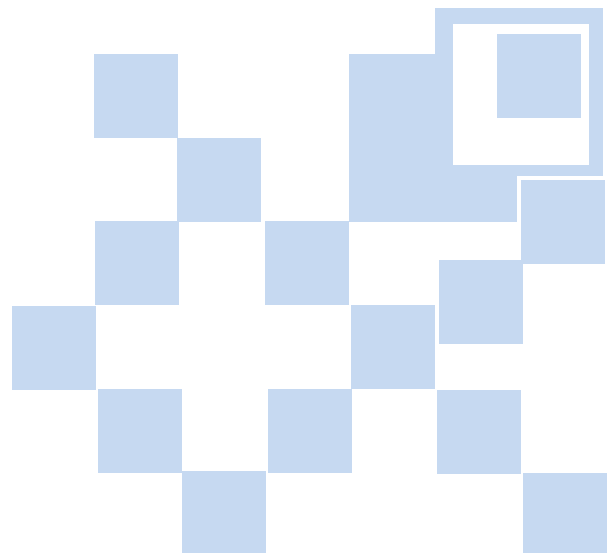


## STUDENT MOBILITY PROGRAMME



Faculty of Computer Science and Information Technology (FCSiT)

# A GUIDELINE FOR BACHELOR OF COMPUTER SCIENCE (OUTBOUND)



**Students in FCSiT are encouraged to grab the chances to have additional educational experiences to enroll academic courses from outside universities!**

---

# **STUDENT MOBILITY PROGRAMME: A GUIDELINE FOR BACHELOR OF COMPUTER SCIENCE (OUTBOUND)**

---

First Edition (2016)

Authors:

Razali Yaakob  
Thinagaran Perumal  
Pathiah Abdul Samat  
Azrul Hazri Jantan  
Amir Rizaan Abdul Rahman

Co-authors:

Norwati Mustapha  
Hazura Zulzalil  
Zurina Mohd Hanapi  
Mas Rina Mustaffa

**Faculty of Computer Science and Information Technology  
Universiti Putra Malaysia**

# Table of Contents

---

1.0 Introduction

2.0 Objective of the Programme

3.0 Types of Mobility Programme

4.0 Program Requirement

5.0 How to Apply

6.0 Assistance Provided By UPM

7.0 Recommended University

8.0 Contact Person

9.0 Acknowledgement

## **1.0 Introduction**

Student mobility and accompanying academic recognition are assumed to be necessary prerequisites for a dynamic student with an international outlook that will aid towards country's effort to globalize and expand the outreach of labor market. However, for students to participate in such programme, they need adequate access to the financial resources and support to enable them to study abroad. UPM offers student a mobility programme that meet the needs of international students who wish to spend a single semester or one full academic year of study in Malaysia. It also gives a similar opportunity to UPM students who wish to experience studying at academic institutions abroad. Student Mobility Program (Outbound) provides opportunities for students to gain experience of UPM education by following an academic program offered at universities in and outside Malaysia.

Mobility programme involves the exchange of university students and internship. The programme involves enrolling certain subjects and part of it involves the transfer of credit hours.

The main purpose of this guideline book is to ease the students in applying for mobility programme. Thus, the focus of this guideline is for those who would like to undergo the exchange programme (1 or 2 semester).

## **2.0 Objective of the programme**

Objective of the mobility programme as below:

- i. Expanding the educational experience for UPM students;
- ii. Provide opportunities for students to understand their field of interest;
- iii. To enable students to practice what they have learned and experienced;
- iv. To train students as ambassadors for UPM and Malaysia ;
- v. Gain knowledge and brighten UPM students to become competent graduates, the originator of science and scholarship catalyst respected.

## **3.0 Types of Mobility Programme**

There are five types of mobility programme as below:

- a) Exchange programme (1 or 2 semester) only.
- b) Short term programme (2 weeks or more)
- c) Internship programme (2 weeks to 6 months)
- d) Industrial Training / Research (2 weeks or more)
- e) Visit (less than 2 weeks)

Focus of this guideline is for exchange programme only.  
It is advisable that the applicant start apply the programme from Semester 1 on second year of your studies.

#### **4.0 Program Requirement**

Students must fulfil the following requirement below before they can apply for the mobility programme:

- i. The programme has academic elements and creditworthy;
- ii. Non-final year full time undergraduate student;
- iii. Getting the approval of the faculty ;
- iv. Undergraduates and postgraduates students of UPM ;
- v. Malaysian;
- vi. CGPA 3.0 and above;
- vii. Active in extra-curricular activities;
- viii. Good command of English language.

