

DRAFT Syllabus For Trout Farming

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| Course Name | Trout Farming |
| Course Code | AGR/2023/TRFA/148 |
| Sector | Agriculture (Fisheries) |
| Occupation | Trout Fishing & Farming |
| Job Description | Cultivate Trout fishing and manage Trout fish Farming |
| Course Duration | 48 hrs |
| Trainees' Entry Qualification | CLASS 10th Standard Pass |
| Trainers Qualification | B.Sc. with Bio. Science with minimum 2yrs.experience in fisheries |

Structure of Course:

| Module No. | Module name | Outcome | Theory (Hrs) | Practical (Hrs) | Total (Hrs) |
|-------------------|--|--|---------------------|------------------------|--------------------|
| 1 | Introduction and basic information | Explain important of Trout Fishing | 6 | 2 | 8 |
| 2 | Site selection, soil and water quality management | Analyze water / Soil conditions | 6 | 2 | 8 |
| 3 | Model design and layout of a raceway for trout farming | Explains construction and technical specification of raceways for trout farming | 6 | 2 | 8 |
| 4 | Pre stocking and post stocking management | Demonstrate pre-stocking and post stocking management of trout farm | 6 | 2 | 8 |
| 5 | Feeding and health issues | Explain types of feed, Feed Conversion Ratio (FCR), feeding schedule and health issues with care and cure of fish diseases | 6 | 2 | 8 |
| 6. | Harvesting and marketing activities | Perform harvesting & marketing of trout fish | 6 | 2 | 8 |
| TOTAL: | | | 36 | 12 | 48 |

SYLLABUS:

Module No. 1: Introduction and basic information

Outcome: Explain important of Trout Fishing

Theory Content:

Introduction, Different types of trout, economic importance, why trout farming is so important

Practical Content:

Identification of different trouts with their key features.

Module No. 2: Site selection, soil and water quality management

Outcome: Analyze water / Soil conditions

Theory Content:

Familiarize with basic principles of site/slope selection, pond preparation, construction of raceways

Practical Content:

Analyze the water and soil quality parameters, water temp.DO, pH, soil pH

Module No. 3: Model design and layout of a raceway for trout farming

Outcome:

Explains construction and technical specification of raceways for trout farming

Theory Content:

Taught on technical specification for trout culture in raceway

Practical Content:

Practically cost estimation like capital cost, recurring cost, inputs for trout rearing and economic feasibility for 1 year production

Module No. 4: Pre stocking and post stocking management

Outcome:

Demonstrate pre-stocking and post stocking management of trout farm

Theory Content:

Taught on different steps of pre-stocking and post-stocking management

Practical Content:

Demonstrate the steps with inputs

Module No. 5: Feeding and health issues

Outcome:

Explain types of feed, Feed Conversion Ratio (FCR), feeding schedule and health issues with care and cure of fish diseases

Theory Content:

Taught on the principles and practices of feeding and feeding schedule, maintain fish health at various stages of growth of fishes as well as fish diseases and control measures.

Practical Content:

Taught on how to prepare home made feed with maintaining nutrition properly

Module No. 6: Harvesting and marketing activities**Outcome:**

Perform harvesting & marketing of trout fish

Theory Content:

Familiarize with the principles and practices of harvesting method and identify suitable markets.

Practical Content:

Survey on the demand of trout fish in the market, restaurant, hotels

Learning Outcome – Assessment Criteria

| Module No. | Outcome | Assessment Criteria |
|------------|---|--|
| 1 | Explain important of Trout Fishing | After completion of this module students will be able to: Identify different trout Explain the importance of this fish Explain the present status of trout farming |
| 2 | Analyze water / Soil conditions | After completion of this module students will be able to: Explain proper site selection Analyze the water and soil quality parameters, water temp.DO, pH, soil pH |
| 3 | Explains construction and technical specification of raceways for trout farming | After completion of this module students will be able to: Explain construction of the raceways Explain the technical specifications required in raceways for trout farming Be more confident in seeing the practical raceways. Estimate (i) Capital Cost, (ii) Input for trout rearing. Estimate economic feasibility for 1 year production. |

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| 4 | Demonstrate pre-stocking and post stocking management of trout farm | After completion of this module students will be able to: Explain pond preparation Demonstrate the steps in pre stocking management Demonstrate the steps involved in post stocking management |
| 5 | Explain types of feed, Feed Conversion Ratio (FCR), feeding schedule and health issues with care and cure of fish diseases | After completion of this module students will be able to: Explain home feed preparation Elucidate feeding schedule Explain health issues during farming. Maintain fish health at various stages of growth of fishes. Control of fish diseases. |
| 6 | Perform harvesting & marketing of trout fish | After completion of this module students will be able to: Familiarize with the principles and practices of harvesting method Identify suitable markets. Calculate market demand based on survey in market, restaurant and hotels. |

List of Tools, Equipment & materials needed for 30 Trainees (Practical)

| Sl No | Items Name | Specification | Qty |
|-------|--|---|----------------------|
| 1 | Laptop | Any company | 1 |
| 2 | White board | | 1 |
| 3 | Marker pen | | 3 (different colour) |
| 4 | Projector for audio visual aid | | 1 |
| 5 | pH paper | | 5 |
| 6 | Water and soil testing kits | Sky technology STI-440P6 | 2 |
| 7 | Sample of feed | | |
| 8 | Fish feed making machine | Proveg Enginnering and Processing Private Lt., 50-60kg/ hr | 1 |
| 9 | Feeding tray | | 2 |
| 10 | Sample medicines for fish diseases control | | LS |
| 11 | Microscope | | 1 |
| 12 | Sample nets | | 2 |
| 13 | Insulated box | | 2 |