**BSc. Fisheries and Aquaculture**

The programme addresses capture fisheries which depends on wild fish stocks and aquaculture which is the production of aquatic organisms under controlled conditions.The overall objective of the programme is to produce well trained and skilled persons understanding the dynamics of aquatic ecosystems. Graduates of this programme should be able to sustainably utilise aquatic resources for the present and future generations.

**YEAR 1 SEMESTER ONE**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **COURSE BFA** | **TITLE** | **(LH)** | **(TH)** | **(PH)** | **(CH)** | **(CU)** |
| BFA101 | INTRODUCTION TO FISHERIES SCIENCE | 45 | - | - | 45 | 3 |
| BFA 102 | BASIC FISH BIOLOGY | 45 | 15 | 30 | 75 | 5 |
| BFA 103 | LIMNOLOGY | 45 | 15 | 30 | 75 | 5 |
| BFA 104 | BASIC AQUATIC ECOLOGY | 30 | 15 | - | 45 | 3 |
| BFA 105 | EVOLUTION & CLASSIFICATION | 30 | - | 30 | 45 | 3 |
|  |  |  |  | **TOTAL** |  | **19** |

**YEAR I SEMESTER TWO**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **COURSE**  **BFA** | **TITLE** | **LH** | **TH** | **PH** | **CH** | **CU** |
| BFA106 | POPULATION GENETICS | 45 | - | 20 | 60 | 4 |
| BFA 107 | INTRODUCTION TO FUNCTIONAL ANATOMY | 30 | - | 30 | 30 | 3 |
| BFA 108 | ENVIRONMENTAL CHEMISTRY | 30 | - | 20 | 45 | 3 |
| BFA 109 | BASIC PARASITOLOGY | 35 | - | 30 | - | 3 |
| BFA 110 | AQUATIC MICROBIOLOGY | 45 | - | 30 | 60 | 4 |
|  |  |  |  | **TOTAL** |  | **17** |

***YEAR II SEMESTER ONE***

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **COURSE**  **BFA** | **TITLE** | **LH** | **TH** | **PH** | **CH** | **CU** |
| BFA211 | CELL & MOLECULAR BIOLOGY | 40 | - | 40 | 60 | 4 |
| BFA 212 | AQUACULTURE SYSTEMS | 30 | - | 30 | 45 | 3 |
| BFA 213 | INTRODUCTION TO COMPUTER AND INFORMATION SCIENCE | 30 | - | 30 | 60 | 4 |
| BFA 214 | COMMON FISH DISEASE | 55 | - | 40 | 75 | 5 |
| BFA 215 | DIAGNOSTICS OF FISH DISEASES | 30 | - | 30 | 45 | 3 |
|  |  |  |  |  | TOTAL | 19 |

***YEAR II SEMESTER II***

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **COURSE**  **BFA** | **TITLE** | **LH** | **TH** | **PH** | **CH** | **CU** |
| BFA221 | BIOSTATISTICS | 30 | 15 | 30 | 60 | 4 |
| BFA 222 | RESEARCH METHODS & COMMUNICATION SKILLS | 30 | - | 30 | 30 | 2 |
| BFA 223 | BIOMATHEMATICS & FISHERIES STOCK ASSESSMENT | 55 | - | 40 | 75 | 5 |
| BFA 224 | AQUATIC RESOURCE MANAGEMENT | 45 | - | 60 | 45 | 5 |
| BFA 225 | FISHERIES SOCIO-ECONOMICS | 45 | - | - | 45 | 3 |

***RECESS TERM:***

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| BFA 221 | INTERNSHIP | - | - | - | 120 | 5 |

***YEAR III SEMESTER ONE***

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| --- | --- | --- | --- | --- | --- | --- |
| **COURSE**  **BFA** | **TITLE** | **LH** | **TH** | **PH** | **CH** | **CU** |
| BFA 211 | FISHERIES & AQUACULTURE EXTENSION | 35 | - | 20 | 45 | 3 |
| BFA 212 | FISH MARKETING & TRANSPORTATION | 35 | - | 20 | 45 | 3 |
| BFA 213 | AQUATIC ENVIRONMENTAL HEALTH | 30 | - | 30 | 45 | 3 |
| BFA 214 | POND SITING CONSTRUCTION & MANAGEMENT | 30 | - | 30 | 45 | 3 |
| BFA 215 | DESIGN & CONSTRUCTION OF FISHING GEARS | 30 | - | 30 | 45 | 3 |
| **ELECTIVES** | | | | | | |
| BFA 216 | FISH PROCESSING TECHNOLOGY & QUALITY ASSURANCE | 40 | - | 40 | 60 | 4 |
| F&A 217 | FISH BREEDING & APPLIED ENDOCRINOLOGY | 40 | - | 40 | 60 | 4 |
| **YEAR III SEMESTER TWO** | | | | | | |
| BFA 321 | LARVAL FOOD PRODUCTION & HATCHERY MANAGEMENT | 30 | - | 30 | 45 | 3 |
| BFA 322 | “NON-CONVENTIONAL AQUATIC RESOURCES” | 40 | - | 10 | 45 | 3 |
| BFA 323 | CICHLID CULTURE | 30 | - | 30 | 45 | 3 |
| BFA 324 | ENVIRONMENTAL PROTECTION & IMPACT ASSESSMENT | 30 | - | 30 | 45 | 3 |

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| --- | --- | --- | --- | --- | --- | --- |
| **ELECTIVES** | | | | | | |
| BFA 333 | FED FORMULATION AND ANALYSIS | 40 | - | 40 | 60 | 4 |
| BFA 334 | CULTURE OF CYPRINIDS & AFRICAN CATFISHES | 40 | - | 40 | 60 | 4 |