

FAKULTI : FAKULTI KEJURUTERAAN KIMIA & KEJURUTERAAN TENAGA
TAJUK : PERMOHONAN PELANJUTAN NOTIS HANTAR TESIS DAN PELANTIKAN PANEL PEMERIKSA BAHARU

BUTIRAN PELAJAR	KETERANGAN PELAJAR	ULASAN DAN TINDAKAN FAKULTI	KELULUSAN																																																																		
<p>NAMA : RIHAB MOAWIA ALI MUSAAD</p> <p>NO K/P @ ISID : 201012F10275</p> <p>NO MATRIK : PK103047</p> <p>PROGRAM : DOKTOR FALSAFAH (KEJURUTERAAN KIMIA)</p> <p>JENIS PENGAJIAN : PENYELIDIKAN</p> <p>BENTUK PENDAFTARAN : SEPENUH MASA</p> <p>PENYELIA : PROF. DR. MOHAMED MAHMOUD EL-SAYED NASEF (MJIIT)</p> <p>BIL SEM: 13 /16</p> <p>STATUS : AKTIF</p> <p>MUKASURAT : 1/1</p>	<p>1.1 Notis Hantar Tesis pelajar telah diperakukan pada Mesyuarat JAPSU pada 28 Jun 2016</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <thead> <tr> <th>Bil</th> <th>Nama Calon Pemeriksa Dalam</th> <th>Perakuan Fakulti</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Prof. Dr. Ezzat Chan Abdullah</td> <td>Dilantik</td> </tr> <tr> <td>2</td> <td>Prof. Dr. Masafumi Goto</td> <td>Gantian</td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <thead> <tr> <th>Bil</th> <th>Nama Calon Pemeriksa Luar</th> <th>Perakuan Fakulti</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Prof. Dr. Rusli bin Daik (UKM)</td> <td>Dilantik</td> </tr> <tr> <td>2</td> <td>Prof. Dr. Taufiq Yap Yun Hin (UPM)</td> <td>Gantian</td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <thead> <tr> <th>Bil</th> <th>Nama Calon Pengerusi</th> <th>Perakuan Fakulti</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Prof. Dr. Mohd Rashid bin Mohd Yusof</td> <td>Dilantik</td> </tr> <tr> <td>2</td> <td>Prof. Dr. Makedtab bin Mohamed</td> <td>Gantian</td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <thead> <tr> <th>Bil</th> <th>Nama Calon Pembantu Pengerusi</th> <th>Perakuan Fakulti</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Dr. Mahadhir bin Mohamed</td> <td>Dilantik</td> </tr> </tbody> </table> <p>1.2 Walaubagaimanapun pelajar tidak menghantar tesis bagi tujuan peperiksaan lisan dalam tempoh setahun selepas perakuan notis.</p>	Bil	Nama Calon Pemeriksa Dalam	Perakuan Fakulti	1	Prof. Dr. Ezzat Chan Abdullah	Dilantik	2	Prof. Dr. Masafumi Goto	Gantian	Bil	Nama Calon Pemeriksa Luar	Perakuan Fakulti	1	Prof. Dr. Rusli bin Daik (UKM)	Dilantik	2	Prof. Dr. Taufiq Yap Yun Hin (UPM)	Gantian	Bil	Nama Calon Pengerusi	Perakuan Fakulti	1	Prof. Dr. Mohd Rashid bin Mohd Yusof	Dilantik	2	Prof. Dr. Makedtab bin Mohamed	Gantian	Bil	Nama Calon Pembantu Pengerusi	Perakuan Fakulti	1	Dr. Mahadhir bin Mohamed	Dilantik	<p>1.1 JKA Fakulti telah menyokong pelanjutan dan mencalonkan gantian Pengerusi dan Pembantu Pengerusi baharu.