UNIVERSITI MALAYA

2022/2023

DOCTOR OF PHILOSOPHY

PROGRAMME GOAL, PROGRAMME EDUCATIONAL OBJECTIVES AND PROGRAMME LEARNING OUTCOMES

Programme Goal

To produce scholars who can lead the development and dissemination of knowledge as a leader in research, teaching and services for the society.

Programme Educational Objectives

(1) Advancing innovation in research and work practice.
(2) Lead research as a specialist and/or practicing practitioners at the national and/or international levels.
(3) Spread the research outcome and give expert advice ethically and professionally.

Programme Learning Outcomes

(1) Synthesis and contribute knowledge in the field of research respectively.
(2) Adapting practical skills and appropriate research methods towards innovative research.
(3) Disseminate benefits and implications of research in national and international contexts.
(4) Conduct research independently and adhere to legal, ethical and professional practice conduct.
(5) Demonstrate quality leadership through effective communication and collaboration among researchers and stakeholders.
(6) Overcome the research issues using critical thinking skills, problem solving and/or appropriate scientific skills.
(7) Integrate information for lifelong learning.

RESEARCH AREA

1. **ECONOMICS**

   Comparative Economic Systems, Development Economics, Economic Modeling, Economics of Network Industries, Economics Policy Analysis, Environmental Economics, Financial Economics, Financial Markets and Institutions, Fiscal Federalism and Intergovernmental Relations, Industrial Organization, International Finance, International Trade, International Economics, Labour Economics Macroeconomics, Microeconomics, Monetary Economics, Money and Banking, Public Economics and Trade and Growth.

2. **DEVELOPMENT STUDIES**

   Industrial Development, Innovation and Development, Institutions and Development, Economic Development, Education Economics, Gender and Development, Social Enterprise, Globalization and Development, Cooperatives Social Development, Financial System and Development, Development Issues, Health and Development, International Development, Science & Technology Policy and Development, Politics and Development, Sustainable Development, Entrepreneurship and Development, Environmental Management.

3. **PUBLIC ADMINISTRATION AND POLITICS**

   Ethnic Relations, Financial Administration in Developing Countries, Human Resource Management, International Relations, Local Government, Malaysian Politics, Policy Analysis and Programme Evaluation, Politics, Development and Governance, Privatization, Public Administration, Public Policies, Quality Management, Social Policy and Management and Urban Management

4. **APPLIED STATISTICS**

   Actuarial Statistics, Biostatistics, Demography, Econometrics, Experimental Design, Financial Econometrics, Operation Research, Statistical Data Analysis, Survey and Sampling and Time Series Analysis.

DOCTOR OF PHILOSOPHY
TIME TABLE

SEMESTER I, 2022/2023 SESSION

DAY	TIME	COURSE CODE	COURSE NAME	LECTURER	VENUE
Wednesday	6.00 – 9.00 pm	EVX8001	*Research Methodology*	Distinguished Prof. Dato' Dr. Rajah Rasiah	BSP1-5
-	-	EVX8002	*Reading Course*	Appointed Supervisor	-
-	-	EVX8004	*Selected Topics in Economics*	Appointed Supervisor	-
-	-	EVX8005	*Theories and Issues of Development*	Appointed Supervisor	-
-	-	EVX8007	*Special Topics in Statistics*	Appointed Supervisor	-

SEMESTER II, 2022/2023 SESSION

DAY	TIME	COURSE CODE	COURSE NAME	LECTURER	VENUE
Monday	6.00 – 9.00 pm	EVX8006	*Public Administration and Politics*	Coordinator: Prof. Dr. Beh Loo See	BSP1-2
Wednesday	6.00 – 9.00 pm	EVX8001	*Research Methodology*	Distinguished Prof. Dato' Dr. Rajah Rasiah	BSP1-5
Thursday	6.00 – 9.00 pm	EVX8003	*PhD Workshop Series*	Assoc. Prof. Dr. Yong Chen Chen	Utility Computer Lab
-	-	EVX8002	*Reading Course*	Appointed Supervisor	-
-	-	EVX8004	*Selected Topics in Economics*	Appointed Supervisor	-
-	-	EVX8005	*Theories and Issues of Development*	Appointed Supervisor	-
-	-	EVX8007	*Special Topics in Statistics*	Appointed Supervisor	-

