

AGI5572 Fisheries and Aquaculture

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5					
Optional (Agriculture)					
None					
Theory		Activity hours*	Independent Learning	Assessments	Total hrs
28SSS*2h=56h	5DS* 2h=10h	6LAB* 3h =18h	28 SSS *3h= 84h 6 LAB* 1.5 h =9h 22ONLS*1.5= 37.5h	TMA*5h= 5h 2 CAT*1.25h=2.5h 3LAB-RT*5=15h LAB-EV =1.5 h	238.5
*Practical/Design/Field work/case study					
To provide knowledge through theory and experiments in a variety of biological and agricultural sciences.					
<p>PLO1: To apply theoretical knowledge in technical activities.</p> <p>PLO2: To demonstrate skills and techniques effectively and efficiently in the relevant fields.</p> <p>PLO3: Apply advanced knowledge and technology for the betterment of industry and/or the appropriate fields.</p> <p>PLO4: Apply scientific and technology knowledge how to identify problems in the industry and/or relevant fields.</p> <p>PLO5: Ability to critically analyse, appraise, interpret and evaluate the complex industrial issues.</p> <p>PLO6: To solve technical and non-technical problems providing valid conclusions with multi-disciplinary approach</p> <p>PLO7: To asses social and environmental issues related to industry and/or relevant fields.</p> <p>PLO8: To demonstrate the commitment to address health, safety ethical and legal aspects in industrial practices.</p> <p>PLO9: To communicate technical and non-technical information effectively and efficiently with the society at large.</p> <p>PLO10: To demonstrate personal responsibility, leadership qualities and ability to work in teams in the diverse work environments</p> <p>PLO11: To be able to engage in self-directed continuing professional development.</p> <p>PLO12: To identify business opportunities and plan, develop & launch new business ventures.</p>					

At the completion of this course student will be able to,

- CLO1: Explain the anatomy and physiology of fish. [PO1] [PO2] [PO3]
- CLO2: Discuss the ornamental fish farming. [PO1] [PO2] [PO3]
- CLO3: Identify the nature of the pond fish farming. [PO1] [PO2] [PO3]
- CLO4: Explain fish processing techniques. [PO1] [PO2] [PO3]
- CLO5: Explain possibilities of breeding of fish [PO1] [PO2] [PO3]
- CLO6: Explain the fisheries management [PO1] [PO2] [PO3]

Outline Syllabus:

Unit 1

- Session 1: Introduction to Fisheries and Aquaculture
- Session 2: Anatomy and Physiology of Fish
- Session 3: Integrating Animal Husbandry and Fish Farming I
- Session 4 Integrating Animal Husbandry and Fish Farming II
- Session 5: Pond Fish Culture
- Session 6: Ornamental Fisheries Management I
- Session 7: Ornamental Fisheries management II
- Session 8: Reservoir Fisheries

Unit 2

- Session 9: Marine Fisheries
- Session 10: Shrimp Farming I
- Session 11: Shrimp Farming II
- Session 12: Mollusc Farming I
- Session 13: Mollusc Farming II
- Session 14: Fish and Shrimp Processing
- Session 15: Fish and Shrimp Processing II
- Session 16: Fish and Shrimp Processing III

Unit 3

- Session 17: Breeding of Fish
- Session 18: Natural Food and Fish Feeds
- Session 19: Nutrition and Feed Formulation I
- Session 20: Nutrition and Feed Formulation II
- Session 21: Fish feed processing techniques I
- Session 22: Fish Feed Processing Techniques II
- Session 23: Fish Diseases and Health Management I
- Session 24: Fish Diseases and Health Management II
- Session 25: Aquatic Plants
- Session 26: Aquatic Plants Management
- Session 27: Fisheries Management
- Session 28: Fisheries Management II

Laboratory work: Yes