



TEACHING PORTFOLIO

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Teaching is a work of Heart.

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Introduction

About this Teaching Portfolio

The purpose of this teaching portfolio is to provide an overview of my teaching and learning endeavors, as well as other relevant activities. This collection of materials reflects my teaching practice and its impact on student learning, encompassing my teaching philosophy, assessment techniques, self-reflections on teaching, feedback from students and course evaluations, supervisory experiences, and other associated undertakings. During my tenure at UTM from 1996 to the present day, I have served several faculties namely:

- Faculty Technology of Informatics Razak (FTIR)

- Advanced Informatics School (UTM AIS)

- Centre for Advanced Software Engineering (CASE)

- Faculty of Computer Science and Information Systems (FSKSM)

After graduating with a Bachelor's in Computer Science (Software Engineering) from UTM and being appointed as a tutor at FSKSM, I began my career with UTM. I pursued my Master's degree in the Real-Time Software Engineering program after working for 6 months. Upon completion, I was placed at the Centre for Advanced Software Engineering UTM KL, where I taught postgraduate students. Following a lengthy tenure, I then proceeded to continue my studies with a Doctor of Philosophy degree. I am incredibly grateful to both UTM and the Ministry of Higher Education for sponsoring my Master's and PhD studies. As an academic staff member at UTM, I have been given numerous opportunities and flexibility to grow my skills and knowledge, allowing me to serve my society and nation beyond my capabilities. Moving forward, I understand that I have a significant role and responsibility in serving UTM to the best of my ability.

Teaching Philosophy

- My teaching philosophy is in line with the philosophy of national education, leading to comprehensive and integrated student development in line with the development of Industry 4.0 aspirations. The Fourth Industrial Revolution (4IR) represents new ways in which disruptive technologies are embedded in our daily experience. In addition, the development of 21st-century education has led the lecturer to change the way of teaching.

The use of the latest technology and blended learning has been used in delivering lectures to students. In addition to teaching, I also inculcate moral values in students. To me, students are customers who must be treated with respect and kindness.

”

A good teacher is like a candle. It consumes itself to light the way for others.”

Mustafa Kemal Atatürk



Teaching Goals



- To help students develop an understanding of the subject being taught.
- To motivate the tendency, interest, and enthusiasm of the students on the subject matter.
- To help students to think creatively in solving problems.
- Encourage and empower students while applying moral values in everyday life as well as responsive to any given task.



Teaching Methodology

- I have incorporated several teaching techniques based on Outcome-Based Education (OBE) such as Case Study Teaching, Problem-Based Learning, Collaborative assignments, and Capstone Projects. The E-learning platform is utilized to promote and facilitate the teaching methods. All activities such as downloading lecture notes/slides, performing quizzes, submitting assignments, forums, chat, are all available on this digital platform provided by the University.



Assessment & Evaluation

I believe that students should be assessed fairly. Students will be notified of the evaluation method at the beginning of every semester. Rubrics for all assignments and projects are provided so students know what to be evaluated. The norm of percentage marks is tabulated in the Table below.

Item	Percentage
Quizzes (2)	20%
Assignment (1)	20%
Project (1)	20%
Final Exam	40%
Total	100%

Self Reflection

My Reflection

I am practicing from time to time to improve my teaching and learning methods. To improve teaching, I always assess myself continuously by:



Attend short courses, seminars, and conferences.



Review the PPPs that have been filled by students.



Do a lot of reading to gain knowledge.



Discuss and share new knowledge through colloquium and peer.

Student Rating

- I have incorporated several teaching techniques based on Outcome-Based Education (OBE) such as Case Study Teaching, Problem-Based Learning, Collaborative assignments, and Capstone Projects. The E-learning platform is utilized to promote and facilitate the teaching methods. All activities such as downloading lecture notes/slides, performing quizzes, submitting assignments, forums, chat, are all available on this digital platform provided by the University.

The ePPP system, utilized by UTM, gathers feedback from students regarding their instructor's teaching methods and the learning experience. The ratings for each course in every semester are computed using the ePPP question format. The table presented below displays the student ratings acquired through ePPP for my courses.

No.	Session Semester	Course Code	Subject	Means
1.	202220231	MANP1153-02	SOFTWARE DESIGN	5
2.	202120222	MANP1153-01	SOFTWARE DESIGN	5
3.	202120222	MANP1153-02	SOFTWARE DESIGN	4
4.	202120221	MANP1153-01	SOFTWARE DESIGN	
5.	202120221	MANP1153-02	SOFTWARE DESIGN	5
6.	202020212	MANP1153-02	SOFTWARE DESIGN	5
7.	202020211	MANP1153-01	SOFTWARE DESIGN	5
8.	202020211	MANP1153-02	SOFTWARE DESIGN	
9.	201920202	MANP1153-01	SOFTWARE DESIGN	5
10.	201920202	MANP1153-02	SOFTWARE DESIGN	4.84
11.	201920201	MANP1153-01	SOFTWARE DESIGN	4.25
12.	201920201	MANP1153-02	SOFTWARE DESIGN	4.94
13.	201820192	MANP1135-01	SOFTWARE ENGINEERING PROJECT	4.95
14.	201820191	MANP1153-01	SOFTWARE DESIGN	5
15.	201820191	MANP1153-02	SOFTWARE DESIGN	4.64

Average for Mean over 5 years : 4.82

Supervision Experience

I was given the opportunity by the faculty to supervise students at Phd level as the main and co supervisor as tabulated in Table below as well as Master by taught course in respective Tables.

