

DEPARTMENT OF ZOOLOGY
Sacred Heart College (Autonomous)
Thevara, Cochin

SYLLABUS FOR
VALUE ADDED COURSE
SUSTAINABLE FISH
CULTURE
COURSE CODE : 16ZOOVAC02

Course Co-ordinators

Dr. Moncey Vincent

SUSTAINABLE FISH CULTURE

Course Code	16ZOOVAC02
Title of the course	Sustainable Fish Culture
Semester in which the course is to be taught	3 and 4
No. of credits	2
No. of contact hours	36

OBJECTIVES OF THE COURSE:

- 1) To give students knowledge on sustainable aquaculture practices - Present scenario and problems
- 2) To promote entrepreneurship activity and thereby create employment and generate revenue.

SYLLABUS

CREDIT 2

- Trends in global and Indian aquaculture; different farming systems; intensive systems and constraints - environmental degradation and disease outbreaks.
- Sustainability and development: Systems approach and its application in aquaculture with special reference to resource-poor systems
- Role of aquatic resources in food and nutrition; Aquatic resource and livelihood systems.
- Environmental issues: Exotic species introduction; escapement; contamination of indigenous gene pool; salinization of soil and water; environmental impact; over exploitation of wild stocks; mangrove deforestation.
- Socio-economic issues: Conflicts over water and land use; conflicts of interest between aqua farmers and fishermen; resistance from local public; anti-dumping duties

Suggested Readings:

1. Beets, W.C. 1990: Raising and Sustaining Productivity of Small-Holder Farming Systems in the Tropics. Agbe Publishing.
2. Edwards, P and H. Demaine: Rural Aquaculture: Overview and Framework for Country Reviews, 1997/36, RAP/FAO, RAP Publications, Bangkok, 1997.
3. Edwards, P., D.C. Little and H. Demaine (Eds): Rural Aquaculture. CABI Publishing, Wallingford, 2002.
4. J. E. Bardach: Sustainable Aquaculture, 1997



A handwritten signature in black ink, consisting of a stylized 'J' followed by a horizontal line.

A handwritten signature in green ink, appearing to be "Dr. Johnson X Parakkal".

Dr. Johnson X Parakkal,
Principal
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Thevara, Kochi-682 013