

UNIVERSITI TEKNOLOGI MALAYSIA

DOKTOR KEJURUTERAAN/INDUSTRI/PENDIDIKAN KEJURUTERAAN
(DOCTOR OF ENGINEERING/INDUSTRIAL/ENGINEERING EDUCATION)

LAPORAN PENILAIAN TESIS/DISERTASI OLEH PEMERIKSA (EXAMINER'S REPORT ON THESIS/DISSERTATION)

Nama Calon : (Name of Candidate)	Tajuk Tesis/Disertasi : (Title of Thesis/Dissertation)
Fakulti : (Faculty)	Tarikh Masuk : (Entry Date)
Nama Pemeriksa dan Institusi : (Name of Examiner and Institution)	Tempoh Pengajian sehingga Tarikh Hantar Tesis/Disertasi : (Duration of Study until Thesis/Dissertation Submission Date)

SILA TANDATANGAN DI DALAM RUANG YANG DISEDIAKAN UNTUK PERAKUAN

(Please sign in the space provided for the recommendation)

TANDATANGAN

(SIGNATURE)

1. Perakuan (Recommendation)

Setelah memeriksa tesis/disertasi, saya perakukan bahawa (After examining the thesis/dissertation, I recommend that)

- a) Calon dianugerahkan ijazah Doktor Kejuruteraan/Doktor Falsafah (The candidate be awarded the degree of Doctor of Engineering/Doctor of Philosophy);
- atau (or) b1) Calon dianugerahkan ijazah Doktor Kejuruteraan/Doktor Falsafah setelah membuat pembetulan kecil kepada tesis/disertasi seperti yang disenaraikan dalam laporan ini dan disahkan telah berbuat demikian oleh Penyelia (The candidate be awarded the degree of Doctor of Engineering/Doctor of Philosophy subject to minor corrections as listed elsewhere in this report being made in the thesis/dissertation to the satisfaction of the Supervisor);
- atau (or) b2) Calon dianugerahkan ijazah Doktor Kejuruteraan/Doktor Falsafah setelah membuat pindaan dan pembetulan kepada tesis/disertasi seperti yang disenaraikan dalam laporan ini dan disahkan telah berbuat demikian oleh Pemeriksa Dalam/Luar (The candidate be awarded the degree of Doctor of Engineering/Doctor of Philosophy subject to the amendments and corrections as listed elsewhere in this report being made in the thesis/dissertation to the satisfaction of the Internal/External Examiner(s));
- atau (or) c) Calon tidak dianugerahkan ijazah Doktor Kejuruteraan/Doktor Falsafah tetapi dibenarkan menghantar semula tesis/disertasi untuk pemeriksaan setelah menjalani kajian dan penyelidikan lanjutan (The candidate not be awarded the degree of Doctor of Engineering/Doctor of Philosophy but be permitted to resubmit the thesis/dissertation for further examination in a revised form after a further period of study and research);
- atau (or) d) Pencapaian calon tidak memuaskan untuk ijazah Doktor Kejuruteraan/Doktor Falsafah. Calon perlu mendaftar semula sebagai pelajar Sarjana Penyelidikan dan membuat pembetulan kepada tesis/disertasi seperti yang disenaraikan dalam laporan ini dan disahkan telah berbuat demikian oleh Pemeriksa Dalam/Luar (The candidate not be awarded the degree of Doctor of Engineering/Doctor of Philosophy. The candidate will need to re-register as a Master of Research student and make corrections to the thesis as listed elsewhere in this report being made in the thesis/dissertation to the satisfaction of the Internal/ External Examiner(s);
- atau (or) e) Calon tidak dianugerahkan ijazah Doktor Kejuruteraan/Doktor Falsafah (The candidate not be awarded the degree of Doctor of Engineering/Doctor of Philosophy)

2. Pendapat (Opinion)

Saya berpendapat (In my opinion),

* (Dibenarkan tanda (√) lebih daripada satu kriteria dibawah/ You may tick (√) more than one criterion).

