

## **BSc (Hons) in Educational and Instructional Technologies (Top-Up) – LC300**

- With Specialization in Science Education
- With Specialization in Technology Education
- With Specialization in Language Education
- With Specialization in Visual/Fine Arts Education

### **1. Objectives**

This top-up programme targets holders of a Diploma in Education and provides them with an accelerated route to earning an innovative educational technology degree. It prepares educators and trainers from a variety of professional backgrounds. Participants learn how to design effective curriculum using existing learning theories and contemporary instructional design models. They will collaboratively engage in planning and designing both in-person and online courses within innovative pedagogical design frameworks. Students completing this programme have the option to go for the MSc by Research in Educational Technology or the internationally appraised taught MSc in Educational Technologies of the University of Mauritius.

### **2. General Entry Requirements**

As per General Entry Requirements for admission to the University for Undergraduate programmes or any other qualifications acceptable to the university.

### **3. Programme Requirement**

At least 2 GCE 'A' Level passes and a Diploma in Education and/or related fields awarded by a recognized institution in Mauritius or abroad and/or any other qualifications acceptable to the university. Mature candidates will also be considered on a case-by-case basis.

### **4. Minimum Requirements for Awards**

#### **Degree Award**

A student will be awarded a BSc (Hons) in Educational and Instructional Technology provided she/he satisfies the following minimum requirements.

The student needs to satisfy 42 credits for the award of the Degree which includes an Educational Technology project of 9 credits.

Students wishing to specialise in a given stream need to take the two electives in that particular stream as well as carry out a project in the relevant field. The project should be approved by the respective academic supervisor beforehand.

## 5. Programme Duration

The programme is going to be offered on a flexible, blended mode with a DEOL (Distance Education/Online) component of over 60 %. The 40% will be face to face tutorial classes. Students will therefore be allowed to enrol on part-time basis (minimum duration 2 years).

	Minimum	Maximum
Degree (Part-Time):	2 (Years) (4 Semesters)	4(Years) (8 Semesters)

## 6. Credits per Year: Maximum 24 credits, Minimum 12 credits, subject to regulation 5.

Semester modules to be registered for on a semester basis. Yearly modules to be registered for only once at the start of the module, normally at the beginning of academic year.

## 7. Assessment

### *Continuous and written assessment of modules*

Each module will be assessed over 100 marks (i.e. expressed as %) with details as follows (unless otherwise specified):

Assessment will be based on written examination and continuous assessment. The continuous assessment will carry 40% of total marks except for the following modules:

	Continuous Assessment	Exams
ILT 3100Y : Instructional Design	50%	50%
ILT 3300Y: Design and Development of Educational Websites	60%	40%
ILT 3400: Open-Educational Resources and Technologies	60%	40%

Continuous assessment may be based on laboratory work and/or assignments and should include at least two class tests (one per semester) for yearly modules. For semester modules, there will be at least one class test.

For a student to pass a module, an overall of 40% for Continuous Assessment and Written Examination components would be required without the minimum thresholds within the individual continuous assessment and written examination.

## 8. Interruption of Studies

Students may be allowed to interrupt studies for a minimum period of one academic year subject to their satisfying provisions in the general regulations in respect of interruption of studies.

## 9. Specific Regulations

If CPA < 40, the student will have to repeat the entire academic year, and retake the modules as and when offered. However, s/he will not be required, if s/he wishes, to retake module(s) for which Grade C or above has been obtained.

Students are allowed to repeat only once over the entire duration of the Programme of Studies.

