College of Engineering

GENG 107 – L53: Engineering Skills and Ethics

Fall 2022

Assignment #1

Submitted To:

Dr. S M Muyeen

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Problem#1

Since my teens, I loved writing code and I believed in the power of programming to transform and improve the lives of people around the world. Today, I am an Honor student in Computer Engineering at Qatar University. I am passionate about robotics, machine learning, and space applications. The Computer Engineering program at Qatar University is the discipline in which I have enrolled, and I have decided to choose. It is accredited by the Engineering Accreditation Commissions; EAC of ABET, http://www.abet.org. Accreditation ensures that the students, parents, employers, and society can be confident that a program meets the quality standards that produce graduates prepared to enter a global workforce. The Computer Engineering program focuses on the design, analysis, and applications of computer hardware and software such as components of integrated computing systems. It overlaps with Computer Science on one end (i.e., software systems) and with Electrical Engineering on the other (i.e., digital hardware). The program equips students with hands-on experience in system design and implementation by offering a set of practical labs in digital logic, microprocessor, electronic signal processing, computer interfacing, robotics, etc. Computer Engineering attracted me since it is a relatively new field of engineering and is one of the fastest growing fields today and computer engineering is one of today's most technological based jobs. Moreover, Computer Engineering is very broad and computer engineers can establish successful computing or engineering careers in industry or government that will contribute to the economic development of the country, the region, and beyond. Also, I will have the chance to contribute to the design, development, and improvement of solutions to interdisciplinary computing or engineering problems. Lastly, I am willing to pursue entrepreneurial endeavors and advanced studies.

Problem#2

I am taking the following courses this semester:

- CMPE 462 - Computer Interfacing - 3 Cr
- GENG 107 - Engineering Skills and Ethics - 3 Cr
- GENG 360 - Engineering Economics - 3 Cr
- MATH 217 - Mathematics-Engineering - 3 Cr
- UNIV 220 - community service learning - 3 Cr
- GENG 498 - Multidisciplinary Senior Design Project I 2 مشروع تخرج متعدد التخصصات - 3 Cr
- HONS 301 - Expertise, Experience and Exchange: tips for research methods (H) - 0 Cr
- HONS 302 - Guide to senior project (H) - 0 Cr

Remarks:

- The HONS courses are pass or fail courses and they are considered consecutive workshops, each long for 4-5 weeks on Saturdays only (we are taking HONS 301 and it will finish on Sep 24, then HONS 302 will start).
- For UNIV 220, it is a community service course based on volunteering in FIFA WORLD Cup 2022, we are just learning some behaviors of community work and all the grades are based on the volunteering work, so it is not a classical class that is why I reduced the studying hours of it in my schedule.

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	Sleep 12:00AM-6:00AM	Sleep 12:00AM-6:00AM	Sleep 12:00AM-6:00AM	Sleep 12:00AM-6:00AM	Sleep 12:00AM-7:00AM	Sleep 12:00AM-7:00AM	Sleep 12:00AM-6:00AM
	Breakfast 6:00AM-7:00AM	Breakfast 6:00AM-7:00AM	Breakfast 6:00AM-7:00AM	Breakfast 6:00AM-7:00AM			Breakfast 6:00AM-7:00AM
	Uni Drive 7:00AM-8:00AM	Uni Drive 7:00AM-8:00AM	Uni Drive 7:00AM-8:00AM	Uni Drive 7:00AM-8:00AM	Quran 7:00AM-8:00AM	Breakfast 7:00AM-8:00AM	Uni Drive 7:00AM-8:00AM
	Study MATH 217 8:00AM-8:30AM	UNIV 220 8:00AM-9:00AM	Study MATH 217 8:00AM-8:30AM	UNIV 220 8:00AM-9:00AM	Family 8:00AM-10:00AM	Uni Drive 8:00AM-9:00AM	UNIV 220 8:00AM-9:00AM
	Study CMPE 462 8:30AM-9:30AM	Study GENG 360 9:00AM-10:00AM	Study CMPE 462 8:30AM-9:30AM	Quran Lesson 9:00AM-10:30AM		HONS 301 9:00AM-12:00PM	QCRI Internship 9:00AM-1:00PM
	CMPE 462 9:30AM-11:00AM	Study CMPE 462 10:00AM-11:00AM	CMPE 462 9:30AM-11:00AM	Home Drive 10:30AM-11:00AM	Breakfast 10:00AM-11:00AM		
	MATH 217 11:00AM-12:30PM	Free 11:00AM-12:00PM	MATH 217 11:00AM-12:30PM	Study UNIV 220 11:00AM-12:00PM	Friday Prayer 11:00AM-1:00PM		
	Free 12:30PM-1:00PM	CMPE 462 12:00PM-2:00PM	Free 12:30PM-1:00PM	Study CMPE 462 12:00PM-2:00PM		Home Drive 12:00PM-12:30PM	
	Study GENG 107 1:00PM-2:00PM		MSDP Weekly Meeting 1:00PM-2:00PM		Study GENG 360 1:00PM-2:00PM	Study HONS 301 12:30PM-2:00PM	MATH 217 1:00PM-2:00PM
	GENG 107 2:00PM-3:30PM	GENG 360 2:00PM-3:30PM	GENG 107 2:00PM-3:30PM	MSDP Work 2:00PM-4:00PM	MSDP Work 2:00PM-4:00PM	Study Catch Up 2:00PM-3:00PM	GENG 360 2:00PM-3:30PM
						Study MATH 217 3:00PM-4:00PM	
	Home Drive 3:30PM-4:00PM	Home Drive 3:30PM-4:00PM	Home Drive 3:30PM-4:00PM				Home Drive 3:30PM-4:00PM
	Lunch 4:00PM-5:00PM	Lunch 4:00PM-5:00PM	Lunch 4:00PM-5:00PM	Lunch 4:00PM-5:00PM	Lunch 4:00PM-5:00PM	Lunch 4:00PM-5:00PM	Lunch 4:00PM-5:00PM
	Free 5:00PM-6:00PM	Free 5:00PM-6:00PM	Free 5:00PM-6:00PM	Free 5:00PM-6:00PM	Free 5:00PM-10:00PM	Exercise 5:00PM-7:00PM	Free 5:00PM-6:00PM
	Study CMPE 462 6:00PM-7:00PM	Study CMPE 462 6:00PM-7:00PM	Study CMPE 462 6:00PM-7:00PM	MSDP Work 6:00PM-10:00PM			Study MATH 217 6:00PM-7:00PM
	Study GENG 107 7:00PM-8:00PM	Study GENG 107 7:00PM-8:00PM	Study GENG 107 7:00PM-8:00PM			Free 7:00PM-10:00PM	Study GENG 360 7:00PM-9:00PM
	Study MATH 217 8:00PM-9:00PM	Study GENG 360 8:00PM-10:00PM	Study MATH 217 8:00PM-9:00PM				
	MSDP Work 9:00PM-10:00PM		MSDP Work 9:00PM-10:00PM				Study CMPE 462 9:00PM-10:00PM
	Sleep 10:00PM-12:00AM	Sleep 10:00PM-12:00AM	Sleep 10:00PM-12:00AM	Sleep 10:00PM-12:00AM	Sleep 10:00PM-12:00AM	Sleep 10:00PM-12:00AM	Sleep 10:00PM-12:00AM