

| | | | | |
|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---|--------------------------------------------------------------|
| Faculty | Faculty of Natural Sciences | | | |
| Home Department | Statistics and Population Studies | | | |
| Module Topic | Applied Analytics | | | |
| Generic Module Name | Statistics 738 | | | |
| Alpha-numeric Code | STA738 | | | |
| NQF Level | 8 | | | |
| NQF Credit Value | 15 | | | |
| Duration | Semester | | | |
| Proposed semester to be offered | First Semester | | | |
| Programmes in which the module will be offered | BSc Hons (Statistical Science) (3737) | | | |
| Year Level | 1 | | | |
| Main Outcomes | <p>On completion of this module students should be able to:</p> <ul style="list-style-type: none"> • Prepare various data structures for analysis on various cloud enabled platforms; • Apply contemporary statistical analytics and statistical learning techniques using cloud-based platforms; • Apply specialized programming skills needed for cloud analytics; • Use a variety of analytical software packages in the cloud environment. | | | |
| Main Content | <ul style="list-style-type: none"> • Data preparation for analytics in the big data environment will be taught. • Supervised and unsupervised statistical learning techniques will be used in a cloud-based environment. • Various cloud-based platforms will be explored to prepare students for statistical analysis in the big data environment. • Skills will be developed for managing and scheduling analysis processes in the cloud environment. | | | |
| Pre-Requisite Modules | None | | | |
| 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 |
| Contact with lecturer / tutor: | 30 | <i>Lectures p.w.</i> | 3 | |
| Assignments & tasks: | 30 | <i>Practicals p.w.</i> | 2 | |
| Practicals: | 30 | <i>Tutorials p.w.</i> | 0 | |
| Assessment: | 10 | | | |
| Self-study | 50 | | | |
| Other: | 0 | | | |
| Total Learning Time | 150 | | | |
| Methods of Student Assessment | Continuous Assessment (CA): 0% Final Assessment (FA): 100% | | | |
| Assessment Module type | Final Assessment (FA) | | | |