## 10. List of Modules – BSc (Hons) Educational and Instructional Technology

<u>Core Modules</u>	<u>Hrs/week</u> L + P	Credits
ILT 3000 : Foundations of Educational and Instructional Technologies	DEOL	3
ILT 3100Y : Instructional Design	DEOL	6
ILT 3200Y : Intellectual Property and Copyright in Educational Processes	DEOL	6
ILT 3300Y : Design and Development of Educational websites	DEOL	6
ILT 3400: Open-Educational Resources and Technologies	DEOL	3
ILT 3500: Technology Leadership and Management	DEOL	3
ILT 3700: Educational Technology Project	---	9
<u>Elective Modules</u>	<u>Hrs/week</u> L + P	Credits
ILT 3110: ICT Integration in Science Education	DEOL	3
ILT 3120: ICT Integration in Technology Education	DEOL	3
ILT 3130: ICT Integration in Language Education	DEOL	3
ILT 3140: ICT Integration in Visual/Fine Arts Education	DEOL	3
ILT 3210: Webinar in Science Education	DEOL	3
ILT 3220: Webinar in Technology Education	DEOL	3
ILT 3230: Webinar in Language Education	DEOL	3
ILT 3240: Webinar in Visual/Fine Arts Education	DEOL	3



## **12. Outline Syllabus**

This outline syllabus is not prescriptive and is intended to serve as a guide only.

### **ILT 3000- FOUNDATIONS OF EDUCATIONAL AND INSTRUCTIONAL TECHNOLOGIES (3 CREDITS)**

The history, current practices, and future directions of the Instructional Technology field provide a framework for student-creation of teaching and learning tools. Presentation, collaboration, and multimedia become vehicles for learning as students probe the role of technology within the teaching and learning environment.

Course outline: Traditional Classroom Environment. The Chalk and Board Technology. The White Boards. Overhead Projectors. Multimedia Projector and electronic Presentation. The Digital and Interactive white boards. Multimedia Local Networks. Communication Technologies. The Internet and the Information Superhighway

### **ILT 3100Y - INSTRUCTIONAL DESIGN (6 CREDITS)**

Using a systematic approach, students will design, develop, evaluate, and revise instruction to meet defined goals and objectives. Contemporary theories of learning become the framework and catalyst for the design process.

Course Outline: Introduction to Instructional Design. ADDIE model. Adapt or Create? Planning and Writing Learning Units. Planning Assessment. Study Guides. Language, Writing and Layout. Drafting and testing. Quality assurance systems.

### **ILT 3200Y - INTELLECTUAL PROPERTY AND COPYRIGHT IN EDUCATIONAL PROCESSES (6 CREDITS)**

This module is designed to enable the student to develop an understanding of the various field of IP, from a holistic perspective, rather than from distinct legal, technological and business perspectives, and how IP may be used as a strategic tool for value generation.

Course Outline: Intellectual Property Overview. Intellectual Property Rights. Patents, Trademarks and Copyright. Copyleft Licenses and the Creative Commons. Intellectual Property Rights and Educational Processes. Implications for Distance and Online Learning.

### **ILT 3300Y - DESIGN AND DEVELOPMENT OF EDUCATIONAL WEBSITES (6 CREDITS)**

This module aims at providing the theoretical and practical knowledge required to create effective online courses. Students will acquire the basic concepts related to Web Site design and will have the opportunity to create a design plan for an educational web site defining the goals and objectives of the web site, the audience, and content elements. Students will develop skills in creating online courses using software such as Macromedia Dreamweaver, Open-Source Authoring and Commonwealth of learning toolkit eXe.

Course Outline - Web design principles. Site development processes. HTML/CSS layouts. Page layout principles. Navigation. Colour and graphics. Managing content. Web usability. Introduction to eXe authoring tool. Types of multimedia resources.

### **ILT 3400 - OPEN-EDUCATIONAL RESOURCES AND TECHNOLOGIES (3 CREDITS)**

This module introduces learners to the OER concept, a novel philosophy to instructional authoring of courseware that will widely supported by a number of reputed organisations throughout the world.

Course Outline: The OER concept and Movement. OER Repositories. OER courseware design methodology. Content Repurposing. Issues surrounding OER: Intellectual Property, Accreditation and Certification, Quality Assurance, Interoperability Issues, Licensing. Technologies and Tools for OER design and dissemination. Future of OER.