Phd Main Supervisor

No	Name/No Matrik	Status	Title	Date
1.	Yasir Mahmood (PAN183009)	Graduated (GOT)	A Hybrid Software Effort Estimation Model for Ongoing Software Development	2018-2021
2.	Imran Harith Bin Mohd Azmy (PRT213006)	Ongoing	System Extension Model for Integrated Plugin Scaffolding Generator Using Console Framework	2022
3.	Sadaquat Ali Ruk (PRT223021)	Ongoing	Effect of Cost factors on the accuracy of software estimation in Agile Software Development	2022

Phd co- Supervisor

No	Name	Status	Title	Date
1.	Haslina Binti Md Sarkan (PAN153022)	Graduated	An Ensemble Software Development Effort Estimation Model	2017-2022
2.	Muhammad Asyraf Bin Wahi Anuar (PRT193022)	Graduated	A unified web information system extension for scaffolding generator using console framework	2019-2022
3.	Khan Sehar Gul (PRT223020)	Ongoing	Classification of the software requirements with Machine learning	2022

Master by Taught Course (Main Supervisor)

No	Name	Status	Title	Date
1.	Mohamad Izzat Nazmier Bin Ahmad Tajudin	Graduated	Development of e-Commerce Website System by Using Advanced Encryption Standard (AES)	2023
2.	Anmar Amer Fadhil (Iraq)	Graduated	Generating Software Engineering Documents for ATM System by Using Reverse Engineering Technique	2022
3.	Ma Zhiyao (China)	Graduated	Design and Implementation of Online Shopping System	2022
4.	Imran Harith Bin Azmy	Graduated	Incorporating Open Subsurface Data Universe (OSDU) Standards into Data Geometry Software	2021
5.	Harez Hezry bin Harihodin	Graduated	Development of Matrixx Mediation Solution for Three UK Rebus Network	2020
6.	Mohd Nizam bin Abdul Rahman	Graduated	Development of Vehicle and Computer Load Information System for MyIPO Human Resource Division	2020
7.	Muhamad Shariq Jamil (Pakistan)	Graduated	Implementation of Bill Rendering System for Tenaga Nasional Berhad	2020
8.	Ahmad Hussain Rahimi (Afghanistan)	Graduated	The Development of LeadCentre System for Small Medium Enterprise	2020
9.	Muhammad Ezzat Rasydan Bin Ismail	Graduated	Development of Agronomist Station System Agricultural Water Table Management Peatland for TH Plantation Berhad	2019
10.	Siti Aisyah Mohd Adzhar	Graduated	Development of Software Requirements Specification For Training Institution	2019
11.	Mohamad Basel Summak (Iran)	Graduated	The Implementaton of E-Commerce Furniture Module on Android Platform	2019
12.	Noor Krystel Fernandez (United State America)	Graduated	Improving Traffic Engineered Multi-Protocol Label Switching Virtual Private Networks Using An Openflow Controller	2019

13.	Sohail Shaghasi (Afghanistan)	Graduated	The Development of Vehicle Identification, Verification and Control System for Afghanistan Traffic Departments	2018
14.	Babak Taraghi (Iran)	Graduated	Producing Software Engineering Documents Through Software Reverse Engineering for the Digital Signage System	2017
15.	Ahmed Abdulameer Ahmed (Iraq)	Graduated	The Development of the UTM-MYEV Charging Mobile Application Using Xamarin Technology	2016
16.	Mohd Shuhaimi Bin Abdul Aziz	Graduated	The Development of Web Based ICT Complaint Management System (SOLVEIT) for Jabatan Hal Ehwal Veteran Angkatan Tentera Malaysia	2016
17.	Abdul Muhaimin Bin Suhaimi	Graduated	The Development of Task Management System for Bahagian Teknologi Pendidikan	2016
18.	Hilda Binti Zainal	Graduated	Business Process Modeling on Static Test Process and Implementation Dynamic Testing for Health Application	2016
19.	Siti Norhana Binti Kalil	Graduated	The Development of E-Leave System for Burnmark Industries Sdn. Bhd.	2016
20.	Nor Liyana Binti Azman	Graduated	Framework of Identification of Zero-Day Attack on Web Application by Using Complex Event Processing	2016
21.	Hasma Khairul Nisak Binti Harun	Graduated	Development of Smart Access and Tracking of Information Resources (Smart Library) System using Radio Frequency Identification (RFID) Technology	2008
22.	Syed Shoaib Absar (India)	Graduated	Generic Scripting Tool (For Java Based Web Applications) Using Java 2 Platform for IKRAM Solutions	2008
23.	Ali Kamal Sabri Bin Abdul Aziz	Graduated	The Development of Similar Day Load Forecasting for System Operations, Transmission	2006

