**Course Curricula and Syllabus for PhD Degree**

**Department of Fisheries Biology and Genetics**

**Bangladesh Agricultural University**

**Mymensingh**

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| --- | --- | --- |
| **Summer Semester (April-September)** | | |
| A. Compulsory Courses (9 Credits) | | |
| Course Code | Course Title | Credit |
| FBG 601 | Applied Biology of Fishes | 3 |
| FBG 603 | Advanced Fish Population and Conservation Genetics | 3 |
| FBG 605 | Experimental Design and Data Analysis | 3 |
| **B. Elective Courses (3 Credits)** | | |
| Course Code | Course Title | Credit |
| FBG 613 | Fish Biodiversity and Systematics | 3 |
| FBG 615 | Fish Physiology and Endocrinology | 3 |
| FBG 617 | Advanced Fish Cryobiology | 3 |
| **Winter Semester (October-March)** | | |
| **A. Compulsory Courses (9 Credits)** | | |
| Course Code | Course Title | Credit |
| FBG 607 | Applied Fish Breeding and Stock Improvement | 3 |
| FBG 609 | Research Planning and Technical Writing | 3 |
| FBG 611 | Advanced Fish Genetic Engineering and Biotechnology | 3 |
| **B. Elective Courses (3 Credits)** | | |
| Course Code | Course Title | Credit |
| FBG 619 | Biology of Shellfish | 3 |
| FBG 621 | Developmental Biology of Fish | 3 |
| FBG 623 | Genomics in Fisheries and Aquaculture | 3 |
|  | | |
| Seminar | | 4 (S/U) |
| Research Report (End of First and third year) | | 4 (S/U) |
| Research | | 23 (S/U) |
| Dissertation Evaluation | | 15 (S/U) |
| Dissertation Defense | | 6 (S/U) |
| **Grand Total** | | 76 |

**S/U where S=Satisfactory and U=Unsatisfactory**

**Course Curricula and Syllabus for PhD Degree**

**Department of Aquaculture**

**Bangladesh Agricultural University**

**Mymensingh**

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| **April – September Semester** | | | | | |
| **A: Compulsory Courses (9 Credits)** | | | | | |
| **Course Code** | | **Course Title** | **Credit** | | |
| AQ 601 | | Aquaculture Systems | 3 | | |
| AQ 603 | | Advanced Fish Nutrition and Feed Technology | 3 | | |
| AQ 605 | | Automated Aquaculture Systems | 3 | | |
| **B: Elective Courses (4 Credits)** | | | | | |
| **Course Code** | | **Course Title** | **Credit** | | |
| AQ 613 | | Aquafarm Planning and Operation | 2 | | |
| AQ 615 | | Techniques for Aquatic Animal Disease Research | 2 | | |
| AQ 617 | | Fish Nutrition and Environment | 2 | | |
| AQ 619 | | Instrumentation in Aquaculture | 2 | | |
| AQ 621 | | Bioinformatics of Aquatic Pathogens | 2 | | |
| **October − March Semester** | | | | | |
| **A: Compulsory Courses (9 Credits)** | | | | | |
| **Course Code** | | **Course Title** | **Credit** | | |
| AQ 607 | | Diseases and Health Management of Aquatic Organisms | 3 | | |
| AQ 609 | | Experimental Designs and Data Analysis for Aquaculture | 3 | | |
| AQ 611 | | Manuscript Writing and Publishing | 3 | | |
| **B: Elective Courses (2 Credits)** | | | | | |
| **Course Code** | | **Course Title** | **Credit** | | |
| AQ 623 | | Advanced Bioenergetics | 2 | | |
| AQ 625 | | Aquaculture Value-Chain | 2 | | |
| AQ 627 | | Aquatic Pharmacology and Medicine | 2 | | |
| AQ 629 | | Nutrition and Feeding of Crustaceans | 2 | | |
|  | | | | | |
| Seminar (Two) | | |  | 4 (S/U) | |
| Research Reports (End of first and third year) | | |  | 4 (S/U) | |
| Research | | |  | 23 (S/U) | |
| Dissertation evaluation | | |  | 15 (S/U) | |
| Dissertation defense | | |  | 6 (S/U) | |
| **GRAND TOTAL** | | |  | 76 | |

