

Diploma in Town and Country Planning (P/T) – E201

1. Introduction

This course aims to provide the necessary skills and knowledge to students who will be involved in planning work. There is a shortage of trained technicians at the level of the local authorities, central government and Rodrigues and there is a need to build capacity. The course is geared primarily for officers already in employment in the above organisations' planning departments but who have no formal training and who need to develop the proper perspective to planning work. The course would also be open to school-leavers and eventually to the wider Indian Ocean region.

2. Specified Aims and Objectives

The aims of the Diploma in Town and Country Planning are:

- To introduce students to the planning framework and system
- Encourage students to explore different perspectives on urban problems, policies and practices
- Provide opportunities for students to learn the way planning decisions impact on real life situations

3. General Entry Requirements

As per General Entry Requirements for admission to the University for Undergraduate Degrees

4. Programme Requirements

2 'A' Levels or equivalent.

Or Credit in 5 GCE 'O' Level subjects + at least **5 years** relevant experience. Preference will be given to applicants having professional experience in the field.

5. Programme Duration:

Minimum (Normal) – 2 years (4 semesters)

Maximum – 4 years (8 semesters)

6. Semester: 15 Weeks duration (excluding Exam Period).

7. Credit System: 15 Hours Lecture and/or Tutorial – 1 credit 30-45 Hours of Laboratory Work – 1 Credit

8. Credits per Semester:

Minimum 3 credits (subject to Regulation 4)

Maximum: 24 credits

9. Minimum Requirements for the Award of the Diploma

Minimum number of credits needed to be awarded the diploma is 60 credits.

Note 1: Core Modules

Students should satisfy **all core modules** to be eligible for the award of the Diploma.

Note 2: Diploma project

Dissertation /Project work to be carried out in level 2 will have a load equivalent of 6 hours per week.

10. Assessment

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

Assessment will be based on a written examination of 2-hour duration and on continuous assessment carrying of **20% to 30%** of total marks.

Continuous assessment will be based on fieldwork, assignments and **should include at least two (2) assignments/ tests per module.**

An overall total of **40%** for combined assessment and written examination components would be required to pass the module, without minimum thresholds within the individual continuous assessment and written examination

11. Classification of Award**Diploma Award**

Diploma with DISTINCTION:	CPA	≥ 70
Diploma at PASS level:	CPA	40 ≤ x < 70

The **CPA** will appear in the transcript.

12. Termination of Registration

Registration will be terminated if CPA remains below 40 % for two registered consecutive Semesters.

13. List of Modules - Diploma in Town and Country Planning

CORE MODULES			HRS/WK	CREDITS
			L+P	
ENGINEERING				
CIVE	1203 D	Building Construction	2+1	2.5
CIVE	1115	Civil Engineering Graphics	2+1	2.5
CIVE	1103D	Planning Tools	3+0	3
CIVE	1102D	Introduction to GIS	3+1	3.5
CIVE	1113	Planning Perspectives	3+0	3
CIVE	1143D	Surveying 1	3+1	3.5
CIVE	1211	Introduction to Environmental Planning	3+0	3
CIVE	1114	Survey techniques	3+0	3
CIVE	3209	Physical Environment	3+0	3
CIVE	1100	Vacation Specialised Training		3
CIVE	2243D	Valuation and Estate Management	3+0	3
CIVE	2207D	Transportation for planners	3+0	3
CIVE	1207D	Architectural Technology	3+0	3
CIVE	2142D	Civil Engineering Management 1	3+0	3
CIVE	2208D	Environmental Management for planners	3+0	3

CIVE	2217	Planning for sustainable development			3+0	3
CIVE	2219	Introduction to urban design			3+0	3
CIVE	2010D	Project				6

LAW AND MANAGEMENT

LAWS	1101	Introduction to Law and legal methods			3+0	3
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14. Programme Plan

YEAR 1

Semester 1

Core Modules

CIVE	1203D	Building Construction	2+1	2.5
CIVE	1115	Civil Engineering	2+1	2.5
		Graphics		
CIVE	1103D	Planning Tools	3+0	3
CIVE	1102D	Introduction to GIS	3+1	3.5
CIVE	1114	Survey Techniques	3+0	3

Semester 2

Core Modules

CIVE	1113	Planning Perspectives	3+0	3
CIVE	1143D	Surveying 1	3+1	3.5
LAW	1101	Introduction to law and legal methods	3+0	3
CIVE	1211	Introduction to Environmental Planning	3+0	3
CIVE	1100	Vacation Specialised Training		3

YEAR 2

Semester 1

Core Modules

CIVE	2243D	Valuation and Estate Management	3+0	3
CIVE	2207D	Transportation for planners	3+0	3
CIVE	3209	Physical Geography	3+0	3
CIVE	1207D	Architectural technology	3+0	3
CIVE	2010D	Project		

Semester 2

Core Modules

CIVE	2142D	Civil Engineering Mgt 1	3+0	3
CIVE	2208D	Environmental Management for planners	3+0	3
CIVE	2217	Planning for sustainable development	3+0	3
CIVE	2219	Introduction to urban design	3+0	3
CIVE	2010D	Project		6

15. Outline Syllabus

CIVE 1103D - PLANNING TOOLS (L – 3.0)

An overview of the existing planning tools in Mauritius and their importance; the existing guidelines (specially National Development Strategy Plan, Outline schemes, Detailed Schemes), and the procedures for their implementation and enforcement.

Critical assessment of the existing framework.

