

Cryptography week plan

Morning session: 8:30am-12:00pm

Afternoon session: 1-4:30pm

Monday Classroom HW	History of Cryptography: Section 1 Modular arithmetics (addition, multiplication, power, function): Sections 2 Complete examples and exercises up to the end of Section 2	1hr 2h30	presentation, class class, group work
Tuesday Computer lab HW	HW discussion Python introduction, script writing Cracking a substitution cipher via frequency analysis with Python Number theory (gcd, prime, little Fermat's thm) : Section 3 Finish Python scripts and exercises in Section 3	15 min 30 min 2hr 45min	class class class, group work class
Wednesday Classroom HW	Euclidean Algorithm: Section 4 Public Key Cryptography: Section 5 Math info session Discuss: How secure are our transactions (see the news)	1h30 1h 1h	class, group work class Angie
Thursday Computer lab HW	Public Key Cryptography and RSA discussion Exchange encrypted and signed message with another group in Python Finish the exchange of messages	30 min 3hrs	class group work
Friday Computer lab	ACCESS coins - a version of bitcoins ACCESS coins market with Python: buy, mine	45min 2h45	class group work