

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



## MATHEMATICAL MODELING (CO2011)

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*Assignment*  
**Symbolic and Algebraic Reasoning in Petri Nets**

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



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