Annexure 'CD – 01

AMITY UNIVERSITY
UTTAR PRADESH

FORMAT FOR COURSE CURRICULUM

L	T	P/S	SW/FW	No. of PSDA	TOTAL CREDIT UNITS
3	0	0	0	3	3

Course Title: Aquaculture-I

Course Code: MAR 601 **Credit Units:**

Course Level: PG

Course Objectives:

To understand the role, status and importance of aquaculture. This course also aimed to know the culture practices for various aquaculture species including seaweeds.

Pre-requisites:

General knowledge of various aquatic organisms

Course Contents/Syllabus:

	Weightage (%)
Module I	**20 %**
Descriptors/Topics Role, status and importance of Aquaculture. Criteria of selection of species for aquaculture.	
Module II	**20%**
Descriptors/Topics Culture practices of carps, milkfish and mullets.' Monoculture, polyculture and integrated farming	
Module III	**20%**
Descriptors/Topics Culture practices of tiger shrimp, *Macrobrachium rosenbergi*, crabs and lobsters Extension activities in aquaculture.	
Module IV	**20%**

Descriptors/Topics Culture practices of edible oyster, mussel, cephalopod, clams, and Marine finfish	
Module V	**20%**
Descriptors/Topics Culture practices of Seaweeds in India and abroad. Significance of mariculture in India. Culture Practices of Live feed, Biochemistry and enrichment	

Course Learning Outcomes:

After completing the course:

- Students will be able to list role, status and importance of aquaculture
- Students will be able to explain culture practices for fresh water fin fishes
- Students will be able to explain culture practices for shrimp, crabs and lobster
- Students will be able to plan culture of oyster, clams, cephalopods, mussels and marine fin fishes
- Students will be able to describe culture practices for seaweeds and live feed

Pedagogy for Course Delivery:

Course will be delivered in the form of lectures, power point presentations and video presentation

List of Professional Skill Development Activities (PSDA):

i. Group discussion
ii. Group Assignments
iii. Chart/ppt presentation

Lab/ Practicals details, if applicable:

List of Experiments:

Assessment/ Examination Scheme:

Theory L/T (%)	Lab/Practical/Studio (%)
100	**nil**

Theory Assessment (L&T):

Continuous Assessment/Internal Assessment (50%)					End Term Examination (50%)
Components (Drop down)	**Class Test**	**quiz**	**Home assignment**	**Attendance**	
Linkage of PSDA with Internal Assessment Component, if any		Quiz and discussion as PSDA	**Multiple assignments as PSDA**		
Weightage	10	15	20	5	50

Lab/ Practical/ Studio Assessment:

	Continuous Assessment/Internal Assessment			End Term Examination			
Components (Drop down)	**Class Test (Practical Based)**	**Mid Term Viva**	**Attendance**	**Major Experiment**	**Minor Experiment/ Spotting**	**Practical Record**	**Viva**
Weightage (%)							

Text & References:

1. Bardach J.E. et al., Aquaculture, Wiley – interscience, 1972.
2. IMAI t.: Aquaculture in shallow seas, Amerind Pub. Co. 1977
3. Milne P.H.: Fish & Shellfish farming in coastal waters, FNB Ltd., 1972
4. Pillay TVR & Wm. A.Dill: Advances in Aquaculture, FAO, 1979.
5. Wheaton F.W.: Aquaculture engineering, Wiley-interscience, 1977.
6. Jhingran V.G.: Fish & Fisheries of India, Hindustan Pub. Corp., 1982.
7. Stickney R.R.: Principles of warm water aquaculture, Wiley interscience, 1979.
8. Huet M. & Timmermans: Textbook of fish culture, FNB Ltd., 1986.
9. T.V.R. Pillay: Aquaculture: Principles & Practices, FNB Ltd., 1981
10. Srivastava, A. Live food: Mass production, Biochemical profiling and Enrichment. LAMBERT Academic Publishing, Germany, 2010