



Karmaveer Bhaurao Patil University, Satara
Yashavantrao Chavan Institute of Science, Satara
M. Sc. (Fisheries)

Programme and Credit Structure as per NEP2020

Title: The degree shall be titled as 'Master of Science (Fisheries)' under the Faculty of Science and Technology.

M.Sc. Sem. I & II: To be implemented from Academic Year 2024-25

M.Sc. Sem. III & IV: To be implemented from Academic Year 2025-26

Program Outcomes For M. Sc. (Fisheries)

Program Outcomes:

PO No.	PO Statement - After completing the Master of Science in Fisheries students will be able to
PO-1	Understand the fundamentals and advancements of subject
PO-2	Study, plan and conduct experiments in the labs to validate the ideas principles, and theories acquired in the classrooms
PO-3	Enhance scientific knowledge of the subject
PO-4	Define their area of focus in academia, research and development.
PO-5	Pursue careers in various fields such as science, engineering, education, banking, business, public services, etc. or become an entrepreneur with precision, analytical thinking, innovative ideas clarity thought, expression and systematic approach.

Program Specific Outcomes:

PSO No.	PSO Statement
PSO-1	Understand the basics and advances of Fisheries
PSO-2	Study, plan and perform experiments in the labs to prove the ideas, values and theories learned in the classrooms
PSO-3	Improve scientific knowledge in Fisheries

PSO-4	Classify their area of attention in academic, research and development.
PSO-5	Perform job in various fields like science, engineering, education, banking, business and public service, etc. or be an entrepreneur with precision, analytical mind, innovative thinking and clarity of thought, expression, and systematic approach.

Semester, Credit Framework NSQF Level and Exit Points

Sr. No	Semester	Year	Year	Credits	Level	Exit Points & Award
1	Sem. I & II	2024-25	1 Year	44	6	PG Diploma (Fisheries)
2	Sem. III & IV	2025-26	2 Year	44	6.5	PG Degree (Fisheries)
			Total	88		Master of Science (Fisheries)

Credit Distribution

Sr. No	Components	1 Year Master Degree Programme			2 Year Master Degree Programme		
		Courses	Credits	%	Courses	Credits	%
	Mandatory Courses	06	24	54.55	12	48	54.55
	Elective Courses	02	04	9.09	04	08	9.09
	Mandatory Practical	02	04	9.09	04	08	9.09
	Elective Practical	02	04	9.09	03	06	6.82
	Research Methodology	01	04	9.09	01	04	4.55
	Research Project	01	04	9.09	02	10	11.36
	OJT	--	--	--	01	04	4.55
	Total (Mandatory)-(A)	09	32	72.73	19	70	79.55
	Elective	04	08	18.18	07	14	15.91
	RM	01	04	9.09	01	04	4.55
	Total - (B)	05	12	27.27	01	04	4.55
	Grand Total (A+B)	14	44	100	27	88	100

Duration:

- The program shall be a full-time program.
- The duration of program shall be One Year / Two years.
- Students will have to exit option with: - First Year (44 Credits) - PG Diploma
Second Year (88 Credits) - Master Degree

Number of Students: A batch shall consist of not more than 20 students. An additional 20% of seats will be allotted as per Karmaveer Bhaurao Patil University, Satara Norms.

Eligibility of the Students:

- Bachelor of Science with specialization in Fisheries
- Bachelor of Science with specialization in Fisheries and Fisheries.
- Any other eligibility prescribed by UGC, Government of Maharashtra, Karmaveer Bhaurao Patil University, Satara.

Medium of Instruction: The medium of instruction shall be in English.

Eligibility of the Core Faculty:

- **Assistant Professor:** Master of Science with specialization in Fisheries/ Zoology and NET/ SET/ Ph.D.
- **Associate Professor:** Master of Science in Fisheries/ Zoology with NET/ SET/Ph.D.
- **Professor:** Master of Science in Fisheries / Zoology with NET/ SET/Ph.D.

