# Curricula for MS in Fisheries Biology and Genetics

|  |  |
| --- | --- |
| **October-March (Winter) Semester** | |
| **Compulsory Courses**  (8 Credits) | **Credits** |
| FBG 501 Biology of Fishes | 2 |
| FBG 503 Advanced Fish Physiology | 2 |
| FBG 505 Fish Population and Conservation Genetics | 2 |
| FBG 507 Molecular Genetics | 2 |
| **Elective Courses** (4 Credits) |  |
| FBG 517 Biodiversity of Aquatic Animals | 2 |
| FBG 519 Fishery Systematic and Evolution | 2 |
| FBG 521 Experimental Design and Genetic Data Analysis | 2 |
| AQ 503 Fish Health Management | 2 |
| AQ 507 Advanced Aquaculture Feed Technology | 2 |
| FBG 502 Research work (3 Credits) | 3 (S/U) |
| Total Credit | 15 |
| **April-September (Summer) Semester** | |
| Compulsory Courses (8 Credits) | **Credits** |
| FBG 509 Fish Breeding and Stock Improvement | 2 |
| FBG 511 Endocrinology of Aquatic Animals | 2 |
| FBG 513 Fish Genetic Engineering and Biotechnology | 2 |
| FBG 515 Shellfish Biology | 2 |
| **Elective Courses**  (4 Credits) |  |
| FBG 523 Fish Behaviour | 2 |
| FBG 525 Embryology of Fishes | 2 |
| FBG 527 Advanced Ichthyology | 2 |
| FBG 529 Biology of Non-Piscine Aquatic Vertebrates | 2 |
| FM 507 Water Quality and Environmental Impacts | 2 |
| FT 525 Project Design and Management | 2 |
| FBG 502 Research work (3 Credits) | 3 (S/U) |
| **Total Credit** | 15 |
| **Thesis Semester** | |
| FBG 502 Research Work (2 Credits)  FBG 504 Evaluation of Thesis (5 Credits)  FBG 506 Thesis Defense (3 Credits) | 2 (S/U)  5  3 |
| **Total Credits** | 10 |
| GRAND TOTAL | 40 |

|  |  |
| --- | --- |
| Odd Number= Theory | Even Number = Practical |
| S = Satisfactory | U = Unsatisfactory |

# Curricula for MS in Aquaculture

|  |  |
| --- | --- |
| **October-March (Winter) Semester** | |
| **Compulsory Courses**  (8 Credits) | **Credits** |
| AQ 501 Advance Freshwater Aquaculture | 2 |
| AQ 503 Fish Health Management | 2 |
| AQ 505 Aquafarm Operation | 2 |
| AQ 507 Advanced Aquaculture Feed Technology | 2 |
| **Elective Courses** (4 Credits) | 2 |
| AQ 517 Mariculture | 2 |
| AQ 519 Culture of Fish Food Organisms | 2 |
| AQ 521 Advanced Fish Parasitology | 2 |
| AQ 523 Aquaculture Impact | 2 |
| Stat 529 Methods of Biostatistics | 2 |
| AQ502Research work (3 Credits) | 3 (S/U) |
| Total Credit | 15 |
| **April-September (Summer) Semester** | |
| Compulsory Courses (8 Credits) | **Credits** |
| AQ 509 Advanced Coastal Aquaculture | 2 |
| AQ 511 Integrated Aquaculture | 2 |
| AQ 513 Aquaculture Nutrition | 2 |
| AQ 515 Advanced Fish Pathology | 2 |
| **Elective Courses**  (4 Credits) |  |
| AQ 525 Aquarium Fish Culture | 2 |
| AQ 527 Mangrove Aquaculture | 2 |
| AQ 529 Fish Immunology | 2 |
| AQ 531 Geographical Information System in Aquaculture | 2 |
| FM 507 Water Quality and Environmental Impacts | 2 |
| FT 525 Project Design and Management | 2 |
| FBG 509 Fish Breeding and Stock Improvement | 2 |
| AQ502Research work (3 Credits) | 3 (S/U) |
| **Total Credit** | 15 |
| **Thesis Semester** | |
| AQ502Research Work (2 Credits)  AQ504Evaluation of Thesis (5 Credits)  AQ506Thesis Defense (3 Credits) | 2 (S/U)  5  3 |
| **Total Credits** | 10 |
| GRAND TOTAL | 40 |

|  |  |
| --- | --- |
| Odd Number= Theory | Even Number = Practical |
| S = Satisfactory | U = Unsatisfactory |