			Division, Tenaga Nasional Berhad (TNB)	
24.	Shukor Sanim Bin Mohd Fauzi	Graduated	Implementing Software Process Assessment for Project Planning, Risk Management, Requirements, Development, Requirements Management, Process and Product Quality Assurance and Project Monitoring Control Process Areas at Heitech Padu Berhad	2005
25.	Nuraminah Binti Ramli	Graduated	Establishing CMMI Measurement and Analysis, and Integrated Project Management Process Areas at Heitech Padu Berhad	2005
26.	Mohd Faizul Bin Mustapha	Graduated	The Development of Surface Mount Data Automation (SMTDA 1.0)	2005
27.	Azizi Abdul Rakman	Graduated	Design and Development of Intel Mechanics Application (iMecApp)	2005
28.	Nor Azliana Akmal Binti Jamaludin	Graduated	Development of Payroll Integration System Between HRMIS and MARA Legacy System	2005
29.	Subhashini a/p Apana @ Apana Narayanan	Graduated	Development of ERD and Data Dictionary for Reporting (ER3DR)	2005
30.	Rohana Binti Ramli	Graduated	A Study on Customization of ISO9001:2000 Into Software Development Process for Management Information System (MIS) Department of Kolej Universiti Teknikal Kebangsaan Malaysia (KUTKM)	2005
31.	Hamidon Bin Mahfoz	Graduated	Installing, Configuration and Implementation of Genesys Multi-Tenant Reporting for Single Numbering Services Telekom Malaysia Contact Center	2004
32.	Mardiana Binti Sulaiman	Graduated	Development of a Key Generation Application for Wireless Secure Modem for Sapura Technologies Sdn. Bhd.	2004
33.	Edzreena Edza Odzaly	Graduated	The Development of Malaysian Public Sector Information & Communications Technology Security Risk Assessment	2004

			Methodology Tool (MYRAM TOOL) – Odd Steps of Risk Assessment Process and High-Level Recommendations for Scan Associated Sdn. Bhd.	
34.	David Wong	Graduated	The Development of Malaysian Public Sector Information & Communications Technology Security Risk Assessment Methodology Tool (MYRAM TOOL) – Preparation Stage and Even Steps of Risk Assessment Process for Scan Associated Sdn. Bhd.	2004
35.	Asrina Suraini Binti Md. Yunus	Graduated	Development of Frame Relay-Global Inventory System (FREGIS) for Telekom Malaysia Berhad	2004
36.	Azma Binti Abdullah	Graduated	Development of Staff Medical Management System with e-Management Attributes for KUKTEM	2004
37.	Faizura Haneem Binti Mohamed Ali	Graduated	Development of Staff Medical Management System of E-Management for Universiti College and Technology Malaysia (KUKTEM)	2004
38.	Saiful Huzairi Bin Mohd Hussain	Graduated	Development of ICT Infrastructure Management System (KUKTEM E-Management Design Strategies)	2004
39.	Muhammed Ramiza Bin Ramli	Graduated	Development of ICT Infrastructure Management System and E-Management Culture in KUKTEM	2004
40.	Wan Rohana Binti Wan Endut	Graduated	The Development of Staff Medical Management System, An Application to Support KUKTEM E-Management	2004
41.	Ahmed Jaharan (India)	Graduated	Developing Eshware Stock Inventory For Eshwara Engineering Sdn. Bhd. Malaysia	2003
42.	Syarbaini Bin Ahmad	Graduated	Development of Computerize Maintenance Management System for SE Project, Sapura Energy Sdn. Bhd	2003

43.	Mohd Hisham Bin Mohd Sharif	Graduated	Development of SPTP using ASP.Net for Imatera Digital Image and Services	2003
44.	Nurul Sharaz Binti Azmanuddin	Graduated	Development of Short Massage service Center (SMSC)	2003
45.	Mohd Suffian Bin Sulaimain	Graduated	Development of Job Applying System for KUTKM using UML	2003
46.	Zaiwari Bin Mohamad Zam	Graduated	Software for Attitude Determination and control System (ADCS) via DOD2167A STD Using Object Oreiented and Structured Approach	2003
47.	Mohamed Imran Bin Mohamed Ariff	Graduated	Developing Class Scheduling System for International Islamic University Malaysia	2003
48.	Suhailan Bin Safei	Graduated	Developing Prai Auto Billing System via customization of Undocumented Old Billing System Using Quality Approach	2003
49.	Khairul Bin Anwar	Graduated	Radiology Information System	2002
50.	Kartina Binti Hamzah	Graduated	Maternal and Child Healthcare Clinic System	2002
51.	Mazida Binti Ahmad	Graduated	E-Submission System for the Government of Malaysia	2002