</p> <p>1.2 Pelantikan baharu Gantian Pengerusi dan Pembantu Pengerusi dibuat kerana peperiksaan Lisan pelajar dicadangkan diadakan di UTM Kuala Lumpur. Penyelia dan Pemeriksa Dalam yang diperakukan adalah daripada MJIIT.</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <thead> <tr> <th>Bil</th> <th>Nama Calon Pemeriksa Dalam</th> <th>Perakuan Fakulti</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Prof. Dr. Ezzat Chan Abdullah</td> <td>Dilantik</td> </tr> <tr> <td>2</td> <td>Prof. Dr. Masafumi Goto</td> <td>Gantian</td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <thead> <tr> <th>Bil</th> <th>Nama Calon Pemeriksa Luar</th> <th>Perakuan Fakulti</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Prof. Dr. Rusli bin Daik (UKM)</td> <td>Dilantik I</td> </tr> <tr> <td>2</td> <td>Prof. Dr. Taufiq Yap Yun Hin (UPM)</td> <td>Dilantik II</td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <thead> <tr> <th>Bil</th> <th>Nama Calon Pengerusi</th> <th>Perakuan Fakulti</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Prof. Dr. Mohd Rashid Mohd Yusof</td> <td>Dilantik</td> </tr> <tr> <td>2</td> <td>Prof. Datin Dr. Zuriati Zakaria</td> <td>Gantian</td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <thead> <tr> <th>Bil</th> <th>Nama Calon Pembantu Pengerusi</th> <th>Perakuan Fakulti</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Dr. Roshafima Rasit Ali</td> <td>Dilantik</td> </tr> </tbody> </table> <p>1.3 Dokumen seperti dilampirkan.</p>	Bil	Nama Calon Pemeriksa Dalam	Perakuan Fakulti	1	Prof. Dr. Ezzat Chan Abdullah	Dilantik	2	Prof. Dr. Masafumi Goto	Gantian	Bil	Nama Calon Pemeriksa Luar	Perakuan Fakulti	1	Prof. Dr. Rusli bin Daik (UKM)	Dilantik I	2	Prof. Dr. Taufiq Yap Yun Hin (UPM)	Dilantik II	Bil	Nama Calon Pengerusi	Perakuan Fakulti	1	Prof. Dr. Mohd Rashid Mohd Yusof	Dilantik	2	Prof. Datin Dr. Zuriati Zakaria	Gantian	Bil	Nama Calon Pembantu Pengerusi	Perakuan Fakulti	1	Dr. Roshafima Rasit Ali	Dilantik	<p style="text-align: center;">Setuju / Tidak Setuju (Ulasan)</p> <hr/> <hr/> <hr/> <hr/> <p style="text-align: center;">Pengerusi Mesyuarat Jawatankuasa Akademik Pengajian Siswazah Universiti (JAPSU) & Cop Rasmi</p> <p>Tarikh : _____</p>
Bil	Nama Calon Pemeriksa Dalam	Perakuan Fakulti																																																																			
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Tel: +(6)07-5536034 Fax: +(6)07-5581463 <http://fcee.utm.my> Email: fcee@utm.my