COURSE INFORMATION

EVX8001 3 Credits	RESEARCH METHODOLOGY
Learning Outcomes	At the end of the course, students are able to: (1) Identify the nature and process of academic research. (2) Compare the advantages of the major research paradigms; (3) Determine the paradigm appropriate to research; (4) Evaluate the benefits of the research paradigm they use while taking steps to minimize its limitations; (5) Defend various methods used in each stage of the entire research process.
Synopsis of Course Contents	Beginning with a review of the nature of academic research, the course details the major research paradigms (quantitative, qualitative, mixed) and provides an overview of the entire research process. Research design as well as each stage of research process is then discussed together with the paradigm applicable. The merits and drawbacks of each paradigm are made explicit. Concrete examples illustrate the discussions. The course concludes with academic writing for theses and research papers.
Assessment Weightage	Continuous Assessment : 100%
Medium of Instruction	English

EVX8002 3 Credits	**READING COURSE**
Learning Outcomes	At the end of the course, students are able to: (1) Define the scope of the reading topic; (2) Identify the research issues and relevant literature, including theoretical and empirical studies; (3) Evaluate past studies critically; (4) Synthesize the information in the literature; and (5) Relate the research issues to the literature.
Synopsis of Course Contents	This course aims at developing the familiarity of the student with the field of research for the thesis. The student is guided by his/her thesis supervisor throughout the course through regular meetings between the supervisor and the student. The reading topic should be related to the area of research of the thesis. The student is required to produce a long essay (assignment of 5,000 to 8,000 words) at the end of the course. The student is guided to define the scope of the reading topic, and to conduct efficient literature search, covering empirical research, and theoretical as well as conceptual work. Research issues are identified, and the student learns to evaluate critically the literature that embodies these issues. In the evaluation, the student is expected to define the scope and objectives of a literature review, discuss the strengths and weaknesses of the reading materials, identify the relations, contradictions and research gaps in the literature, as well as describe the new developments at the frontiers of research. The student is also guided in synthesizing and summarizing ideas and debates in the literature, managing the information and structuring the review appropriately to avoid plagiarism.
Assessment Weightage	Continuous Assessment : 100%
Medium of Instruction	English

EVX8003	PHD WORKSHOP SERIES
3 credits	
Learning Outcomes	At the end of this course, the students are able to:

At the end of this course, the students are able to:

(1) Adhere to research conduct without plagiarism;
(2) Apply techniques of conducting a literature review;
(3) Manage information for research; and
(4) Write a research proposal.

Synopsis of Course Contents

This course aims at developing the skills of the students in designing their research for the thesis. The students are guided through a series of workshops that emphasize hands-on applications. The workshops provide a forum for students to learn about expectations of a PhD thesis, using resources for research, applying for research funding, format for thesis writing, structuring a research design, and managing their research and supervisors. The students would also acquire skills on how to avoid plagiarism, techniques to write a literature review critically, and preparing an effective research proposal.

Assessment Weightage

Continuous Assessment : 100%

Medium of Instruction

English

EVX8004
3 Credits

SELECTED TOPICS IN ECONOMICS

Learning Outcomes

At the end of the course, students are able to:

(1) Identify theories and analytical models pertinent to their interest;
(2) Appraise the development and evolution of theories in the topic of interest;
(3) Analyse critically major theories and analytical models specific to their research;
(4) Debate critically the different methodological strategies used in solving their research issues;
(5) Propose a solid theoretical framework specific to their research.

Synopsis of Course Contents

This course examines key readings in the related literature and provides students with an overview of key concepts, major theories and analytic models that are important to the area of their research. The aim of the course is to equip students with in depth understanding of available models and theories in their specific field of research and the ability to interpret and critically analyze those models. With those knowledge, students are expected to be able to formulate a solid theoretical framework specifically for their own research. The study is required to produce a long essay (assignment of 5,000 to 8,000 words) at the end of the course.

Assessment Weightage

Continuous Assessment   : 100%

Medium of Instruction

English

EVX8005 3 Credits	THEORIES AND ISSUES OF DEVELOPMENT
Learning Outcomes	At the end of the course, students are able to: (1) Apply development theories to inform research framework; (2) Critically analyse development policy and issues; (3) Evaluate the role and functions of development institutions; (4) Assess the impact of international development on local economies.
Synopsis of Course Contents	This course aims to develop familiarity among students on theories related to development. It focusses on a wide variety of issues, opportunities, threats and challenges which are pertinent to understanding the real situation of development in a particular country and relating the relevant theories of development or their thesis writing. These theories will guide the framing of their research framework. It includes relating development theories and issues, institutions and development, sustainable development, and international developments and local economies. The student is required to produce a long essay (assignment of 5,000 to 8,000 words) at the end of the course.
Assessment Weightage	Continuous Assessment : 100%
Medium of Instruction	English

