Diploma in Land Surveying - E202 (Under Review)

1. **Aims and Objectives**
   
The objective behind this course is to provide training at technician level to students in the field of Land Surveying. The course content has been structured to give the student a good understanding of the various aspects of the profession.

2. **General Entry Requirements**
   
   As per General Entry Requirements for admission to the University for Undergraduate Diplomas.

3. **Programme Requirements**
   
   Credits in 5 GCE ‘O’ Level subjects including Mathematics and Physics and 2 GCE ‘A’ Level passes in Mathematics and another science subject.

4. **Credits per Semester**: Minimum 3 credits.

5. **Minimum Requirements for the award of the Certificate/Diploma**
   
   Minimum number of credits for the award of Diploma in 64.

   **Note 1: Core Modules**
   Students should satisfy **all core modules** to be eligible for the award of the Diploma.

   **Note 2: Industrial Training**
   The student will be required to undertake a vacation training over a period of 8 weeks, after the Level 1, Semester 2. Industrial training must be completed satisfactorily for the award of the project.

   **Note 3: Diploma project**
   Dissertation/Project work to be carried out in level 2 will have a load equivalent of 6 hours per week.

   **Note 4: Field Work**
   Students will be required to carry out two weeks of field work at the end of Level 1.

   **Note 5: Land Law I & II**
   The Land Law I & II examination papers will be of 3 hours duration and will be taken at end of Levels 1 & 2.

6. **Assessment**
   
   All modules will carry 100 marks and will be assessed as follows (unless otherwise specified):

   Assessment will be based on written examinations of 2-hours duration except where otherwise specified. Continuous assessment carrying up to 40% of total marks will be based on fieldwork, assignments and class tests.
For a student to pass a module, a minimum of 30% should be attained in both Continuous Assessment and Written Examination separately, with an overall total of a minimum of 40% in that module.

There is no level weightage to modules; i.e. each module carries its credit value.

Dissertation will carry a weightage of 6 credits.

7. **Lists of Modules**

**CORE MODULES**

<table>
<thead>
<tr>
<th>Code</th>
<th>Module Name</th>
<th>Hrs/wk</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIVE 1122D</td>
<td>Introduction to IT</td>
<td>3+0</td>
<td>3</td>
</tr>
<tr>
<td>CIVE 1123D</td>
<td>Plane Surveying</td>
<td>3+1</td>
<td>3.5</td>
</tr>
<tr>
<td>CIVE 1125D</td>
<td>Environmental Management</td>
<td>3+0</td>
<td>3</td>
</tr>
<tr>
<td>CIVE 1202D</td>
<td>Mapping</td>
<td>3+0</td>
<td>3</td>
</tr>
<tr>
<td>CIVE 1225D</td>
<td>Data Acquisition</td>
<td>3+0</td>
<td>3</td>
</tr>
<tr>
<td>CIVE 2122D</td>
<td>Engineering Surveying</td>
<td>3+0</td>
<td>3</td>
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<tr>
<td>CIVE 2123D</td>
<td>Physical Planning</td>
<td>3+0</td>
<td>3</td>
</tr>
<tr>
<td>CIVE 2221D</td>
<td>Land Information Management</td>
<td>3+0</td>
<td>3</td>
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<tr>
<td>CIVE 2222D</td>
<td>Geodetic Surveying</td>
<td>3+0</td>
<td>3</td>
</tr>
<tr>
<td>CIVE 2225D</td>
<td>Land Development</td>
<td>3+0</td>
<td>3</td>
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<tr>
<td>CIVE 2030D</td>
<td>Diploma Project</td>
<td>-</td>
<td>6</td>
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<td>CIVE 1220D</td>
<td>Industrial Training</td>
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<td>-</td>
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<tr>
<td>ELEC 1203</td>
<td>Measurement Science</td>
<td>3+1</td>
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<tr>
<td>LAW 1124D</td>
<td>Land Law I</td>
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<tr>
<td>LAW 2224D</td>
<td>Land Law II</td>
<td>6+0</td>
<td>6</td>
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<tr>
<td>MATH 1102D</td>
<td>Mathematics I</td>
<td>3+0</td>
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<tr>
<td>MATH 1203D</td>
<td>Mathematics II</td>
<td>3+0</td>
<td>3</td>
</tr>
<tr>
<td>MATH 2101D</td>
<td>Survey Mathematics</td>
<td>3+0</td>
<td>3</td>
</tr>
<tr>
<td>MGT 1111</td>
<td>Organisation and Management</td>
<td>3+0</td>
<td>3</td>
</tr>
<tr>
<td>PHY 1121</td>
<td>Waves and Optics</td>
<td>3+0</td>
<td>3</td>
</tr>
</tbody>
</table>

8. **Outline Syllabus**

**CIVE 1122D - INTRODUCTION TO IT**

**CIVE 1123D - PLANE SURVEYING**

**CIVE 1125D - ENVIRONMENTAL MANAGEMENT**

**CIVE 1202D - MAPPING**
The concepts of mapping. Data input to mapping (field procedures and practice for detailed survey). Data processing and compilation.

CIVE 1225D - DATA ACQUISITION

CIVE 2122D - ENGINEERING SURVEYING

CIVE 2123D - PHYSICAL PLANNING
The nature and objectives of physical planning. National, regional and local planning. The origins of planning in Mauritius; current planning procedures, the preparation of plans for development and development control. Information requirements for planning. Transportation studies.

CIVE 2221D - LAND INFORMATION MANAGEMENT
LIS/GIS: data importing/format; data processing/handling, dat management, dissemination. The Registry system: Deed system, title register system. Database design, conceptual models. General boundary/fixed boundaries.

CIVE 2222D - GEODETIC SURVEYING

CIVE 2225D - LAND DEVELOPMENT
Land as an economic concept; the operation of the land market. Land use and land values. Principles of valuation. Land reform; its operation and justification. National planning: the cost and implementation. Land use studies; reconciliation of conflicting interests in land use.

CIVE 2030D - DIPLOMA PROJECT

CIVE 1220D - INDUSTRIAL TRAINING

ELEC 1203 - MEASUREMENT SCIENCE

LAW 1124D - LAND LAW I

LAW 2224D - LAND LAW II
The Civil Code and Cognate Legislation: A brief outline of Civil Status, filiation, adoption, ‘Puissance Paternelle’ and guardianship; The law of property movables and immovables, ownership, usufruct, servitudes; Acquisition of property, succession and wills, donations, contract and ‘obligations’, prescription, curatelle, Sales by levy and licitation, partition, Compulsory land acquisition (compensation); Sale, exchange, lease and hire, association, loan deposit, agency, surety, pledge; Tort with particular reference to torts relating to land. Registration and Transaction; Transcription and mortgage, privilege prescription, affidavits of prescription; Registration dues, succession and donation duties, registration of documents, stamp duty, deposit and custody of documents.
MATH 1102D - MATHEMATICS I

MATH 1203D - MATHEMATICS II

MATH 2101D - SURVEY MATHEMATICS

MGT 1111 - ORGANISATION AND MANAGEMENT

PHY 1121 - WAVES & OPTICS