



UNIVERSITI TEKNOLOGI MALAYSIA

Designing Success

From Graphic Multimedia to Leading Projects

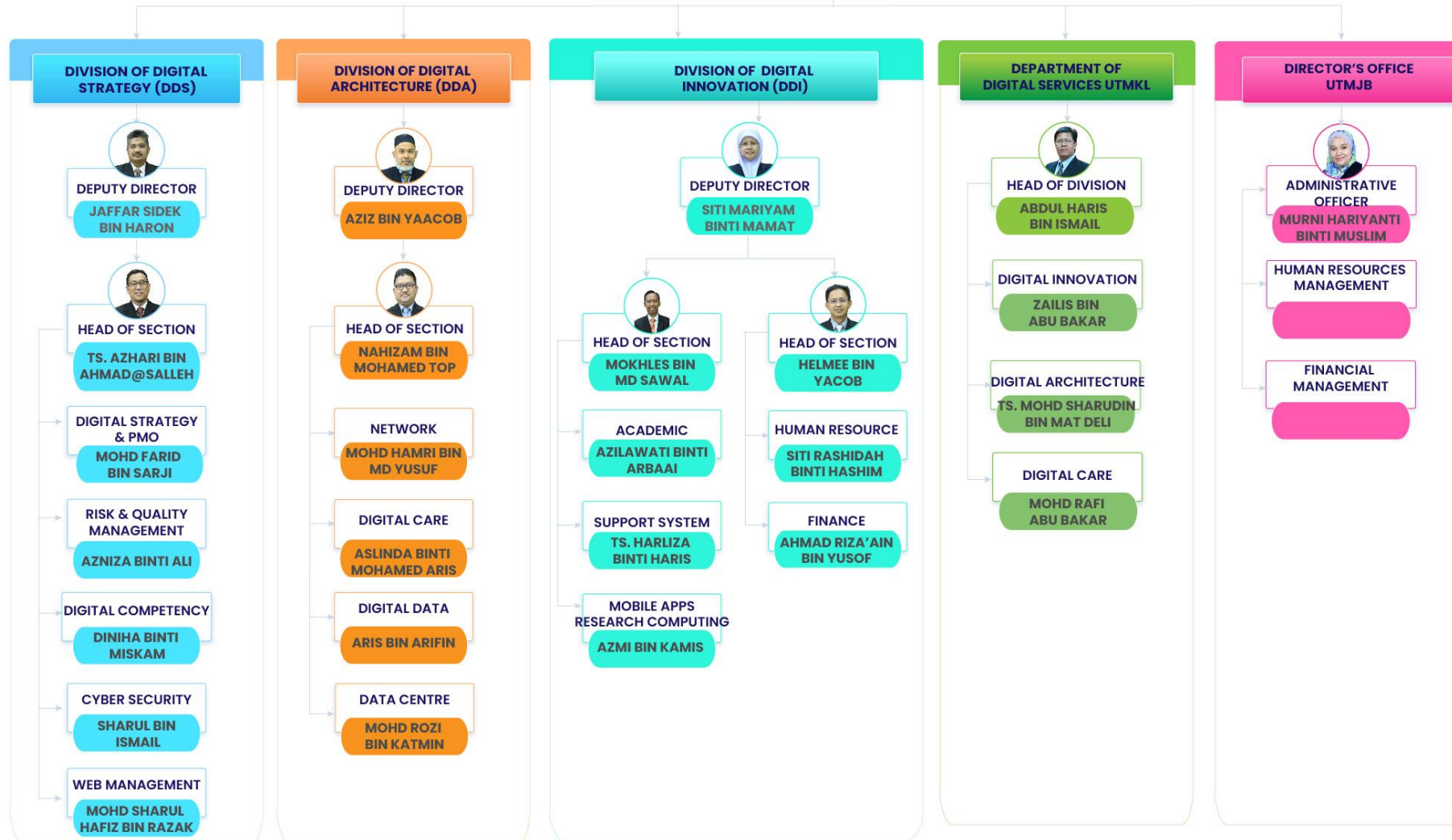
Innovating Solutions

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01 INTRODUCTION

02 SKILLS NEEDED TO SUCCESS IN IT FIELD

03 TAKE AWAY LESSON



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Technical Skills



PROGRAMMING LANGUAGE

C, C++, C#, Python, Java, Php



VERSION CONTROL

Github, GitLab



DEVELOPMENT TOOLS

Visual Studio, VSCode, Sublime



DATABASE STRUCTURE

Tables, Column, Primary Key, Indexes,
Relationships, Schemas, Constraints



DEBUGGING SYSTEM

Identifying and fixing issues



SECURITY AWARENESS

SQL Injection, Cross-Site Scripting (XSS),
Cross-Site Request Forgery (CSRF)



ANALYTICAL & LOGICAL SKILLS

Strong grasp of algorithms and data
structures



SYSTEM FRAMEWORK

.Net, Laravel, Yii

Management Skills



PROBLEM SOLVING

Critical in the **planning** and **analysis** phases to assess business needs and identify the best system solutions.



TECHNICAL SKILLS

Essential in the **design**, **development**, and **testing** phases to collaborate with developers and assess technical feasibility.



Communication Skills

Critical in the **requirements gathering**, **planning**, and **implementation** phases to bridge the gap between stakeholders, developers, and end-users.



Knowledge of SDLC Methodologies

Guides participation in different types of SDLC approaches (Waterfall, Agile, KanBan, DevOps, etc.).



Testing and Quality Assurance (QA) Skills

Essential during the **testing** phase to validate system performance.



Risk Management

Important during the **design** and **implementation** phases to anticipate potential issues.



Documentation and Reporting

Required throughout the lifecycle to ensure clarity and maintain project alignment.



Leadership and Team Collaboration

Important throughout all phases to coordinate and align team efforts.

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Be Brave To Challenge Yourself

“

Life begins at the end of your comfort
zone.

”

Never Stop Learning

“Live as if you were to die tomorrow. Learn as if you were to live forever.”

THANK YOU



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