



VIKRAMA SIMHAPURI UNIVERSITY; NELLORE
DEPARTMENT OF MARINE BIOLOGY

Date: 09-01-2023

The BoS Meeting held on 09-01-2023 at 2:30 PM in the Department of Marine Biology, Vikrama Simhapuri University, Nellore.

Members Present:

1. **Dr. Ch. Vijaya** : **Chairman (BoS)**
2. **Dr. Ch. Venkatrayulu** : **Ex-officio Member & Head**
3. **Prof. M. Srinivasulu Reddy** : **Member (External)**
4. **Prof. A. Matta Reddy** : **Member (External)**
5. **Pro. D. Ravindra Kumar Reddy** : **Member (External)**
6. **Dr. Ch. Venkatrayulu** : **Member (Internal)**
7. **Dr. M. Hanuma Reddy** : **Member (Internal)**
8. **Dr. A. Ravi Kumar** : **Special Invitee**
9. **Dr. P. Srinivasa Rao** : **Special Invitee**
10. **Mr. M. Chenna Krishnaiah** : **Meritorious Student (1)**
11. **Mr. B. Venkata Renu** : **Meritorious Student (2)**

Agenda:

1. Syllabus preparation and programme structure as per NEP-2020 for the academic year 2022-23 onwards.
2. For courses present in VSU College, Nellore and Kavali and also in affiliated colleges.
3. As per the UGC mail dated 17.10.2022, Course on Cyber Security is Mandatory for all programmes from 2022-23 during first semester in place of Human values & Professional ethics. Syllabus from UGC is enclosed.
4. Programme regulations – Eligibility criteria for admission in to PG programme, maximum credits for each programme, minimum credits to qualify the program, pass marks for each course, external, internal marks, Practical's/ Projects/ Internships.

5. Model question papers, panel of examiners, scheme of examinations, Evaluation etc.
6. PhD. Paper I – Syllabus, Model Question paper for Paper- I & Paper – II. Paper-I should include topics on ethical, social and moral issues and anti-plagiarism.
7. Any other matter.

RESOLUTIONS MADE IN BOARD OF STUDIES MEETING

The members of BOS in Marine Biology finalized the syllabus and redrafted the M.Sc., Marine Biology syllabus to be implemented from the academic year 2022-23 onwards as per the NEP-2020.

1. Course pattern, Scheme of examination and List of panel of examiner for theory and practical examinations was also finalized and enclosed.
2. The BOS members are unanimously resolved to change and include 6 weeks of Internship/Project work programme in the final semester of the M.Sc., course for 100 marks (30 marks for Internal Assessment (IA) and 70 marks for External Assessment (EA)), previously it was given 8 credits and 200 marks.
3. The members are also resolved to include “Cyber Security” course into first semester for 100 marks (30 IA+70EA) without credits in place of Human Values and Professional Ethics.
4. Further the members of BoS are resolved to include Audit course –I & II in I & II semesters with zero credits under self study with 50 marks each (Internal Assessment only).
5. The members further resolved to recommend the change of course pattern as per the NEP-2020 detailed as below.
6. The members are also resolved to recommend to introduce one foundation elective MAB 104B: Principles of Aquaculture as new course in the first semester from 2022-23, based on the feedback from the department alumni students.
7. The members are resolved to recommend to introduce one Value Added Course (VAC) on “MBVAC-01: ORNAMENTAL FISH CULTURE TECHNOLOGY” in the department in the III Semester, based on inputs from the students of the department.

Details of the changes:

With respect to the course pattern

- The component of the syllabus was changed to include Core (2), Compulsory Foundation (2), Elective Foundation (2), Life skill course (1), Practical Papers (2), Audit Course (1) courses in I & II Semesters.
- All Core courses are mandatory and have to choose one course from Compulsory foundation and Elective Foundation courses in both I & II semesters.

- The syllabus component of III semester was changed to include Core (2); Generic Elective (2); Skill oriented course (1); Open Electives (3) courses.
- All Core courses & Skill oriented course are mandatory and have to choose one course only from Generic Elective in the III semester.
- The final semester (IV) syllabus component was changed to include Core(2); Generic Elective (2); Multi-disciplinary course/Project work/Internship(1); Open Elective (3); Skill enhancement Activity (SEA-I & II) courses.
- All Core courses & Multi- disciplinary course/Project work/Internship are mandatory where as the General elective has the option to choose any one in the IV semester.

With regard to the syllabus,

- Extra **two new theory papers** were added in first semester with four credits. The papers added 1. MAB: 103B: Marine Ecology; 2. MAB 104B: Principles of Aquaculture.
- Cyber Security course was included in the Life skill courses, instead of “Human values and Professional ethics” paper.
- Regarding practicals, in each semester two practicals of four credits each (100 marks) were included (Previously, four separate practical papers with 2 credits and 50 marks only) R-20 Regulations.
- All the practicals related to industrial importance were incorporated according to the suggestions of the BOS.
- In the fourth semester one Project work /Internship programme was included instead of one practical paper MAB: 405: Project /Internship.
- Educational Tour (Industrial/Research institutes) /Field visit Programs were included in the curriculum with 4 credits (50 Marks) in the Skill Enhancement Activity (MAB-SEA1) component.
- Seminar/Poster presentation also included in the curriculum with 2 credits (50 Marks) in the Skill Enhancement Activity (MAB-SEA2) component during IV Semester.

Changes during each Semester:

- **First Semester (Theory Papers)**

In theory paper MAB:101, titled ‘Introduction to Marine Biology’, topics like Phyto plankton and zooplankton were included in unit-II & III separately. “Benthos and Deep Sea” unit was changed from unit-III to unit-IV.

