

D. P. Bhosale College, Koregaon

Department of Zoology

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Skill based Certificate Course on Aquarium construction Year 2022-23

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D.P. Bhosale College, Koregaon

Department of Zoology

NOTICE

2022-23

Date: - 13/12/2022

All the students of B. Sc. II are here by informed that Department has organized "Skill based Certificate Course on Aquarium Construction" from Monday 15th December 2023. All students are informed that they should remain present for course on time. It may clearly noted that fine will be collected from absent students.

Incharge

Head.

Grajawaaz

Department of Zoology

Skill based Certificate Course

on

Aquarium Construction











Skill based Certificate Course

on

Aquarium Construction

Organized by

Department of Zoology

Course Incharge

Mr. Jawale C. B.

Course Duration: 15 Dec. 2022 – 18 Jan. 2023

D.P. Bhosale College, Koregaon

Syllabus

Title – Skill based Certificate Course on Aquarium Construction

Total Hrs- 30

B. Sc. II (Zoology)

Theory

Unit 1: Introduction to Aquarium Fish Keeping

- 1.1 Scope of Aquarium Fish industry as a Cottage Industry.
- 1.2 Construction of home aquariums, materials and other equipment used.
- 1.3 Water quality requirements.
- 1.4 Exotic and Endemic species of aquarium fishes.

Unit 2: Biology of Aquarium Fishes

- 2.1 Common characters and sexual dimorphism of Fresh water and Marine Aquarium fishes such as Molly, Sword tail, Gold fish, Angel fish, blue morph, Anemone fish and Butterfly fish.
- 2.2 Diseases of aquarium fishes.
- 2.3 Breeding habits.
- 2.4 Hatching and production of monosex fishes.

Unit 3: Food and Feeding of Aquarium Fishes

- 3.1 Nutritional requirements of aquarium fishes.
- 3.2 Different kinds of feeds.
- 3.3 Preparation of dry feeds.
- 3.4 Other ornamental organisms such as anemones, starfishes, lobsters and shrimps.

Unit 4: Fish Transportation and Maintenance

- 4.1 Live fish transport.
- 4.2 Packaging and forwarding techniques.
- 4.3 General Aquarium maintenance.
- 4.4 Budget for setting up an Aquarium Fish Farm as a Cottage Industry.

Suggested Reading:

- 1) David Alderton- "Freshwater Aquariums".
- 2) Mary Bailey "The Complete Guide to Aquarium Fish Keeping".
- 3) Andrew Cleave-"Aquarium Fish".
- 4) Archana Sinha- Breeding And Culture Of Freshwater Ornamental Fish.
- 5) K.V. Jayashree, C. S. Tharadevi & N. Arumugum- Home Aquarium and Ornamental Fish Culture

Head
Department of Zoology
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D.P. Bhosale College, Koregaon

Department of Zoology

Year: 2022 - 23

Skill based Certificate Course

On

Aquarium Construction

Objectives

- Student will be able to know the fundamentals of aquarium fish industry.
- Student will understand the biological features of aquarium fishes.
- Student will get to know the food and feeding habits of aquarium fishes.
- Student will get aware about transportation of fishes.

Learning Outcomes

After completing the course the student should be able to:

- Construct an aquarium.
- Manage the fish diseases.
- Prepare the proper dosage of different kinds of natural and synthetic fish feed.
- Properly handle and maintain the aquarium fish.

In charge

Certificate Course

Head,

Grajawaa

Department of Zoology



D.P. Bhosale College, Koregaon

Department of Zoology

Skill based Certificate Course on Aquarium Construction

Time Table- 2022-23

Theory & Practical

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9.30-10.15 Theory	СВЈ	SPN	KJK	NAS	CBJ/SPN	KJK/NAS
08.30-10.30 Practical	СВЈ	SPN	KJK	NAS	СВЈ	NAS

CBJ - Mr. C. B. Jawale

SPN - Dr. S. P. Nalawade

KJK - Dr. K. J. Kamble

NAS - Ms. N. A. Shaikh

Head
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D.P. Bhosale College, Koregaon

