



INSTITUT ALAM SEKITAR DAN PEMBANGUNAN
UNIVERSITI KEBANGSAAN MALAYSIA

PRO-FORMA KURSUS SISWAZAH
(POST-GRADUATE COURSE SYLLABUS)
SEMESTER 1 SESI 2020/2021

1. Institut / Institute: Institut Alam Sekitar dan Pembangunan (LESTARI) / Institute for Environment and Development (LESTARI)	
2. Program: Siswazah / Post-Graduate	3. a. Kod Kursus / Course Code: JSXX6022 b. Bilangan Kredit / Credit hours: 2
4. Tajuk Kursus / Course Title: Sains Kelestarian Lanjutan / Advanced Sustainability Science	5. Tahap / Level: PhD LESTARI (Wajib / Compulsory); Others (Elektif / Elective)
6. Masa Kuliah / Lecture Time Hari / Day: Jumaat (Friday) Masa / Time: 10:00 am – 12:00 pm Bilik / Venue: Microsoft Teams / Zoom or Bilik Kuliah LESTARI / LESTARI Lecture Hall	
7. Penyelaras / Coordinator : Dr. A. Aldrie Amir (LESTARI) aldrie@ukm.edu.my, 03-89214153 Pengajar / Lecturers: 1. Dr. Ahmad Aldrie Amir 2. Prof. Dr. Muhammad Rizal Razman 3. Prof. Madya Dr. Sarah Aziz 4. Prof. Madya Dr. Goh Choo Ta 5. Dr. Sharina Abdul Halim	Urusetia / Secretariat: Pn. Noor Shafirah Ramli firaramli@ukm.edu.my; 03-89214149 aldrie@ukm.edu.my, 03-89214153 mrizal@ukm.edu.my, 03-89217650 saziz@ukm.edu.my, 03-89214155 gohchoota@ukm.edu.my, 03-89217641 sharinahalim@ukm.edu.my, 03-89217649

8. Objektif Kursus dan Hasil Pembelajaran / Course Objective and Outcome:

Pada akhir kursus, pelajar akan berupaya:

1. Mengasah kefahaman dan keupayaan pelajar (calon-calun Doktor Falsafah) untuk mengaplikasikan teori dan konsep kelestarian menerusi tugas yang diberikan;
2. Membangunkan keupayaan dan kemahiran pelajar untuk mengintegrasikan ilmu (multi-, inter- dan trans-displin) di dalam penyelidikan mereka.

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

1. Strengthen their (PhD candidates') understanding and ability to apply theory and concept of sustainability science into the given tasks and assignments;
2. Develop their ability and skills to apply integrative knowledge (multi-, inter- and trans-discipline) into their respective research.

9. Sinopsis Kursus / Course Synopsis:

Kursus ini akan memberi penjelasan lebih lanjut dan aplikasi konsep sains kelestarian menerusi lima topik iaitu; a) kedinamikan, perubahan dan kompleksiti ekosistem; b) governans kelestarian; c) cabaran kesihatan persekitaran; d) penglibatan pihak berkepentingan; dan e) hubungkait antara sains dan proses pembentukan dasar. Kursus ini juga menyediakan pentas wacana untuk memacukan pemikiran dan menzahirkan penghayatan sains kelestarian ke arah pembangunan lestari.

This course aims to provide in depth detail and application of sustainability science concept through five topics that is, a) ecosystem dynamics, change and complexity; b) governance for sustainability; c) environmental health; d) stakeholder participation; dan e) science and policy interphase. In this course, critical discussion is encouraged among students, as one of the platforms to direct thinking in translating manifestation of sustainability science concept towards achieving sustainable development.

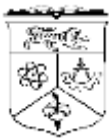
10. Bahan Pengajaran / Teaching Materials:

Kuliah, slaid, artikel, buku, dan bahan audio-visual /
Lecture notes, slides, articles, books, and audio-visual aids.