OUR REF.:

UTM.J.46/14.14/1/6 Jld. 2 (64)

18 Jun 2017

YOUR REF.:

 Dekan
 Sekolah Pengajian Siswazah
 Universiti Teknologi Malaysia
 Johor Bahru, JOHOR

Saudara,

PEMBAHARUAN NOTIS HANTAR TESIS (NHT) YANG TELAH TAMAT TEMPOH BAGI PELAJAR PHD, FAKULTI KEJURUTERAAN KIMIA DAN KEJURUTERAAN TENAGA

- RIHAB MOAWIA ALI MUSAAD (PKK)
- PK103047 (201012F10275)

Merujuk kepada perkara di atas.

2. Untuk makluman, NHT pelajar seperti nama di atas akan tamat pada 28 Jun 2017. Pihak fakulti bersetuju permohonan pelajar untuk melanjutkan NHT dengan mengekalkan calon pemeriksa dalam dan luar sebelum ini dengan membuat perubahan bagi calon gantian pengerusi serta pembantu pengerusi. Perubahan dibuat kerana peperiksaan lisan pelajar dicadangkan diadakan di UTM Kuala Lumpur.

Bil.	Nama Pelajar	Calon Pemeriksa Dalam	Calon Pemeriksa Luar	Calon Pengerusi	Catatan
1.	Rihab Moawia Ali MUSAAD (PKK) – PK103047 Penyelia: Prof. Dr. Mohamed Mahmoud El-Sayed Nasef Tajuk Tesis: Alkaline Polymer Catalyst For Production of Biodiesel Based on Radiation Grafting and Aminated of Natural Fibers	Calon Pemeriksa Dalam: Prof. Dr. Ezzat Chan bin Abdullah MJIIT, UTM Kuala Lumpur (UTMKL) Calon Pemeriksa Dalam Gantian: Prof. Dr. Masafumi Goto MJIIT, UTM Kuala Lumpur (UTMKL)	Calon Pemeriksa Luar: Prof. Dr. Rusli bin Daik (UKM) Calon Pemeriksa Luar Gantian: Prof. Dr. Taufiq Yap Yun Hin (UPM)	Calon Pengerusi: Prof. Dr. Mohd Rashid Mohd Yusof MJIIT, UTM Kuala Lumpur (UTMKL) Calon Pembantu Pengerusi: Dr. Roshafima Rasit Ali MJIIT, UTM Kuala Lumpur (UTMKL)	Diperakukan

Sekian dimaklumkan, terima kasih.

"Berkhidmat untuk Negara kerana Allah"

Yang benar


PROF. MADIA DR. AZMIZAM ABU BAKAR
 Timbalan Dekan (Akademik & Pembangunan Mahasiswa)
 Fakulti Kejuruteraan Kimia dan Kejuruteraan Tenaga
 b/p Dekan
 ☎ : 07-5535502

Date: 14 June 2017

From Rihab Moawia Ali Musaad

Ph.D student

Faculty of Chemical Engineering and Energy

Advanced Materials Research Group, Center for Hydrogen Energy.

Institute of Future Energy

Kuala Lumpur- Campus

To: Prof Madya, Dr Abdul Razak Rahmat

Postgraduate Academic Manager

Faculty of Chemical & Energy Engineering

(k-razak@cheme.utm.my)

Re: Appeal for considering the Extension for Notice Submission

Respected Prof,

Assalamualaikum Warahamatullah Wabarakatoh

Referring to the above matter, I would like to request an extension in the deadline for submitted Notice of Thesis Submission, which ends on June 26, 2017 for about 2 months until end of August 2017. This is to enable me to retake the Research Methodology course in the upcoming short semester, which is offered to me by SPS-K1 to settle the circumstantial issue that delayed the submission of my ready thesis.

I am grateful for the kindness the faculty has shown and I am hope to get your kind consideration for this request.

Your efforts are highly appreciated

Thanking you in advance

Sincerely Yours,
Rihab Musaad
Pk103047

Prof Madya Dr Abdul Razak Rahmat
Postgraduate Academic Manager
Faculty of Chemical & Energy Engineering
(k-razak@cheme.utm.my)

15/6/2017

Dear Prof,

RECOMMENDATION FOR THE EXTENSION FOR NOTICE SUBMISSION
MS RIHAB MOAWIA ALI MUSAAD (MATRIKS NO.: PK103047)

The above matter is referred.

2. I am pleased to recommend Ms Rihab Musaad (Student No.: PK103047) to be an extending for notice submission to allow her two extra months until the end of August to retake the research methodology subject. In this regards, I would like to confirm that Rihab has done her thesis.
3. I have known Rihab for the past 6 and half years as a PhD candidate under my direct supervision. I found that Rihab has contributed a significant amount of time and efforts towards completion of her PhD studies. Rihab published two indexed journal papers and is currently her thesis is ready to submit therefore, an extension would allow her to submit her thesis before next semester.
4. Lis of her publication is as below:
 - i. Moawia, R.M., Nasef, M.M.E., et al., (2016). Modification of flax fibres by radiation induced emulsion graft copolymerization of glycidyl methacrylate. Radiation Physics and Chemistry, 122, 35-42.
 - ii. Moawia, R.M., Nasef, M.M.E., Mohammed, N., (2016) TRANSESTERIFICATION OF COTTONSEED OIL TO BIODIESEL USING NATURAL FIBERS FUNCTIONALIZED WITH BASIC GROUPS. JURNAL TEKNOLOGI 78: 8-3 (2016) 89-93 | www.jurnalteknologi.utm.my | eISSN 2180-3722 |

Taking the abovementioned achievement, I strongly recommend Rihab for an extension of the deadline for submitted Notice (Thesis Submission notice) to allow her to submit her thesis before 31of August. Please, do not hesitate to contact me should you require further information.

