**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**

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| **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) |
| Dissertation defense |  | 6 (S/U) |
| **GRAND TOTAL** |  | 76 |

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