# Curricula for MS in Fisheries Management

|  |  |
| --- | --- |
| **October-March (Winter) Semester** | |
| **Compulsory Courses**  (8 Credits) | **Credits** |
| FM 501 Limnology | 2 |
| FM 503 Inland Fisheries Management | 2 |
| FM 505 Advanced Aquatic Ecology | 2 |
| FM 507 Water Quality and Environmental Impacts | 2 |
| **Elective Courses** (4 Credits) | 2 |
| FM 517 Ecology of Fishes | 2 |
| FM 519 Riverine Fisheries Management | 2 |
| FM 521 Community Based Fisheries Management | 2 |
| FM 523 Wetland Ecosystem and Fisheries Biodiversity | 2 |
| FM 525 Laboratory Techniques for Water Quality and Pollution Analysis | 2 |
| AQ 511 Integrated Aquaculture | 2 |
| AQ 503 Fish Health Management | 2 |
| Stat 529 Methods of Biostatistics | 2 |
| FM 502 Research work (3 Credits) | 3 (S/U) |
| Total Credit | 15 |
| **April-September (Summer) Semester** | |
| Compulsory Courses (8 Credits) | **Credits** |
| FM 509 Advanced Fish Population Dynamics | 2 |
| FM 511 Aquatic Environmental Pollution and Toxicology | 2 |
| FM 513 Marine Fisheries Management | 2 |
| FM 515 Fisheries Resources | 2 |
| **Elective Courses**  (4 Credits) |  |
| FM 527 Oceanography | 2 |
| FM 529 Mangrove Exploitation and Management | 2 |
| FM 531 Aquatic Soil Science | 2 |
| FM 533 Biology and Management of Aquatic Plants | 2 |
| FM 535 Coastal and Marine Ecology | 2 |
| FBG 505 Fish Population and Conservation Genetics | 2 |
| FT 525 Project Design and Management | 2 |
| FM 502 Research work (3 Credits) | 3 (S/U) |
| **Total Credit** | 15 |
| **Thesis Semester** | |
| FM 502 Research Work (2 Credits)  FM 504 Evaluation of Thesis (5 Credits)  FM 506 Thesis Defense (3 Credits) | 2 (S/U)  5  3 |
| **Total Credits** | 10 |
| GRAND TOTAL | 40 |

|  |  |
| --- | --- |
| Odd Number= Theory | Even Number = Practical |
| S = Satisfactory | U = Unsatisfactory |

# Curricula for MS in Fisheries Technology

|  |  |
| --- | --- |
| **October-March (Winter) Semester** | |
| **Compulsory Courses**  (8 Credits) | **Credits** |
| FT 501 Fish Preservation Technology | 2 |
| FT 503 Fish Processing Technology | 2 |
| FT 505 Advanced Fisheries Microbiology | 2 |
| FT 507 Advanced Fishing Technology | 2 |
| **Elective Courses** (4 Credits) |  |
| FT 517 Analytical Techniques in Fish Processing | 2 |
| FT 519 Industrial Fishery Management | 2 |
| AQ 507 Advanced Aquaculture Feed Technology | 2 |
| Stat 529 Methods of Biostatistics | 2 |
| FM 511 Aquatic Environmental Pollution and Toxicology | 2 |
| FT 502 Research work (3 Credits) | 3 (S/U) |
| Total Credit | 15 |
| **April-September (Summer) Semester** | |
| Compulsory Courses (8 Credits) | **Credits** |
| FT 509 Fishery Products Technology | 2 |
| FT 511 Quality Control of Fish and Fishery Products | 2 |
| FT 513 Fish Processing Biochemistry | 2 |
| FT 515 Biotechnology in Fish Processing | 2 |
| **Elective Courses**  (4 Credits) |  |
| FT 521 Fish Microbiological Techniques | 2 |
| FT 523 Fishery By-products Technology | 2 |
| FT 525 Project Design and Management | 2 |
| AQ 513 Aquaculture Nutrition | 2 |
| FT 502 Research work (3 Credits) | 3 (S/U) |
| **Total Credit** | 15 |
| **Thesis Semester** | |
| FT 502 Research Work (2 Credits)  FT 504 Evaluation of Thesis (5 Credits)  FT 506 Thesis Defense (3 Credits) | 2 (S/U)  5  3 |
| **Total Credits** | 10 |
| GRAND TOTAL | 40 |

|  |  |
| --- | --- |
| Odd Number= Theory | Even Number = Practical |
| S = Satisfactory | U = Unsatisfactory |