EVX8006 3 Credits	PUBLIC ADMINISTRATION AND POLITICS
Learning Outcomes	At the end of the course, students are able to: (1) Discuss on issues and theories related to administration and politics; (2) Analyze the various perspectives of the relevant theories studied in the course; and (3) Apply the relevant theories in research.
Synopsis of Course Contents	This course will provide exposure to administrative and political theories. It also incorporates concepts and ideas that are useful in research works in the areas of administration and politics. Topics that are covered include issues in public administration and government, comparative political and government systems, planning and development theories, state and local government, and public policy.
Assessment Weightage	Continuous Assessment : 100%
Medium of Instruction	English

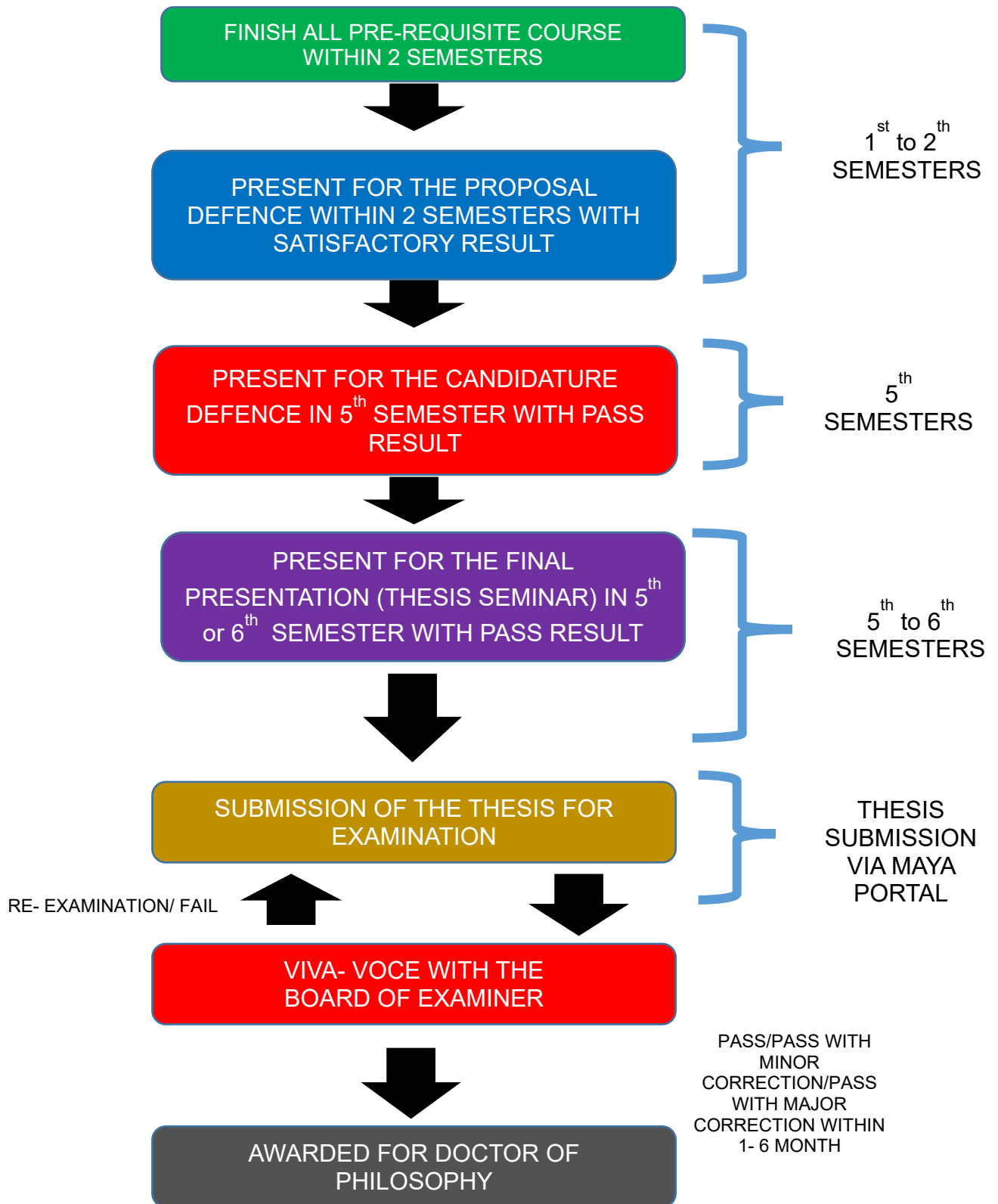| **EXV8007** 3 Credits	**SPECIAL TOPICS IN STATISTICS**
Learning Outcomes	At the end of the course, students are able to: (1) Interpret the statistical problem of interest that achieves a specific objective in the analysis of data; (2) Determine statistical methodologies that address the statistical problem of interest; (3) Evaluate the developments in the theoretical and empirical literature regarding the selected methodologies; (4) Investigate empirically the application of these methodologies; and (5) Evaluate critically the findings in the light of the specific objective to be achieved.
Synopsis of Course Contents	This course covers special topics in statistics required by the student in his/her research. Typically these topics will be from Industrial Statistics, Econometrics, Biostatistics or Social Statistics. The main objective of the course is to develop expertise in the statistical methodologies required to address a specific objective in the analysis of data. The student learns to define the related statistical problem of interest, identify and assess various methodologies in the literature that address this problem and then select the one best suited for his or her research needs. For this method (or these methods), the student investigates the theoretical and empirical developments as well as its (their) application to a data set with given characteristics. Finally, through the critical evaluation of findings, the student is able to determine the appropriate statistical methodology to address a specific objective in the analysis of data. The student is required to do a presentation and submit an essay (5,000 to 8,000 words) at the end of the course.
Assessment Weightage	Continuous Assessment : 100%
Medium of Instruction	English

