

Introduction to Cryptology

Michaelmas 2020

Lecturer: Federico Pintore (federico.pintore@maths.ox.ac.uk)

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The course consists of 16 pre-recorded 1-hour lectures and 6 in-person 1-hour classes.

LECTURES

Due to the current situation, lectures have been recorded and will be available online.

Each lecture is divided into chunks (usually three). The lectures that would normally be delivered in week n will be published, together with the slides, by the end of week $n-1$.

The lecturer will be available to take students' questions via MS Teams from 2pm to 3pm (UK time) on Wednesdays of weeks 2, 4, 6 and 8. Please contact the lecturer via email beforehand to book a slot.

The main reference for the course is Katz and Lindell's book "Introduction to Modern Cryptography", Chapman & Hall/CRC editor.

CLASSES

Each class covers a worksheet that students will solve and hand in before each class. A detailed schedule of the classes and deadlines to hand in the worksheets can be found below.

Students are also strongly encouraged to write every other week a short summary (approximately 500 words) of one of the research papers suggested in the "Further Reading" section included in the slides of each lecture.

Worksheets and Summaries

To hand in worksheets/summaries, use the Virtual Pigeonhole Link:

<https://cloud.maths.ox.ac.uk/index.php/s/nCkAfKbRDEqEiAj>

Week 2: Class 1

When and where: Friday, 23rd October 2020, from 11.00 to 12.00, Microsoft Teams

Hand in: Worksheet-0 & First Summary

Hand in by: Tuesday, 20th October 2020

Week 3: Class 2

When and where: Friday, 30th October 2020, from 11.00 to 12.00, Microsoft Teams

Hand in: Worksheet-1

Hand in by: Tuesday, 27th October 2020

Week 4: Class 3

When and where: Friday, 6th November 2020, from 11.00 to 12.00, Microsoft Teams

Hand in: Worksheet-2 & Second Summary

Hand in by: Tuesday, 3rd November 2020

Week 5: Class 4

When and where: Friday, 13th November 2020, from 11.00 to 12.00, Microsoft Teams

Hand in: Worksheet-3

Hand in by: Tuesday, 10th November 2020

Week 6: Class 5

When and where: Friday, 20th November 2020, from 11.00 to 12.00, Microsoft Teams

Hand in: Third Summary

Hand in by: Tuesday, 17th November 2020

Week 7: Class 6

When and where: Friday, 27th November 2020, from 11.00 to 12.00, Microsoft Teams

Hand in: Worksheet-4

Hand in by: Tuesday, 24th November 2020

Week 8: (no class)

Hand in: Fourth Summary

Hand in by: Tuesday, 1st December 2020