital Design Lab 2024 Fall via this link.

Welcome to BBM233 Digital Design Lab 2023 Fall

Choose where you want to start