Eligibility for Professor of Practice or Professional Trainer:

Any other eligibility as per the Guidelines and Regulations Passed by the Board of Concerned Studies, Academic Council of the College / University and Rules and Regulations of Karmaveer Bhaurao Patil University, Satara, Government of Maharashtra, and UGC norms.

Scheme of Examination & Standard of Passing :(SEE and CCE)

End Semester Exam (ESE): 60 Marks (Min 24 Marks for Passing)

Continuous Comprehensive Evaluation (CCE): 40 Marks (Min 16 Marks for Passing)

Total Marks: 100 Marks for **DSC mandatory courses**.

End Semester Exam (ESE): 30 Marks (Min 12 Marks for Passing)

Continuous Comprehensive Evaluation (CCE): 20 Marks (Min 08 Marks for Passing)

Total Marks: 50 Marks for **DSE elective courses**.

Minimum 40% Marks Required for Passing and there is a separate head of passing as per the decision of the concerned Board of Studies or Competent Authority.

Evaluation of OJT and RP:

i. OJT: Total 100 marks for 4 credits

(Rubrics: Certificate = max 60 marks, Report = 20 marks, Viva = 20 marks)

ii. RP: Total 100 marks for 4 credits

(Rubrics: Dissertation = 60 marks, Presentation & Viva = 40 marks).

M.Sc. (Fisheries) Part -I				
Semester –I				
Sr.	Components	Course code	Course (Subject)	Credits
1	Mandatory	MFT 411	Biosystematics and Biodiversity of Fishes	4
2	Mandatory	MFT 412	Water Quality Management	4
3	Mandatory	MFT 413	Limnology	4
4	Electives	MFT 414	Aquaculture Environment Management - E1 [OR] Sustainable Aquaculture - E2	2
5	RM	MFT 415	Research Methodology	4
6	Mandatory Lab	MFP 416	Lab – I	2
7	Electives Lab	MFP 417	Lab – II	2
			Total	22
Semester –II				
Sr.	Components	Course code	Course (Subject)	Credits
1	Mandatory	MFT 421	Principles and Practices of Aquaculture	4
2	Mandatory	MFT 422	Fish Processing Technology	4
3	Mandatory	MFT 423	Fishery Technology	4
4	Electives	MFT 424	Aquaculture Biotechnology – E1 [OR] Applied Genetics in Aquaculture – E2	2
5	RP	MFP 425	Research Project	4
6	Mandatory Lab	MFP 426	Lab – III	2
7	Electives Lab	MFP 427	Lab – IV	2
			Total	22

EXIT OPTION: PG Diploma with **44 Credits** after Three Year UG Degree.

M.Sc. (Fisheries) Part -II				
Semester –III				
Sr.	Components	Course code	Course (Subject)	Credits
1	Mandatory	MFT 531	Ornamental Fish Production and Its Management	4
2	Mandatory	MFT 532	Breeding and Hatchery Management of Finfish and Shellfish	4
3	Mandatory	MFT 533	Brackish Water Aquaculture and Mariculture	4
4	Electives	MFT 534	Fish Nutrition and Feed Technology - E1 [OR] Larval Nutrition and Live Feed Production - E2	2
5	Mandatory Lab	MFP 535	Lab – V	2
6	RP	MFP 536	Research Project	6
				22
Semester –IV				
Sr.	Components	Course code	Course (Subject)	Credits
1	Mandatory	MFT 541	Fish Diseases and Management	4
2	Mandatory	MFT 542	Fish Processing Technology	4
3	Mandatory	MFT 543	Reservoir fisheries	4
4	Electives	MFT 544	Fisheries Marketing, Finance and Extension Education in fisheries - E1 [OR] Aquaculture Policy and Planning - E2	2
5	Mandatory Lab	MFP 545	Lab – VI	2
6	Electives Lab	MFP 546	Lab – VII	2
7	OJT	MFP 547	On Job Training	4
			Total	22

****** PG Degree with 88 credits after Three Year UG Degree.**

Chairman
BoS in Zoology

Secretary
Academic Council

Chairman
Academic Council