#### **5.0 How to Apply**

There are several steps the applicants must follow before can undergo the mobility programme. The steps are as below:

- i. Secure a place at institutions within or outside the country;
  - Student can refer to section 7.0 for recommended university
  - Student must discuss with any representative of the department (refer section 8.0).
  - Identify the person in-charge (exchange programme) at the host institution.
  - Check the requirement before make any decision.
- ii. Request a letter of support from the faculty;
  - Get a support letter from the Dean through faculty Assistant Registrar (refer section 8.0).
- iii. Request letter from the host institution;
  - Prepare a CV (at least) and transcription of past exam results (year 1 and year 2 results).
  - Submit the softcopy of the CV and transcript (plus support letter) to any representative of the department and they will submit to the international office host institution.
- iv. Fill out the application form student mobility, credit transfer forms and insurance forms. While waiting the respond from the host institution, fill in the form:
  - Application Form For Study Abroad (Outbound) (OPR/BA/BR03/Application) attach a copy of passport (if

- available), a copy of your academic transcript (latest transcript) and a copy of offer letter/letter of approval from host university.
- Application Form For Transfer of Credit Between Institutions (Outbound) (OPR/BA/BR03/Transfer) attach the host university approval letter to offer courses.
  - Insurance forms.
- v. Submit the completed application (with required attachments ) to the faculty;
- Once receive the offer letter from the host institution, submit the form and all the requirements to Faculty Assistant Registrar as soon as possible. Faculty will send the application form to the International Division UPM.
- vi. Wait for the results of the Mobility Committee meeting, UPM.

## **6.0 Assistance Provided By UPM**

Eligible students will be given the following assistance:

- Return flight ticket (max. RM5,000)
- Pocket money (minimum RM250.00 and above depends on duration of the programme)
- Travel Insurance

## 7.0 Recommended University

University Name: Ajou University, KOREA.

URL: <http://www.ajou.ac.kr/en/international/inter21.jsp>

Description: List of the courses below is for third year students onwards.

---

Code	COURSE TITLE ( <i>EQUIVALENT COURSE OFFERED IN FSKTM</i> )	Credit	Period*	Year*
X557	*DOMAIN ANALYSIS AND SOFTWARE DESIGN ( <i>SSK4106 – DESIGN AND ANALYSIS OF ALGORITHM</i> )	3	Spring	
F068	*DISTRIBUTED SYSTEM DESIGN ( <i>SKR4401 – DISTRIBUTED SYSTEM</i> )	3	Fall	
X591	*SYSTEM PROGRAMMING ( <i>SSK3102 – EMBEDDED SYSTEM PROGRAMMING</i> )	3	Spring	
I017	MANAGEMENT INFORMATION SYSTEM ( <i>SIM4200 - SISTEM MAKLUMAT</i> )	3	Fall	
F049	SOFTWARE ENGINEERING ( <i>SIM3001-PENGENALAN KEPADA KEJURUTERAAN PERISIAN</i> )	3	Fall	
F065	DATA STRUCTURE ( <i>SSK 3117 - STRUKTUR DATA</i> )	3	Fall	

---

\*Subject to availability at host institution

University Name: Chonnam National University, KOREA.

URL: <http://international.jnu.ac.kr/eng/>.

<http://global.jnu.ac.kr/Academics/Program/Undergraduate.aspx>

Description: List of the courses below is for third year students onwards.

Code	COURSE TITLE ( <i>EQUIVALENT COURSE OFFERED IN FSKTM</i> )	Credit	Period*	Year*
	DATA STRUCTURES ( <i>SSK3118 - DATA STRUCTURE AND ALGORITHM</i> )			
	OPERATING SYSTEM ( <i>SSK3313-OPERATING SYSTEM</i> )			
	COMPUTER SYSTEM ARCHITECTURE ( <i>SSK4207-COMPUTER ARCHITECTURE</i> )			
	SOFTWARE DESIGN ( <i>SSE3304- SOFTWARE DESIGN</i> )			
	DATABASE SYSTEMS ( <i>SSK4401-DATABASE SYSTEMS</i> )			
	COMPUTER GRAPHICS ( <i>SKM3200- COMPUTER GRAPHICS</i> )			
	DIGITAL IMAGE PROCESSING ( <i>SKM4213- DIGITAL IMAGE PROCESSING</i> )			
	MULTIMEDIA APPLICATIONS ( <i>SKM3300- PEMBANGUNAN APLIKASI MULTIMEDIA</i> )			
	EMBEDDED SYSTEM DESIGN ( <i>SSK3102- EMBEDDED SYSTEMS PROGRAMMING</i> )			
	DISTRIBUTED SYSTEMS ( <i>SKR4401- DISTRIBUTED SYSTEMS</i> )			
	COMPUTER SECURITY ( <i>SKR4505 - COMPUTER SYSTEM SECURITY</i> )			
	COMPUTER NETWORKS ( <i>SKR3200 - COMPUTER NETWORK AND COMMUNICATION</i> )			
	EMBEDDED SYSTEM ( <i>SSK3102 - EMBEDDED SYSTEMS PROGRAMMING</i> )			
	ARTIFICIAL INTELLIGENCE ( <i>SSK4602 - INTELLIGENT COMPUTING</i> )			
	HUMAN INTERFACE DESIGN ( <i>SSE3306-HUMAN COMPUTER INTERFACE</i> )			

