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| Faculty | Natural Sciences | | |
| Home Department | Statistics and Population Studies | | |
| Module Topic | Data Mining 1 | | |
| Generic Module Name | Statistics 760 | | |
| Alpha-numeric Code | STA760 | | |
| NQF Level | 8 | | |
| NQF Credit Value | 15 | | |
| Duration | Semester | | |
| Proposed semester to be offered. | Second Semester | | |
| Programmes in which the module will be offered | BSc Hons (Statistical Science) (3737); BSc Hons (Computational Finance) (3739) | | |
| Year level | 7 | | |
| Main Outcomes | <p>On completion of this module students should be able to:</p> <ul style="list-style-type: none"> Design and execute various Data Mining techniques, from extraction of huge data repositories to modeling of the data. <p>Techniques covered would include:</p> <ul style="list-style-type: none"> Decision tree analyses, clustering, visual data analyses, regression and classification. | | |
| Main Content | <ul style="list-style-type: none"> Data management and processing; Statistical inference techniques explored, Classification, association and clustering, post-processing of discovered structures. | | |
| Pre-requisite modules | STA331; STA332 or equivalent | | |
| Co-requisite modules | None | | |
| Prohibited module Combination | None | | |
| Breakdown of Learning Time | Hours | Timetable Requirement per week | Other teaching modes that does not require time-table |
| <i>Contact with lecturer / tutor:</i> | 21 | <i>Lectures p.w.</i> | 3 |
| <i>Assignments & tasks:</i> | 30 | <i>Practicals p.w.</i> | 0 |
| <i>Practicals:</i> | 30 | <i>Tutorials p.w.</i> | 0 |
| <i>Tutorials:</i> | 0 | | |
| <i>Tests & Examinations:</i> | 5 | | |
| <i>Selfstudy:</i> | 60 | | |
| <i>Other:</i> | 4 | | |
| Total Learning Time | 150 | | |
| Methods of Student Assessment | Continuous Assessment (CA): 0% Final Assessment (FA): 100% | | |
| Assessment Module type | Final Assessment (FA) | | |