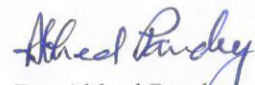


Theory Lecture Schedule

Course No. & Title: AQC 514 (Multilevel Integrated Aquaculture Systems) Credit Hrs. 2 (1+1)

S. No.	Topic	Lectures
1.	Global status of Integrated fish farming	1
2.	Integration with agricultural (Paddy cum Fish Farming)	1
3.	Horticultural crops (vegetable and fruits) cum Fish Farming	1
4.	Livestock (cattle, poultry, ducks, pigs and other terrestrial animals) cum Fish Farming	3
5.	Effective recycling of wastes, nutrient budgeting in different integrated farming systems, production levels and economics	2
6.	Bioprocessed manures in integration; Vermicompost, Farmyard manure/ compost & Biogas slurry	1
7.	Advantages of biomanures, control of microbial interactions & fermentation of manures	1
8.	Integrated multitrophic aquaculture systems and design of an IMTA unit	1
9.	Aqua tourism	1
10.	Aquaponics: concept, Principles, types and operation	1
11.	Multilateral interaction and reserve management	1
12.	Discharge of nutrient wastes from integrated aquafarms; environmental effects, and potential for integrated multi-trophic aquaculture	1
13.	Economic analysis of different integrated culture systems	1
Total		16



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Practical Lecture Schedule

Course No. & Title: AQC 514 (Multilevel Integrated Aquaculture Systems) Credit Hrs. 2 (1+1)

S. No.	Topic	Lectures
1.	Preparation of vermicompost	2
2.	Analysis of nutrient value of different manures	3
3.	Design of various integrated farming models	3
4.	Different models of aquaponics	2
5.	Nutrient analysis and management in aquaponics	2
6.	Visit to integrated farms	1
7.	Economics of different integrated systems	2
8.	Case studies	1
Total		16



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