



UTM
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FACULTY OF COMPUTING
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Task : ACADEMIC WRITING on
INDUSTRIES TALK 2

Title : SKILLS IN UNIVERSITY AND
INDUSTRY

TOPICS : Speaker's Experience, Basic
Skills Needed to Success in IT Field and
Industry

LECTURE : DR PANG YEE YONG

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TALK IS GIVEN BY:

UTM **MS**
UNIVERSITI TEKNOLOGI MALAYSIA Micro Semiconductor Sdn Bhd [902658 - W]

INDUSTRIAL TALK

Encik Nik Mohd Habibullah
Ketua Pegawai Eksekutif
Micro Semiconductor Sdn Bhd.

Encik Mohd Hakimi Iqmal
Pegawai Teknologi Maklumat
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The talk, conducted by Encik Mohd Hakimi Iqmall and Encik Nik Mohd Habibullah on December 17, 2024, highlighted the major skills a person should have to be successful in the IT field. Both guests shared their experiences after graduating from Universiti Teknologi Malaysia, majoring in Computer Science, specializing in Graphics and Multimedia. Encik Mohd Hakimi Iqmall used to work at ME-Tech Solution Sdn Bhd and Okakichi Sdn Bhd and is currently working at UTM Digital.

Meanwhile, Encik Nik Mohd Habibullah has also given his contribution with experiences at NI Solution and Micro Semiconductor Sdn Bhd to the development of such notable products as GetMe Hired and Dialysis Manager.

As students of computer science, the mastery of both hard and soft skills is very important. The student will be able to solve computational problems, develop applications, and optimize the performance of a system by utilizing algorithms and data structures with at least one programming language like C++, Python, or JavaScript. Productivity is enhanced when knowledge of development tools such as VSCode is available, since it opens up the usage of extensions and integrated debugging. Version control systems like GitHub and GitLab are used to manage code changes and enable teamwork. Moreover, debugging skills are necessary to find and fix bugs, and cybersecurity awareness is about protecting the systems from different kinds of threats that could bring losses in data and finance.

Equally important are soft skills, which are collaborative in nature and improve communication. Problem-solving skills help programmers identify business needs, understand challenges, and develop appropriate solutions. Strong communication skills help bridge gaps between stakeholders, developers, and end-users throughout the project life cycle. It means that testing and quality assurance are performed to ensure the workability of the products, whereas documentation and reporting ensure clarity and alignment through comprehensive project plans, user manuals, and specifications. Leadership and collaboration teams enable teamwork, motivation, and the exchange of ideas crucial for achieving project success.

By integrating technical skills with interpersonal ones, computer science students will be able to adapt to challenges, creatively solve problems, and contribute to a positive and functional work environment in the IT field.

REFLECTION

The talk by encik mohd hakimi emphasize that as student who are involve in computer science area must conquer both soft skills and hard skills. It's to make sure that students can solve any kinds of computational problems, and developing something fast and more efficient. Students also need to master in programming language in order to handle algorithms and data structure effectively. Besides, problem-solving skills and teamwork also important to make sure the objective is fulfilled, the task is properly done and managing to helps complete the bridge gaps between each others in order to finish the task given.

(MUHAMMAD ARIF BIN MUHAMAD SUHAIMI)

Technical skills like programming and using tools are important for solving problems, while soft skills like teamwork and communication help in working well with others. This inspires me to improve in both areas to succeed in the future.

(MUHAMMAD MUSTAQIM BIN ABD BAKI)

The talk made me realize that hard skills is very important on this course, debugging error or coding is the skills i need to master to achieve a flying colours result. Not only that, i also need to master my soft skills which is communication skills and also problem solving skills. Thanks for the talk, i already set my goals what do i need to achieve by the end of my graduation. I will try to focus on leadership skills and teamwork since it is very important when we are having a project.

(MOHAMMAD YAZID BIN MOHD KHAIRUDDIN)

The talk by Encik Mohd Hakimi Iqmall and Encik Nik Mohd Habibullah explained the skills needed for success in IT, especially for computer science students. They said both technical and soft skills are important. Technical skills include knowing programming languages, using tools like VSCode, managing code with GitHub, and understanding cybersecurity. These help with solving problems and making systems secure. Soft skills are also needed. Problem-solving, communication, leadership, and teamwork are key for working well with others and completing projects. Having both technical and soft skills helps students succeed in the fast-changing IT field. In conclusion, the talk reminded students to develop both types of skills to do well in IT.

(MUHAMMAD AZAN ADDIN BIN JAMAL)