19-Aug	T	T1-introduction to the course	T1-Objectives, program, evaluation, rules, etc.						
26-Aug	T	How-to-give-a-talk + T2-Introduction to Fog Computing	slides (12) + slides (80)						
27-Ago	L	L1-Tutorial	slides (21) + tutorial						
02-Sep	T	T3-introduction to Fog Computing	slides (80)						
03-Sep	L	L2-Tutorial	tutorial						
09-Sep	T	NO CLASS							
10-Sep	L	L3-Security - Tutorial	Slides(30) - tutorial	T3-Fog Computing: A New Era of Cloud Computing. Proceedings of the Third International Conference on Computing Methodologies and Communication (ICCMC 2019). IEEE Xplore	Cloud, Fog, and Edge Computing: A Software Engineering Perspective; Amal Al-Qamash, Iten Soliman, Rawan Abulibdeh, Moutaz Saleh; Depar. of Computer Science and Engineering; Qatar University; Int. Conf. on Computer and Applications (ICCA, 2018)	Fabian Tangen-Haakon Heber	Hedda Akselsen-Mathias Hanssen Skarås	Hedda Akselsen-Mathias Hanssen Skarås	Christoffer Hennie - Halvor Kirkhus
16-Sep	T	NO CLASS							
17-Sep	L	L4-Presentation of the project specification	specification of the individual mandatory project given to students						
		Deadline to deliver the mandatory individual assingment is 24 Sep at 14h15							
23-Sep	T	T6 - Replication	slides (96)	Security and Privacy in Fog Computing: Challenges. MITHUN MUKHERJEE, (Member, IEEE), RAKESH MATAM, (Member, IEEE), LEI SHU, (Senior Member, IEEE), LEANDROS MAGLARAS, (Senior Member, IEEE), MOHAMED AMINE FERRAG, NIKUMANI CHOUDHURY, (Student Member, IEEE), AND VIKAS KUMAR, (Member, IEEE). 2169-3536 2017 IEEE. Digital Object Identifier 10.1109/ACCESS.2017.2749422	T5-Overview of IoT Security Architecture. Jian Zhang, Hanran Jin, Liangyi Gong. Jing Cao, Zhaojun Gu. In 2019 IEEE Fourth International Conference on Data Science in Cyberspace (DSC).	sirin koca; Herman Gjøvestad	Sinit Yonas Tewelde	Sinit Yonas Tewelde	sirin koca; Herman Gjøvestad
24-Sep	L	L5-Help students	show the individual mandatory project by the students, specification of the group project given to students						
		Deadline to deliver the mandatory individual assingment is 24 Sep at 14h15: specification of group project							
30-Sep	T	T6 - Replication	slides (96)	T6-Fog computing security: a review of current applications and security solutions. Saad Khan, Simon Parkinson and Yongrui Qin. Journal of Cloud Computing: Advances, Systems and Applications (2017) 6:19 DOI 10.1186/s13677-017-0090-3.	A Novel Technique for Well-Optimized Content Replication in Fog Computing. Khushi Joshi, Rohini Sharma. In 2025 3rd International Conference on Disruptive Technologies (ICDT). Greater Noida, India, 2025, pp. 1222-1226, doi: 10.1109/ICDT63985.2025.10986669.	Haakon Heber	Zubeyda Sahal - Rabia Rasul	Zubeyda Sahal - Rabia Rasul	Haakon Heber
01-Oct	L	L6-Help students	help the students with the group project						
07-Oct	T	T7 - Replication	slides (96)	T7-Review of Load Balancing in Fog Computing. Ashish Virendra Chandak, Niranjan Kumar Ray. 2019 International Conference on Information Technology (ICIT).	T9-A Survey of Computation Offloading in Edge Computing. Tao Zheng, Jian Wan, Jilin Zhang, Congfeng Jiang, Gangyong Jia. 2020 IEEE.	Asiyo Abdikafi - Xavier Lee,	Bilal Malik, suban murtaza	Bilal Malik, subhan murtaza	asiyo Abdikafi - Xavier Lee
08-Oct	L	L7-Help students	help the students with the group project						
14-Oct	T	T9 - Load Balancing	slides (115)	A Load Balancing and Routing Strategy in Fog Computing using Deep Reinforcement Learning. Nacer Edine Belkout, Khaled Zaraoulia, Mohamed Nasir Shahzad, Lu Liu, Bo Yuan. Proc. of the Int. Conf. on Electrical, Computer and Energy Technologies (ICECET 2022), Prague-Czech Republic.	A Reliable Client Detection System during Load Balancing for Multi-tenant Cloud Environment. Ashutosh Kumar Singh · Sakshi Chhabra · Rishabh Gupta · Deepika Saxena	Oscar H Roostami, Magnus Grønmo	Peder August Hasseleng; Maha Ishtiaq Javed (video)	Peder August Hasseleng; Maha Ishtiaq Javed (she is not going to be in the lecture)	Oscar H Roostami, Magnus Grønm