Department of Zoology

Skill based Certificate Course on Aquarium Construction

Time Table- 2022-23

Theory & Practical

Date	Time	Theory / Practical	Name of the teacher				
15/12/2022	10.15-11.15	Theory	Ms. N. A. Shaikh				
16/12/2022	10.15-11.15	Theory	Mr. C.B. Jawale				
17/12/2022	10-15-11.15	Guest Lecture					
19/12/2022	10.15-11.15	Theory	Mr. C.B. Jawale				
20/12/2022	10.15-11.15	Theory	Dr. S.P. Nalawade				
21/12/2022	10.15-11.15	Theory	Dr. K.J. Kamble				
22/12/2022	10.15-11.15	Theory	Ms. N. A. Shaikh				
23/12/2022	10.15-11.15	Theory	Mr. C.B. Jawale				
24/12/2022	08.30-10.30	Practical	Ms. N. A. Shaikh				
26/12/2022	10.15-11.15	Theory	Mr. C.B. Jawale				
27/12/2022	10.15-11.15	Theory	Dr. S.P. Nalawade				
28/12/2022	10.15-11.15	Theory	Dr. K.J. Kamble				
29/12/2022	10.15-11.15	Theory	Ms. N. A. Shaikh				
30/12/2022	10.15-11.15	Theory	Mr. C.B. Jawale				
31/12/2022	08.30-10.30	Practical	Ms. N. A. Shaikh				
2/01/2023	10.15-11.15	Theory	Mr. C.B. Jawale				
3/01/2023	08.30-10.30	Practical	Dr. S.P. Nalawade				
4/01/2023	10.15-11.15	Theory	Dr. K.J. Kamble				
5/01/2023	10.15-11.15	Theory	Ms. N. A. Shaikh				

6/01/2023	10.15-11.15	Theory	Mr. C.B. Jawale
7/01/2023	10.15-11.15	Theory	Ms. N. A. Shaikh
9/01/2023	10.15-11.15	Theory	Mr. C.B. Jawale
10/01/2023	08.30-10.30	Practical	Dr. S.P. Nalawade
11/01/2023	10.15-11.15	Theory	Dr. K.J. Kamble
12/01/2023	10.15-11.15	Theory	Ms. N. A. Shaikh
13/01/2023	08.30-10.30	Practical	Mr. C.B. Jawale
14/01/2023	08.30-10.30	Practical	Ms. N. A. Shaikh
16/01/2023	08.30-10.30	Practical	Mr. C.B. Jawale
17/01/2023	08.30-10.30	Practical	Dr. S.P. Nalawade
18/01/2023	08.30-10.30	Practical	Dr. K.J. Kamble

Head
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D. P. Bhosale College Koregaon



Rayat Shikshan Sanstha's **D.P. Bhosale College, Koregaon Student list 2022-23**

Skill based Certificate Course on Aquarium Construction

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	26	222393	Ghadge Kiran Bapu

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D. P. Bhosale College Koregaon

D.P. Bhosale College, Koregaon

Skill based Certificate Course on Aquarium Construction

STUDENT ROLL CALL

Month: December 2022

Roll No.	Name of the Student	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	1 8	19	20	21	22	23	24	2 5	26	27			30 31
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222362	Waydande A. D.															lo.	1 2	RND		10	H2	Die	112	OLL	An		HD.	HD.	AM	401	10 1
222363	Waydande A. R.															15/2	112	1. Bos		A)2	(A)2	Agn		(A)			10	AR	MAINE	BIF	BA
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222373	Singh R. P.														1			CARIO			SIRP	A	Com?	5.R.P		S	RP	SWILE	S-RP S	RP	A SIRP
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222390	Kamble V. C.			,	,													V5.		V35	V3.1	V351	VSI	13S.	N25.	16	RS.	VS. (WS K	25.15	75. VES
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Head
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D. P. Bhosale College Koregaon

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Skill based Certificate Course on Aquarium Construction

