**NANYANG TECHNOLOGICAL UNIVERSITY**

**FIRST YEAR ENGINEERING COURSE**

**Recommended Textbooks and References**

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**Please click here (https://eps.ntu.edu.sg/client/en_GB/OPAC) to search for other Engineering Programmes' recommended textbooks and references.**

## MH1810 MATHEMATICS 1

### TEXTS

1. James Stewart, Calculus, Early Transcendentals, Metric Version, 8 edition, Cengage Learning.
2. George B. Thomas, Jr., Maurice D. Weir and Joel Hass, **Thomas' calculus**, 12th edition, Addison-Wesley, 2010 (QA303.T456 2010).

### REFERENCES

1. Smith RT and Minton RB, **Calculus: Concepts and Connections**, McGraw Hill, 2006.
2. Anton, Howard, *Calculus: early transcendental single variable*, **10th edition**, Wiley, **2012** (QA303.2.A634 2012a) **Consist of chapter 0 to 10 only.**
3. Anton, Howard. , Calculus: multivariable, 9th edition, Wiley, 2009 (QA303.2.A634 2009) - **Consist of chapter 11 to 15 only.**
4. Frank Ayres, Elliott Mendelson, *Schaum's outline of calculus*, **6th edition**, McGraw-Hill, **2012** (ISBN-13: 978-0071795531)

## MH1811 MATHEMATICS 2

### TEXTS

1. Thomas G.B. Jr., Weir M.D. & Hass J., *Thomas' Calculus*, 13th Edition in SI Units, Pearson, 2016.

### REFERENCES

1. James G., *Modern Engineering Mathematics*, 5th Edition, Pearson, 2015
2. Kreysgiz E., *Advanced Engineering Mathematics*, 10th Edition, John Wiley & Sons, 2011

## PH1011 PHYSICS AND PH1012 PHYSICS A

### TEXT

Physics for Scientists and Engineers with modern Physics by Giancoli, 4th Edition – (Pearson).

### REFERENCES

1. R Knight: Physics for Scientists and Engineers: A Strategic Approach with Modern Physics and Mastering Physics, 3rd Edition. (Pearson)

2. R A Serway, J W Jewett Jr, *Physics for Scientists and Engineers*, **9th Edition**, Brooks Cole, **2014** (QC23.S492p 2014)
3. W Bauer and G D Westfall: University Physics with modern Physics. (McGraw Hill)
4. Andrew Rex and Richard Wolfson: Essential College Physics (Pearson)