PROGRAM CURRICULUM

1. Doctor of Philosophy in Biology

Table 1. Training program

<table>
<tr><th></th><th>Candidates holding identical major of Bachelor's degree</th><th>Candidates holding identical major of Master's degree</th><th>Candidates holding similar major of Master's degree</th></tr>
<tr><td>Pre-additional modules</td><td rowspan="2">30 credits under as required by program</td><td>-</td><td>-</td></tr>
<tr><td>Additional modules</td><td>-</td><td>14 credits</td></tr>
<tr><td>PhD. modules</td><td colspan="3">8 credits (4 compulsory credits, 4 optional credits)</td></tr>
<tr><td>PhD. reports</td><td colspan="3">6 credits (3 subjects)</td></tr>
<tr><td>Literature reviews</td><td colspan="3">2 credits</td></tr>
<tr><td>Scientific research</td><td colspan="3">- Conducting experiments and participate in all academic activities after receiving the decision to recognize PhD students until the completion dissertation defense;
- Participating in at least one scientific seminar per year organized by the HUIB;
- Publishing at least 02 articles related to the dissertation contents, including at least 01 article on international per-reviewed journals or 01 per-reviewed conference proceeding before having dissertation and 01 article on Hue University Journal of Sciences.</td></tr>
<tr><td>PhD dissertation</td><td colspan="3">74 credits
The PhD dissertation must be a creative and innovative scientific research, finding novel results, contributing to theory, achieving novel knowledge or solutions that are valuable in developing, improving scientific knowledge in the field of research or creatively solving problems as professional and social demands.</td></tr>
<tr><td>Total</td><td>120 credits</td><td>90 credits</td><td>104 credits</td></tr>
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Table 2. PhD. modules (courses)

No.	Course code		Courses	Credits
	Letter	Number		
Part 1. Compulsory courses				
1	HPTSSH	01	Molecular Genetics and Genomics	2
2	HPTSSH	02	Biodiversity Conservation	2
Part 2. Optional courses (choose 2/9 courses)				
3	HPTSSH	03	Marine Biology	2
4	HPTSSH	04	Molecular Evolution	2
5	HPTSSH	05	Environmental Ecology	2
6	HPTSSH	06	Applied Animal Physiology	2
7	HPTSSH	07	Applied Plant Physiology	2
8	HPTSSH	08	Applied Microbiology	2
9	HPTSSH	09	Genetics and Animal Breeding	2
10	HPTSSH	10	Applied Cell Technology	2
11	HPTSSH	11	Applied Bioinformatics	2

2. Doctor of Philosophy in Organic agriculture

Table 1. Training program

	Candidates holding Bachelor's degree identical majors	**Candidates holding Master's degree in identical majors**	**Candidates holding Master's degree in similar majors**
Additional modules	5 compulsory modules (26 credits) and 1 optional module (4 credits)	-	1 compulsory module (3 credits) and 2 optional modules (6 credits)
PhD. modules	1 compulsory module (4 credits) and 1 optional module (4 credits)		
PhD. reports	6 credits (2 PhD. reports)		
Literature reviews	2 credits		
Scientific research	- Conducting experiments and participate in all academic activities after receiving the decision to recognize PhD. students until the completion dissertation defense; - Participating in at least one scientific seminar per year organized by the HUIB; - Publishing at least 02 articles related to the dissertation contents, 01 is on ISI-scopus journal list and 01 article on Hue University Journal of Sciences; or Publishing at least 02 articles related to the dissertation contents, on per-reviewed international conference proceeding (involve in https://dblp.uni-trier.de/) and 01 article on Hue University Journal of Sciences; or Publishing at least 02 articles related to the dissertation contents, on per-reviewed journals involve in DOAJ-Directory of Open Access Journals or ACI-Asean citation index or COPE-Committee on publication ethics and 01 article on Hue University Journal of Sciences before having dissertation.		
PhD. dissertation	74 credits The PhD. dissertation must be a creative and innovative scientific research, finding novel results, contributing to theory, achieving novel knowledge or solutions that are valuable in developing, improving scientific knowledge in the field of research or creatively solving problems as professional and social demands.		
Total	**120 credits**	**90 credits**	**99 credits**

Table 2. PhD. modules (courses)

No.	Name of Module	Courses	Code		Credits
			Letter	Number	
		Compulsory courses (4 credits)			
1	Organic agricultural theory and practice	Organic agricultural theory	HPTSNHC	01	2
		Mixed organic farming (crops, animal, aquaculture)	HPTSNHC	02	2
		Optional courses (4 credits)			
2	Advanced animal sciences	Biosecurity in Livestock Production	HPTSNHC	03	2
		Advanced sustainable livestock system	HPTSNHC	04	2
3	Advanced crop sciences	Organic agriculture production using High-technology	HPTSNHC	05	2
		Biotechnology in organic Agriculture	HPTSNHC	06	2
4	Advanced aquaculture	Aquacultural technology	HPTSNHC	07	2
		Biosecurity in aquaculture farms	HPTSNHC	08	2
5	Advanced Post-harvest technology	Post-harvest technology in advanced organic agriculture	HPTSNHC	09	2
		Advanced quality control of post-harvest organic agricultural products	HPTSNHC	10	2
Total					**8**