REVISED SYLLABUS

M.Sc. COURSE IN HIMALAYAN AQUATIC BIODIVERSITY

Effective from academic session 2018-2019

Department of Himalayan Aquatic Biodiversity

School of Life Sciences HNB Garhwal University

(A Central University)

Srinagar (Garhwal), Uttarakhand

REVISED SYLLABUS M.Sc. COURSE IN HIMALAYAN AQUATIC BIODIVERSITY

Admission to Master's Program in Himalayan Aquatic Biodiversity shall be through entrance examination conducted by University and the program shall be based on the choice based credit system in which credit defines the quantum of content/ syllabus prescribed for a course system and determines the number of hours of instruction per week.

The student shall be eligible for admission to a Master's Degree Program in Himalayan Aquatic Biodiversity after he/she has successfully completed a three year undergraduate degree or earned prescribed number of credits through the examinations conducted by University as equivalent to an undergraduate degree. The fee structure would be as per University ordinances but the fee once deposited by the candidate would not be refundable under any circumstances barring security fee.

Core courses prescribed for every Semester shall be mandatory for all students registered for the Master's Program in Himalayan Aquatic Biodiversity and shall carry minimum 54 credits. There shall be Elective courses offered in semester III and IV and shall carry a minimum of 18 credits. A self-study course would comprise of maximum 09 credits of which minimum 03 credits shall be mandatory which shall not be included while calculating grades. The student may choose self-study course either only in one of the three semesters (II/III/IV) or one each in all the three semesters. In order to qualify for a two year master's degree, a student must acquire a minimum of 72 credits including a minimum of 18 credits in electives choosing at least two elective (leading to a minimum 06 credits) in Semester III offered either by the parent department or other departments and one qualifying self-study course of minimum 03 credits.

The dissertation is a semester long elective course of 06 credits and is mandatory for every student. The dissertation would be allotted in the beginning of III Semester and candidate would submit the report during IV Semester examination. The dissertation may be in the form of a field based minor research work/ project work/ practical training. The students may complete the dissertation work in the department/ other research institutes/ industries/ hospitals etc.

A candidate has to secure a minimum of 51 percent marks in aggregate (Two Sessional Tests marks plus End-Term Examination marks) to pass.

Course structure PROGRAMME- M.Sc. Himalayan Aquatic Biodiversity

SLS/HAB/C001BitSLS/HAB/C002T	ore courses	MARKS	CREDIT
SLS/HAB/C002 T			UREDH
SLS/HAB/C002 T	iodiversity : An Introduction	100	3
	Faxonomy & Systematics	100	3
SLS/HAB/C003 Hi	imalayan: An Introduction	100	3
	quatic Ecosystems	100	3
	ab course I (for course C001 & C002)	100	3
SLS/HAB/C006 La	ab course II (for course C003 & C004)	100	3
	Total	600	18
Core Credits= 18			<u>.</u>
Semester II (Decem	ber to April)		
CODE CO	ore courses	MARKS	CREDIT
SLS/HAB/C007 Te	echniques in Aquatic Ecology and Biodiversity	100	3
SLS/HAB/C008 Fr	reshwater Biodiversity	100	3
SLS/HAB/C009 Pl	lanktonology and Microbiology	100	3
	iodiversity conservation and Management	100	3
SLS/HAB/C011 La	ab course I(for course C007 & C008)	100	3
SLS/HAB/C012 La	ab course II(for course C009 & C010)	100	3
	Total	600	18
Core Credits= 18			
Semester III (July to	o November)		
CODE	ore courses	MARKS	CREDIT
SLS/HAB/C013 Bi	iostatistics	100	3
SLS/HAB/C014 Cl	limate change and Aquatic Biodiversity	100	3
SLS/HAB/C015 La	ab course I (for course C013 & C014)	100	3
Open electives (any	one out of three)		
SLS/HAB/E01A Fr	reshwater Algal Flora of Himalaya		
	Environmental Impact Assessment (EIA) and Auditing		3
SLS/HAB/E01C Er	nvironmental Toxicology		
SLS/HAB/E02A Ba	asic of Remote Sensing and GIS		
	nvironmental pollution	100	3
	ishery Science		
	ab course II (for elective course E01 & E02)	100	3
	Total	600	18
Total Credits = 18	(Core Credits 09+ Elective Credits 09) with additional 03 (
Semester IV (Decem			<i>V</i>
CODE CO	ore courses	MARKS	CREDIT
	reshwater invertebrate fauna of Himalaya	100	3
SLS/HAB/C017 Fr	Freshwater Fish Fauna of Himalaya		3
	Lab course I(for course C016 & C017)		3
SLS/HAB/E04A Re	esearch Methodology		3
SLS/HAB/E04B Ec	cosystem Analysis	100	3
SLS/HAB/E04C A	nalytical Techniques And Instrumentation		3
		1	1

SLS/HAB/E05	Dissertation		100	06	
		Total	500	18	
Total Credits = 18(Core Credits 09+ Elective Credits 09)					

Grand Total: Core Credits 54+ Elective Credits 18= 72

* With a total of 09 Credits (3+3+3 Credits in II, III and IV semester) of Self Study (2 Seminars equivalent to 2 Sessional Tests plus one End term written examination).

Maximum Marks for each paper is 100 (Sessional Tests-40 + End Term Test- 60).

The 2- Year Masters Programme will have the following components:

1. Core course: Minimum 54 credits.

2. Elective course: Minimum 18 credits choosing at least two Electives (leading to a minimum 06 credits) in Semester III offered either by the parent department or other departments and one Elective course(03credits) and Dissertation (06 credits) in IV Semester.

3. Self study course: Maximum 09 credits (one minimum 03 credits shall be mandatory but not to be included while calculating grades).

Dissertation

Dissertation is an elective mandatory for every student. The dissertation is to be allotted in the beginning of III Semester and report would be submitted at the time of IV Semester examination.

The distribution of marks for the Dissertation will be as below:

Periodical Presentation: 20 Marks

Dissertation : 60 Marks

Viva Voce : 20 Marks

Total : 100 Marks

The dissertation would carry 06 credits in all. Dissertation shall be evaluated jointly by the supervisor and one external examiner.