

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



## MATHEMATICAL MODELING (CO2011)

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Assignment (Semester: 231, Duration: 06 weeks)

# "Stochastic Programming and Applications"

(Version 0.1, in Preparation)

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## 1 Member list & Workload

No.	Fullname	Student ID	Problems	Percentage of work
1	Trần Đình Đăng Khoa	2211649	- Relation & Counting: 1, 2, 3 Bonus: 1, 2, 3. - Probability: 1, 2, 3.	30%
2	Trần Đăng Hiển Long	2252449	- Relation & Counting: 4, 5, 6 Bonus: 4, 5, 6. - Graph: 1, 2, 3, Bonus: 1, 2, 3.	20%
3	Nguyễn Hồ Phi Ứng	2252897	- Relation & Counting: 7, 8, 9 Bonus: 7, 8, 9. - Probability: 4, 5, 6.	20%
4	Nguyễn Hồ Đức An	2252009	- Relation & Counting: 10, 11, 12 Bonus: 10, 11, 12. - Graph: 4, 5, 6, Bonus: 4, 5, 6.	20%
5	Vũ Minh Quân	2212828	- Relation & Counting: 13, 14, 15 Bonus: 13, 14, 15. - Probability: 7, 8, 9.	10%

## 2 Introduction to Stochastic Programming and Optimization

### 2.1 Programming? What is Stochastic Programming? Uncertainty?

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### 2.2 Basic concepts, assumptions - Motivation

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### 2.3 Bonus exercises

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## 3 Probabilty

### 3.1 Problem 1

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### 3.2 Problem 2

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### 3.3 Bonus exercises

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## 4 Graph

### 4.1 Problem 1

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### 4.2 Problem 2

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### 4.3 Bonus exercises

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## References

[1] ...

[2] ...