Your kind consideration is highly appreciated.

Thank you

Yours sincerely,

Mohamed Nasef

Prof. Dr. Mohamed Mahmoud Nasef
E.mail: mahmoudeithar@cheme.utm.my
Phone: 012-7627958

Copy to:

Prof. Dr. Zaidatun Tasir
Dean of School Graduate Studies
deansps@utm.my

Prof. Dr. Mohd Ghazali Mohd Nawawi
Deputy Dean (Research & Scholarship)
ghazalinawawi@utm.my

Perakuan Pemeriksa Tesis
Certificate of Thesis Examiners

Jafsu 28/6/2016

SEKOLAH PENGAJIAN SISWAZAH
SCHOOL OF GRADUATE STUDIES

BIL: 9/2015/2016 TARIKH: 24 MAY 2016

Nama Pelajar Student Name	Pemeriksa Examiner		Perakuan Fakulti Faculty Certificate		Pengerusi Viva Viva Chairman
	Calon PD IE Candidates	Calon PL EE Candidates	PD IE	PL EE	
STUDENT NAME RIHAB MOAWIA ALI MUSAAD FACULTY FAKULTI KEJURUTERAAN KIMIA DAN KEJURUTERAAN TENAGA MATRIC NO. & IC NO. PK103047 / 201012F10275 SUPERVISOR NAME 1. PROF. DR. MOHAMED MAHMOUD EL-SAYED NASEF (PENYELIA UTAMA) TITLE OF RESEARCH ALKALINE POLYMER CATALYST FOR PRODUCTION OF BIODIESEL BASED ON RADIATION GRAFTING AND AMINATED OF NATURAL FIBERS	PROFESSOR DR. MASAFUMI GOTO (MALAYSIA- JAPAN INTERNATIONAL INSTITUTE OF TECHNOLOGY) PROFESSOR DR. MIKIO MIYAKE (MALAYSIA- JAPAN INTERNATIONAL INSTITUTE OF TECHNOLOGY) PROFESOR DR. EZZAT CHAN BIN ABDULLAH (MALAYSIA- JAPAN INTERNATIONAL INSTITUTE OF TECHNOLOGY)	PROF. DR. LUQMAN CHUAH ABDULLAH (UNIVERSITI PUTRA MALAYSIA (UPM)) PROF. DR. TAUFIQ YAP YUN HIN (UNIVERSITI PUTRA MALAYSIA) PROF. DR. RUSLI BIN DAIK (UNIVERSITI KEBANGSAAN MALAYSIA)	(RECOMMENDED I) PROFESOR DR. EZZAT CHAN BIN ABDULLAH (MALAYSIA- JAPAN INTERNATIONAL INSTITUTE OF TECHNOLOGY) REMARKS : (SUBSTITUTE RECOMMENDED) PROFESSOR DR. MASAFUMI GOTO (MALAYSIA- JAPAN INTERNATIONAL INSTITUTE OF TECHNOLOGY) REMARKS :	(RECOMMENDED I) PROF. DR. RUSLI BIN DAIK (UNIVERSITI KEBANGSAAN MALAYSIA) REMARKS : (SUBSTITUTE RECOMMENDED) PROF. DR. TAUFIQ YAP YUN HIN (UNIVERSITI PUTRA MALAYSIA) REMARKS :	CHAIRMAN PROF. DR. MOHD RASHID BIN MOHD YUSOF SUBSTITUTE PROF. DR. MAKETAB BIN MOHAMED CHAIRPERSON ASSISTANT DR. MAHADHIR BIN MOHAMED <i>Dr. Roslyane</i>

SEKOLAH PENGAJIAN SISWAZAH
UNIVERSITI TEKNOLOGI MALAYSIA

NOTIS UNTUK MENGHANTAR TESIS DAN PENCALONAN PANEL PEMERIKSA
(NOTIFICATION TO SUBMIT A THESIS & NOMINATION OF EXAMINERS)

Borang ini perlu diisi selewat-lewatnya tiga (3) bulan sebelum tarikh jangkaan menghantar tesis.
This form needs to be submitted at least three (3) months before the expected date of submission.