FLOW CHART PHD RESEARCH

FINISH ALL PRE-REQUISITE COURSE WITHIN 2 SEMESTERS

↓

PRESENT FOR THE PROPOSAL DEFENCE WITHIN 2 SEMESTERS WITH SATISFACTORY RESULT

1st to 2th SEMESTERS

↓

PRESENT FOR THE CANDIDATURE DEFENCE IN 5th SEMESTER WITH PASS RESULT

5th SEMESTERS

↓

PRESENT FOR THE FINAL PRESENTATION (THESIS SEMINAR) IN 5th or 6th SEMESTER WITH PASS RESULT

5th to 6th SEMESTERS

↓

SUBMISSION OF THE THESIS FOR EXAMINATION

THESIS SUBMISSION VIA MAYA PORTAL

RE- EXAMINATION/ FAIL ↑   ↓

VIVA- VOCE WITH THE BOARD OF EXAMINER

PASS/PASS WITH MINOR CORRECTION/PASS WITH MAJOR CORRECTION WITHIN 1- 6 MONTH

↓

AWARDED FOR DOCTOR OF PHILOSOPHY

PUBLICATION GUIDELINES

GUIDELINES FOR PUBLICATION IN FULFILMENT OF GRADUATION REQUIREMENTS FOR POSTGRADUATE CANDIDATES By RESEARCH (SENATE APPROVAL ON 25.02.2021)

Publication(s) produced by postgraduate research candidates in fulfilment of graduation requirements must comply with the following criteria:

CRITERIA	REMARKS

(1) Type of Publications	(1) Research article or review article in journals indexed in:
	    (a) Web of Science (WoS) Core Collection databases
	       (https:apps.webofknowledge.com)
	        • Science Citation Indec Expanded TM
	        • Social Sciences Citation Index and
	        • Arts & humanities Citation Index
	
	    (b) *Scopus (https://www.scopus.com/);or
	
	    (c) *Malaysian Citation Index (MyCite)(http://www.mycite.my/)
	
	(2)*Books published by publishers listed in:
	
	    (a) Web of Science (WoS) Master Book List
	       (http://wokinfo.com.com/mbl/publishers/)
	
	    (b) Malaysian Scholarly Publishing Council or Majlis Penerbitan Ilmiah Malaysia (MAPIM) (https://www.um.edu.my/research-andcommunity/information-for researchers/downloads/myra)
	
	    (c) Any publishers listed and recognized by Academic Responsible Centre (PTj)
	
	*Only applicable to candidate pursuing programmes in the field of Arts and Social Sciences.

(2) Authorship	Publications **must be published with the supervisor(s)**. The supervisor shall act as the corresponding author. In the event that the candidate has more than one supervisor, one of them shall be the corresponding author**.** The candidate must be the first author, or either the second or subsequent author after the supervisor(s), or the first student author. In the event, two or more candidates co-authored in an article, only one candidate is allowed to use this article to fulfil his/her graduation requirement.
(3) Authorship Agreement	Candidate must provide a copy of authorship document that was submitted to the respective publishers (e.g. Authorship Agreement/Form or Statement of Authorship or cover letter of article submission), confirming all the named authors have agreed to publication.
(4) Timing	Publications accepted must be within the candidature of the candidate.
(5) Topic of publications	Publications must be related and conform to the candidate's research in his/her thesis/dissertation.

