Shri Gajanan Shikshan Prasarak Mandal's

Toshniwal Arts, Commerce & Science College, Sengaon, Tq. Sengaon Dist.Hingoli

DEPARTMENT OF FISHERY SCIENCE

Date: 30/08/2018

To,

TISHERY SCIENCE

The Principal

Toshniwal Arts, Commerce & Science College, Sengaon

Subject: Regarding permission for starting certificate course...

Respected sir,

With reference to subject cited above, faculty members of Department of Fishery Science are interested to start self-finance certificate course on "Aquarium fish keeping and management". This course will be helpful for participants to earn their livelihood by employing different activities of ornamental fish industry. Syllabus proposed under the course is enclosed herewith along with course outcomes for your approval please. Kindly approve the same and oblige.

Thanking you,

Encl:

1. Course Proposal

2. Course syllabus

Mr. Patil D. W.
Department of Fishery Science
Toshniwal College, Sengaon

Mr. Markad S.S.

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Shri Gajanan Shikshan Prasarak Mandal's

Toshniwal Arts, Commerce & Science College, Sengaon, Tq. Sengaon Dist.Hingoli

DEPARTMENT OF FISHERY SCIENCE

Certificate Course

In

"Aquarium fish keeping and management"

Introduction:

The course is designed with the aim to create expertise in the aquarium fish industry. The course will focus on different aspects of the ornamental fish industry. The course is designed giving maximum weightage to the practical hours so that the participants will become technically sound with thorough practical hand in different aspects of aquarium fish keeping and management.

The course will empower participant to identify different valuable aquarium fish and plant species, to carry out breeding and seed production of different ornamental fish and plant species, aquarium feed preparation and management, setting of aquarium tanks, care and maintenance of aquarium tanks, etc. This will open ocean of opportunities for the participant to earn sustainable income and explore the new avenues of the ornamental fish sector including export of the ornamental fishes. Moreover, highly valued and endangered local species can also be conserved by application of the technical knowhow gained through this course.

Course Duration: 45 Teaching Hours

Assessment: Internal Continuous Assessment (20%) + Written Examination (80%)

Eligibility: 10+2

Proposed outcome:

The said course will enable participant to earn sustainable revenues by starting following activities separately or in combination:

- 1. Large outlet supplying all material and services for aquarium
- 2. Ornamental fish and plant sale
- 3. Breeding of ornamental fishes and plants
- 4. Sale of aquarium accessories
- 5. Providing services for care and maintenance of aquarium tanks
- 6. Preparation and sale of fish feed
- 7. Setup of aquarium display unit for recreational purpose
- 8. Identification and capture of local ornamental fish and plant species
- 9. Maintaining of biodiversity by conservation
- 10. Setup of single window solution centre with respect to aquarium sector
- 11. As a Hobby

Shri Gajanan Shikshan Prasarak Mandal's

Toshniwal Arts, Commerce & Science College, Sengaon, Tq. Sengaon Dist. Hingoli

DEPARTMENT OF FISHERY SCIENCE

Certificate Course

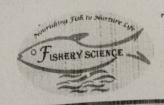
"Aquarium fish keeping and management"

T	Syllabus	No of	Periods
SN	Particulars	Theory	Practical
	Unit I		
1	Introduction	01	
2	Status & importance of aquarium industry		
3	Aquarium tank		
	a. Introduction		
	b. Types of aquarium	03	02
	c. Different shape & sizes of aquarium		
	d. Aquarium Accessories		
	e. Fabrication of aquarium		
	Unit II		
4	Aquarium Fishes		
	a. Introduction		
	b. Types		
	c. Different Species		
	d. Breeding & larval rearing	06	03
	i. Egg-scatterers		
	ii. Egg-depositors		
	iii. Egg-buriers		
	iv. Nest-builders		
	v. Live-bearers Unit III		
5	Aquarium plants		
3	a. Introduction		00
	h Types	02	02
	c. Different Species d. Propagation		
	Unit IV		0.1
6	Aquarium feed and feeding management	01	01
7	Setting of aquarium	01	01
8	Maintenance of aquarium	01	01
	Total	15	10

Total hours: 45; Theory: 1 teaching hour; Practical: 3 teaching hours

Mr. Markad S. S. Assistant professor **Department of Fishery Science** Toshniwal College, Sengaon

Assistant professor & Head Department of Fishery Science Toshniwal College, Sengaon



Shri Gajanan Shikshan Prasarak Mandal's Toshniwal Arts, Commerce & Science College,

Sengaon, Tq. Sengaon Dist.Hingoli

DEPARTMENT OF FISHERY SCIENCE

Report on

Certificate Course In "Aquarium fish keeping and management" (Academic Year 2017-18)

Introduction:

The course was designed with the aim to create expertise in the aquarium fish industry. The course will focus on different aspects of the ornamental fish industry. The course is designed giving maximum weightage to the practical hours so that the participants will become technically sound with thorough practical hand in different aspects of aquarium fish keeping and management.

The course will empower participant to identify different valuable aquarium fish and plant species, to carry out breeding and seed production of different ornamental fish and plant species, aquarium feed preparation and management, setting of aquarium tanks, care and maintenance of aquarium tanks, etc. This will open ocean of opportunities for the participant to earn sustainable income and explore the new avenues of the ornamental fish sector including export of the ornamental fishes. Moreover, highly valued and endangered local species can also be conserved by application of the technical knowhow gained through this course.

Course Duration: 45 Teaching Hours

Assessment: Internal Continuous Assessment (20%) + Written Examination (80%)

Eligibility: 10+2

Following student successfully completed the certificate course:

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2 Tonde Swati Uttam	hwer	M	B.Sc. T. Y.
3 Pawar Umesh Rames		F	B.Sc. T. Y.
4 Kotkar Durga Shesha		F	B.Sc. T. Y
5 Tidke Muktabai Padi	nakar		

Head, Department of Fishery Science

(Padd D. W.)



Shri Gajanan Shikshan Prasarak Mandal, Yeldari Camp
(Linguistic (Marwadi) Minority Institute)

Re-accredited by NAAC with 'B' Grade

Toshniwal Arts, Commerce & Science College Tq: Sengaon, Dist. Hingoli-431542 (MS)

DEPARTMENT OF FISHERY SCIENCE

Aquarium fish keeping and management Certificate Course in



Science College, Sengaon, Dist. Hingoli, Maharashtra, India during academic year 2017-18 successfully completed Certificate Course in Aquarium fish keeping and management (45 Hrs Teaching) organized by the Department of Fishery Science, Toshniwal Arts, Commerce and This is to certify that,

Mr. Markad S. S. Course Coordinator

Mr. Patil D. W. Head Department of Fishery Science

Principal

	श्री गजानन शिक्षण	प्रसारक मंडळ, येलदरी (कॅम्प)
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