



St. Mary's College (Autonomous)
Reaccredited with 'A+' Grade by NAAC (Cycle IV)
Thoothukudi



Criterion: I – Curricular Aspects
1.1 – Curriculum Design and Development
Year: 2018-2023

Programme: M.Sc. Zoology

SEMESTER IV			
Core XIII : Marine Biology			
Code: 19PZOC41	Hrs/Week: 4	Hrs/Sem: 60	Credits: 4

Course Outcome:

CO.No	Upon completion of this course, students will be able to	PSO addressed	CL
CO – 1	explain the various ecological zones of marine environment and their fauna and flora, their adaptations and distribution	2,3	Un
CO – 2	appraise the biological, chemical, biological and physical aspects of the marine environment and their significance to marine life	3,	Ev
CO-3	compare the marine ecosystems, types and threats to coral reefs, mangroves and salt marshes	1	An
CO- 4	relate ecological relationships that exist among marine organisms within a variety of habitats	4	An
CO-5	know the types and causes of marine pollution and their abatement	6	Un
CO-6	assess different sampling methods used in the marine biology and then using standard techniques for analysing samples in the laboratory	4,5	Ev
CO-7	analyse various types of marine resources and assess the various environmental concerns related to the use and abuse of marine resources.	2	An, Cr
CO-8	design and implement effective solutions to problems in marine environment	7,8	Ap

SEMESTER IV**SEMESTER IV****Core XIII****Marine Biotechnology****Course Code: 21PZOC41****Hrs/Week: 4****Hrs/Sem: 60****Credits: 4**

CO. No.	Upon completion of this course, students will be able to	PSO addressed	CL
CO-1	recall different zones of the sea	1	Re
CO-2	differentiate the physical and chemical properties of seawater and its impact on ocean life	3	Un
CO-3	classify the flora and fauna of estuaries, mangroves and salt marshes and their adaptations	2	Ap
CO-4	analyse the role of microbes in recycling of nutrients and the impact of pollution on marine life	3	An
CO-5	appraise the complexity and diversity of resources in the marine environment	5	An
CO-6	develop skills in a range of theoretical and practical applications on bioactive substances	6	Cr

Course Outcome:

Core Elective**A . Ornamental Fish Culture****Course Code: 21PZOE41****Hrs/ Week: 4****Hrs/ Sem: 60****Credits: 4****Course Outcome:**

CO. No.	Upon completion of this course, students will be able to	PSO addressed	CL
CO-1	explain the construction, fabrication and accessories required for setting up an aquarium tank	1	Un
CO-2	apply the knowledge and skills in aquarium management	2	Ap
CO-3	evaluate the types and culture of live feed organisms and formulate the artificial feed	4	Ev
CO-4	demonstrate the mastery related with taxonomy, biology and transport of ornamental fish	3	Ap
CO-5	analyse the different breeding techniques employed for varieties of ornamental fish	6	An
CO-6	develop entrepreneurial skills and make aware of National and International export process and income generation	8	Cr

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