



INSTITUT ALAM SEKITAR DAN PEMBANGUNAN (LESTARI)
UNIVERSITI KEBANGSAAN MALAYSIA

PRO-FORMA KURSUS SISWAZAH
(POST-GRADUATE COURSE SYLLABUS)
SEMESTER 2 SESI 2020/2021

1. Institut: Institut Alam Sekitar dan Pembangunan (LESTARI)/ Institute for Environment and Development (LESTARI)	
2. Program Pengajian: SISWAZAH/POST-GRADUATE	3. a. Kod Kursus/Course Code: JSXX6014 b. Bilangan Kredit/Credit hours: 4
4. Tajuk Kursus: Kaedah Penyelidikan/Research Methodology	5. Tahap Kursus: Wajib/Compulsory
6. Masa Kuliah/Lecture Time Hari/Day: Khamis (Thursday) Masa/Time: 9.00 am – 12.00 pm	Bilik/ Venue: Bilik Kuliah LESTARI
7. Penyelaras / Coordinator : Prof. Madya Dr. Ahmad Fariz Mohamed (AFM) fariz@ukm.edu.my, 03-89214150 Hari/Masa Untuk Pertemuan: Pertemuan Melalui Temujanji/ Meeting by Appointment Pengajar/Lecturers: 1. Prof. Madya Dr. Ahmad Fariz Mohamed (AFM) 2. Prof. Madya Dr. Lee Khai Ern (LKE) 3. Prof. Madya Dr. Goh Choo Ta (GCT) 4. Dr. Nuriah Abd Majid (NAM) 5. Dr. Nor Diana Mohd Idris (NMI) 6. Dr. Lim Chen Kim (LCK)	Staff-in-charge in LESTARI: Pn. Nur Amira Ahmad nuramira@ukm.edu.my; 03-89214149 E-MEL & TEL: fariz@ukm.edu.my, 03-89214150 khaiernlee@ukm.edu.my, 03-89217645 gohchoota@ukm.edu.my, 03-89217641 nuriah@ukm.edu.my, 89217639/5299 nordiana@ukm.edu.my , 89217657 kim@ukm.edu.my ,

8. **Objektif Kursus dan Hasil Pembelajaran:**

Objektif kursus:

1. Memperkenalkan konsep, prinsip dan etika penyelidikan.
2. Menerang kaedah penyelidikan yang bersesuaian dengan program pasca-siswazah.
3. Memastikan kaedah penyelidikan yang digunapakai oleh pelajar doktor falsafah/sarjana adalah sesuai dengan penyelidikan masing-masing.

Pada akhir kursus, pelajar dijangka dapat:

1. Menjelaskan prinsip, konsep asas dan etika penyelidikan.
2. Menganalisis struktur hujahan teks akademik dan menilai asas hujahan berkenaan.
3. Membuat pertimbangan pendekatan metodologi penyelidikan berbentuk kualitatif dan kuantitatif.
4. Membuat sintesis pengurusan dan analitik data yang bersesuaian dengan soalan atau objektif penyelidikan.
5. Mempamerkan kebolehan untuk menghasilkan cadangan penyelidikan berdasarkan kefahaman tentang ciri-ciri cadangan penyelidikan yang bermutu.

Course Objectives:

1. Introduce concepts, principles and ethics of research.
2. Explain research methodologies that are in line with post-graduate program.
3. Ensure research methodologies adopted by PhD/Master students are appropriate for their respective research.

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

1. Explain concepts, principles and ethics of research.
2. Analyze structure of academic text arguments and evaluate basis of the arguments.
3. Conduct qualitative and quantitative research methodologies.
4. Synthesize data management and analytic that are in line with the research questions or objectives.
5. Demonstrate capabilities to produce research proposal based on the understanding of features for quality research proposal

9. Sinopsis kandungan kursus (seperti dalam buku panduan dan tambahan)/ Course Synopsis:

Kursus ini akan memperkenalkan pelajar kepada perspektif yang berbeza tentang proses penyelidikan, kaedah pengumpulan dan penggunaan data secara berkesan semasa perjalanan penyelidikan. Tumpuan akan diberikan kepada pencapaian kefahaman sempurna tentang prinsip penyelidikan untuk membolehkan pelajar menyediakan cadangan penyelidikan yang bermutu. Pelajar akan didedahkan kepada ciri-ciri dan asas pemikiran dan penulisan secara ilmiah. Selain itu, pelajar juga akan diperkenalkan kepelbagaian kaedah penyelidikan seperti temuabual intensif, survei dan kerja lapangan, serta kaedah analitik yang akan membolehkan pelajar menganalisis data secara kuantitatif dan kualitatif serta melaporkan hasil kajian secara ilmiah.

This course will introduce students to the different perspectives regarding the process of research, methodology of gathering data as well as effective use of data in research project. The focus is to equip students with an overall understanding of research principles in their effort to prepare a sound research proposal. Students will be exposed to the nature of academic thinking and writing as well as the requirements of academic writings. Besides, students will be introduced to various research methods such as intensive interview, survey and fieldwork, as well as various analytical tools used in qualitative and quantitative analyses.

