BLDG 0002 BUILDING CALCULATIONS (WSTC PREP)

Credit Points 10

Legacy Code 700318

Coordinator Robert Paluzzano (https://directory.westernsydney.edu.au/ search/name/Robert Paluzzano/)

Description This subject is designed to assist students to become competent in the field of introductory senior mathematics. It introduces and reinforces mathematical skills in the areas of scale, application of scale, Pythagoras theory, trigonometry, sine and cosine, application of sine and cosine, building volumes, application of building volumes, gradients, application of gradients and thermal flow. Emphasis is placed on developing key competencies in building calculations.

School Western Sydney The College

Discipline Building Science and Technology

Student Contribution Band HECS Band 2 10cp

Check your HECS Band contribution amount via the Fees (https:// www.westernsydney.edu.au/currentstudents/current_students/fees/) page.

Level Undergraduate Level 0 Preparatory subject

Equivalent Subjects MATH 0027 - Scientific Methods in Construction Management

Restrictions

Students must be enrolled at The College in 6031 - Diploma in Building Design Management / Bachelor of Building Design Management, 7136 - Diploma in Building Design Extended, 6045 - Diploma in Construction Technology/Bachelor of Construction Technology or 7165 - Diploma in Construction Technology Extended.

Learning Outcomes

On successful completion of this subject, students should be able to:

- 1. Apply Scale and ratios
- 2. Apply Pythagoras Theory
- 3. Solve Trigonometric Equations
- 4. Apply Sine and Cosine to building calculations
- 5. Apply Building Volumes to building calculations
- 6. Apply Gradients to building calculations
- 7. Develop preliminary knowledge of Thermal Flow

Subject Content

Scale and Ratios Pythagoras theory Trigonometry Sine and Cosine Application of Sine and Cosine Building volumes Application of Building Volumes Gradients Application of Gradients Thermal Flow Scale and Ratios Pythagoras theory Trigonometry Sine and Cosine Application of Sine and Cosine Building volumes Application of Building Volumes Gradients Application of Gradients Thermal Flow

Assessment

The following table summarises the standard assessment tasks for this subject. Please note this is a guide only. Assessment tasks are regularly updated, where there is a difference your Learning Guide takes precedence.

Туре	Length	Percent	Threshold	Individual/ Group Task
Intra-session Exam	1 hour	30	Ν	Individual
Intra-session Exam	1 hour	30	Ν	Individual
Intra-session Exam	90 minutes	30	Ν	Individual
Reflection	5 minutes + 2 minutes question time	10	Ν	Individual

Prescribed Texts

 Breach, M. 2011, Fundamentals Maths for Engineering and Science, Palgrave Macmillan

Teaching Periods

Term 1 (2022) Penrith (Kingswood)

Day

Subject Contact Robert Paluzzano (https:// directory.westernsydney.edu.au/search/name/Robert Paluzzano/)

View timetable (https://classregistration.westernsydney.edu.au/even/ timetable/?subject_code=BLDG0002_22-T1_KW_D#subjects)

Term 2 (2022) Penrith (Kingswood)

Dav

Subject Contact Robert Paluzzano (https:// directory.westernsydney.edu.au/search/name/Robert Paluzzano/)

View timetable (https://classregistration.westernsydney.edu.au/even/ timetable/?subject_code=BLDG0002_22-T2_KW_D#subjects)

Term 1 (2023) Penrith (Kingswood)

On-site

Subject Contact Robert Paluzzano (https:// directory.westernsydney.edu.au/search/name/Robert Paluzzano/)

View timetable (https://classregistration.westernsydney.edu.au/odd/ timetable/?subject_code=BLDG0002_23-T1_KW_1#subjects)

Term 2 (2023) Penrith (Kingswood)

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