



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

SKILLS IN UNIVERSITY AND INDUSTRY

1 Technical Skills



2 Management Skills

3 Communication Skills



4 Leadership

5 Problem Solving



6 Logical Skills

ASSIGNMENT 3 : ACADEMIC WRITING

INDUSTRY TALK: SKILLS IN UNIVERSITY AND INDUSTRY

GROUP : KETECHKI

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SKILLS IN UNIVERSITY AND INDUSTRY

Mr. Mohd Hakimi Iqmall, Mr. Nik Mohd Habibullah
Universiti Teknologi Malaysia

Speaker 1: Mr. Mohd Hakimi Iqmall

Mr. Mohd Hakimi Iqmall, a 2018 graduate of Universiti Teknologi Malaysia (UTM) in Computer Science (Graphics and Multimedia), has grown from a dedicated student to a key leader at UTM Digital. With a strong academic foundation, including a diploma in Computer Science (Multimedia), he now excels as a systems analyst and project manager. His notable contributions include the LFPT workforce movement tracker and advanced academic management tools, reflecting his commitment to innovation and effective solutions.

Innovation Projects and Roles

1. Kingdom Ran



<https://images.app.goo.gl/bfbwFpf7i9btPnmh6>

Company: Okakichi Sdn Bhd

Role: Game Programmer

Responsibility: Game Animator

2. RADIS 4.0

Company: UTM Research Computing

Role: System Programmer.

3. ICESys

Company: UTM Research Computing

Role: System Programmer

Essential Skills for Success in the IT Field

i. Technical Skills

a)Programming Languages: Developing a strong understanding of programming logic is essential in learning new languages efficiently. Continuous practice are critical to establish a solid foundation.

b)Version Control: Mastery of version control tools is vital for managing code versions.

c)Development Tools: Familiarity with advanced coding tools enhances productivity and help in the system development process.

d)Database Structure: A thorough understanding of database concepts is required for successful system development. Active participation in lectures and seeking clarification on complex topics are important.

e)Debugging Systems: Strong debugging abilities are essential to quickly identify and resolve system issues, contributing to timely project completion and improved software reliability.

f)Security Awareness: Awareness of security vulnerabilities such as SQL injection and employing best practices ensures the development of secure applications.

g)Analytical & Logical Skills: Advanced analytical and logical reasoning skills are vital for efficient problem-solving, reducing the time required to troubleshoot and implement solutions.

h)System Frameworks: Staying current with industry advancements through networking with industry professionals is important for continuous learning.

ii. Management Skills

a)Problem Solving: Ability to navigate challenges during project execution is critical for project success.

b)Technical Knowledge: Staying updated with emerging technologies is to maintain a competitive edge.

c)Communication Skills: Effective communication of technical concepts and system functionalities to clients and stakeholders is crucial for project success.

d)Knowledge of SDLC Methodologies: Understanding Software Development Life Cycle (SDLC) methodologies allows for the selection of appropriate strategies for system development.

e)Testing and Quality Assurance: Comprehensive testing and quality assurance are essential to prevent unexpected system failures and ensure product reliability.

f)Risk Management: Proactive risk assessment and mitigation are integral to minimizing potential disruptions and ensuring project stability.

g)Documentation and Reporting:

Maintaining thorough documentation and clear reporting throughout the project lifecycle ensures alignment and successful outcomes.

h)Leadership and Team Collaboration:

Strong leadership fosters a productive work environment. Building positive relationships with team members enhances collaboration and project efficiency.

Speaker 2: Mr. Nik Mohd Habibullah

Mr. Nik Mohd Habibullah, a 2005 UTM graduate in Computer Science (Graphic Design), started his journey by creating video montages for the UTM Digital Library. This early experience inspired his entrepreneurial path and led to the creation of companies such as NIS Solution, Micro Semiconductor Sdn. Bhd. and GetMe Hired, which helps freshers prepare their resumes. His work includes AI systems, cloud-based solutions and government projects, with a focus on practical technology applications. Despite the challenges, he remains focused on inspiring future entrepreneurs to identify opportunities and adapt to market needs.

Established Companies:



Job Application Flow: The IRPA Method

The IRPA Method is a strategic approach for job seekers to align their career aspirations with suitable employment opportunities. The process consists of four key stages:

1. Identify

- Define your desired job role and target industry.
- Engage in self-reflection to clarify career objectives and personal goals.

2. Research

- Investigate the job industry and specific organizations of interest.
- Gain insights into company cultures, job expectations, and industry developments.

3.Prepare

- Develop a customized or general resume/CV tailored to job requirements.
- Highlight relevant skills, achievements, and experiences that align with prospective roles.

4. Apply

- Submit applications through job portals and professional emails.
- Maintain professionalism and adhere to application guidelines for optimal results.

The IRPA Method is designed to help job seekers systematically navigate the job market. By focusing on self-awareness, industry research, tailored preparation and strategic application, individuals can significantly enhance their chances of securing positions that align with their skills and professional aspirations.

REFLECTION

Nabiha: From this talk, I'm determined to enhance my soft skill and excited to join as many program that would help me to gain experience and knowledge in network.

Asyera: This talk made me realize that success in Computer Science requires gaining practical experiences through projects and programs, as well as actively seeking guidance and stay engage in learning process.

Ainur: I aim to strengthen my technical abilities especially in programming and problem-solving, while developing my skills in project management and teamwork with the goal of contributing to innovative technology solutions in the future.

Akram: From this talk, I learned the importance of strong skills in both technical and soft and continuous learning new technologies to stay compete in the ever evolving IT industry.

Abdul: This talk has made me realize the importance of programming and software projects, it drives me and motivates me to open my laptop and work on the projects I didn't complete.