CIVE 1203D - BUILDING CONSTRUCTION (L/P – 2.5)

Building codes and health and safety regulations; legislation relevant to building; Types of structures and structural elements. Site preparation and layout: methods and steps in site preparation. Building construction drawing (layout, structural, sections, plans, elevation)

CIVE 1115 - CIVIL ENGINEERING GRAPHICS (L/P – 2.5)

Computer aided drafting in engineering; Introduction to Autocad; Manipulating of CAD drawing; Basic drawing and editing command; Precision drawing and making changes in drawing; Advanced Editing commands; Annotating drawing and working effectively with Autocad; Drawing setup and CAD utilities.

CIVE 1143D - SURVEYING 1 (L/P – 3.5)

Surveying Principles; Types of surveys; Surveying Instruments; Errors, accuracy and precision. Linear measurement; Levelling;. Angles and directions. Traverse Surveying; Topographical Surveying; Electronic Surveying Measurement. Introduction to photogrammetry.

LAW 1101 - INTRODUCTION TO LAW AND LEGAL METHODS (L – 3.0)

Law and other social sciences. Sources of law. Distinction between public and private law. Criminal and civil law. Role of law. Common law and civil law systems. Case law techniques. Statutory interpretations. The importance of legislation in the Town and Country Planning with relevant cases

CIVE 1211 - INTRODUCTION TO ENVIRONMENTAL PLANNING

Basic principles of environmental planning; the role of environmental movement in the development of environmental planning; the relationship between planning and management in the context of the environment; Conflicts between the demands of development and economic growth and the need to maintain a healthy environment

CIVE 1114 - DATA COLLECTION AND SURVEY ANALYSIS (L – 3.0)

Methods of data collection; Types of surveys and Survey techniques; Collection of primary data, Collection of secondary data. Steps in survey design; Selection of a sample; Questionnaire design; collection of data through questionnaires; Survey analysis.

Sampling fundamentals; need for sampling.

CIVE 1100 - VACATION SPECIALISED STUDY

The specialised study carried out during vacation over a period of 8 weeks should cover topics which may not be adequately covered or which may be desirable in addition to the formal modules such as:

- ◆ Construction and Urban Design
- ◆ Plan-making Processes
- ◆ Implementation and Resources

CIVE 2243D - VALUATION AND ESTATE MANAGEMENT (L - 3.0)

Principles of valuation and real estate management; Land use and criteria for land management and assessment; land use and land management studies; Land values and methods to assess land values; valuation rating and taxation; valuation analysis; legislation relevant to valuation and estate management

CIVE 1207D - ARCHITECTURAL TECHNOLOGY (L - 3.0)

Introduction to architecture; Role of architect in Construction Industry; Main stakeholders in construction industry; Legislation and guidelines relevant to architecture Architectural drawing and computer aided drafting in architecture; Architectural procedures and contracts. Traditional and green buildings

CIVE 2142D - CIVIL ENGINEERING MANAGEMENT 1 (L- 3.0)

Structure of the construction industry: client, consultant, contractor; Feasibility studies; Planning and programming. Estimating and tendering. Principles of Contract procurement. Civil engineering and building Quantities. Specifications. Site management: during whole project (materials and finishes)

CIVE 1102D - INTRODUCTION TO GIS (L/P – 3.0)

Fundamental concepts of GIS: Data structures; geographical and attribute plan; digital map creation and geo-referencing; Spatial Referencing. GIS database creations: points, lines, and polygons. GIS database attributes: tables, figures and maps. Simple GIS analysis: distance, area, overlay. Geographic Data Processing and reporting; GIS implementation issues; GIS applications; Case Studies

CIVE 2207D - TRANSPORTATION FOR PLANNERS (L – 3.0)

The theoretical aspects of transport planning; contemporary transport policy; Transportation systems; the impacts of transport systems on the environment; Environmental dimensions of transport planning and management transport modeling; planning for walking, cycling and public transport, and transport and land use integration. Sustainable transport planning
Design of transport infrastructure. Traffic management and control.

CIVE 2208D - ENVIRONMENTAL MANAGEMENT FOR PLANNERS (L – 3.0)

Environment Management in the Industry; ISO 14000; Environment legislation in Mauritius; Environment impact assessments; Preliminary Environmental Reports; The concepts of Plan-Do-Check Act; Environmental Policy; Environmental compliance and monitoring; Environmental auditing; Risk assessment

CIVE 1113 - PLANNING PERSPECTIVES (L – 3.0)

Planning legislation in Mauritius; the impacts of new legislation (for example the Business Facilitation Act) on planning; the new perspectives of planning with the development of Integrated Resort Schemes (IRS) and Real Estate Scheme (RES); Socio-economic impacts of new developments

CIVE 2217 - PLANNING FOR SUSTAINABLE DEVELOPMENT (L – 3.0)

Concepts of sustainable development; Sustainable planning with respect to economic development; integrated approach to planning taking into consideration physical features, neighborhoods, transportation, energy, infrastructure and services; Concept of mixed use development to achieve sustainable development;
Comparison between short term social and economic benefits and longer social and environmental needs.

CIVE 2219 - INTRODUCTION TO URBAN DESIGN (L – 3.5)

Definitions and examples of urban design; history of urban design; theories of city building; investigate the evolution, structure, form and character of urban design; design of historical sites. Evolution of planning and design processes in Mauritius

CIVE 3209 - PHYSICAL ENVIRONMENT (L / P - 3)

Physical features in Mauritius – climate zones; microclimates: hydrological cycle; geology; topography and landforms; hydrology; water resources, waste water, urban water drainage

systems; ecosystems; weathering, erosion. Climate change and its effects on land use planning; Global warming – causes and effects; different methods to reduce global warming

CIVE 2010D - DIPLOMA PROJECT (6)

Students are required to submit a dissertation of 6,000 – 8,000 words under the guidance of their project supervisor