

SUBJECT NAME: TECHNOLOGY AND INFORMATION SYSTEM

SUBJECT CODE: SECP 1513

SEMESTER: SEMESTER 1

TITLE: SKILLS IN UNIVERSITY AND INDUSTRY

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SUBMITTED DATE: 2 JANUARY 2025

## **COMMENTS:**



## Introduction

The first speaker, Mr. Mohd Hakimi Iqmall is a UTM alumnus who currently works at UTM Digital. He introduces the deputy and employees in each department and provides an overview of UTM Digital. He introduces the three people who make up his team and work with him. He talks about his educational history and his enthusiasm for the topic of computer technology. He then goes on to discuss his employment history, which began in 2017 at ME-Tech Solution SDN BHD and ended in 2021 at UTM Digital. Next, He talks about his experience working as a game programmer with the responsibilities of becoming a game animator at Okakichi Sdb Bhd, a Japanese company. He developed numerous systems while employed at UTM Digital from 2021 until now. He developed several programs, including Payroll 2.0, SSPA System, Integrity System, and numerous others.

He then discussed the abilities required in the field of computer science. First, He talks about technical capabilities such database structure, debugging systems, version control, development tools, security awareness, logical and analytical abilities, system framework, and programming language. For example, he emphasized the importance of understanding programming languages like C, C++, Python and Java. He also highlighted the need for familiarity with version control systems like GitHub and GitLab, development tools such as Visual Studio, VSCode, and Sublime, and a strong grasp of database structures, including tables, columns, primary keys, indexes, relationships, schemas, and constraints. Additionally, he pointed out the importance of debugging systems, security awareness (e.g., understanding SQL injection, cross-site scripting, and CSRF), and analytical and logical skills such as a strong grasp of algorithms and data structures. He asserts that in order to be powerful and robust in this area of computer science, we must possess a solid foundation in programming.

After that, he talks about management skills such as problem solving, technical skills, communication skills, knowledge of SDLC Methedologies, Testing and Quality Assurance(QA) skills, Documentation and Reporting and leadership skills and team collaboration. Specifically, he explained how problem-solving is critical during the planning and analysis phases, while technical skills are essential for design, development, and testing. He also highlighted the importance of communication skills in requirements gathering and implementation phases to bridge the gap between stakeholders and developers. Knowledge of SDLC methodologies like Waterfall, Agile, Kanban, and DevOps was discussed, as well as the role of QA skills in validating system performance. Furthermore, he emphasized the importance of risk management during design and implementation, effective documentation and reporting throughout the project lifecycle, and leadership skills to coordinate and align team efforts. He asserts that in order to improve communication with other parties should we ever need to lead a project, we must acquire soft skills throughout our college years. Lastly, His favourite quotes is "Life Begins At The End Of Your Comfort Zone".

Next second speaker,Mr.Nik Mohd Habibullah who also UTM alumnus graduate in 2005 who right now are entrepreneurship that managing many enterprise companies like GetMeHired,Dialysis Manager,NI solutions and Micro Semiconductor.Firstly,He introduced and explain in details about all his enterprise companies based on what services provided and target market.As example,GetMeHired that focuses making curriculum vitae for undergraduate students who seeking a job.Other than that,like Dialysis Manager is the one information management system in dialysis department.Moreover,He share his exprience about his final year project that He develop one system that make catalogue for thesis in UTM libary system.After that,He share about seeking a job aspect by starting about analyse what our

passion,strength and weakness in deciding which job we want to apply. He also address that we could not limit ourselves with what degree certificate we have by we also could seeking a job that is not same with degree certificate but it still related.

Additionally, he also emphasizes creating polished, well-structured resumes that highlight accomplishments effectively and arranging documents in user-friendly formats to ensure application readiness. This ensure candidates are fully equipped and make a strong impression from the employers.

## Reflection

According to Alisya's reflection, this industrial discussion taught me a lot about the abilities I need to develop if I want to stay in the computer science profession. I have a lot to study during this degree program in order to become a better programmer in the future. I have to learn something new and leave my comfort zone in order to gain fresh knowledge. In addition, I must possess soft abilities in communication and situational and interpersonal management.

From Asyik's point of view,this industrial talk give I clear picture what skills and abilities as computer science students to develop on themselves before entering profesional career. Moreover, this opened my view that learning computer science not just about learn about programming language but also we need to polish or train our critical thinking, communcation skills, work in team and problem solving skills. Lastly, I get to know what are important aspects in job seeking because making decision in choosing career is the big decision in our life.

According to Hui Zhen's reflection, the industry talk gave me a better understanding of the skills needed to succeed in computer science. I learned that technical skills like programming and cybersecurity are essential, but soft skills such as communication, teamwork, and problem-solving are equally important. I also realized that to stay competitive, I must keep learning and challenge myself by stepping out of my comfort zone. Over the next four years, I plan to focus on improving both my technical and soft skills. I will work on projects, collaborate with others, and stay updated with new technologies.

According to Alia's reflection, after attending the industry talk, it gave me so much awareness about the technology industry and the importance of building a strong basic in computer science. The hands-on skills are very crucial to practice while studying to make sure I can ace if I ever consider to work in the computer science industry. Moreover, I realized that I have to identify an area of my interest in early stages to focus on and participate in a lot of programs such a hackathon and others so I will have more experience and learn a lot from those who mastered in this particular industry.

## Reference

Home. (n.d.). Academic Phrasebank. https://www.phrasebank.manchester.ac.uk/

How to write in an academic style. (n.d.). The University of Sheffield. https://www.sheffield.ac.uk/study-skills/writing/academic/style