STUDENT ROLL CALL

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Roll No.	Name of the Student	1	_		1							100.00		-	10000															_	-	<u> </u>
222338	Salunkhe A. A.	11	4	200	Salls	Low	Sallah	Sold	1	A	A	Sells	Sallah		Ball	_	A	gr	Sp										-			<u> </u>
222339	Sawant S. D.	T	30	Spr	SSS	FRD	500	905	-	SIR		305	SØ	Sw	-82						\				-	-	-		-	-		<u> </u>
222351	Ghaytade A. S.	-	9-5C	A			ASG	A		82	456	A80	1450		1A82		DSC.	Acc	ASS							-	-					<u> </u>
222362	Waydande A. D.		m	AD	AD	AX	#D	BE		AD		M			AD		AD	-							-	-	-		-			\vdash
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222364	Mane A. A.			mun	AAM	AP	DAAM D	ABM	Ш						AAM		HAD	PAR	TAN	-				-	-	-	-		-			_
222365	Pawar P. D.			D.BY	PDP	POP	POP	POP	Ц	PDP	PDP	~	POP	Bro	POP	\perp	PDP	A	PO		-				-	-	-		\vdash	-	_	_
222367	Anbhule R. A.	1	78				(2a			RA			an		RA		RAD	R	KA	1				-	+	-			-	-		
222369	Bhaldar T. B.		TB .			Th	De	Da		(D)x	The S	1	Do	(1) 9L	B		A		A					-	-	-	-					
222370	Devadiga N. R.	Ш	DIK.	Bu	A	pr	DB2	OAR		OPP !	ONE	O	PAIR	All	Dalur.				Ph					-					-			
222373	Singh R. P.	Ш					SIRP			SKY	SIKI	OK.P	SAP	241	SIN		SIRIP				-				+	-						
222374	Pujari B. V.		A	BW	BAP	BV	BHP	b		BW	BVP	STP	BYP		PYP			BNP ACC	Bry		-					-			-			
222380	Gaikwad A. S.		ASS)	ASS	AM	412	AXU.	ASS	-		ASG	ASE	ASC	ASC.	ASC	-	ASS	ASS	AB						-	-			-			
222381	Ghorpade A. K.			MA				May		-	AXOG						1	A COL	1000						-							
222382	Godase R. D.	/ #	é DE	6DC	POG	20%		P/20			PPG	Sp	RDG	QDx	PDG	-	RIG	RDV GDJ	KOG SON			_			-		_					
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222386	Makeri N. A.			Mark		M	1	Males					Mile			1	P									_			-			
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222388	Sutar H. D.		Dio.	A .	A	Ho	PP	HAD	+	MD-	#		MP	M	200	1	9.0	1	100	-					1	-						
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222391	Yadav V. K.	4	loca	Yada	Yeder	Youda	Youda	Yadov			Yudv.	Zade	(Cally	Veldy	ruga) Sole							-						
222392	Disale V. B.			Dal			1	Deak		Park			Pook	P	-#			USON P														
222393	Ghadge K. B.	1	A	D.	B	B	B	٢	1	BI	4	P.	B		1	1 1	8	5	1'					1			1					

Quarawood

Head
Department of Zoology
D. P. Bhosale College Korageon

Month: January 2023

D. P. Bhosale College, Koregaon

Department of Zoology

Question Paper

Skill based Certificate Course on Aquarium Construction Marks: 30

Instructions

- 1. All the questions are compulsory
- 2. Questions to the right Indicate full Marks
- 3. Draw neat and Labelled diagrams wherever necessary

Que. 1: Long questions (Any 2)

20

- a. Describe in details setting of an aquarium.
- b. Explain in brief diseases of aquarium fishes.
- c. Describe in nutritional requirement of aquarium fishes.

Que. 2: Write short notes on following (Any 2)

10

- a. Gold fish.
- b. Water quality requirement.
- c. Hatching of monosex fishes.

