

Engineering Ethics

[BAE707]

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Outlines

- About your trainer
- Lecture No/Topic
- Textbooks
- Assessment Types & Methods



Prof (Dr) Sam Man Keong

Academic:

BE(Civil)(Hons)(MelbU), MSc(Civil)(NUS),
MSc(Geot Eng)(NTU), EdD(WMSU),
GradDip(App Stat (RMIT), GDSTT(CIAE)

Professional:

CEng, FIET, MICE, MCIOB, FCQI, CQP,
FCABE, CBuildE, CEnv, CMath, MIMA,
CSsci, FSPE, PEng(Int), FSIB, FSIET(F).

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Lecture No/Topic		
No	Topic	Reference(*)
1	Human Values	Chapter 1 (*)
2	Engineering Ethics	Chapter 2 (*)
3	Engineering as Social Experimentation	Chapter 3 (*)
4	Safety, Responsibilities and Rights	Chapter 4 (*)
5	Global Issues	Chapter 5 (*)
*Essential Textbook: Professional Ethics and Human Values by R. S. Naagarazan		

Textbooks

- 1 Naagarazan, R.S. (2006). **Professional Ethics and Human Values**. Published by New Age International. [Website: www.newagepublishers.com]
- 2 Harris, C.E., Pritchard, M.S., and Rabins, M.J. (2009). **Engineering Ethics: Concepts and Cases**. Published by Wadworth Cengage Learning. 4th edition (2009)
- 3 Fleddermann, C.R. (2012). **Engineering Ethics**. Published by Prentice Hall. 4th edition (2012)

1 = Essential Textbook

2, 3 = Additional Reading

Assessment Types & Methods :

Option A – 100% Course works

5 Reports [20 Marks per Report]

1	Human Values
2	Engineering Ethics
3	Engineering as Social Experimentation
4	Safety, Responsibilities and Rights
5	Global Issues

Suggested Format for Report (6-8 pages)

1	Introduction: History; Definitions [1 page][2 Marks]
2	Background: Problems/Issues* [2 – 4 pages][8 Marks]
3	Discussion: Review/Code of Ethics/Findings* [1 page][4 Marks]
4	Conclusion [1 page][4 Marks]
5	*List of References [1 page][2 Marks]

Assessment Types & Methods : Option B – online Exam

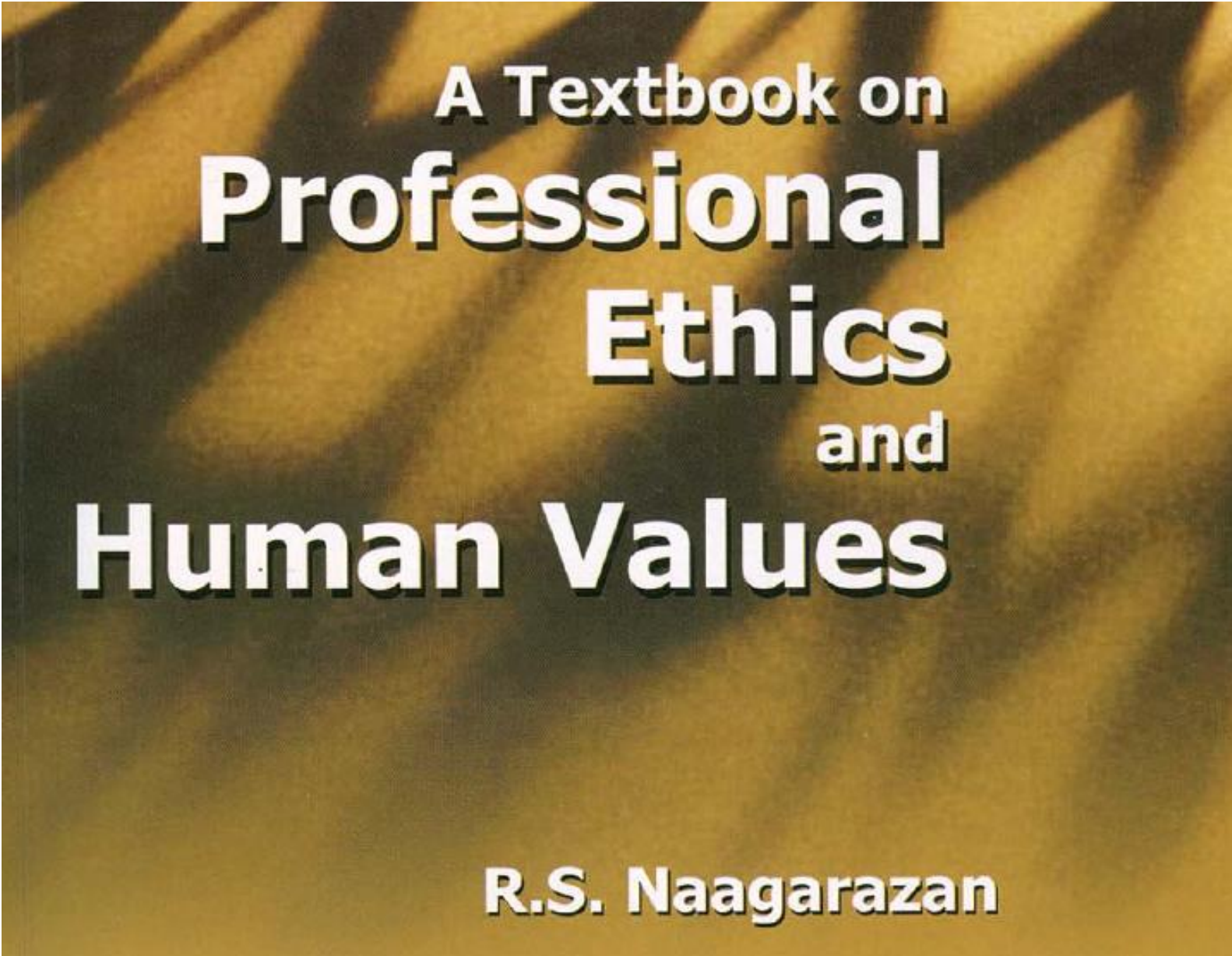
Duration :3 hours

Section A	20 MCQs (2 Marks each)
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Section B	2 Case Studies (30 marks each)
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Total Marks: 100

Suggested Pass Mark : Above 80



A Textbook on
Professional
Ethics
and
Human Values

R.S. Naagarazan



Engineering Ethics

CONCEPTS
& CASES

Charles E. Harris, Jr. • Michael S. Pritchard • Michael J. Rabins



Engineering

Ethics

Charles B. Fleddermann

Fourth Edition