**S/U where S=Satisfactory and U=Unsatisfactory**

**Course Curricula and Syllabus for PhD Degree**

**Department of Fisheries Management**

**Bangladesh Agricultural University**

**Mymensingh**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **April – September Semester** | | | | |
| **A: Compulsory Courses (9 Credits)** | | | | |
| Course Code | | Course Title | | Credit |
| FM 601 | | Applied Aquatic Ecology | | 3 |
| FM 603 | | Applied Limnology | | 3 |
| FM 605 | | Fisheries Dynamics and Assessment | | 3 |
| **B: Elective Courses (3 Credits)** | | | | |
| Course Code | | Course Title | | Credit |
| FM 613 | | Advanced Phycology | | 3 |
| FM 615 | | Advanced Aquatic Soil Science | | 3 |
| FM 617 | | Hilsa Fisheries | | 3 |
| FM 619 | | Computation and Modeling of Fisheries Data | | 3 |
| FM 621 | | Aquatic Ecological Impact Assessment | | 3 |
| FM 623 | | Shellfish Resources Management | | 3 |
| FM 625 | | Gender in Fisheries | | 3 |
| **October − March Semester** | | | | |
| **A: Compulsory Courses (9 Credits)** | | | | |
| Course Code | | Course Title | | Credit |
| FM 607 | | Aquatic Pollution, Climate change and Fisheries | | 3 |
| FM 609 | | Advanced Fisheries Management | | 3 |
| FM 611 | | Project planning and Scientific Writing in Fisheries | | 3 |
| **B: Elective Course (3 Credits)** | | | | |
| Course Code | | Course Title | | Credit |
| FM 627 | | Haor and Beel Fisheries | | 3 |
| FM 629 | | Sundarbans Mangroves Biodiversity & Ecosystem | | 3 |
| FM 631 | | Aquatic Biodiversity and Conservation | | 3 |
| FM 633 | | Coastal and Estuarine Fisheries | | 3 |
| FM 635 | | Kaptai Lake Fisheries | | 3 |
| FM 637 | | Halda River Fisheries | | 3 |
| AAS 627 | | Advanced Biostatistical Methods | | 3 |
|  | | | | |
| Seminar (Two) | |  | 4 (S/U) |
| Research Reports (End of first and third year) | |  | 4 (S/U) |
| Research | |  | 23 (S/U) |
| Dissertation evaluation | |  | 15 (S/U) |
| Dissertation defense | |  | 6 (S/U) |
| **GRAND TOTAL** | |  | 76 |

**S/U where S=Satisfactory and U=Unsatisfactory**

**Course Curricula and Syllabus for PhD Degree**

**Department of Fisheries Technology**

**Bangladesh Agricultural University**

**Mymensingh**

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| --- | --- | --- | --- | --- |
| **April – September Semester** | | | | |
| **A:Compulsory Courses (9 Credits)** | | | | |
| Course Code | | Course Title | Credit | |
| FT 601 | | Advanced Processing Technology of Fish and Fishery products | 3 | |
| FT 603 | | Advanced Fisheries Biochemistry and Biotechnology | 3 | |
| FT 605 | | Applied Fisheries Microbiology | 3 | |
| **B:Elective Courses (2/4 Credits)** | | | | |
| Course Code | | Course Title | Credit | |
| FT 613 | | Design and Management of Fisheries Experiment | 3 | |
| FT 615 | | Advanced Harvest and Post-Harvest Handling and Preservation of Fish | 3 | |
| FT 617 | | Sustainability Concepts in Seafood Processing | 3 | |
|  | |  |  | |
|  | |  |  | |
| **October − March Semester** | | | | |
| **A:Compulsory Courses (9 Credits)** | | | | |
| Course Code | | Course Title | Credit | |
| FT 607 | | Advanced Fisheries Analytical Techniques | 3 | |
| FT 609 | | Advanced Quality Control and Seafood Safety | 3 | |
| FT 611 | | Advanced Industrial Fisheries Management | 3 | |
| **B:Elective Course (2/4 Credits)** | | | | |
| Course Code | | Course Title | Credit | |
| FT 619 | | Aquatic Environmental Microbiology | 3 | |
| FT 621 | | Occupational Safety and Wellness of Fishery Operators | 3 | |
| AAS 614 | | Advanced Biostatistical Methods | 3 | |
|  | |  |  | |
|  | | | | |
| Seminar (Two) | |  | 4 (S/U) | |
| Research Reports (End of first and third year) | |  | 4 (S/U) | |
| Research | |  | 23 (S/U) | |
| Dissertation evaluation | |  | 15 (S/U) | |
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| **GRAND TOTAL** | |  | 76 | |

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