ASSIGNMENT 3: ACADEMIC WRITING

TECHNOLOGY INFORMATION SYSTEM (SECP1513)

2024/2025 Semester 1

<u>INDUSTRIAL TALK:</u>

<u>SKILLS IN UNIVERSITY AND INDUSTRY</u>

SPEAKER:

	Designing Success: Mr. Mohd Hakimi Iqmall Pegawai Teknologi Maklumat UTMDIGITAL	
	Preparing for Entrepreneurship in IT: Mr. Nik Mohd Habibullah Ketua Pegawai Eksekutif Micro Semiconductor Sdn Bhd.	

LECTURER'S NAME: DR. MUHAMMAD IQBAL TARIQ BIN IDRIS

SECTION: 03

NO	GROUP MEMBERS	MATRICS NUMBER
1	AHMAD WILDAN BIN MAZANI	A24CS0222
2	SYARAH AQILAH BINTI YA'ACOB	A24CS0195
3	MUHAMMAD ALIFF BIN HELMI	A24CS0272
4	NURIN IFFAH BINTI AHMAD BORHAN	A24CS0289
5	LEE JUN LER	A24CS0261

DESCRIPTION OF SPEAKER EXPERIENCE

Mr. Mohd Hakimi Iqmall - Currently work as Project Manager and once become a System Analyst at UTM Digital. Mr. Hakimi is alumni of UTM and completed his Degree in Computer Science (Graphic & Multimedia) in UTM JB. Strengthening the fundamental of computer science in the first year of studies. Able to use GitHub optimisely after encountering a coding issue of gaming product during internship at the Okakichi Sdn. Bhd. And adapt to the supportive Japanese working culture. Practising a good relationship with the lecturers in order to keep blessed. RAIDS 4.0, Payroll 2.0 and Integrity System are some of his excellent projects.

Mr. Nik Mohd Habibullah - Successfully establish several companies NI Solution, Micro Semiconductor Sdn. Bhd., and DatSINI which is collaborated with UKM. A student that is actively involved in co-curricular activities. The speaker had an experience in Management in Information Systems. The DatSINI create some products included GetMe Hired which is for recruitment solution and Dialysis Manager as a healthcare management tool. First Project on Montage for UTM Convocation launch by UTM Library.

BASIC SKILLS REQUIRED FOR COMPUTER

The field of Computer Science is built on a foundation of essential basic skills that enable individuals to solve complex problems, develop software, and analyse data. These skills are also not for academic success solely but also serve as a stepping stone for future practical application in the industry.

As for mastering the basics of Computer Science, the crucial part of it can be separated into two categories: technical and management skills.

On the technical side, proficiency in programming language such as C++, Phyton and Java serves as the core of a software development. In addition, Debugging System is widely use when there's an issue or a bug that occur in the system. These skills help you to identify the problems quicker and generate the right solutions to it. Analytical and Logic Skills also an important skill as its need to have a strong understanding of algorithms and data structures that is critical for problem solving. Other than that, a Version Control tools like GitHub are important for tracking changes in a collaborative project that required team-up and ensuring a proper documentation. (Cormen, Leiserson, Rivest, & Stein, 2009)

SKILLS REQUIRED BY INDUSTRY

Beyond technical skills in industry, management skills like problem-solving, communication, and familiarity with Software development Life Cycle (SDLC) helps to ensure that the problem encountered can be planned properly so that it can be addressed strategically. Leadership and Team Collaboration also vital for group work assignment and can be contributing effectively for discussion.

In the other hand, IRPA method, as known as Soul-Searching is a specialize skill required for both jobs searching or entrepreneurship for industry. 'I' represent Identify requirements and your choice before beginning. This makes people refines their choices and ensure suitability. For instance, job seekers identify their strength and weakness before apply a career. 'R' represents Research the prospect of industry. Entrepreneur should do research on background, environment, future of an industry to enhanced efficiency. 'P' represents Prepare the vital requirements before apply. Prepare is important for countermeasures while emergency. For example, undergraduate student should prepare their own portfolio and resume for future career. 'A' represents Apply in multiple ways. Apply is the most important things to make sure personal preparation publish to others. Beside that IRPA method, technical skills and soft skills still important in an industry. Such as communication skill and programming skill are the foundation to survive in a computing industry. (Kessler, 2012)

REFLECTION

AHMAD WILDAN BIN MAZANI - I will seek internships and hands-on projects to complement my academic knowledge by doing engaging in real-world challenges will help me build problem-solving skills and gain industry insights.

LEE JUN LER - First, I will effort a lot to study and excel my academic, then I willing to join various kind of program organized by UTM or other companies to enhance my industry skills and skills required for computer.

SYARAH AQILAH BINTI YA' ACOB - To secure success in computer science over the next four years, I need to master many technical skills, especially coding. I plan to learn lots of new programming languages as they will be helpful for my future. Additionally, I will work on mastering soft skills like communication and socializing by participating in university events, as they are equally important for enhancing my personal growth.

NURIN IFFAH BINTI AHMAD BORHAN - The speakers' experiences have inspired me to focus on holistic development in Computer Science. I plan to enhance my technical skills, leadership, and teamwork while applying the IRPA method to guide my decisions. Their insights motivate me to embrace continuous learning and adaptability for future success as a data engineer.

MUHAMMAD ALIFF BIN HELMI - This talk has opened a new perspective to me in how the basic skills really important to us as it a foundation to achieve our preferred career. I would like to enhance these skills as it would help me survive in the industry that I would one day be working on.

REFERENCES

Cormen, T. H., Leiserson, C. E., Rivest, R. L., & Stein, C. (2009). *Introduction to algorithms* (3rd ed.). The MIT Press. https://mitpress.mit.edu/books/introduction-algorithms

Kessler, S. (2012). *The lean entrepreneur: How visionaries create products, develop brands, and become bestsellers*. Wiley. https://www.wiley.com/en-us/The+Lean+Entrepreneur%3A+How+Visionaries+Create+Products%2C+Develop+Brands%2C+and+Become+Bestsellers-p-9781118022917