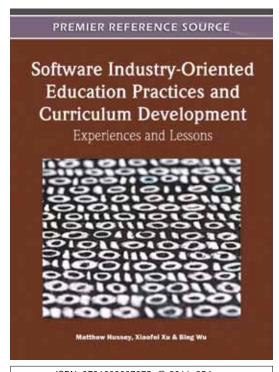
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# Software Industry-Oriented Education Practices and Curriculum Development: Experiences and Lessons



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Matthew Hussey (Dublin Institute of Technology, Ireland), Bing Wu (Dublin Institute of Technology, Ireland) and Xiaofei Xu (Harbin Institute of Technology, China)

The development of practical software is exceedingly dynamic in nature and the software industry itself plays a key role in this process. As a result, higher education institutions need to produce graduates at primary and postgraduate degree levels that are well matched to the needs of local and international industry.

Software Industry-Oriented Education Practices and Curriculum Development: Experiences and Lessons presents relevant theoretical frameworks and the latest empirical research findings in this area for professionals in academic institutions and industry who want to improve their understanding of this key platform. This book will serve as a reference for education and program designers across the world involved in industry-oriented education and production of graduates for its globalization.

#### **Topics Covered:**

- Curriculum for SIOE
- E-Learning and Support Tools
- Ethos for Software Industry-Oriented Education (SIOE)
- Internationalization of Software Education
- Introduction to Themes and Strands
- Models for SIOF
- Nature of Modern Software Industry
- Requirements for Software Professionals
- Research Underpinning SIOE
- Role of Industry as Stakeholders in Computing Education

**Market:** This premier publication is essential for all academic and research library reference collections. It is a crucial tool for academicians, researchers, and practitioners and is ideal for classroom use.

Matthew Hussey: Emeritus Professor, Director of Faculty of Science of Dublin Institute of Technology, Ireland (1994-2007), Head of Department of Physics (1983-1994). B.E. (National University of Ireland, Dublin), M.Sc. and Ph.D. (University of Pennsylvania, Philadelphia) in 1963, 1967 and 1970. His main research and publication areas (over twenty books published and over 200 book chapters, peer-reviewed papers and conference proceedings): medical physics and bio-engineering, theory of ultrasound, ultrasound imaging and image analysis, theory of electrocardiography, science of biomaterials (dental, optometric and others), textbooks, and other science publications in Irish language, higher education policies and procedures, including quality assurance, research development, and links with industry.



#### Section 1: Introduction to Industry Oriented Software Education

#### Chapter 1

Introduction to the Broad Concepts Underlying this Book Hussey Matthew (Dublin Institute of Technology, Ireland)

## Section 2: International Higher Education Institution-Industry Co-Operation Models

#### Chapter 2

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#### Chapter 3

Co-Operation Models for Industries and Software Education Institutions Wang Yanqing (Harbin Institute of Technology, China)

#### Chapter 4

UB1-HIT Dual Master's Programme:
Chen David (IMS-University of Bordeaux 1, France)
Vallespir Bruno (IMS-University of Bordeaux 1, France)
Bourrières Jean-Paul (IMS-University of Bordeaux 1, France)
Alix Thècle (IMS-University of Bordeaux 1, France)

#### Section 3: Curriculum Issues

#### Chapter 5

A Holistic Approach to Software Engineering Education Esendal Tugrul (De Montfort University, UK) Rogerson Simon (De Montfort University, UK)

#### Chapter 6

Industry Oriented Curriculum and Syllabus Creation for Software Engineering Series Courses in the School of Software

Sun Yushan (Harbin Institute of Technology at Wehei, China)

#### Chapter 7

Problems First

Hill Gary (University of Northampton, UK) Turner Scott (University of Northampton, UK)

#### Chapter 8

A New Industry-Centred Module on Structured Parallel Programming González-Vélez Horacio (Robert Gordon University, UK)

#### Chapter 9

Open and Closed Practicals for Enterprise Resource Planning (ERP) Learning Boza Andrés (Universitat Politècnica de València, Spain)

Cuenca Llanos (Universitat Politècnica de València, Spain)

pter 10

Curriculum Issues in Industry Oriented Software Engineering Education Mishra Alok (Atilim University, Turkey)

Mishra Deepti (Atilim University, Turkey)

#### Section 4: International Academic Quality Assurance

#### Chapter 11

Seven Factors for the Quality Assurance of International Higher Education O'Leary Ciarán (Dublin Institute of Technology, Ireland)

#### Section 5: E-Learning and Support Tools

#### Chapter 12

An Ontology-Based Learning System in IT Project Management Bodea Constanta-Nicoleta (Academy of Economic Studies, Romania)

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