### **ILT 3500 - TECHNOLOGY LEADERSHIP AND MANAGEMENT (3 CREDITS)**

This course is designed to help teachers develop competence and confidence by learning to manage the computer and its peripherals as a single system and as part of a network. The course also addresses issues related to networking, such as virus protection, lab and network security, and student safety on the Internet as well as some of the broader issues of district technology management. Candidates will learn the roles and responsibilities of the technology leader.

Course Outline: hardware, operating systems, networking and internetworking, and Troubleshooting. Vision, strategic planning, budget development, equity, purchasing, staff development, and program evaluation.

**ILT 3700 - EDUCATIONAL TECHNOLOGY PROJECT (9 CREDITS)**

The educational technology project is mainly done using an action-research approach to authentic field practices. The student needs to design instruction using technology in the field of specialization that he/she wants and experiment with the instruction designed for an extended period in the classroom environment. A report of academic tenure needs to be submitted and defended in a viva for successful completion of the project.

**ELECTIVES**

**ILT 3110 - ICT INTEGRATION IN SCIENCE EDUCATION (3 CREDITS)**

This module provides an overview of the necessary pedagogical techniques and approaches of ICT integration to enhance the teaching and learning of Science Subjects at Secondary School levels.

Outline Syllabus: History of Science Education. Cognitive theories of learning and Science Education. Learning Styles and Design of Instruction for Science Education. Simulations and Virtual Laboratories.

**ILT 3120 - ICT INTEGRATION IN TECHNOLOGY EDUCATION (3 CREDITS)**

This module provides an overview of the necessary pedagogical techniques and approaches of ICT integration to enhance the teaching and learning of Design and Technology related Subjects at Secondary School levels.

Outline Syllabus: History of Technology Education. Cognitive theories of learning and Technology Education. Learning Styles and Design of Instruction for Technology Education. Simulations and Virtual Laboratories

**ILT 3130 - ICT INTEGRATION IN LANGUAGE EDUCATION (3 CREDITS)**

This module provides an overview of the necessary pedagogical techniques and approaches of ICT integration to enhance the teaching and learning of languages and literature related Subjects at Secondary School levels.

Outline Syllabus: History of Language Education. Cognitive theories of learning and Language Learning. Learning Styles and Design of Instruction for Language Education. Text to speech synthesis and language teaching. Computer-aided language learning.

**ILT 3140 - ICT INTEGRATION IN VISUAL/FINE ARTS EDUCATION (3 CREDITS)**

This module provides an overview of the necessary pedagogical techniques and approaches of ICT integration to enhance the teaching and learning of Arts related Subjects at Secondary School levels.

Outline Syllabus: History of Language Education. Cognitive theories of learning and Language Learning. Learning Styles and Design of Instruction for Language Education. Text to speech synthesis and language teaching. Computer-aided language learning.

**ILT 3210 - WEBINAR IN SCIENCE EDUCATION (3 CREDITS)**

An online seminar/web conference on contemporary issues and challenges surrounding Science Education in general. The seminar exposes participants to current research and development in science education and the role of computers and the internet in bringing a new paradigm for teaching and learning of Science.

**ILT 3220 - WEBINAR IN TECHNOLOGY EDUCATION (3 CREDITS)**

An online seminar/web conference on contemporary issues and challenges surrounding Technology Education in general. The seminar exposes participants to current research and development in technology education and the role of computers and the internet in bringing a new paradigm for teaching and learning of Design and Technology subjects.

**ILT 3230 - WEBINAR IN LANGUAGE EDUCATION (3 CREDITS)**

An online seminar/web conference on contemporary issues and challenges surrounding Language Education in general. The seminar exposes participants to current research and development in language education and the role of computers and the internet in bringing a new paradigm for teaching and learning of language and literature subjects.

**ILT 3240 - WEBINAR IN VISUAL/FINE ARTS EDUCATION (3 CREDITS)**

An online seminar/web conference on contemporary issues and challenges surrounding Arts Education in general. The seminar exposes participants to current research and development in language education and the role of computers and the internet in bringing a new paradigm for teaching and learning of language and literature subjects.

*January 2010*