(6) Affiliation	Publications must carry the affiliation of the department and/or faculty where the candidate is registered.
(7) Blacklisted journals	Publications in journals blacklisted by the Malaysian Ministry of Higher Education (MoHE) are not accepted: (1) Academic Journal (www/academicjournals.org); (2) Euro Journal Inc (www.eurojournals.com); (3) Common Ground Publishing (www.commongroundpublishing.com)' (4) Africa World Press Inc. (www.africaworldpressbooks.com) (5) Publications in Probable Predatory Journals according to Beall's List (http://scholarlyoa.com/publishers/) The list of blacklisted journals is subject to change from time to time according to MoHE.
8. Completion Period	Candidates who have completed the examination of their thesis /dissertation must fulfil the publication requirement as set by the University before the expiry of their maximum period of candidature. If the candidates fail to fulfil the publication requirement within the approved period, they will be terminated from the program of study and considered as failed.

NOTE: Candidate must provide a copy of authorship document that was submitted to the respective publishers (e.g. Authorship Agreement/Form or Statement of Authorship or cover letter of article submission), confirming all the named authors has agreed to publication.

CANDIDATURE REQUIREMENTS

Candidates are required to complete their candidature by fulfilling the following requirements:

For Doctoral Degree (by Research) – Doctor of Philosophy

Requirements	
Candidates are required to fulfil the following candidature requirements before submission of the thesis for examination:	
1.	Fulfil the minimum candidature duration of 4 semesters.
2.	Fulfil the University language requirement (Bahasa Malaysia and English)

3.	Fulfil the residential requirement of 12 months. *Candidates are considered to have fulfilled the residential requirement if they have completed requirements 4, 5, 6* , 7 and 8, including the following:*
	    (a) Face-to-face consultation with supervisor(s) as imposed by the faculty; and/or
	    (b) Participation in any faculty activity as required by the faculty

4.	Attend at least 3 credits of a **Research Methodology Course** not later than the second (2nd) semester of candidature.
5.	Present research proposal at a **Proposal Defence** not later than the second (2nd) semester of candidature.
6.	*For candidates with direct admission into the Doctor of Philosophy programme* **(Fast Track**), Present research progress at a **PhD Confirmation Defence** not later than the third (3rd) semester of candidature.
7.	Present research progress in a **Candidature Defence** session not later than the fifth (5th) semester of candidature.
8.	Present research progress in a **Thesis Seminar** before the submission of thesis for examination.
Candidates must fulfil the following publication requirement prior to graduation:	

Publication Requirement
 	
Doctoral candidates pursuing programmes in the field of **Social Sciences** must show proof of acceptance for publication per the following (according to the criteria set in the publication guidelines), prior to graduation:
 	
(a) at least one (1) article in journals indexed (WoS); or
(b) at least one (1) book published by publishers listed in the Web of Science (WoS) Master Book List or Malaysian Scholarly Publishing Council or Majlis Penerbitan Ilmiah Malaysia (MAPIM), or any publishers recognised by the Faculty; or
(c) at least two (2) publications in Category A or B refereed journals, or book chapters as follows:
   • **Articles in Category A journals:**
    Journals indexed in the Scopus citation database;
 	
   • **Articles in Category B journals:**
    Journals published by University or scholarly publishers or listed in MyJurnal (Malaysian Journal Management System). (List of Category B journals must be recognised by the Faculty)/
 	
   • **Book chapters in different books:**
    Book chapters published by publishers listed in the Web of Science (WoS) Master Book List, or by Malaysian Scholarly Publishing Council or Majlis Penerbitan Ilmiah Malaysia (MAPIM) or any publishers recognised by the Faculty. Two (2) book chapters in different books are equivalent to one (1) publication.
 	
NOTE: Candidates are also required to fulfil any additional requirements imposed by the Faculty.	

