

ACE Network Subject Information Guide

Advanced Numerical Analysis

Semester 2, 2021

Administration and contact details

Host Department	Mathematics
Host Institution	University of Newcastle
Name of lecturer	Dr Bishnu Lamichhane
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Subject details

Handbook entry URL	Click here to enter text.
Subject homepage URL	Click here to enter text.
Honours student hand-out URL	Click here to enter text.
Start date:	July 19, 2021
End date:	Oct 29, 2021
Census date:	13 August
Contact hours per week:	2
Lecture day and time:	To be decided later
Description of electronic access arrangements for students (for example, WebCT)	To be decided later I used Dropbox to share the course materials in the past. I will see if there is a better alternative.

Subject content

1. Subject content description

Learning Outcome Descriptors at AQF Level 8

Knowledge

K1: coherent and advanced knowledge of the underlying principles and concepts in one or more disciplines

K2: knowledge of research principles and methods

Skills

S1: cognitive skills to review, analyse, consolidate and synthesise knowledge to identify and provide solutions to complex problem with intellectual independence

S2: cognitive and technical skills to demonstrate a broad understanding of a body of knowledge and theoretical concepts with advanced understanding in some areas

S3: cognitive skills to exercise critical thinking and judgement in developing new understanding

S4: technical skills to design and use in a research project

S5: communication skills to present clear and coherent exposition of knowledge and ideas to a variety of audiences

Application of Knowledge and Skills

A1: with initiative and judgement in professional practice and/or scholarship

A2: to adapt knowledge and skills in diverse contexts

A3: with responsibility and accountability for own learning and practice and in collaboration with others within broad parameters

A4: to plan and execute project work and/or a piece of research and scholarship with some independence

3. Learning resources

R.L. Burden and J.D. Faires, Numerical Analysis, 9th edition, Brooks and Cole

Lecture notes will be provided for the course.

4. Assessment

Exam/assignment/classwork breakdown					
Exam	50 %	Assignment	50%	Class work	Enter 0%
Assignment due dates		Week 5	Week 9	Click here to enter a date.	Click here to enter a date.
Approximate exam date				Monday 8 Nov -- Friday 26 Nov 2021	

Institution Honours program details

Weight of subject in total honours assessment at host department	Click here to enter text.
Thesis/subject split at host department	Click here to enter text.
Honours grade ranges at host department:	
H1	Enter range %
H2a	Enter range %
H2b	Enter range %
H3	Enter range %