COURSE SPECIFICATION FORM
for new course proposals and course amendments

| Department/School: | Mathematics | Academic Session: | $\mathbf{2 0 2 0 - 2 1}$ |  |
| :--- | :--- | :--- | :--- | :---: |
| Course Title: | Statistical Inference | Course Value: <br> (UG courses $=$ unit value, <br> Pocrousses nontional learning | 200 h |  |
| Course Code: | MT5432 | Course JACS Code: <br> (Please contact Data <br> Management for advice) | G350 |  |
| Availability: <br> (Please state which teaching <br> terss | Term 2 | Status: | Optional <br> Condonable |  |
| Pre-requisites: |  |  |  |  |
| Co-ordinator: | - | Co-requisites: | - |  |
| Course Staff: | - | This module provides the theory underlying the main principles and methods of <br> statistics, and, in particular, an introduction to the theory of estimation and <br> hypothesis testing. |  |  |
| Aims: | On completion of the module, students should be able to demonstrate a familiarity with the <br> theoretical background of the concepts and results in the theory of estimation and <br> hypothesis testing, and formulate statistical problems in mathematical terms; understand <br> and construct mathematical proofs of some of the main theoretical results of mathematical <br> statistics; understand the concepts and results in the asymptotic theory of estimation.. <br> The student should be able to demonstrate a breadth of understanding appropriate for an <br> M-level course. |  |  |  |
| Learning Outcomes: |  |  |  |  |