10. Bahan Pengajaran/Peralatan:

Powerpoint Kuliah, bahan audio-visual dan Pakej Bacaan/ Lecture Notes/ Power pts, audio-visual aids and Reading materials

11. Bahan Rujukan / Reference Material:

Daniel Stockemer, 2019. Quantitative Methods for the Social Sciences A Practical Introduction with Examples in SPSS and Stata. Springer.

David Wootton, 2016. The Invention of Science: A New History of the Scientific Revolution. Allen Lane Press.

Mildred L. Patten and Michelle Newhart, 2018. Understanding Research Methods: An Overview of the Essentials 10th Edition. Routledge, New York.

KevinMcCain, 2016. The Nature of Scientific Knowledge: An Explanatory Approach. Springer.

Steven Shapin, 2018. The Scientific Revolution (Science Culture) Second Edition. The University of Chicago Press.

12. Kaedah Pengajaran/Pembelajaran (kuliah, tutoran, kerja kumpulan, kerja lapangan dan lain-lain)/ Teaching/Learning Methods:

Kuliah/Lecture
Kerja Kumpulan/Group Work
Penulisan/ Writing
Pembentangan/Presentation

13. Kaedah Penilaian /Evaluation Methods

First consultation and presentation (Written 25%, Oral 15%)	40%
Second consultation and presentation (Written 35%, Oral 25%)	60%

14. Tarikh-tarikh penting (tentatif)/ Important Dates:*

Deadlines for the submission of assignments shall be fixed by the respective lecturer with the students.

15. Jadual pembelajaran/ Course Outline: Sila rujuk kepada ms. 5. Please refer to page 5.

16. Disediakan oleh:

Diperakukan oleh:



Prof. Madya Dr. Ahmad Fariz Hj Mohamed
(Penyelaras Kursus)

Tarikh: 12 MAC 2021



Prof. Dato' ChM Dr Mazlin B, Mokhtar
(Pengerusi Jawatankuasa Pengajian Siswazah)

Tarikh: 24 Mac 2021

**Jadual Kursus/Course Timetable JSXX6014
Semester 2, Session 2020-2021**

**Koordinator/Coordinator:
Prof. Madya Dr. Ahmad Fariz Mohamed (e-mail: fariz@ukm.edu.my)
Khamis/Thursday, Bilik Kuliah LESTARI, 9.00 am – 12.00 pm**

Minggu/Week Tarikh/Date	Tarikh, pensyarah / Date, lecturer	Topik / Topic
Part 1: Preparation and Design for Theses Research		
1 1.4.2021	Prof. Madya Ts. Dr. Lee Khai Ern	Introduction to Research Methodology
2 8.4.2021	Prof. Madya Ts. Dr. Lee Khai Ern	Getting Started: Research Interests, Work Plan, Timelines, Milestones
3 15.4.2021	Dr. Nor Diana Mohd Idris	Literature Review (1): Reading- Understanding – Excerpting
4 22.4.2021	Dr. Nor Diana Mohd Idris	Literature Review (2): Sources – Quotes - Bibliography
5 6.5.2021	Dr. Nuriah Abd Majid	Designing Research (1) Research Questions, Theory, Conceptual Framework, Hypotheses
6 20.5.2021	Dr. Nuriah Abd Majid	Designing Research (2) Research Questions, Theory, Conceptual Framework, Hypotheses
7 24.5.2021	All lecturers	First consultation and assignment 1 Presentation on literature review, problem statement, research question, objectives, hypotheses, theory, conceptual framework.
Part 2: Data collection, Data analyses, Theses and publication preparation		
8 3.6.2021	Prof. Madya Dr. Goh Choo Ta	Quantitative Research (1): Data Collection and Data Analysis
9 10.6.2021	Prof. Madya Dr. Goh Choo Ta	Quantitative Research (2): Data Analysis and Interpretation
10 17.6.2021	Dr. Lim Chen Kim	Qualitative Approach (1): Collecting, Analysing and Interpreting Qualitative Data: Data Collection Quantitative and Qualitative Method Data Collection and Code

11 24.6.2021	Dr. Lim Chen Kim	Qualitative Approach (2): Collecting, Analysing and Interpreting Qualitative Data Data Processing and Analyses Data Processing Results interpretation
12 1.7.2021	Prof. Madya Dr. Ahmad Fariz Mohamed	Academic Writing (1): Publication and manuscript writing for proceedings, journals, chapter in book and book.
13 8.7.2021	Prof. Madya Dr. Ahmad Fariz Mohamed	Academic Writing (2): Thesis preparation, Presentations, citation and UKM Style theses
14 15.7.2021	All lecturers	Second consultation and assignment 2 Thesis proposals presentation

- Tarikh kuliah akan berubah mengikut keperluan dan keadaan semasa (date of lecture will be change subject to needs)

Senarai Pengajar/List of Lecturer

- Assoc. Prof. Dr. Ahmad Fariz Mohamed (fariz@ukm.edu.my)
- Assoc. Prof. Ts. Dr. Lee Khai Ern (khaiernlee@ukm.edu.my)
- Assoc. Prof. Dr. Goh Choo Ta (gohchoota@ukm.edu.my)
- Dr. Nor Diana Mohd Idris (nordiana@ukm.edu.my)
- Dr. Nuriah Abd Majid (nuriah@ukm.edu.my)
- Dr. Lim Chen Kim (kim@ukm.edu.my)