GOVERNOR'S SECRETARIAT, BIHAR
RAJ BHAVAN, PATNA-800022

Letter No.BU(Regulation)-33/2014- /GS(I) Dated

From,

A.L. Srivastava
Officer on Special Duty (Judl.)

To,

The Vice Chancellor
B.R.A. Bihar University,
Muzaffarpur.

Sub:- Regarding approval of the Ordinance and Regulations of Master of Science Course in Fish & Fisheries of B.R.A. Bihar University, Muzaffarpur.

Sir,

I am directed to invite a reference to the University's letter no B/2500, dated 4.12.2014 on the subject noted above and to inform that the Hon'ble Chancellor, after due consideration of the proposal of the University, advice of the Advisory Committee and in exercise of powers vested in him under Section 38(2) and 39(2)(ii) of the Bihar Universities Act, 1976, as amended up to date, has been pleased to approve the Ordinance and Regulations of **Master of Science Course in Fish & Fisheries** of B.R.A. Bihar University, Muzaffarpur (copy enclosed) from the Session 2009-2015 and onwards.

Further necessary action may kindly be taken accordingly.

Yours faithfully

Sd/-

(A.L. Srivastava)
Officer on Special Duty (Judl.)

Encl:-As above

Memo No. BU(Regulation)- 33/2014-
Copy of the approved **Master of Science Course in Fish & Fisheries** of B.R.A. Bihar University, Muzaffarpur (copy enclosed) from the Session 2009-2015 and onwards forwarded to Principal Secretary, Education Department, Govt. of Bihar for information and necessary action.

Sd/-

(A.L. Srivastava)
Officer on Special Duty (Judl.)

Encl:-As above

Memo No. BU-(Regulation)-33/2014- 182 /GS(I) Dated 14-8-2015
Copy of the approved **Master of Science Course in Fish & Fisheries** of B.R.A. Bihar University, Muzaffarpur (copy enclosed) from the Session 2009-2015 and onwards forwarded to Scientist-D, In-charge Computer Cell, Raj Bhavan, Patna for uploading on the website of Raj Bhavan/Guard File of Regulations and Ordinance of B.R.A. Bihar University, Muzaffarpur.

Encl:-As above

(A.L. Srivastava)
Officer on Special Duty (Judl.)
Draft Ordinance of M.Sc. Fish and Fisheries (Self-finance)

1. Name of the Course:-
The course shall be named as M.Sc. Fish and Fisheries.

2. Eligibility:-
A candidate desirous to seek admission in Fish & Fisheries should possess B.Sc. (Hons.) degree in three years degree stream from this University or any equivalent examination of any other recognized university (Indian or Foreign) securing at least 45% marks in Industrial Fish & Fisheries/ Zoology/ Animal Science/Life Science/Agriculture.

3. Number of seats:-
The number of seats for the course shall be 20.

4. Selection and Admission:-
Eligible applicants will appear in the Entrance Test to be conducted by the University. It will be a graduate level written examination of one paper with both objective and subjective type questions from Zoology and related disciplines followed by a viva-voce examination. Merit list will be prepared on the basis of performance of the candidates in the entrance test and viva-voce examination for admission in M.Sc. Fish and Fisheries course. The written examination will carry 80 marks and the viva-voce examination will be of 20 marks.

Rules of reservation roster adopted by the University/State Government will be followed at the time of admission. In case, no candidate from any reserved category is available or eligible for admission, the seat will be treated as unreserved and will be made available for general category candidates.

Students admitted in the Course will not be allowed to join any other course /job during the same period.

5. Fee Structure:-
The selected candidates will have to pay a fee as follows:-

a) M.Sc. Previous
   - I. Tuition Fee : Rs. 12,000/-
   - II. Development Fee : Rs. 5,000/-
   - III. Laboratory Fee : Rs. 3,000/-
   - IV. Library Fee : Rs. 1,000/-
   - Total : Rs. 21,000/-

b) M.Sc. Final
   - I. Tuition Fee : Rs. 12,000/-
   - II. Laboratory Fee : Rs. 8,000/-
   - III. Library Fee : Rs. 1,000/-
   - Total : Rs. 21,000/-

Admitted students are required to bear the cost of field works within the country or overseas and group study tours arranged by the M.Sc. Fish & Fisheries Department.

6. Duration of the Course:-
Duration of the course shall be of 2 years.

7. Accommodation:-
Students will be accommodated in the University hostel as per rule if they so apply.
Draft Regulation of M.Sc. Fish and Fisheries (Self-finance)

1. Name of the Course:-
   Name of the Course will be M.Sc. Fish and Fisheries.

2. Duration:-
   The Course leading to award of M.Sc. Fish and Fisheries degree shall be of 2 years duration. At the end of each academic year, there shall be an University Examination known as M.Sc. Previous Examination at the end of First year of the Course and the M.Sc. Final Year Examination at the end of the second year of the course.

