

VIETNAM NATIONAL UNIVERSITY HO CHI MINH CITY
HO CHI MINH UNIVERSITY OF TECHNOLOGY
FACULTY OF COMPUTER SCIENCE AND ENGINEERING



MATHEMATICAL MODELING (CO2011)

Assignment

Symbolic and Algebraic Reasoning in Petri Nets

Instructor: Dr. Van-Giang Trinh

STT	Full name	Students ID	Class
1	Lưu Nguyễn Thanh Bình	2310927	L02
2	Trần Hoàng Bá Huy	2311249	L01
3	Xà Gia Khánh	2311543	L04
4	Đoàn Duy Khanh	2311488	L04
5	Dương Khôi Nguyên	2312333	L04

Ho Chi Minh City, 12/2025

Members and Workload

STT	Full name	Students ID	Task	Class
1	Lưu Nguyễn Thanh Bình	2310927	Implement the 1 st task and 2 nd task: <i>Reading Petri nets from PNML files and Explicit computation of reachable markings</i>	L02
2	Trần Hoàng Bá Huy	2311249	Implement the 3 rd task: <i>Symbolic computation of reachable markings by using BDD</i>	L01
3	Xà Gia Khánh	2311543	Implement the 4 th task: <i>Deadlock detection by using ILP and BDD</i>	L04
4	Đoàn Duy Khanh	2311488	Implement the 5 th task: <i>Optimization over reachable markings</i>	L04
5	Dương Khôi Nguyên	2312333	Conceptualize the structure; writing, editing, formatting the final report and incorporating all co-author feedback and data inputs	L04



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