

My Teaching at B.Sc., M.sc., M.Phil., and PhD. levels

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1.

UNDERGRADUATE Level

B.Sc.

I have taught Computer Science courses in several Faculties at The University of the West Indies, including Faculty of Engineering, Social Sciences and Science & Agriculture. My main teaching is in the B.Sc. and M.Sc Computer Science programs in the Faculty of Science & Agriculture. My specialization is Database Systems. In the last few years, I have taught the following courses:

- B.Sc. Computer Science majors:

CS37E - Database Management Systems II

CS27E - Database Management Systems I

CS22A - Programming for Business Applications

CS29A - File Design and Implementation

- M.Sc. Computer Science:

CS55A - Advanced Database Systems

- B.Sc. Electrical and Computer Engineering:

CS35A – Database Management Systems

UWI, in keeping with international trends, is committed to moving into on-line distance education. I have developed two web-based courses (CS27E and CS35A) in WebCT, the Course Management software that the University has invested in. These courses are offered in dual mode: on-line and face-to-face. The laboratory sessions for both of these courses introduce students to Oracle DBMS, a leading Database Management System that is used for enterprise wide and e-commerce applications.

POSTGRADUATE Level

Ph.D.

- I have supervised a Ph.D. student (T.Cummings) in the area of ELearning. He successfully completed his research on methodologies for the design and development of Web-based courses for Secondary School Students in the Caribbean:
- I have served as examiner for the following Ph.D. theses:

Mohan, P. *'Incorporating Business Rules in an Object Oriented System'*, Ph.D. Thesis, The University of the West Indies, St. Augustine, 2000

Charlery, J. *'Visualizing Atmospheric Vortical Flow using Line Integral Convolution Techniques'*, Ph.D. Thesis, The University of the West Indies, CaveHill, 2001

- I am currently supervisor for four Ph.D students. The research areas are as follows:
- E-Learning: Learning Objects Repository for dynamic construction of web-based courses.
- E-Learning: Peer review system for quality assurance of Learning objects
- Distributed Databases: Replication in Distributed Database Systems
- Graph Visualization: Graph Visualization Systems for Turing Machines and Finite-state Automata

M.Phil.

- I have supervised an M.Phil student in the area of Information Visualization. She successfully completed the requirements for an M.Phil. Degree in Computer Science.
- I am currently supervising an M.Phil. student who is doing research in the area of E-Learning (a costing model).

M.Sc.

I have served as coordinator for the M.Sc. in Computer Science that is offered by the Department of Mathematics and Computer Science. I teach one of the courses in that M.Sc.,

CS55A-Advanced Database Systems. I have supervised the following M.Sc. research projects:

Khan, Anna-Maria *Online Content management Systems for the Developing World*, 2005

Koon, Mahindrapersad *The Design and Development of a Prototype for a Web-enabled Student Assessment Information System at Corinth Teachers' College*, 2005

Bheekoo, allycia *An Analysis of the recent Applications of Geographic Information Systems in two Companies based in Trinidad*, 2004

Chen, Tommy *Analysis and Design of a Web-based Reservation Application for the Teleconference System of The University of the West Indies Distance Education Centre*, 2004

Gransauil-Brown, Liesel *ELearning: An Eastern Caribbean Perspective Embracing the New Socio-Economic Challenge*, 2003

Singh, Rajendra *Dynamic Internal Access to Coarse Sharable Learning Objects: An Approach for Reducing Re-authoring Efforts*, 2003

Panchoo, Dana *Use of Context in Search Engine Personalization*, 2003

Thomas, Glenwood *A Perspective on E-Business Services Focusing on Student Registration*, 2002

Lewis, John *The Design and Implementation of a Bursary Administration System*, 2002

Bobb-Semple, Charles *Leave Management Information System*, 2002

Singh, Gail *A theoretical and practical look at the Methodology and Issues in Building the Dimensional Design of a Data Warehouse*, 2000

Marajdeen, Sarla *A study of the Workings and Implementation Issues of an E-Commerce Solution*, 2000

Arneaud, Jason *Graduate Database: with an Interface to the World Wide Web*, 2000

Jones, Christine *The Design and Development of a Prototype for a Distributed Inventory System for the Faculty of Agriculture and Natural Sciences*, 2000

Maharaj, Sita, *Development of a Motor Claims Data Mart of a Local Insurance Company*, 2000

Forbes-Mayers, Denize *Information Retrieval Techniques*, 2000

Edwards, Avril *The Development of a Computer Hardware Inventory Control System using Web Application Technology*, 2000

Vickles, Yolande *Semantic Query Optimization in Object-Oriented Databases*, 1999

Wallace, Michael *Business Effectiveness through Data Warehousing and OLAP – An Analysis of the Technology and its Application within the Commercial Energy Environment*, 1999

Lendor, Juliana *The development of an Accounts Receivable System for National Flour Mills utilizing Object oriented techniques*, 1998

Ambrose, Mauricia *Object Oriented Analysis and Design Methodology with Case Study*, 1997

Jones, Louisa *User Interface Design in PETROTRIN: Past, Present and Future*, 1995