3. Eligibility:-
   A candidate desirous to seek admission in M.Sc. Fish & Fisheries should possess B.Sc. (Hons.) degree in three years degree stream from this university or any equivalent examination of any other recognized university (Indian or Foreign) securing at least 45% marks in Industrial Fish & Fisheries/ Zoology/ Animal Science/Life Science/Agriculture.

4. Course Structure
   The course structure of syllabus will be as follows.

<table>
<thead>
<tr>
<th>Paper</th>
<th>M.Sc. Previous</th>
<th>Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paper-I</td>
<td>Taxonomy and Anatomy</td>
<td>100</td>
</tr>
<tr>
<td>Paper-II</td>
<td>Behavior and Fish Population Dynamics</td>
<td>100</td>
</tr>
<tr>
<td>Paper-III</td>
<td>Physiology and Endocrinology</td>
<td>100</td>
</tr>
<tr>
<td>Paper-IV</td>
<td>Bio-Chemistry and Histology</td>
<td>100</td>
</tr>
<tr>
<td>Paper-V</td>
<td>Managerial Economics and Capture Fisheries</td>
<td>100</td>
</tr>
<tr>
<td>Paper-VI</td>
<td>Economics of Fisheries Production and Organisation Management</td>
<td>100</td>
</tr>
<tr>
<td>Paper-VII</td>
<td>Laboratory practical works pertaining to Paper-I, II &amp; III and the assigned project work</td>
<td>100</td>
</tr>
<tr>
<td>Paper-VIII</td>
<td>Laboratory practical works pertaining to Paper-IV, V, VI and field works</td>
<td>100</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Paper</th>
<th>M.Sc. Final</th>
<th>Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paper-IX</td>
<td>Breeding Technology &amp; Seed Production Technology</td>
<td>100</td>
</tr>
<tr>
<td>Paper-X</td>
<td>Fishing Gears &amp; Principles and Fabrication: Fishing Gear Designing</td>
<td>100</td>
</tr>
<tr>
<td>Paper-XI</td>
<td>Fish Preservation Technology &amp; Fishery By products</td>
<td>100</td>
</tr>
<tr>
<td>Paper-XII</td>
<td>Fish Marketing &amp; Marketing Institutions</td>
<td>100</td>
</tr>
<tr>
<td>Paper-XIII</td>
<td>Operation Management for Fisheries Industry and Management of Fish and Shrimp Grow out Systems</td>
<td>100</td>
</tr>
</tbody>
</table>
5. **Conduct of Examination:**

The M.Sc. Previous Examination will consist of 6 theory papers of 3 hours duration each and two practical papers of 8-hour duration each at the conclusion of the session. The theory and practical papers carry 100 marks each. The students will have to submit their field collections and project reports at practical examination. Students will have to undergo at least two months practical training in every session at a place decided by the Fish and Fisheries Department. Students pursuing M.Sc. Final Fish and Fisheries Course will appear in six theory papers and two practical papers of 3 hrs. and 8 hrs. duration respectively, carrying 100 marks each. Total marks in both the previous and final examination taken together shall be 1600 against all the 16 papers.

6. **Evaluation:**

Evaluation of answer books of theory papers for both M.Sc. Previous and Final Examinations shall be as per University rules.

3. **Publication of result:**

The result of successful examinees shall be declared on the basis of their performance at both the previous and final examination taken together.

That the examinee securing 60% and above marks in aggregate shall be placed in the first class and those securing 45% and above but below 60% marks in aggregate shall be placed in the second class in the Previous and the Final year examination provided he/she shall be required to secure at least 33% marks in aggregate of theory papers and 40% of the aggregate marks of practical papers in the M.Sc. Previous and Final examination.

A candidate who has passed M.Sc. Previous Examination but not satisfied with his/her performance, he/she may reappear in one or more theory papers (not exceeding 3) of the said examination to improve his/her previous performance.

If an examinee fails to pass or fails to secure second or first class by not more than 5 marks at previous and final years examinations taken together, he/she will be awarded the marks required to enable his/her to pass the examination or secure 2nd or 1st class, as the case may be, his/her result shall be accordingly declared.

The name of successful examinees shall be arranged in order of merit in the first and second class separately at the Final year examination.

That the ranking as per merit shall apply to final year examinees passing in respective examinations in single attempt only.

A candidate who is placed at the first position in first class at the final year examination shall be awarded a Gold Medal and a prize of books to the value of Rs. 200 provided that only one prize will be awarded in the subject, common to both previous and final examinations on the basis of results of both examinations taken together.