BAHAGIAN A - Diisi oleh pelajar [To be completed by the candidate]

1. Nama Pelajar
Name of Candidate

RIHAB MOAWIA ALI MUSAAD

2. No. Kad
Pengenalan
IC No./Passport
No.

201012F10275

No. Matrik
Pelajar
Student No.

PK103047

3. Jabatan & Fakulti
Department &
Faculty

**CHEMICAL &
ENERGY
ENGINEERING**

Dihubungi
Contact

0177217720

4. Program Pengajian
Programme of
Study

**PKKA3AJA - DOCTOR OF PHILOSOPHY (CHEMICAL
ENGINEERING)**

5. Alamat surat-
menyurat
Mailing Address

**JLN REKO LV HOSTEL,
MALAYSIA NUCLEAR AGENCY,
43000,KAJANG
SELANGOR,MALAYSIA**

6. Nama
Penyelia/Pengerusi
Panel Penyelia
Name of
Supervisor (s)

**1. PROF. Dr. MOHAMED MAHMOUD EL-SAYED
NASEF (PENYELIA UTAMA) -
mohdmahmoud@utm.my**

7. Cadangan Tajuk Tesis Dalam Bahasa Melayu dan Bahasa Inggeris (setelah
dipersetujui oleh Penyelia)
Proposed title of thesis in Malay and English as agreed by the Supervisor

**ALKALINE POLYMER CATALYST FOR PRODUCTION OF BIODIESEL
BASED ON RADIATION GRAFTING AND AMINATED OF NATURAL
FIBERS**

8. Tarikh jangkaan tesis dihantar
Expected date of submission

08 MARCH 2016

9. Abstrak / Ringkasan Tesis
Abstract / Summary of the thesis

Thesis abstract-last.pdf (77096) | [View PDF](#) | [Download](#) | [Remove](#)

Rihab Moawia Ali Musaad
Tandatangan [*Signature*]

08 MARCH 2016
Tarikh [*Date*]

BAHAGIAN B - Diisi oleh Penyelia atau Pengerusi Panel Penyelia [To be completed by the Supervisor (s)]

1. Nama Penyelia/Penyelia Panel Penyelia *
Name of Supervisor (s) *

PROF. Dr. MOHAMED MAHMOUD EL-SAYED NASEF - mohdmahmoud@utm.my

2. Jabatan & Fakulti *
Department & Faculty *

**JABATAN KEJURUTERAAN KIMIA DAN BIO PROSES (STAF AKADEMIK)
MALAYSIA-JAPAN INTERNATIONAL INSTITUTE OF TECHNOLOGY**

3. Di bawah ini dicalonkan mana-mana Pemeriksa Dalam dan Pemeriksa Luar untuk tindakan Pusat Pengajian Siswazah:
I/We nominate the following candidates to six as the internal and external examiners

- (i). Calon PEMERIKSA DALAM
Candidates for the INTERNAL EXAMINER 4544142

Nama Name	Jawatan Position	Alamat Address	Kepakaran Expertise	CV
<u>EZZAT CHAN BIN ABDULLAH</u>	PROFESOR DR.	INSTITUT TEKNOLOGI ANTARABANGSA MALAYSIA - JEPUN	CARBON NANOTUBE, ADSORPTION, KINETICS, MICROWAVE, BIO- MASS, NANO- STRUCTURE MATERIAL, ENVIRONMENTAL	CV Prof. Dr. <u>Ezzat Chan bin Abdullah.pdf</u>
<u>MASAFUMI GOTO</u>	PROFESSOR DR.	INSTITUT TEKNOLOGI ANTARABANGSA MALAYSIA - JEPUN	ENVIRONMENTAL AND SANITARY ENGINEERING MANAGEMENT AND OPERATION OF ENVIRONMENTAL SYSTEMS AND FACILITIES, MATH MODELING OF ENVIRONMENTAL SYSTEMS, BIOENGINEERING (BIOREMEDIATION, BIOGASIFICATION, FERMENTATION), NON-CATALYTIC BDF PRODUCTION TECHNOLOGY, 3R TECHNOLOGY	CV Prof. Dr. <u>Masafumi Goto.pdf</u>
<u>MIKIO MIYAKE</u>	PROFESSOR DR.	INSTITUT TEKNOLOGI ANTARABANGSA MALAYSIA - JEPUN		CV Prof. Dr. <u>Mikio Miyake.pdf</u>

