



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

SCHOOL OF COMPUTING
Faculty of Engineering

Industrial Visit 1 – CICT UTM

SEMESTER 1 SECTION 01

SCSP 1513

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EXECUTIVE SUMMARY

On 1 October of 2018, a talk has been given by Encik Mohd Zahari Bin Zainal Abidin who is officer assistant of information technology in CICT. The talk was attended by about 90 students from the school of computing because it can inspire students to be open-minded in technology nowadays. The talk was based on how the CICT was created and developed from day to day. CICT didn't just store the information of students but they also developed many applications for students and lecturers to make learning way more fun and efficient.

INTRODUCTION

History of CICT

Centre for Information and Communication Technology (CICT) was established on 1975. In the beginning, it is used to process staff's salary and for that time they just use mainframe system IBM 390. They also help other agencies to process the information of examination like Sijil Tinggi Pelajaran Malaysia (STPM) and Sijil Pelajaran Malaysia (SPM) and intake of new teacher. Then, in 1981 Department of Computer Science was created and combined with Computer Centre become Computer Science Division, Faculty of Science. Next, in 1984 Computer Science Division was upgraded to Computer Science Institute (ISK). In 1988, computer centre in Johor Bahru campus was placed for a while in the build architecture faculty then in 1990, the mainframe is improved with the use of IBM 3090-12J. The addition system in CICT is student's information system, student's financial system, student's examination system and timetable system. In 1991, ISK are structured to Faculty of Science Computers & Information Systems (FSKSM) and UTM Computer Center (PKUTM). In 1992, it increase capability in computer network system (The use of e-mail by network BITNET). Lastly, in 2004 Computer Centre is known as Centre for Information and Communication Technology (CICT).

Objective of CICT

First and foremost, CICT increase the competence in university communities. Besides, it extends the use of information technology in the all university activities. Then, CICT also provide secure ICT infrastructure and facilities. Other than that, CICT become a referral center in service and implementation of university ICT. Last but not least, it explore the new technologies in service and implementation of ICT. CICT is responsible for ensuring that staffs and students have access to teaching, learning and research ICT resources by providing University's IT infrastructure.

Organization Structure



Figure 1

CICT is directed by Professor Muhaya Doctor Mohd Shahizan Othman and then divided by four deputy director which is Dr. Mohd Murtadha Mohammad as deputy director ADM, Dr. Syed Norris Hikmi Syed Abdullah as deputy director IOM, Encik Samsudin Nyat as deputy director SM and Nik Kamal Izuddin Nik Ibrahim as deputy director CICTKL. CICT organization structure then divided by other team like IT manager, application development management and infrastructure & operation management.

Services that provided by CICT

Firstly, CICT provides communication infrastructure ICT throughout the campus. Next, CICT provide equipment infrastructure facilities computer and server in the university. Moreover, CICT developed and maintain the applications of the university for staff and students. Lastly, CICT provide General Software and ICT Consultancy to the university.

Information Systems that CICT develop and maintain

As we know, CICT has provide a lot of facilities to student and staff. Some of them are e-learning, UTM smart, UTM bus tracker and GuideMe. E-learning is a program that created by CICT to easy the student in learning process. For example, student need to submit their assignment through the portal. This is easier the lecturer as well the student. UTM smart used to record student attendance using their smartphone. UTM bus tracker used to track the buses around UTM and its more easier to students go to their faculty. GuideMe application was used by first year student to know about the University.

Parts in CICT

| PARTS OF CICT | DESCRIPTION |
|----------------------------|---|
| Service and Infrastructure | Providing the latest ICT infrastructure at optimum costs. |
| ICT Security | Managing ict policies, performing testing and auditing. |
| Operation | Provide service support and manage all the processes involved. |
| Academic of Computing | Support academic activities through multimedia technology as well as Advanced Computing (HPC). |
| Web and Multimedia | Provide multimedia services to university administrators. |
| Application Engineering | Develop an application system according to standards and provide reliable information and safe. |
| Corporate Planning | Provide resource management services competent human development with university aspirations. |

Table 1

ACHIEVEMENT OF CICT

CICT has achieve a lot of achievement in the throughout of establishment. Some of them are administration application setup, staff Information System (HRFIN), financial Information Systems (HRFIN), student Information System (AIMS) and Student Intake, E-Meeting system, executive Information System, (BI), time Recorder System and Leave System, damage Reporting System, publisher System, discipline System, clinic system and Alumni and Convocation system and robe collection.

Other than that, ict facilities for students such as Available Software consist of Final Cut Pro, DVD Studio Pro, Pro Track Sound, Color, Aperture, Movement, iWork, iLife, Adobe Suite, Roxio Toast and SDK.

REFLECTION

As for the reflection, our goal for our regarding course which is bioinformatic is we will be able to design and construct computer programs through the programming techniques that we have learn in the course. Other than that, we also can have an ability to think critically and creatively in order to solve real world problem. Next, we should be able to identify, formulate and solve real world bioinformatics problems through principles and methodologies. Beside, CICT also help us in keeping our laptop free from the virus by creating an antivirus software, so, this will keep us rest assured when we does not have to worry our work and other important information lost because of the virus.

We can see that for our field, we get to access a lot of market since most of other university get to refer to our referral center in service and implementation. They manage to get a lot of information from our CICT. This visit also open up or mind in thinking the way creative on how do people developing new application that would help others. From the talk, En Zahari also said that many improvement has been made, for example the mainframe nowadays are made more reliable and smaller in size than before. It would not consume a lot of space in our device,so, we can save more space for other application in our devices.

To improve our potential in this industry, basically it's all based on our programming techniques that's why we have to master it by hook or by crook. We have to think more creative so that we can come up with new innovation to help other students in learning to identify, formulate and solve problems in bioinformatics. CICT have provide us an antivirus software, we need to use it since it is exclusively designed for UTM's students and staff. We do not need to afford for the license fee like other antivirus.