



OpenBook Summer Examination 2019/2020

Exam Code(s)	4BMS2, 4BS2, 1AL1
Exam(s)	Fourth Science & Masters Examination
Modules	Geometric Foundations of Data Analysis I
Module Codes	CS4102
Paper	1
External Examiner(s)	Prof. Thomas Brady
Internal Examiner(s)	Prof. Graham Ellis Dr Emil Sköldbberg
<u>Instructions:</u>	Students should attempt ALL FOUR questions. Q1, Q2, Q3 carry 28 marks each. Q4 carries 16 marks.
Duration	2 Hours
No. of Pages	4 (including this page)
Discipline	Mathematics
Requirements:	
Log Tables	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Calculator Optional	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

In submitting this work I confirm that it is entirely my own, and that **any notes/online resources accessed during the exam have been acknowledged**. I acknowledge that I may be invited to online interview if there is any concern in relation to the integrity of my exam, and I am aware that any breach will be subject to the University's Procedures for dealing with breaches of Exam Regulations.

Q1. Attempt **TWO** from (a), (b) and (c).

(a)

(b)

(c)

Q2. Attempt **TWO** from (a), (b) and (c).

(a)

(b)

(c)

Q3. Attempt **TWO** from (a), (b) and (c).

(a)

(b)

(c)

Q4. Attempt **EITHER** (a) **OR** (b).

(a)

(b)