1. **Name of Series**
   Business Degree Programme

2. **Name of Course**
   Micro Award for Information Technology for Business

3. **Synopsis of Course (60-word limit)**

   The subject examines the goals and functions of Information Technology in the business environment. As we enter the digital revolution, successful organisations must deal effectively with intense global competition and an increasingly rapid pace of change. For an organisation to thrive in today's Internet economy, managers and functional specialists in all areas must perform their jobs even more effectively and efficiently. IT becomes the tool that enables all organisations to solve increasingly complex problems and to capitalise on opportunities that contribute to the success and the survival of the organisation. This subject is based on the fundamental premise that the major role of Information Technology is to support organisational functions. The aim of the subject is to teach business majors how to use IT to master their current jobs and to help ensure the success of their organisation. The focus is not only based on learning the concepts of IT but rather on applying those concepts to facilitate business processes.

4. **For Whom**

   a. Students with UEC, STPM and other pre university qualifications
   b. Students from other institutions
   c. Part time students

5. **Course Outcomes (100-word limit)**
   By the end of the course, students will be able to:
   a. Able to identify, list and apply the technical components of IS and the strategic role of IS in the organisations
   b. Able to discuss the implementation of the inter-organisational systems that serve as strategic linkages between national and global business partners
   c. Able to explain how the telecommunications technology and system helps the organisation to attain competitive advantage

6. **Delivery Mode**

   Online Lecture, Online Workshop with discussions, real-life cases, role playing and tutorials. Online assessment.

7. **Duration of Course**

   4 weeks' course
   2 - 3 hours per week.
   Cumulative learning 4 credit hrs for the total course

8. **Level of Course & Microcredential Credit Value, if any**

   Degree/4 credit hours per subject

9. **Course Outline**
   a. Introduction to Information System
      • Information Systems: Concepts and Definition
   b. Information System: Concepts and Management
      • Types of Information Systems
      • Components of Information Systems
      • Examples of Information Systems
      • Managing Information Resources
   c. The Modern Organization in the Digital Economy
      • Doing Business in the Digital Economy
      • Business pressures, Organizational Responses, and IT Support
      • Competitive Advantage and Strategic Information Systems
   d. Ethics, Privacy, and Information Security
      • Ethical Issues
      • Threats to Information Security
      • Protecting Information Resources
   e. Data and Knowledge Management
      • Managing Data
      • The Database Approach
      • Database Management Systems
      • Data Warehousing
      • Knowledge Management
   f. Network Computing
      • Types of Networks
      • The Internet
      • The World Wide Web
      • E-Learning and Distance Learning
      • Telecommuting
   g. E-Business and E-Commerce
      • Overview
      • Business-to-Consumer (B2C) Electronic Commerce
   h. • Business-to-Business (B2B) Electronic Commerce
      • Electronic Payment
      • Ethical and Legal Issues in E-Business
   i. Wireless, Mobile Computing and Mobile Commerce
      • Wireless Technologies
      • Wireless Computer Networks and Internet Access

- Mobile Computing and Mobile Commerce
- Pervasive Computing
- Wireless Security
j. Organizational Information Systems
  - Transaction Processing Systems
  - Functional Information Systems
  - Enterprise resource planning Systems
  - Customer Relationship Management
  - Supply Chain Management Systems
  - Electronic Date Interchange and Extranets
k. Managerial Support Systems
  - Managers and Decision Making
  - Decision Support Systems
  - Enterprise and Executive Decision Support
l. Systems
  - Intelligent Systems
m. Acquiring IT applications
  - Planning for and justifying IT Applications
  - Strategies for acquiring IT applications
  - The Traditional Systems Development Life Cycle
  - Alternative Methods and Tools for Systems Development
  - Outsourcing and Application Service Providers
  - Vendor and software selection
n. Social Computing
o. Computer Software
  - Significance of Software
  - Systems Software
  - Application Software
  - Software Issues
p. Computer Hardware
  - The Central Processing Unit
  - Computer Memory
  - Computer Hierarchy
  - Input and Output Technologies
  - General Technological Trends
  - Strategic Hardware Issues

10. Short Bio of Trainer/s (50-word limit)

Lecturer: **Dr Hemalata Alagan**

BCompSc(Info Eng) Hons (USM); MEd(OUM), PhD in Management (UNIMAS)

Dr Hema a Senior Lecturer in the Faculty of Business, Economics and Accounting at HELP University lecturer holding a Phd in Management, Bachelors in Computer Science. She has been consistently praised as a person who has high regard for teaching academia by her co-workers and management, over the course of her 17 years career. She had developed

skill set directly relevant to the current and fast growing domain, including expertise on big data and business analytics. She has consistently demonstrated abilities to perform in information technology, and management related subjects in every aspect of her senior lecturer role at HELP University. Her doctoral thesis was on the influence of attitudes on gender roles and human resource practices towards underrepresentation of top women managers in public listed companies.