Theory paper MAB:103B, titled Marine Ecology added in the compulsory foundation courses as separate course paper.

Theory paper MAB:104B, titled ‘Principles of Aquaculture’ (**new course**) paper was included in the Elective foundation course.

- **First Semester (Practical Papers)**

- In practical paper, MAB:105P, titled ‘**Lab-I: One Core & One Compulsory Foundation**’, both course papers were included as one practical paper with 04 credits and 100 marks and incorporated new experiments.
- In practical paper, MAB:106P, titled ‘**Lab-II: One Core & One Elective Foundation**’, both course papers were included as one practical paper with 04 credits and 100 marks.

- **Second Semester (Theory Papers)**

Theory paper MAB:201: Physical & Chemical Oceanography

Theory paper MAB:202: Fishery Science

The above two course papers were included as core course papers in the syllabus

Theory paper MAB:203A: Physiology and Biochemistry

Theory paper MAB203B: was titled “Molecular Biology” (**new course paper added**)

The above two course papers were included as compulsory foundation course papers in the syllabus.

- Theory paper MAB204B was titled “ Cell Biology” as new course paper in elective foundation component and syllabus was framed according to the suggestions of BOS.

- **Second Semester (Practical Papers)**

- In practical paper, MAB:205P:Lab-I: One Core & One Compulsory Foundation’, both course papers were included & merged as one practical paper with 04 credits and 100 marks.
- In practical paper, MAB:206P Lab-II: One Core & One Elective Foundation’, both course papers were included & merged as one practical paper with 04 credits and 100 marks.

- **Third Semester (Theory Papers)**

Theory paper MAB:301: Coastal Aquaculture

Theory paper MAB:302: Marine Pollution and Toxicology

The above two course papers were included as core course papers in the III semester.

Theory paper MAB:303B: Marine Biodiversity was included as **new course paper** in the Generic Elective component.

Theory paper MAB:305: Fish Processing Technology (Theory & Lab-II) was included as mandatory **Skill oriented course** component with 100 marks.

Theory paper MAB:306A: Disaster Management

Theory paper MAB:306B: Ornamental Fish culture (New course paper)

Theory paper MAB:306C: Aquaculture Biotechnology (New course paper)

The above three course papers were included as Open Elective course papers in the III semester with 4 credits each.

- **Third Semester (Practical Papers)**

- In practical paper, MAB:304P:Lab-I: One Core & One Generic Elective', both course papers were included & merged as one practical paper with 04 credits and 100 marks,

- **Fourth Semester (Theory Papers)**

Theory paper MAB: 401: Marine Biotechnology (All the 4 units of the course have been changed without the change of title)

Newly added units are 1. History of biotechnology, 2. Bioactive Marine Natural Products, 3. Algal Biotechnology 4. Marine Enzymes.

Theory paper MAB: 402: Ocean Management & Remote Sensing

The above two course papers were included as core course papers in the IV semester.

Theory paper MAB:403B: Tools & Techniques in Biology (New course paper)

The above course paper included in Generic Elective component in IV semester

Theory paper MAB: 406A: Marine Resources & Conservation (New course paper)

Theory paper MAB: 406B: Disease & Health Management in Aquaculture (New course paper)

Theory paper MAB: 406C: Aquaculture Economics, Extension & Fish Marketing (New course paper).

The above three course papers were included as Open Elective course papers in the IV semester with 4 credits each.

- **Fourth Semester (Practical Papers)**

- Practical paper MAB:404P: Lab-I: One Core & One Generic Elective', both course papers were included & merged as one practical paper with 04 credits and 100 marks.
- MAB405: Project/Internship programme considered as Lab-II with 06 credits and 100 marks.

With regard to question paper pattern of semester end examinations,

- In section A, Six Questions have to be answered among eight questions. Each question carries five marks. Total marks are $6 \times 5 = 30$
- In section B, four internal choice questions, each from each of the four units of a paper are given. Unit wise one question, Total four questions have to be answered. Each question carries 10 marks. Total marks are $4 \times 10 = 40$ marks.


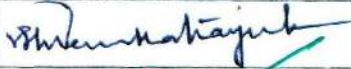


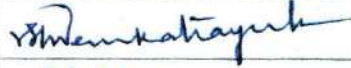

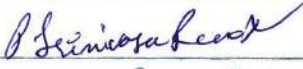
- Thus the total 30 + 40 (Section A + B= 70M) marks pattern as followed in the previous regulations was continued and suggested by the BOS committee.

Diploma in Aqua Lab Technician Course:

The Diploma in Aqua Lab Technician Course syllabus & Regulations as mentioned in the previous year, that same is to be followed in this year also.

PhD Syllabus for Marine Biology: As per the Academic Regulations of the PhD Programme (2021-22)

Signatures of the BoS Committee:

S.No	Name of the Member	Signature
1	Dr. Ch. Vijaya	
2	Dr. Ch. Venkatrayulu (Ex-officio Member & Head)	
3	Prof. M. Srinivasulu Reddy	
4	Prof. A. Matta Reddy	
5	Prof. D. Ravindra Kumar Reddy	- ABSENT -
6	Dr. Ch. Venkatrayulu	
7	Dr. M. Hanuma Reddy	
8	Dr. A. Ravi Kumar	- ABSENT -
9	Dr. P. Srinivasa Rao	
10	Mr. M. Chenna Krishnaiah	M.chennakrishnaiah
11	Mr. B. Venkata Renu	B.venkata Renu