Lab III (Embedded System)
ECE 324C

Benha University | Computer Systems Engineering
Electrical Engineering Department | Faculty of Engineering
(at Shoubra)

Course Title:	Lab III (Embedded System)
Course Code:	ECE 324C
Course Page:	http://bu.edu.eg/staff/islam.elshaarawy-courses/14157
Instructor:	Dr. Islam ElShaarawy (http://www.bu.edu.eg/staff/islam.elshaarawy)
Main Textbook:	Edward Angel and Dave Shreiner. *Embedded Systems: Introduction to Arm® Cortex™-M Microcontrollers*. 5th Edition (2nd printing), CreateSpace Independent Publishing Platform, 2014, ISBN 978-1477508992.
Online Resources:	http://users.ece.utexas.edu/~valvano/ http://www.ti.com/tool/sw-tm4c

Course Contents:
1. Introduction to Computers and Electronics
2. Introduction to Embedded Systems
3. Introduction to the ARM Cortex-M
4. Introduction to Input/Output
5. Modular Programming
6. Pointers and Data Structures
7. Variables, Numbers, and Parameter Passing
8. Serial and Parallel Port Interfacing
9. Interrupt Programming and Real-time Systems
10. Analog I/O Interfacing
11. Communication Systems

Course Policy:
1. Attendance is compulsory.
2. **Reading the relevant chapter(s) ahead of lectures is essential.**
3. Keeping track of whatever happens during the lectures is the student responsibility regardless of attendance.
4. Side talking, cellphones, laptops, food/drinks, and walking[1] are not allowed.
5. **Leaked solution manual as well as any other resources (unless otherwise specified) should never be used for solving the assignments.**

Grading System:

Attendance[2]:	000
Homework:	010
Lab Work:	010
Midterm Exam:	010
Oral/Practical:	020
Final Exam:	050
Total	100

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1 If you are late for the lecture, then you are allowed to walk into the lecture hall but quietly.
2 Attendance will be taken anyway.