



University of Mauritius
C-DAC School of Advanced Computing



CD 400 - Diploma / BSc (Hons) Information Technology (Full Time)

1. OBJECTIVES

This Programme is geared towards producing computer professionals, with a thorough understanding of various components of Information Technology. The programme ensures that our graduates integrate easily into the job market and keep up with emerging technologies.

The programme is designed to provide a balanced mix of theoretical concepts as well as exposure to application methodologies. With substantial focus on the practical and hands-on component, the programme intends to ensure “learning by doing”. The practical modules and hands-on exercises will reinforce the classroom learning experience. On completing the requirements of the degree programme, students will have acquired adequate skills for the design and development of efficient IT solutions.

This programme will be run by the C-DAC School of Advanced Computing, a joint initiative of the Centre for Development of Advanced Computing (CDAC), India, and the University of Mauritius. The Diploma/Degree is awarded by the University of Mauritius.

2. GENERAL MINIMUM ENTRY REQUIREMENTS

In accordance with the University's General Entry Requirements for admission to undergraduate programmes.

3. PROGRAMME REQUIREMENTS

A pass in Mathematics at School Certificate / 'O' Level **and** at least 2 G.C.E. 'A' Level passes including Mathematics or Computing.

General and Programme Requirements - Special Cases

The following may be deemed to have satisfied the general and programme requirements for admission:

- (i) Applicants who do not satisfy any of the requirements as per Sections 2 and 3 above but who submit satisfactory evidence of having passed examinations which are deemed by the Senate to be equivalent to any of those listed.
- (ii) Applicants who do not satisfy any of the requirements as per Sections 2 and 3 above but who in the opinion of Senate submit satisfactory evidence of the capacity and attainments requisite to enable them to pursue the programme proposed.
- (iii) Applicants who hold a full practising professional qualification obtained by examination.

Mature Students

'Mature Students' shall be those candidates having full School Certificate, and

- (i) who do not satisfy the General Entry Requirement and who are (preferably) at least 25 years of age and who have at least 5 years relevant work experience, or
- (ii) who satisfy the General Entry Requirement and who are (preferably) at least 25 years of age, but are lower in terms of their computer list ranking at the UoM; and who have at least 5 years relevant work experience.

4. PROGRAMME DURATION

	Normal	Maximum
Degree	3 years (6 semesters)	5 years (10 semesters)

SEMESTER DURATION ; 15 weeks (excluding examination period)

5. CREDITS PER SEMESTER

Maximum 24 credits, Minimum 9 credits

6. MINIMUM CREDITS REQUIRED FOR AWARD OF:

MODULES	CREDITS	
	Diploma	Degree
Core	57	97
Project (Compulsory)	6	9
Total	63	106

7. ASSESSMENT

Each module will carry 100 marks and will be assessed as follows (unless otherwise specified):

- i) Continuous assessment carrying a range of 20% to 30% of total marks except for a programme where the structure makes for other specific provision(s). Continuous assessment may be based on laboratory work and/or assignments and would include at least 1 class test.
- ii) Written examination of 2-hour duration carrying a range of 70% to 80%
- iii) An overall total of 40% is required for a student to pass a module.

8. TERMINATION OF REGISTRATION

A person shall cease to be a registered student of the University if his/her CPA remains below 40% for two consecutive registered semesters.

Any student whose registration has been terminated should not be admitted on

- (a) The same programme until a period of two years after termination of registration.
- (b) On a new programme until a period of one year after termination of registration.

9. PROGRAMME STRUCTURE

LEVEL 1

SEMESTER 1

CODE	MODULE	Hrs/Wk L	Hrs/Wk P	CREDITS
DAC 1102	MATHEMATICS FOR IT	3	0	3
CSE 1010e	INTRODUCTION TO IT	2	0	3
CSE 1102	INTRODUCTION TO DIGITAL LOGIC	3	0	3
DAC 1101	FUNDAMENTALS OF PROGRAMMING USING C	2	2	3
CSE 1103	INTRODUCTION TO FORMAL LOGIC	3	0	3
DAC 1201	BUSINESS COMMUNICATION	3	0	3

SEMESTER 2

CODE	MODULE	Hrs/Wk L	Hrs/Wk P	CREDITS
MATH 1241	MATHEMATICAL STATISTICS & PROBABILITY 1	3	0	3
CSE 1206	STRUCTURED SYSTEMS ANALYSIS & DESIGN	3	0	3
CSE 2206	COMPUTER SYSTEM ARCHITECTURE	3	0	3
DAC 1202	OBJECT ORIENTED PROGRAMMING	2	2	3
CSE 2105	HUMAN COMPUTER INTERACTION	3	0	3
DAC 1203	WEB TECHNOLOGIES	2	2	3

LEVEL 2

SEMESTER 3

CODE	MODULE	Hrs/Wk L	Hrs/Wk P	CREDITS
DAC 2101	DATA STRUCTURES & ALGORITHMS	3	2	4
CSE 2108	DISCRETE MATHS	3	0	3
DAC 2112	VB.NET PROGRAMMING	2	2	3
DAC 2107	SOFTWARE ENGINEERING	3	0	3
DAC 2105	DATABASE TECHNOLOGIES	2	2	3

SEMESTER 4

CODE	MODULE	Hrs/Wk L	Hrs/Wk P	CREDITS
DAC 2201	E-BUSINESS	3	0	3
DAC 2202	OPERATING SYSTEMS	3	0	3
CSE 2110	OBJECT ORIENTED TECHNIQUES	2	2	3
DAC 2211	MULTIMEDIA SYSTEMS	2	2	3
DAC 2205	DATA TRANSMISSIONS & NETWORKING TECHNOLOGIES	3	0	3
DAC 2206	MINI PROJECT			3

LEVEL 3**SEMESTER 5**

CODE	MODULE	Hrs/Wk L	Hrs/Wk P	CREDITS
DAC 3104	ASP.NET PROGRAMMING	2	2	3
DAC 3105	JAVA PROGRAMMING	2	2	3
CSE 3203	MANAGEMENT INFORMATION SYSTEMS	3	0	3
DAC 3102	PRINCIPLES OF SOFTWARE PROJECT MANAGEMENT	3	0	3
DAC 3203	CYBER LAWS	3	0	3
DAC 3000	FINAL YEAR DEGREE PROJECT*		3	

* CREDITS TO BE EARNED AT THE END OF SEMESTER 6

SEMESTER 6

CODE	MODULE	Hrs/Wk L	Hrs/Wk P	CREDITS
DAC 3101	NETWORK PROGRAMMING	2	2	3
CSE 3207	INFORMATION SYSTEMS SECURITY	3	0	3
CSE 3107	DISTRIBUTED SYSTEMS	3	0	3
DAC 3202	CURRENT TRENDS IN IT & COMPUTING	3	0	3
DAC 3000	FINAL YEAR DEGREE PROJECT		6	9

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