Name	NTRUP Post Quantum Cryptography
Date	09/11/2019
Student	Smeallie. Aran
Admin	Meeting Times: Every two weeks at 9am on Wednesday
	2. Meeting scheduling. Email me at crypjt@gmail.com at the start of the week if you want to meet.
	3. Write up in LaTeX
	4. Keep a glossary and bibliography from the start
	5. Diary of what you did. Especially what didn't work.
	 6. Project deadline March 20th 2020. 7. PLEASE NOTE: The last meaningful feedback on your thesis will be given one week before the ORIGINAL project deadline. You should submit any drafts before this date.
	8. Project Credits
	15
Work plan	Main Idea:
	Post-quantum Crypto
	To understand and implement the NTRU algorithm
	Ten to investigate the post Quantum proposal
	Fundamentals:
	 Work through the papers below and get a handle on Why RSA is vulnerable to a Quantum Computer What the PQC competition is about The idea of NTRU and how it differs from RSA What makes it PQ resistant Produce a Java prototype of NTRU Produce a Java prototype of the NTRU KEM

FIRST meeting document

	Describe and explain them in your write up. Implement (Paying attention to Extras below) them in Python/Java and gather some data. (Including the inevitable problems that arise) Present your results.
References	 Stinson – Cryptography NTRU system Post Quantum Cryptography ISBN 978-3-540-88701-0 https://nvlpubs.nist.gov/nistpubs/ir/2016/NIST.IR.8105.pdf
	 https://pqcrypto.org/ https://csrc.nist.gov/projects/post-quantum- cryptography/round-1-submissions
Current Action	1.
points.	
	2.
	3.
	4.