

Work Plan - Remote Emergency Activities - 2020/2

Code	DCC831PG9
Subject	Cybersecurity
Class	
Professor	Leonardo Barbosa e Oliveira

Syllabus. Variable, focusing on topics in Computer Science

Program

#	Date	Content	Modality	Interaction
1		Introduction	Live	e-Meeting
2	30/11/2020 (seg)	Applied Crypto Principles	Video	Moodle
3	02/12/2020 (qua)	Applied Crypto Principles	Video	Moodle
4	07/12/2020 (seg)	Applied Crypto Principles	Exercise	Moodle
5	09/12/2020 (qua)	Vulnerability Identification	Live	e-Meeting
6	14/12/2020 (seg)	Vulnerability Identification	Video	Moodle
7	16/12/2020 (qua)	Vulnerability Identification	Live	e-Meeting
8	04/01/2021 (seg)	Vulnerability Identification	Video	Moodle
9	06/01/2021 (qua)	Project proposal	Live	e-Meeting
10	11/01/2021 (seg)	Project proposal	Live	e-Meeting
11	13/01/2021 (qua)	Exam 1	Live	Evaluation
12	18/01/2021 (seg)	Software Security Principles	Video	Moodle
13	20/01/2021 (qua)	Software Security Principles	Video	Moodle
14	25/01/2021 (seg)	Software Security Principles	Exercise	Moodle
15	27/01/2021 (qua)	Vulnerability Classification	Live	e-Meeting
16	01/02/2021 (seg)	Vulnerability Classification	Video	Moodle
17	03/02/2021	Vulnerability Classification	Live	e-Meeting

	(qua)			
18	08/02/2021 (seg)	Vulnerability Classification	Video	Moodle
19	10/02/2021 (qua)	Project update	Live	e-Meeting
20	22/02/2021 (seg)	Project update	Live	e-Meeting
21	24/02/2021 (qua)	Exam 2	Live	Evaluation
22	01/03/2021 (seg)	Network Security Principles	Video	Moodle
23	03/03/2021 (qua)	Network Security Principles	Video	Moodle
24	08/03/2021 (seg)	Network Security Principles	Exercise	Moodle
25	10/03/2021 (qua)	Project deliverable	Live	e-Meeting
26	15/03/2021 (seg)	Project deliverable	Live	e-Meeting
27	16/03/2021 (qua)	Project deliverable	Live	e-Meeting
28	22/03/2021 (seg)	Privacy Principles	Live	e-Meeting
29	24/03/2021 (qua)	Exam 3	Live	Evaluation
30	29/03/2021 (seg)	Exam substitute	Live	Evaluation

Bibliography

Chris Anley, John Heasman, Felix Lindner, Gerardo Richarte, The Shellcoder's Handbook: Discovering and Exploiting Security Holes

Niels Ferguson, Bruce Schneier, Tadayoshi Kohno, Cryptography Engineering: Design Principles and Practical Applications

Michael T. Goodrich & Roberto Tamassia, Introduction to Computer Security

Jon Erickson, Hacking The Art of Exploitation

Ross Anderson, Security Engineering

Supporting Material

Virtual Machine
Google Colab

Evaluation

1	Exam 1	10 pts	c.f. schedule
2	Exam 2	10 pts	c.f. schedule
3	Exam 3	10 pts	c.f. schedule
4	Exercises && Participation	30 pts	c.f. schedule
5	Project	40 pts	c.f. schedule