1. **Appendix A:Standerds and constraint**

CODE	Communications
181	IEEE standard on Transitions, Pulses, and Related Waveforms
194	IEEE standard pulse Terms and Definitions
211	IEEE standard Definitions of Terms for Radio Wave Propagation
1394	Communications and isynchronous real- time data transfer.

CODE	Components, Circuits , Devices and Systems
200	IEEE standard Reference Designations for Electrical and Electronics parts and Equipment
255	IEEE standard Letter Symbols Semiconductor Devices
1118.1-1990	IEEE standard for Microcontroller System Serial Control Bus
30	AIEE Definitions and General Standards for Wires and Cables.
33	AIEE standard – Electrical Measuring Instruments
162	IEEE standard Definitions of Terms for Electronic Digital Computers .
108	IEEE Proposed Recommended Guide for Specifications of Electronic Voltmeters

CODE	Health and Safety
C2-2017	IEEE standard Reference Designations for Electrical and Electronics Parts and Equipments

Time: Important constraint was the time. Through continuous meeting, the project FPGA-based edge computation was decided. It took at least three to four months to design and develop FPGA-based edge computation for specific purpose application which is Encryption and Decryption letters and numbers.

- For the project: The Software implementation of FPGA-based edge computation was finished within three months. The programming part took much time and then it was tested and troubleshooted.
- Teamwork: We have spitted the task among us and managed it to complete in time.
- Ethics: We have maintained the ethics throughout the project.

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A Sample Checklist for Minimum Requirements

Supervisor Name		Dr. Abdulilah Mohammed Mayet
Project Title		FPGA based Edge Computation
Student Names (s)		Saad Mohammed Al-Taza Alshahrani (439800772) Faisal Madawi Saeed Alqahtani (439800806) Fouad Ali Fouad Mostafa Gomaa (438813941)

ITEM*		IMPLEMENTED		
		Yes	No	Indicate page(s) in the report for yes, cite reason(s) for no**
Real life problem		✓		Page1
Advisory committee	One from industry			Examiners: Dr.Hassen Loukil
	From other specializations			Dr. Muneer Mohammed
Situation description		✓		Page 2
Problem definition		✓		Page 1
Open-ended		✓		
Alternative solutions		✓		Page 3-5
Aesthetics		✓		Page
Specifications and regulations		✓		Page 7-9
Statistics and reliability		✓		Page
Teamwork		✓		Page 37
Professional ethics		✓		Page 1
Environmental impact statement		✓		Page 4
Cultural and social assessment		✓		Page 5
Financial analysis and marketing			✓	No application
Final product		✓		Used Quartus II software and create new codes

(*) See Appendix A for definitions

(**) Student(s): Indicate page(s) in the report for yes, cite reason(s) for no

Supervisor(s):Verify page(s) in the report for yes and reason(s) for no

Examiner(s):Verify reason(s) for yes or no