*\*Subject to availability*



University Name: Chung-Ang University, KOREA.  
 URL: [http://neweng.cau.ac.kr/04\\_international/courses01.php](http://neweng.cau.ac.kr/04_international/courses01.php)  
 Description: List of the courses below is for third year students onwards.

Code	COURSE TITLE ( <i>EQUIVALENT COURSE OFFERED IN FSKTM</i> )	Credit	Period*	Year*
20111	INTELLIGENT INFORMATION SYSTEM ( <i>SSK4613 - MACHINE LEARNING AND NEURAL NETWORKS</i> )	3	Fall	4
40453	ROBOTICS (Elective for Computer Network) ( <i>SSK4618 - ROBOTIC SYSTEM DEVELOPMENT</i> )	3	Spring	4
34586	COMPUTER SECURITY ( <i>SSK4505 - COMPUTER SYSTEM SECURITY</i> )	3	Fall	4
33676	CRYPTOGRAPHY (Elective for Computer Network) ( <i>SSK4507 - CRYPTOGRAPHY</i> )	3	Fall	4
5508	DATA COMMUNICATION NETWORK ( <i>SKR3200 - COMPUTER NETWORK AND COMMUNICATION</i> )	3	Spring	4
30670	MOBILE NETWORK (Elective for Computer Network) ( <i>SKR4205 - WIRELESS AND MOBILE NETWORK</i> )	3	Spring	4
14871	IMAGE PROCESSING ( <i>SKM4213 - DIGITAL IMAGE PROCESSING</i> )	3	Fall	4
34588	DESIGN OF GAME SOFTWARE ( <i>SKM3203 - COMPUTER GAMES ANALYSIS AND DESIGN</i> )	3	Fall	4

\*Subject to availability by host institution

University Name: *Inha* University, KOREA.

URL: [http://sugang.inha.ac.kr/sugang/SU\\_51001/curriculum.aspx](http://sugang.inha.ac.kr/sugang/SU_51001/curriculum.aspx)

Description: List of the courses below is for third year students onwards.

---

<b>Code</b>	<b>COURSE TITLE</b> <b>(EQUIVALENT COURSE OFFERED IN FSKTM)</b>	<b>Credit</b>	<b>Period*</b>	<b>Year*</b>
<b>CSE3207</b>	DATABASE <i>(SSK4601 - DATABASE SYSTEM)</i>	3	Semester 1	4
<b>CSE4201</b>	SOFTWARE ENGINEERING <i>(SSE3001 - INTRODUCTION TO SOFTWARE ENGINEERING)</i>	3	Semester 2	4
<b>CSE4301</b>	E-COMMERCE <i>(SIM4208 - ELECTRONIC COMMERCE)</i>	3	Semester 2	4
<b>CSE4302</b>	ARTIFICIAL INTELLIGENCE <i>(SSK4603 - MACHINE LEARNING AND NEURAL NETWORKS)</i>	3	Semester 1	4
<b>CSE4304</b>	IMAGE PROCESSING & UNDERSTANDING <i>(SKM4213 - DIGITAL IMAGE PROCESSING)</i>	3	Semester 1	4
<b>CSE4308</b>	COMPUTER SECURITY <i>(SSK4505 - COMPUTER SYSTEM SECURITY)</i>	3	Semester 2	4
<b>CSE4311</b>	DATABASE APPLICATION <i>(SSK3408 - DATABASE APPLICATION DEVELOPMENT)</i>	3	Semester 1	4

---

*\*Subject to availability at host institution*

University Name: Institut Teknologi Bandung, INDONESIA.

