

Seval Education Society's

Seval Mahila Mahavidyalaya

NAAC RE-REACCREDITED WITH 'A' GRADE

Sakkardara Square, Umrer Road, Nagpur – 440 024 (M.S.)

Phone No. : 0712-2705037, 2751344. Fax: 0712-2705037

Email: sevamahilamv@gmail.com; smm_college@yahoo.co.in

Website: <https://sevalmahilamahavidyalaya.ac.in>

CERTIFICATE COURSE

Rearing of Guppies

(Duration – Three Months)

Course Coordinator

Dr. (Mrs.) Jayashree B. Tirpude

Department of Zoology

Savadal Mahila Mahavidyalaya

Nagpur

2023 - 2024



Handwritten signature

**Off. Principal
Seval Mahila Mahavidyalaya
Nagpur.**

PROGRAMME OUTCOME

The whole purpose of the “ certificate course in rearing of guppies ” is to train the students for professional life. By end of the certificate course, they have learnt following things.

- Developed training on culture, breeding of guppies fishes.
- Developed skills and knowledge on various techniques of guppy breeding, rearing and its marketing to make themselves sustainable after completing certificate course.
- Developed how to produce a large number of varieties of guppies species to create a large supply of fishes and increases overall exports.
- Developed to promote employment and entrepreneurship in guppies by graduates in fisheries aquaculture and biological sciences.
- To developed basic knowledge on the spawning, larval rearing and feeding of guppies.

As the students are trained and developed as per the designed syllabus of rearing of guppies their confidence level has increased. The course in general helped them to pan degree with flying colours.

M. Anubale
Off. Principal
Sri Mata Mahila Mahavidyalaya,
Nagpur.



Certificate Course in Rearing Of Guppies

Guppy was introduced in various countries for mosquito control and often loosely called Mosquito Fish. It has been found to establish itself in both fresh and polluted waters (Ahmed et al. 1985). It introduced in India as early as 1910 to control mosquito. This larvivorous fish are quite tolerant of a variety of water conditions thus can be used as Predators of mosquito larvae and they can be moved to water areas they are needed. Synthetic insecticides are widely used for mosquito control throughout world and some of these has long residual activities and affect the environmental adversely. Many mosquito species has developed resistance of a variety of insecticides. The high cost of control due to short duration of action of insecticides and toxicity of newer insecticides and other reasons have given rise to new thinking to find out other ways of mosquito control. Among the various vector control measures the biological control method in favour due to its cost effectiveness.

Larvivorous fish have been used in mosquito control on and off for many years in different parts of world. Guppies have the capacity to survive and multiply in both fresh and polluted waters to solve this problem. The Guppy is suitable for mosquito control due to its flattened head protruded mouth, small size and its various appetite for living on prey, especially insect larva. It is a viviparous fish and is capable of increasing in population in shallow or polluted water.

In this certificate course breeding of Guppies using various techniques / methods be carried out.

AIIMS AND OBJECTIVES

To understand the current methodology and various techniques of Guppy fish production.

1. The course aimed at imparting knowledge on various techniques of Guppy



MAHARAJ
Off. Principal
Sevalal Mahila Mahavidyalaya
Nagpur.

breeding, rearing and its marketing to make themselves sustainable after completing certificate course.

2. To generate export oriented employment in rural and urban household through fish production.

3. To impart hands on training on setting up of aquarium and its maintenance.

4. To impart hands on training on culture, breeding of commercially important Guppy fishes.

5. Develop how to produce a large number of varieties of guppies species to create a

large supply of fishes and increase overall exports.

6. To promote employment and entrepreneurship in Guppies by graduates in fisheries aquaculture and biological sciences.

7. To develop basic knowledge on the spawning, larval rearing and feeding of Guppies.



M. S. W. K.

Off. Principal
Sevadal Mahila Mahavidyalaya
Nagpur.

NAAC RE-ACCREDITED WITH 'A' GRADE

SEVADAL MAHILA MAHAVIDYALAYA

Place for Higher Learning & Research (Research Academy)

Sakkardara Chowk, Umread Road, Nagpur-440024

Date-28-11-2023

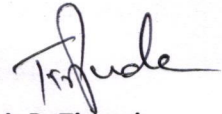
NOTICE

All the members of the Department of Zoology are hereby informed that the meeting regarding the certificate course in 'rearing of guppies' has been scheduled on 4-12-2023 at 11.00 am at the Hon'ble Principal's Chamber.