- a) Tesis/disertasi ini mengandungi banyak sumbangan kepada (The thesis/dissertation has substantial contributions to)
- i) industri/organisasi (industry/organisation)
- ii) inovasi (innovation)
- iii) pembangunan ilmu (knowledge development)
- b) Keaslian tesis/disertasi dibuktikan dengan penemuan fakta-fakta baharu (The thesis/dissertation affords evidence of originality by the discovery of new facts);
- c) Keaslian tesis/disertasi dibuktikan dengan kebolehan memberi kritikan yang bernas dan jelas (The thesis/dissertation affords evidence of originality by the ability to give thoughtful and clear criticism);
- d) Tesis/disertasi ini memuaskan dari segi penyampaian (The thesis/dissertation is satisfactory in regards to literary presentation);
- e) Sebahagian besar dapatan kajian dalam tesis/disertasi sesuai untuk diterbitkan (A significant amount of findings in the thesis/dissertation are worthy of publication);

Tandatangan (Signature): Tarikh (Date):

3. **Merit (Merit)**
 Calon layak dianugerahkan 'merit' sekiranya keputusan pemeriksaan tesis/disertasi pada Bahagian 1 adalah A atau B1 /*The candidate is qualified to be awarded with 'merit' provided that the result of thesis/dissertation examination in Part 1 is A or B1*).

Dalam membuat perakuan di atas, saya sahkan calon cemerlang untuk ijazah ini dan layak dianugerahkan ijazah dengan **merit**.
 (In making the above recommendation, I consider that the candidate is outstanding for this degree and qualified to be awarded the degree with **merit**)..... _____

4. **Sila berikan ulasan dan penilaian terhadap perkara berikut sebagai asas perakuan**
 (Please provide your comments and assessment on the following items as the grounds for recommendation)

*Skala Pengukuran Seperti Berikut:
 *Scale of Assessment As Follows:

1	2	3	4	5
Sangat Lemah <i>Very Weak</i>	Lemah <i>Weak</i>	Memuaskan <i>Satisfactory</i>	Baik <i>Good</i>	Cemerlang <i>Excellent</i>

4.1 Tajuk Tesis/Disertasi (<i>Thesis/Dissertation Title</i>)

4.2 Abstrak (<i>Abstract</i>)

PLO5 (CS): Candidate demonstrates a good and concise abstract writing.					
*Skala pengukuran/ <i>Scale of assessment:</i>	1	2	3	4	5

4.3 Pengenalan, Permasalahan Penyelidikan, Objektif, Skop, dll. (<i>Introduction, Research Problem, Objective, Scope, etc.</i>)

PLO1 (AKW): Candidate demonstrates critical understanding on Research Problem.					
*Skala pengukuran/ <i>Scale of assessment:</i>	1	2	3	4	5

Tandatangan (*Signature*): Tarikh (*Date*):

4.4 Kajian Literatur (<i>Literature Review</i>)					
PLO1 (AKW): The literature review is very comprehensive and describes relevant material.					
*Skala pengukuran/ <i>Scale of assessment</i> :	1	2	3	4	5
PLO2 (CG) - The literature review is critically connected with the purpose of the study.					
*Skala pengukuran/ <i>Scale of assessment</i> :	1	2	3	4	5

4.5 Metodologi/Bahan/Reka Bentuk dan Kaedah (<i>Methodology/Material/Design and Methods</i>)					
PLO3 (PS): Candidate demonstrates a good mastery of practical skills and scientific skills through methodology/material/design and methods to solve complex research problems.					
*Skala pengukuran/ <i>Scale of assessment</i> :	1	2	3	4	5

4.6 Analisis dan Penyampaian Data/Keputusan (<i>Analysis and Presentation of Data/Findings</i>)					
PLO5 (CS): Communicate effectively the knowledge, skills, ideas, and research findings using appropriate methods to peers, scholarly communities, and societies through various medium.					
*Skala pengukuran/ <i>Scale of assessment</i> :	1	2	3	4	5
PLO6 (DS): Use a broad range of information, media, and technology applications to support study or work.					
*Skala pengukuran/ <i>Scale of assessment</i> :	1	2	3	4	5

Tandatangan (*Signature*): Tarikh (*Date*):

4.9 Gaya Penulisan (<i>Writing Style</i>)					
PLO5 (CS): Communicate effectively through writing the knowledge, skills, ideas, and research findings to peers, scholarly communities, and societies.					
*Skala pengukuran/ <i>Scale of assessment</i> :	1	2	3	4	5

4.10 Kekuatan Tesis/Disertasi (<i>Strength of the Thesis/Dissertation</i>)					

4.11 Kelemahan Tesis/Disertasi (<i>Weakness of the Thesis/Dissertation</i>)					

4.12 Kepentingan Kajian (<i>Significance of the Study</i>)					

Tandatangan (*Signature*): Tarikh (*Date*):

4.13 Perakuan Penganugerahan (*Recommendation for the Award*)

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4.14 Lain-lain ulasan (*Other comments*)

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Nama Pemeriksa/*Name of Examiner*:
Tarikh/*Date* :

Tandatangan (*Signature*): Tarikh (*Date*):