

**Curriculum & Syllabus Implemented from  
Academic Session 2023-2024**

**M.F.Sc. (Aquaculture)**

**Sri Dev Suman Uttarakhand University, Badshahithaul,  
Tehri (Garhwal) Uttarakhand (249199)**

### Semester-I (First Year)

| Sl. No. | Course Title   | Course Code | Credit Hours    | Ex         | Int        | Total       |
|---------|--|-------------|-----------------|------------|------------|-------------|
| 1       | Freshwater Aquaculture Production Systems*           | AQC 501     | 2+1             | 60         | 40         | 100         |
| 2       | Coastal Aquaculture and Mariculture Farming Systems* | AQC 502     | 2+1             | 60         | 40         | 100         |
| 3       | Hatchery Technology for Finfishes and Shellfishes*   | AQC 503     | 2+1             | 60         | 40         | 100         |
| 4       | Aquaculture Policy and Planning*                     | AQC 504     | 1+1             | 60         | 40         | 100         |
| 5       | Fish Nutrition and Feed Technology*                  | AQC 505     | 2+1             | 60         | 40         | 100         |
| 6       | Larval Nutrition and Live Feed Production            | AQC 508     | 1+1             | 60         | 40         | 100         |
| 7       | Commercial Ornamental Fish Breeding and Culture      | AQC 511     | 1+1             | 60         | 40         | 100         |
| 8       | Library and Information Services                     |             | 0+1             | 0          | 100        | 100         |
| 9       | Basic concepts in Laboratory Techniques              |             | 0+1             | 0          | 100        | 100         |
| 10      | Practical-I  |             |                 | 60         | 40         | 100         |
| 11      | Practical-II   |             |                 | 60         | 40         | 100         |
|         | <b>Total Credits</b>                                 |             | <b>20(11+9)</b> | <b>540</b> | <b>560</b> | <b>1100</b> |

### Semester-II (First Year)

| Sl. No. | Course Title  | Course Code | Credit Hours    | Ex         | Int        | Total       |
|---------|---|-------------|-----------------|------------|------------|-------------|
| 1       | Soil and Water Quality Management in Aquaculture*                       | AQC 506     | 2+1             | 60         | 40         | 100         |
| 2       | Therapeutics and Health Management in Aquaculture*                      | AQC 507     | 2+1             | 60         | 40         | 100         |
| 3       | Coldwater Aquaculture and Recreational Fisheries                        | AQC 515     | 1+1             | 60         | 40         | 100         |
| 4       | Recirculating Aquaculture Systems                                       | AQC 516     | 1+1             | 60         | 40         | 100         |
| 5       | Statistical Methods for Applied Sciences                                | STAT 502    | 3+1             | 60         | 40         | 100         |
| 6       | Experimental Designs  | STAT 511    | 2+1             | 60         | 40         | 100         |
| 7       | Technical Writing and Communication Skills                              |             | 0+1             | 0          | 100        | 100         |
| 8       | Intellectual Property and its management in Agriculture                 |             | 1+0             | 60         | 40         | 100         |
| 9       | Agricultural Research, Research ethics and Rural Development Programmes |             | 1+0             | 60         | 40         | 100         |
| 10      | Practical-I   |             |                 | 60         | 40         | 100         |
| 11      | Practical-II  |             |                 | 60         | 40         | 100         |
|         | <b>Total Credits</b>  |             | <b>20(13+7)</b> | <b>600</b> | <b>500</b> | <b>1100</b> |

### Semester-III (Second Year)

| Sl. No. | Course Title         | Course Code | Credit Hours    | Ex       | Int        | Total      |
|---------|----------------------|-------------|-----------------|----------|------------|------------|
| 1       | Master's Seminar     | AQC 591     | 0+1             | 0        | 100        | 100        |
| 2       | Master's Research    | AQC 599     | 0+15            | 0        | 0          | 0          |
|         | <b>Total Credits</b> |             | <b>16(0+16)</b> | <b>0</b> | <b>100</b> | <b>100</b> |

### Semester-IV (Second Year)

| Sl. No. | Course Title         | Course Code | Credit Hours    | Ex        | Int       | Total      |
|---------|----------------------|-------------|-----------------|-----------|-----------|------------|
| 1       | Master's Research    | AQC 599     | 0+15            | 60        | 40        | 100        |
|         | <b>Total Credits</b> |             | <b>15(0+15)</b> | <b>60</b> | <b>40</b> | <b>100</b> |

**Note: Evaluation of Master's Research (AQC599) will be done in the fourth semester out of 30 credits (i.e. 0+15 in 3<sup>rd</sup> semester and 0+15 in 4<sup>th</sup> semester).**

Major courses- \*

Grand Total Credits- 71 (24+47)

#### Summary of Credits

| Semester     | Theory    | Practical | Total     |
|--------------|-----------|-----------|-----------|
| I            | 11        | 9         | 20        |
| II           | 13        | 7         | 20        |
| III          | 0         | 16        | 16        |
| IV           | 0         | 15        | 15        |
| <b>Total</b> | <b>24</b> | <b>47</b> | <b>71</b> |

#### Summary of Marks

| Semester     | External    | Internal    | Total       |
|--------------|-------------|-------------|-------------|
| I            | 540         | 560         | 1100        |
| II           | 600         | 500         | 1100        |
| III          | 0           | 100         | 100         |
| IV           | 60          | 40          | 100         |
| <b>Total</b> | <b>1380</b> | <b>1020</b> | <b>2400</b> |

**Evaluation:**

| <b>Degree</b> | <b>Percentage of Marks Obtained</b>       | <b>Conversion into Points</b> |
|---------------|---|-------------------------------|
| <b>All</b>    | 100                                       | 10 Points                     |
|               | 90 to <100                                | 9 to <10                      |
|               | 80 to <90                                 | 8 to <9                       |
|               | 70 to <80                                 | 7 to <8                       |
|               | 60 to <70                                 | 6 to <7                       |
|               | 50 to <60                                 | 5 to <6                       |
|               | <50 (Fail)                                | <5                            |
|               | <i>Eg. 80.76</i>                          | 8.076                         |
|               | 43.60                                     | 4.360                         |
|               | <b>72.50 (but shortage in attendance)</b> | <b>Fail (1 point)</b>         |

**Allotment of Division:**

| <b>OGPA</b>     | <b>Divisions</b>            |  |
|-----------------|-----------------------------|--|
| 5.000 – 5.999   | Pass                        |  |
| 6.000 – 6.999   | II division                 |  |
| 7.000 – 7.999   | I division                  |  |
| 8.000 and above | I division with distinction |  |

**GPA = Total points scored / Total credits (for 1 semester)**

|              |  |
|--------------|--|
| CGPA =       | $\Sigma$ Total points scored / Course credits                                  |
| OGPA =       | $\Sigma$ Total points scored (after excluding failure points) / Course credits |
| % of Marks = | OGPA x 100/10  |