11. Rujukan / References:

- Haider, L.J., Hentati-Sundberg, J., Giusti, M., Goodness, J., Hamann, M., Masterson, V.A., Meacham, M., Merrie, A., Ospina, D., Schill, C., Sinare, H., 2018. The undisciplined journey: early-career perspectives in sustainability science. *Sustainability Science* 13, 191-204.
- Kajikawa, Y., Saito, O., Takeuchi, K., 2017. Academic landscape of 10 years of sustainability science. *Sustainability Science* 12, 869-873.
- Thompson, B.S., 2018. Institutional challenges for corporate participation in payments for ecosystem services (PES): insights from Southeast Asia. *Sustainability Science* 13, 919-935.
- Wamsler, C., Brossmann, J., Hendersson, H., Kristjansdottir, R., McDonald, C., Scarampi, P., 2018. Mindfulness in sustainability science, practice, and teaching. *Sustainability Science* 13, 143-162.
- Yarime, M., 2017. Facilitating data-intensive approaches to innovation for sustainability: opportunities and challenges in building smart cities. *Sustainability Science* 12, 881-885.

12. Kaedah Pengajaran dan Pembelajaran / Teaching and Learning Methods Kuliah / Lecture Pembentangan / Presentation Perbincangan / Discussions Penulisan / Writing									
13. Kaedah Penilaian / Evaluation Methods <table> <tr> <td>Quiz</td> <td>30%</td> </tr> <tr> <td>Assignment (Video)</td> <td>30%</td> </tr> <tr> <td>Assignment (Manuscript)</td> <td>40%</td> </tr> <tr> <td>Total</td> <td>100%</td> </tr> </table>		Quiz	30%	Assignment (Video)	30%	Assignment (Manuscript)	40%	Total	100%
Quiz	30%								
Assignment (Video)	30%								
Assignment (Manuscript)	40%								
Total	100%								
14. Tarikh-tarikh Penting / Important Dates Quizzes will be fixed by respective lecturers Deadline for the submission of final assignments (video and manuscript) 19 February 2021									
15. Jadual Pembelajaran / Course Outline: Sila rujuk muka surat 5 / Please refer to page 5.									
16. Disediakan oleh / Prepared by: _____ Dr. A. Aldrie Amir (Penyelaras Kursus / Course Coordinator) Tarikh: __21 September 2020__	Diperakukan oleh / Approved by: _____ Prof. Dato' Dr. Mazlin Mokhtar (Pengerusi Jawatankuasa Pengajian Siswazah / Chairman of the Postgraduate Committee) Tarikh: __22 September 2020__								



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UNIVERSITI KEBANGSAAN MALAYSIA

SAINS KELESTARIAN LANJUTAN (JSXX6022)
ADVANCED SUSTAINABILITY SCIENCE (JSXX6022)

1st Semester 2020/2021

Time: Fridays 10:00 am – 12:00 pm

Venue: Microsoft Teams / Zoom / LESTARI Lecture Hall

Course Outline

Week	Theme	Topic	Lecturer	Hours	Quiz	Date
1 - 17	Integrative Knowledge (Lectures and Discourses)	Ecosystem Dynamics, Change and Complexity	AAA	4	1	23 October 2020 30 October 2020
		Emerging Environmental Health Challenges	GCT	4	1	6 November 2020 12 November 2020 (R)
		Governance for Sustainability	MRR	4	1	20 November 2020 27 November 2020
		Stakeholder Participation and Sustainability	SAH	4	1	10 December 2020 (R) 18 December 2020
		Connecting Science to Policy Process	SAGA	4	1	8 January 2021 15 January 2021
		Interactive Discourse and Assignment Preparation	All	8	-	22 January 2021 29 January 2021 5 February 2021 12 February 2021
18	Scientific Communication (Writing)	Submission of Final Report / Manuscript (Written Assignment)	-	-	-	19 February 2021

Notes: (R) = Replacement date due to public holiday on Friday

28 November 2020 – 6 December 2020 = Mid-Semester Break

13 November 2020 = Deepavali

11 December 2020 = Sultan Selangor's Birthday

25 December 2020 = Christmas Day

1 January 2021 = New Year's Day

AAA	Dr. A. Aldrie Amir (Course Coordinator)	aldrie@ukm.edu.my
GCT	Assoc. Prof. Dr. Goh Choo Ta	gohchoota@ukm.edu.my
MRR	Prof. Dr. Muhamad Rizal Razman	mrizal@ukm.edu.my
SAH	Dr. Sharina Abdul Halim	sharinahalim@ukm.edu.my
SAGA	Assoc. Prof. Dr. Sarah Aziz	saziz@ukm.edu.my