
PGT302 – Embedded Software Technology

Course Objectives

- **CO1:** Ability to DESCRIBE the concept of embedded software
- **CO2:** Ability to EVALUATE embedded software implementations
- **CO3:** Ability to DEVELOP embedded software for specific applications

Course Assessment

	Examinations			Course Work		
Total Contribution	60%			40%		
Assessment	Mid-Term	Finals	Assignments	Lab Assessments	Lab Project	
Contribution	20%	40%	10%	20%	10%	

Course Requirements

- Computer programming
 - mostly C, some assembly
- Basic microprocessor architecture
 - memory, I/O, digital data
- Basic logic interface and protocol
 - timing diagram analysis
- A lot of time...

Course Reference

- Anything on embedded {something}
- Anything on Raspberry PI
- Anything on micro-controllers
 - e.g. 8051
- Anything on Linux programming

Course Resources

- Official course site:
 - <http://azman.unimap.edu.my/dokuwiki/doku.php?id=archive:pgt302>
- Raspberry Pi site:
 - <http://raspberrypi.org>
- Bare-metal programming example
 - <http://github.com/azman/my1barepi>
- Linux programming example
 - <http://github.com/azman/my1linuxpi>