International Veterinary and Conservation Medicine Education Program (IVCMEP)

to foster the next generation of human resources to bridge between Africa and Japan Syllabus 2024 for ONLINE students

Ш	Successfully completing a <i>class,</i> a <i>credit</i> is given by Hokkaldo University (HU).						
	All the classes are conducted in English.						
	With three credits, certificate for IVCMEP2024 will be given by HU. This will certify the						
	stud	student's competency while giving priority to participate in the proceeding IVCMEP conducted					
	on-	site ir	n Zambia .				
	1)	One	e credit for "Conservation Medicine in Zambia Overview"				
		•	Watching lecture video series of "Interdisciplinary and Intercultural Studies" listed				
			below.				
		•	Participating online interactive sessions with students and professors at Hokkaido				
			University				
			[Tentative schedule]				
			June: JICA special lecture on international cooperation				
			 July: Interactive Session with students from University of Zambia (UNZA). 				
			August : Travel Report by UNZA students				
			• September: Interactive discussion session with professors at HU				
			September : Travel Report by HU students				
	2)	Two	credits for "Conservation Medicine in Zambia I&II"				
		•	Select <u>no less than two <i>classes</i></u> from the list below				
		•	Each class consists of 8 subjects (or less, yet equivalent to 8 subjects).				
		•	Those classes are also provided face-to-face at Hokkaido University from Jul. 16-Aug.				
			31. You can also join those classes in person. For details, contacts us via email below.				

 \square The program starts from 8th July 2024 and ends on 31st October 2024.

[Outline of each class]

1) Interdisciplinary and Intercultural Studies [one credit]

NOTE: All IVCMEP students are required to watch following lectures

Lectures are given by researchers in Hokkaido Universities and other partner institutions in Japan and African countries.

	Class	Subject
		1) Japanese Language and Culture (NOT required for HU students)
		2) One-Health and SDGs
		3) Sustainable Development in Japan and African countries
1	Interdisciplinary and	4) Recent Topics in Veterinary and Conservation Medicine in Japan
1.	Intercultural Studies	5) Training on Team Working
		6) Ethics in Interdisciplinary Research
		7) Medical Anthropology
		8) Human Resources for Sustainable Development

2) Conservation Medicine I&II [two credits]

NOTE: Select no less than two *classes* from the list below .

Each class consists of 8 subjects (or less, yet equivalent to 8 subjects).

** : Equivalent to 2 subjects

*** : Equivalent to 3 subjects

*** : Equivalent to 4 subjects

	Class	Subject
		1) Guidance for Chemical Hazard
1.	CHCE-I: Field	2) Environmental Toxicology-1 Trace Elements
	Toxicology & Risk	3) Environmental Toxicology-2 Food Safety
	Analysis	4) Veterinary Forensics**
		5) Risk Analysis***
		1) Introduction on environmental chemical analysis**
2.	CHCE-II: Chemical	2) Heavy Metal (including Mercury) Poisoning
۷.	Analyses	3) Pesticide Pollution and Health
		4) Endocrine Disrupting Chemicals in Wildlife and Human

	Class	Subject
		Lecture on environmental health and environmental 5) monitoring
		6) Lecture on data analysis of LC-MS/MS**
		1) Pharmacology **
	CHCE III: Basic Conservation Medicine	2) Wildlife Toxicology / Ecotoxicology**
3.		3) Toxicologic Pathology**
		4) Immunotoxicology **
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	CHCE-IV: Environmental Remediation and Diagnostic Techniques	1) Remote sensing-1 **
4.		2) Remote sensing-2 **
		3) Environmental Remediation**
	Diagnostic reciniques	4) Environmental Remediation in Marine Environment**
	CHCE-V: GIS and	1) Basic and practices of GIS -1**
5.	satellite remote sensing	2) Basic and practices of GIS -2***
		3) Basic and practices of GIS -3***
	CHCE-VI:	1) Basic and Multivariate Analysis: Basics and Practices ****
6.	Bioinformatics	Computational Toxicology Basic of Molecular Docking 2) ****
	Mechanism,	Understanding Plants and Soils - in relation to 1) environmental pollutions **
	Assessment and Remediation of Environmental Pollution	2) Impact Evaluation of Development Program **
7.		3) Environmental Radioactivity and health hazard
		4) Health Science
	Pollution	5) Remediation of abandoned mine sites **
		1) Overview from animal side (host defense)
		2) Medical Entomology
8.	Advanced and Comprehensive Studies	Control of CSF/ASF (Classical swine fever/African swine 3) fever)
J.	on Zoonosis Control	4) Filovirus infection
	on zoonosis control	5) Control of Brucellosis in Uganda/ Tanzania
		6) Tuberculosis
		7) Toxoplasmosis

	Class	Subject
		8) African trypanosomiasis
		1) Principle of biobank and its application**
9.	Advanced Seminar on Conservation Medicine	Zoonosis studies in Zambia: practical use of the 2) biorepository
		3) Relational database
		4) Usage of Next Generation Sequencer****
10.	IVCMEP: Conservation Medicine	A free-designed class selected from any 16 subjects from above. Notice: On completing this class, 2 credits will be given.

Details of each class are subject to change.

If you have any inquiry, contact us via IVCMEP@vetmed.hokudai.ac.jp