40



D.P. Bhosale College, Koregaon

Student List 2022-23

Skill based Certificate Course on Aquarium Construction

Mark list

Sr. No.	Roll No.	Name of the Students	Que. 1 20	Que. 2 10	Total Marks 30
1	222338	Salunkhe Avishkar Arjun	18	08	26
2	222339	Sawant Shubham Dattatray	19	07	26
3	222351	Ghaytade Alankar Santosh	15	09	24
4	222362	Waydande Anjali Dhanaji	19	09	28
5	222363	Waydande Anushka Ram	17	08	25
6	222364	Mane Avantika Anil	18	08	26
7	222365	Pawar Pooja Dagadu	17	09	26
8	222367	Anbhule Rohan Adinath	12	08	20
9	222369	Bhaldar Taslim Bakshuddin	14	07	21
10	222370	Devadiga Neha Ravi	is	08	23
11	222373	Singh Rutik Pramod	13	05	18
12	222374	Pujari Basavaraj Vitthal	15	06	21
13	222380	Gaikwad Ashish Shankar	16	06	22
14	222381	Ghorpade Amruta Kiran	17	07	24
15	222382	Godase Rutuja Dilip	15	07	22
16	222383	Bansode Sanika Dhananjay	18	08	26
17	222384	Godase Aishwarya Deepak	17	05	22
18	222385	Bhosale Amruta Suresh	15	08	23
19	222386	Makeri Nandukrishna Anil	18	09	27
20	222387	Matkar Rushikesh Chandrakant	16	08	24
21	222388	Sutar Harshada dyaneshwar	17	07	24
22	222389	Madane Nikhil Dilip	16	08	24
23	222390	Kamble Vrushali Chandrakant	18	09	27
24	222391	Yadav Vaishnavi Kiran	1.9	09	28
25	222392	Disale Vaishnavi Bhupesh	15	07	22
26	222393	Ghadge Kiran Bapu	16	06	22

Cualawag

Department of Zoology
D. P. Bhosale College Koregaon



Rayat Shikshan Sanstha's D. P. Bhosale College, Koregaon

Department of Zoology

Report

Skill based Certificate Course on Aquarium Construction

Aquarium construction has been an interesting activity for many, which provide not only aesthetic pleasure but also financial openings. About 600 ornamental fish species have been reported worldwide from various aquatic environments. Indian waters possess a rich diversity of ornamental fish.

The course curriculum covers topics like Introduction to Aquarium and construction, Introduction to Ornamental fishes, Engineering Aspect and construction of aquarium, Fish Breeding and rearing in Live Bearers, Fish Breeding and rearing in Egg layers, Ornamental fish farming-Management Aspects, Introduction to Aquarium plants and its propagation techniques, etc.

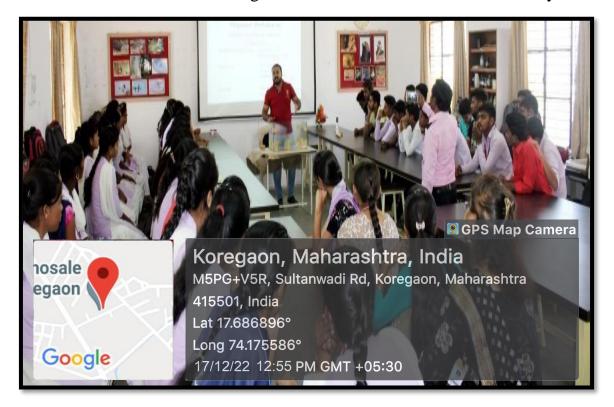
The course takes a theoretical and practical based approach.



Felicitation of Guest Mr. Vinod Gurav by Mr. C.B. Jawale

Department of Zoology has offered this course for B.Sc. II students.

This course was conducted during the 15th December 2022 to 18th January 2023.



Lecture delivered by Mr. Gurav

For this course 26 students have been enrolled. During this period the lectures and practicals were conducted by resource faculties. For this course department has organised one guest lecture of Mr. Vinod Gurav on Demonstration of aquarium construction. Mr. C. B. Jawale, Dr. S.P. Nalawade, Dr. K. J. Kamble and Miss. N. A. Shaikh conducted the practicals and theory period.

Students learn about fabrication of aquarium and mass culture of different live food organisms and aquatic plants. Further we will able to produce ornamental fishes in mass scale. Basic knowledge on aquarium construction will promote the students for research activities and encourage them for entrepreneurship.

Head
Department of Zoology
D. P. Bhosale College Koregaon

Qualawaga





"Education through Self-help is our Motto"- KARMAVEER Rayat Shikshan Sanstha's

D.P. Bhosale College, Koregaon

District – Satara. (M.S.) NAAC Reaccredited 'A' (with CGPA 3.12)

Skill based Course

CERTIFICATE









This is to certify that Mr. / Miss. ------Class: ------

has successfully completed "Skill based Certificate Course" on -----

----- From ----- to ----- Organized by Department of Zoology, D. P. Bhosale College,

Koregaon, District- Satara, (M.S.).

Incharge

Head
Department of Zoology