(ii). Calon PEMERIKSA LUAR
Candidates for the EXTERNAL EXAMINER

Nama Name	Jawatan Postition	Alamat Address	Kepakaran Expertise	CV
RUSLI BIN DAIK	PROF. DR.	UNIVERSITI KEBANGSAAN MALAYSIA	POLYMER SYNTHESIS	RUSLI DAIK2.PDF
PROF. DR. PROF. DR. LUQMAN CHUAH ABDULLAH	PROF. DR.	UNIVERSITI PUTRA MALAYSIA (UPM)	1. SEPARATION TECHNOLOGY (ADSORPTION, FILTRATION, MECHANICAL SEPARATION, DISTILLATION, EXTRACTION ETC.) 2. MATERIAL ENGINEERING (BIOMATERIAL, POLYMERS, COMPOSITES, BIOPOLYMER ETC.) 3. PARTICLE TECHNOLOGY (DRYING, CRYSTALLIZATION, FLUIDIZATION ETC.)	CV PROF. DR. CHUAH TEONG GUAN @ LUQMAN CHUAH BIN ABDULLAH.PDF
TAUFIQ YAP YUN HIN	PROF. DR.	UNIVERSITI PUTRA MALAYSIA	CATALYTIC REACTIONS, BIOFUEL, ENERGY PRODUCTION	CV-PROF TAUFIQ YAP YUN HIN.DOC

4. Ulasan Penyelia/Pengerusi Panel Penyelia untuk menyokong pencalonan
Comment by the Supervisor (s) to support the nomination

5. Perakuan penyelia
Declaration by Supervisor

- i. Saya telah memaklumkan kepada semua calon pemeriksa berkenaan.
I have informed all the nominated examiners about their nominations
- ii. Pada pengetahuan saya, pemeriksa yang dicadangkan adalah memenuhi dokumen Panduan Lantikan dan Tanggungjawab Pemeriksa.
To my knowledge the nominated examiners are accordance to the document on Panduan Lantikan dan Tanggungjawab Pemeriksa

PROF. Dr. MOHAMED MAHMOUD EL-SAYED NASEF
MALAYSIA-JAPAN INTERNATIONAL INSTITUTE OF TECHNOLOGY
Perakuan Acknowledgment

26 MAY 2016
Tarikh Date

BAHAGIAN C - Pengesahan oleh Jawatankuasa Pengajian Siswazah Fakulti
[Confirmation by the Faculty Graduate Committee]

A) Nama Pengerusi Sesi Viva
Name of chair person for the viva session

PROF. DR. MOHD RASHID BIN MOHD YUSOF - rashidyusof.kl@utm.my

Nama Pengerusi Gantian
Name of substitution chairperson for the viva session

PROF. DR MAKETAB BIN MOHAMED - maketab@utm.my

Nama Pembantu Pengerusi
Name of assistant chairperson for the viva session

DR. MAHADHIR BIN MOHAMED - mahadhir@utm.my

* Pengerusi Sesi Viva akan dilantik oleh Fakulti
The Chairperson will be appoint by faculty

B) Nama Pemeriksa Dalam I
Name of Internal Examiner I

PROFESOR DR. EZZAT CHAN BIN ABDULLAH

Nama Pemeriksa Dalam II
Name of Internal Examiner II

Nama Pemeriksa Dalam Gantian
Name of Internal Replacement Examiner

PROFESSOR DR. MASAFUMI GOTO

Nama Pemeriksa Luar I
Name of External Examiner I

PROF. DR. RUSLI BIN DAIK

Nama Pemeriksa Luar II
Name of External Examiner II

Nama Pemeriksa Luar Gantian
Name of External Replacement Examiner

PROF. DR. TAUFIQ YAP YUN HIN

Disahkan oleh *Confirmation by*

FAKULTI KEJURUTERAAN KIMIA DAN KEJURUTERAAN TENAGA
Pengerusi Jawatankuasa Pengajian Siswazah Fakulti *Chairman of Faculty Graduate Committee*

Tarikh *Date* **23 JUNE 2016**