UNIVERSITY OF ESWATINI MAIN EXAMINATION, FIRST SEMESTER DECEMBER 2018

FACULTY OF SCIENCE AND ENGINEERING

DEPARTMENT OF ELECTRICAL AND ELECTRONIC ENGINEERING

TITLE OF PAPER: PROFESSIONAL PRACTICE

COURSE CODE: EE411 / EEE 4\1

TIME ALLOWED: THREE HOURS

INSTRUCTIONS:

- 1. There are SIX questions in this paper. Answer any FIVE questions. Each question carries 20 marks.
- 2. If you think not enough data has been given in any question you may assume any reasonable values.

THIS PAPER SHOULD NOT BE OPENED UNTIL PERMISSION HAS BEEN GIVEN BY THE INVIGILATOR

THIS PAPER CONTAINS SEVEN (7) PAGES INCLUDING THIS PAGE

Question 1(20 marks)

a)	What is globalisation?	(4)
b)	What developments have fuelled the globalisation phenomenon?	(6)
c)	Name any ten globalisation services you can think of.	(4)
d)	Do you think the Kingdom of Eswatini should be part of the Global Village and why?	(3)
e)	What are the benefits of globalisation for Engineers?	(3)

Question 2 (20 marks)

- a) Why should Engineers be familiar with legal issues in the environment they operate? (10)
- b) In most countries exists an "Engineering Council", which is established by an Act of Parliament. What is the purpose for such an establishment?

 (6)
- c) Why do we need codes and standards in the Engineering profession?(4)

Question 3 (20 marks)

- a) What is the Intellectual Property (IP) and what are the two main branches it comprises of? (5)
- b) We have the following key forms of intellectual property: a patent, a copy right a trade secret geographic indications and a trade mark.

 Define each and indicate its importance to an engineer. (10)
- c) Name three organisations responsible for Intellectual Property issues and indicate where they are based (5)

Question 4(20 marks)

a) How would you define a Contract? (4)
b) What makes an agreement a Contract? (4)
c) What does Contract Enforcement entail? (4)
d) A supply contract has some basic terms and conditions. List at least eight (8) of these terms and conditions. (8)

Question 5 (20 marks)

- a) What is the difference between morals and ethics? (5)
- b) Do you think engineers need to know about ethics? (5)
- c) What is a code of Ethics and why do you think most organisations have developed codes of Ethics? (5)
- d) Who does an engineer interact with in his daily life or work place? (5)

Question 6 (20 marks)

- a) What is the importance of Health and Safety in a work place? (4)
- b) Name five causes of accidents in factories? (5)
- c) What can be done to minimise or prevent these accidents? (5)
- d) Who are the key stakeholders in the Health and Safety activity and what are their respective roles? (6)