15-Oct	L	L8-Help students	help the students with the group project						
21-Oct	T	T9 - Load Balancing (cont)	slides (25+23)	T10-EdgeEmu - Emulator for Android Edge Devices. Lyla Naghipour Vijouyeh, Rodrigo Bruno, Paulo Ferreira. DAIS 2023.	T10-Fogify: A Fog Computing Emulation Framework. Moysis Symeonides, Zacharias Georgiou, Demetris Trihinas, George Pallis, Marios D. Dikaiakos. 2020 IEEE/ACM Symposium in Edge Computing (SEC).	Rasul Uzdijac diseistou: Adrian Lian	Wengeal Abebe, Philip Fleischer	Wengeal Abebe fez 2 questao; Philip Fleischer fez 2 questao;	Rasul Uzdijev, Adrian Lian
22-Oct	L	L9-Help students	help the students with the group project						
28-Oct	T	T9 - Load Balancing (cont)	slides (42)	Contemporary Load Balancing Mechanisms: A Comprehensive Review. Kesava Vamsi Krishna V.; M. Sravanthi; D. V. Acharyulu; G. Vijaya Nirmala; J. Jaganpradeep; G. Revathi. 2023 Second International Conference on Augmented Intelligence and Sustainable Systems (ICAISS), Trichy, India, 2023, pp. 1716-1720,	Load Balancing Algorithms in Fog Computing. Mostafa Haghi Kashani, Department of Computer Engineering, Science and Research Branch, Islamic Azad University, Tehran, Iran Ebrahim Mahdipour, Department of Computer Engineering, Science and Research Branch, Islamic Azad University, Tehran, Iran.in IEEE Transactions on Services Computing, vol.	Danny pham; Mark Kristopher Arambulo Poblete	Noah Stikbakke, Aslak Ytterdahl Bergland	Noah Stikbakke, Aslak Bergland	Danny Pham-Mark Kristopher Arambulo Poblete
29-Oct	L	L10-Help students	help the students with the group project						
04-Nov	T	T10 - Fog Simulators	slides (46)	T12-www.tensorflow.org	T12-TensorFlow: A System for Large-Scale Machine Learning. Martín Abadi et al. Proceedings of OSDI 2016.	Aliza Mudassar - Hiba Nabih	Noor, Aliha Rana	Noor, Aliha Rana	Aliza Mudassar- Hiba Nabih
05-Nov	L	L11-Help students	help the students with the group project						
		Deadline to deliver the group assingment is 6 November (Friday) at 23h59							
11-Nov	T	T11 - Containers	slides (91)	T11-Container-as-a-Service at the Edge: Tradeoff between Energy Efficiency and Service Availability at Fog Nano Data Centers. Kuljeet Kaur, Tanya Dhand, Neeraj Kumar, and Sherali Zeadally. IEEE Wireless Communications. June 2017.	T11-Kubernetes Orchestration of High Availability. Distributed Control Systems. Bjarne Johansson, Mats Ragberger, Thomas Nolte, Alessandro V. Papadopoulos. 2022 IEEE International Conference on Industrial Technology (ICIT).	Prabesh Khatri	Arthur brosseau-Victoria Yoon Kolsing	Arthur brosseau-Victoria Yoon Kolsing	Prabesh Khatri
12-Nov	L	L12-Presentation of the group project done by groups G1, G2, G3, G4, G5, G6, G11 and G8.	each group presents their project						
18-Nov	T	T12-Health Care	slides (90)	HICH: Hierarchical Fog-Assisted Computing Architecture for Healthcare IoT. Iman Azimi et al. ACM Transactions on Embedded Computing Systems, Vol. 16, No. 5s, Article 174. Publication date: September 2017.	Intelligent Control and Security of Fog Resources in Healthcare Systems via a Cognitive Fog Model. MOHAMMED AL-KHAFAJIY et al. ACM Transactions on Internet Technology, Vol. 21, No. 3, Article 54. Publication date: June 2021.	Jonas Skaslien, Lars Andreas Håberg	Thor Oscar; Aladin Kadric Tune	Thor Oscar; Aladin Kadric Tune	Jonas Skaslien, Bilal Malik, Lars Andreas Håberg
19-Nov	L	L13-Presentation of the group project done by groups G7, G9, G10, G11, G12, G13 and G15.	each group presents their project						

25-Nov	T	Extra lecture		Orchestration in Fog Computing: A Comprehensive Survey BRENO COSTA, JOAO BACHIEGA JR., LEONARDO REBOUCAS DE CARVALHO. and ALETEIA P. F. ARAUJO.		Victor Rørslett Uhnger; Henning Osmo Nordhagen			