RECOMMENDED TEXTBOOKS AND REFERENCES
MSE FIRST YEAR
ACADEMIC YEAR 2016-2017

MS1013  MATERIALS CHEMISTRY I

Textbook

MS1015  MATERIALS SCIENCE

Textbook

Reference

MS1016  THERMODYNAMICS OF MATERIALS

Textbook

Reference
RECOMMENDED TEXTBOOKS AND REFERENCES
MSE SECOND YEAR
ACADEMIC YEAR 2016-2017

MS2012 INTRODUCTION TO MANUFACTURING PROCESSES

Textbook


MS2013 POLYMERS AND COMPOSITES

Textbook/Reference


MS2014 MATERIALS STRUCTURE AND DEFECTS

Reference


Special topics:


MS2015  MECHANICAL BEHAVIOUR OF MATERIALS

Textbook


MS2016  PHASE TRANSFORMATION AND KINETICS

Textbook


Reference


Textbook


Reference


RECOMMENDED TEXTBOOKS AND REFERENCES
MSE THIRD YEAR
ACADEMIC YEAR 2016-2017

MS3011 METALLIC AND CERAMIC MATERIALS

Textbook/Reference


MS3012 MICRO/NANOELECTRONIC MATERIALS PROCESSING

Textbook


Reference


**MS3013** \( \text{ENVIRONMENTAL EFFECTS ON MATERIALS} \)

**Textbook/Reference**


**MS3014** \( \text{ANALYSIS OF MATERIALS} \)

**Reference**


MS3015 MATERIALS ASPECTS IN DESIGN

Textbook/Reference


RECOMMENDED TEXTBOOKS AND REFERENCES
MSE FOURTH YEAR
ACADEMIC YEAR 2016-2017

MS0002                     ENGINEERS AND SOCIETY

Reference


National Archives (Singapore), *10 Years That Shaped a Nation: An Exhibition Catalogue = Jian Guo Shi Nian : Zhan Lan Tu Ji*, National Archives of Singapore, 2008 (DS610.7.Y39)


Websites


MS4012                     QUALITY CONTROL

Textbook

Reference


MS4013 BIOMATERIALS

Textbook/Reference


MS4014 NANOMATERIALS: FUNDAMENTALS AND APPLICATIONS

Textbook/Reference


RECOMMENDED TEXTBOOKS AND REFERENCES  
MSE YEAR 4 PRESCRIBED ELECTIVES  
ACADEMIC YEAR 2016-17

**MS4601**  
PRINCIPLES OF SEMICONDUCTOR DEVICES  

**Textbook**


(TK7871.85.S997P 2007, E-Book)

(TK7871.85.A545F)

**Reference**

(TK7871.85.S915 2006)

(QC611.P239)


**MS4610**  
ADVANCED BIOMATERIALS  

**Textbook/Reference**

(Call no: R857.T279)


MS4620 POLYMER TECHNOLOGY

Textbook


Reference


MS4631 CORROSION ENGINEERING

Textbook


Reference


Metals Handbook, Volume 17: Nondestructive Evaluation and Quality Control, ASM International


Textbook


Reference Book Chapter


Textbooks/References

Cao Guozhong, *Nanostructures and Nanomaterials -Synthesis, Properties and Applications*, Imperial College Press, 2004

NANYANG TECHNOLOGICAL UNIVERSITY
SCHOOL OF MATERIALS SCIENCE AND ENGINEERING

MS4651 THIN FILM TECHNOLOGY

Textbook

(Call no: TA418.9.T45.S645)


MS4660 FUNDAMENTALS OF INTELLECTUAL PROPERTY IN MATERIALS SCIENCE
AND ENGINEERING

References