URL: <http://www.itb.ac.id/en/>

[http://www.itb.ac.id/education/ITB\\_undergraduate\\_handbook.pdf](http://www.itb.ac.id/education/ITB_undergraduate_handbook.pdf)

Description: List of the courses below is for third year students onwards.

---

<b>Code</b>	<b>COURSE TITLE</b> <b>(<i>EQUIVALENT COURSE OFFERED IN FSKTM</i>)</b>	<b>Credit</b>	<b>Period*</b>	<b>Year*</b>
IF3055	Operating System ( <i>SSK3313 – OPERATING SYSTEM</i> )	4	Semester 5	
IF3057	Information System ( <i>SIM4200 - INFORMATION SYSTEMS</i> )	3	Semester 5	
IF3097	Computer Networks ( <i>SKR3200 – COMPUTER NETWORK AND COMMUNICATION</i> )	3	Semester 5	
IF3099	Human Computer Interaction ( <i>SSE3202 - HUMAN-COMPUTER INTERACTION</i> )	3	Semester 6	
IF3054	Artificial Intelligence ( <i>SSK4613 - MACHINE LEARNING AND NEURAL NETWORKS</i> )	3	Semester 6	
IF3056	Distributed Systems ( <i>SKR4401 - DISTRIBUTED SYSTEMS</i> )	3	Semester 6	

---

*\*Subject to availability at host institution*

University Name: La Trobe University, AUSTRALIA.

URL: <http://www.latrobe.edu.au/study/exchange-and-study-abroad/exchange>.  
<http://www.latrobe.edu.au/students/subjects>

Description: List of the courses below is for third year students onwards.

---

Code	COURSE TITLE ( <i>EQUIVALENT COURSE OFFERED IN FSKTM</i> )	Credit	Period*	Year*
	DATA MINING ( <i>SSK4604 - DATA MINING</i> )			
	INFORMATION SYSTEMS ( <i>SIM4200 - INFORMATION SYSTEM</i> )			
	ALGORITHMS AND DATA STRUCTURES ( <i>SSK3118 - DATA STRUCTURE</i> )			
	DATABASE FUNDAMENTALS ( <i>SSK3408 - DATABASE SYSTEM</i> )			
	ADVANCED GAMES PROGRAMMING TECHNOLOGY ( <i>SKM3203 - COMPUTER GAMES ANALYSIS AND DESIGN</i> )			
	ARTIFICIAL INTELLIGENCE FUNDAMENTALS ( <i>SSK4602 - INTELLIGENT COMPUTING</i> )			

---

*\*Subject to availability*

English Requirement: TOEFL (<http://www.latrobe.edu.au/study/how-to-apply/international/english-and-academic-requirements/english-language-requirements>)

## 8.0 Contact Person

The students can contact any of the members from Student Mobility Unit and advisable to contact the department representative.

Table below shows the committee members of Student Mobility Unit

Chairman	Assoc. Prof. Dr. Razali Yaakob Room: C3.04 Tel.: 03-89471746 Email: razaliy@upm.edu.my
Assistant Registrar/ Secretary	Mrs. Farah Deena Zainol Room: Pejabat Dekan Tel.: 03-89471737 Email: farahdeena@upm.edu.my
Assistant Administrative Officer	En. Mohd Fauzi Mohd Yusof Room: Pejabat Dekan Tel.: 0389476570 Email: mohdfauz@upm.edu.my
Department Representative:	
Computer Science	Dr. Thinakaran Perumal Room: C1.63 Tel.: 03-89471751 Email: thinakaran@upm.edu.my
Multimedia	Dr. Azrul Hazri Jantan Room: C1.10 Tel.: 03-89471711 Email: azrulhazri@upm.edu.my
Software Engineering and Information System	Dr. Pathiah Abdul Samat Room: C3.19 Tel.: 03-89471756 Email: pathiah@upm.edu.my
Communication and Network Technology	Dr. Amir Rizaan Abdul Rahman Room: C3.03 Tel.: 03-89471770 Email: amir_r@upm.edu.my

## 9.0 Acknowledgement

We would like extend our appreciation to the following faculty members for their input and assistance in preparing this guideline book:

- Assoc. Prof. Dr. Norwati Mustapha
- Assoc. Prof. Dr. Hazura Zulzalil
- Assoc. Prof. Dr. Zurina Mohd Hanapi
- Dr. Mas Rina Mustaffa