For Master's Degree (by Research)

Requirements
Candidates are required to fulfil the following candidature requirements before submission of the dissertation for examination:

1.	Fulfil the minimum candidature duration of 2 semesters.
2.	Fulfil the University language requirement (Bahasa Malaysia and English)
3.	Fulfil the residential requirement of 6 months. *Candidates are considered to have fulfilled the residential requirement if they have completed requirements 4, 5, and 6, including the following:* *(a) Face-to-face consultation with supervisor(s) as imposed by the faculty; and/or* *(b) Participation in any faculty activity as required by the faculty*
4.	Attend at least 3 credits of a **Research Methodology Course** not later than the second (2nd) semester of candidature.
5.	Present research proposal at a **Proposal Defence** not later than the second (2nd) semester of candidature.
6.	Present research progress in a **Candidature Defence** session not later than the third (3rd) semester of candidature.

Candidates must fulfil the following publication requirement prior to graduation:

Publication Requirement

Master's candidates pursuing programmes in the field of **Social Sciences** must show proof of acceptance for publication per the following (according to the criteria set in the publication guidelines), prior to graduation:

(a) at least one (1) article in journals indexed by Web of Science (WoS); or
(b) at least one (1) book published by publishers listed in the Web of Science (WoS) Master Book List or Malaysian Scholarly Publishing Council or Majlis Penerbitan Ilmiah Malaysia (MAPIM), or any publishers recognised by the Faculty; or
(c) at least one (1) publication in Category A or B refereed journals, or book chapters

as follows:

- **Articles in Category A journals:**
  Journals indexed in the Scopus citation database;

- **Articles in Category B journals:**
  Journals published by University or scholarly publishers or listed in MyJurnal (Malaysian Journal Management System). (List of Category B journals must be recognised by the Faculty)/

- **Book chapters in different books:**
  Book chapters published by publishers listed in the Web of Science (WoS) Master Book List, or or Malaysian Scholarly Publishing Council or Majlis Penerbitan Ilmiah Malaysia (MAPIM), or any publishers recognised by the Faculty or any publishers recognised by the Faculty. Two (2) book chapters in different books are equivalent to one (1) publication.

NOTE: Candidates are also required to fulfil any additional requirements imposed by the Faculty.
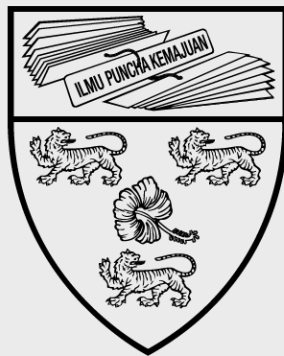
For Master's Degree (by Mixed Mode)

	Requirements
1.	Fulfil the minimum candidature duration of 2 or 3 semesters.
2.	Fulfil the University language requirement (Bahasa Malaysia and English)
3.	Fulfil the residential requirement of 6 months.
4.	Presentation • Present research proposal at the beginning of the research component registration. • Present research progress in a **Candidature Defence** session as required by the Faculty.
NOTE: • Candidates are also required to fulfil any additional requirements imposed by the Faculty. • Candidates are required to complete their courses with a minimum CGPA of 3.00 prior to registering for the research component.	

GRADUATE ON TIME (GOT) SCHEDULE
Doctor of Philosophy Candidates

Semester	Activities	Output/Milestone
1	• Attend Research Methodology Course • Attend Bahasa Melayu course* • Attend English language course** • Familiarization with and use of EndNote, Turnitin, editing software, data analysis and research tools • Conduct Literature Review • Proposal Defence	• Completed Research Methodology course • Fulfilment of language requirements • Presented research proposal
2	• Extend Introduction section in proposal as Chapter 1 draft • Complete Literature Review • Conduct pilot study / start data collection • Attend at least 3 courses in Upskill Program (including GOT seminar) • Prepare for Candidature Defence	• Literature Review • Thesis Plan / Outline of Thesis • Submission of Publication 1 (review paper / concept paper) (Candidates are strongly advised to use reference management software Eg: Mendeley, Bibtex, EndNote)
3	• Data analysis • Candidature Defence report writing • Attend at least 2 courses in Upskill Program • Candidature Defence	• Completed Candidature Defence (Candidature Defence report should include data collection, findings, thesis outline)
4	• Data analysis • Thesis write-up (Chapter 1, 2 & 3) • Preparation of manuscripts for submission of publication • Attend at least 2 courses in Upskill Program	• Submission of Publication 2 • Completed drafts of three chapters

5	• Thesis write-up (complete remaining chapters) • Presentation of Thesis Seminar • Attend at least 2 courses in Upskill Program • Attend Thesis Bootcamp	• Completed thesis draft • Presented Thesis Seminar
6	• Finalize and submit thesis • Prepare for viva voce	• Submission of thesis • Viva voce

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