MM CO2011 Sem251 Plan

Session	Acad. Year Week	Topic	Refs/Notices	Mode of teaching	EXAM CONTENTS	Remakrs
1	35 25/08/2025	Course Introduction + Advanced Proposition+Predicate	Computer Science. 2nd ed., Cambridge University Press. 2001 (Solution manual accompanied). (Sample MCQs:	Onsite		
2	36 1/9/2025	Advanced Logic and Program Verification (cont.)	https://web.archive.org/web/20191027035952/http://www.cs.bham.ac.uk:80/research/projects/lics/tutor/index.html)	Nghỉ lễ		
3	37 8/9/2025	Program Verification	2/ Further reading: Chapter 15 in Ben-Ari, M.,	Onsite		
4	38 15/9/2025	Program Verification (cont.)	Mathematical logic for computer science. Springer 2012.	Onsite		**Quiz 1:** Logic and Program verification Open: 10:00 23/09/25 **Deadline: 23:59 28/09/25**
5	39 22/9/2025	Program verification (cont.) + Optimization (Simplex and B&B method)	"1/ Chapters 1-5 in Matousek et al. Understanding and using linear programming, Springer, 2007 2/ Chapters 1-4 in R.J. Vanderbei, Linear programming, 3rd edition, Springer 2001. 3/ Chapters I2 in G.L. Nemhauser, L. A. Wolsey, Integer and Combinatorial Optimization, 2nd ed., Wiley, 1999. 4/ Chapters 1-4 in Boyd, Stephen, Stephen P. Boyd, and Lieven Vandenberghe. Convex optimization. Cambridge University 5/ Chapters 7 in F.R. Giordano, W.P. Fox & S.B. Horton, A First Course in Mathematical Modeling, 5th ed., Cengage Press, 2004."	Onsite	**MIDTERM TEST CONTENTS**	
6	40 29/9/2025	Optimization (Simplex)		Onsite		
7	41 6/10/2025	Optimization (B&B method)		Onsite		Quiz 2: LP and ILP **Open: 10:00 07/10/25 Deadline: 23:59 12/10/25**
8	42 13/10/2025	Midterm Review		Onsite		
		MIDTERM (Counted 40% for the final grade: 80% of test + 20% Quiz MCQ on Advanced Logic, Program Verification, Optimization. , A4 paper				
9	44 27/10/2025	Automata + Assignment Discussion [Assignment Counted 20% for the final grade, teamwork of 3-5 members, Topic: "PetriNet"]	1/ Chapters 1-4 in P. Linz, An Introduction to Formal Languages and Automata, Jones & Bartlett Learning; 5th ed., 2011.	Blended learning (nghỉ, tự học ở nhà)		Release Assmt!!!

					FINAL EXAM CONTENTS	
10	3/11/2025	Automata + Assmt Discussion	2/ Further reading: JE Hopcroft, R. Motwani & J.D. Ullamn, Introduction to Automata Theory, Languages, and Computation, 3rd ed., Prentice Hall, 2006. (Vietnamse translation is available, Trần Đức Quang - Lý Thuyết Automat Và Ngôn Ngữ Hình Thức, NXB ĐHQG TP HCM 2002)	**Onsite, HỌC BÙ T7 (1/11/25), ca 1(7h-9h), ca 2 (9h-11h), ca 3 (12h:14h) Phòng H6-311 Nghỉ 3/11/25**		
11	10/11/2025	Automata + Assmt Discussion	3/ Chapter 2,3 in John Martin, Introduction to Languages and The Theory of Computation	**Onsite, HỌC BÙ T7 (8/11/25), ca 1(7h-9h), ca 2 (9h-11h), ca 3 (12h:14h) Phòng H6-308 Nghỉ 10/11/25**		Quiz 3: Automata
12	17/11/2025	Dynamical Systems + Assmt Discussion		Blended learning (nghỉ, tự học ở nhà)		
13	24/11/2025	Dynamical Systems + Assmt Discussion	*Chapters 1, 11, 12 in F.R. Giordano, W.P. Fox & S.B. Horton, A First Course in Mathematical Modeling, 5th ed., Cengage Press, 2004.*	Onsite		
14	1/12/2025	Dynamical Systems + Assmt Discussion		Onsite		Quiz 4: Dynamical systems Open: 10:00 02/12/25 **Deadline: 23:59 07/12/2025**
15	8/12/2025	**Final Review + Assmt Discussion**		Online		

FINAL (Counted 40% for the final grade: 80% of test + 20% Quiz
MCQs on Automata, Dynamical Systems, and the Assignment Contents.

- References listed above and some old exam papers are available at https://drive.google.com/drive/folders/1yIVOA-pmmYezDS444Pk5SW4Nx9y9a78c?usp=sharing.

- Weekly slides and HWs will be uploaded to the BKeL site for all classes by your instructors.