Hon'ble Principal Sir will chair the meeting in presence of Dr. A. P. Lambat, NAAC Coordinator.

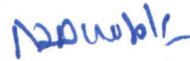
Agenda of the meeting:

- 1) To commence the Certificate Course in 'Rearing of Guppies'.
- 2) To frame the syllabus of the course.
- 3) Any other matter with the permission of the Chair.



Dr. J. B. Tirpude
Course Coordinator
Communicative English

Copy to: Dr. A. P. Lambat



Off. Principal
Sevadai Mahila Mahavidyalaya
Nagpur.

12/11/2023
11:00 AM

NAAC RE-ACCREDITED WITH 'A' GRADE

SEVADAL MAHILA MAHAVIDYALAYA

Place for Higher Learning & Research (Research Academy)

Sakkardara Chowk, Umread Road, Nagpur-440024

Minutes of the Meeting dated 4-12-2023 Certificate Course in 'Rearing of Guppies'

The meeting regarding the Certificate Course in 'Rearing of guppies' was held on 4-12-2023 at 11.00 am in the Hon'ble Principal's Chamber. Hon'ble Principal Sir presided over the meeting.

Agenda of the meeting:

- 1) To commence the certificate course in 'Rearing of Guppies'.
- 2) To frame the syllabus of the course.
- 3) Any other matter with the permission of the Chair.

Following Members were present.

- 1) Prof. Pravin Charde Chairman
- 2) Asso. Dr. A.P. Lambat IQAC Coordinator
- 3) Asso. Dr. J.B. Tirpude Course Coordinator

Dr. J.B. Tirpude Course Coordinator acted as secretary in the meeting. The coordinator welcomed the Chairperson, Hon'ble Principal and other member and called the meeting in order with the permission of chairperson. The Coordinator read out the agenda of the meeting and subsequently discussed the matter.

1)Item No. 1 : To commence the certificate course in 'rearing of guppies'

Resolution : Unanimously it was decided to commence the certificate course in 'Rearing of Guppies' from the session 2023-2024

2)Item No. 2 : To frame the syllabus of the course.

Resolution : Hon'ble Principal expressed his views regarding the framing of course syllabus. Dr. J. B. Tirpude were asked to prepare syllabus of the certificate course in 'Rearing of Guppies'.

Handwritten signature
Off. Principal
Sevadal Mahila Mahavidyalaya
Nagpur.



3) Item No. 3: Any other matter with the permission of chair.

Resolution : As there no other matter to discuss, the coordinator sum up the meeting by expressing thanks for everyone's gracious attendance.

Name

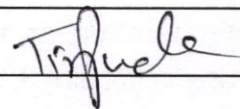
Signature

1) Hon'ble Prof. Pravin Charde



2) Dr. A.P. Lambat

3) Dr.J.B. Tirpude



Handwritten signature

Off. Principal
Sevalal Mahila Mahavidyalaya
Nagpur.

NAAC RE-ACCREDITED WITH 'A' GRADE

SEVADAL MAHILA MAHAVIDYALAYA

Place for Higher Learning & Research (Research Academy)

Sakkardara Chowk, Umread Road, Nagpur-440024

Date-10-12-2023

NOTICE

All the members of the Department of Zoology are hereby informed that the meeting regarding the certificate course in 'rearing of guppies' has been scheduled on 18-12-2023 at 11.00 am at the Hon'ble Principal's Chamber.

Hon'ble Principal Sir will chair the meeting in presence of Dr. A. P. Lambat, NAAC Coordinator.

Agenda of the meeting:

- 1) To commence the Certificate Course in 'Rearing of Guppies'.
- 2) To frame the syllabus of the course.
- 3) Any other matter with the permission of the Chair.

Following Members were Present

- 1) Prof. N. S. Dhoble
- 2) Dr. J. B. Tirpude
- 3) Dr. A. V. Dorlikar
- 4) Dr. J. S. Dahegaonkar

Tirpude
Dorlikar
J.S. Dahegaonkar

Tirpude

Dr. J. B. Tirpude
Course Coordinator
Rearing of guppies

Copy to: Dr.A.P.Lambat



N.S. Dhoble
Off. Principal
Sevadal Mahila Mahavidyalaya
Nagpur.

NAAC RE-ACCREDITED WITH 'A' GRADE

SEVADAL MAHILA MAHAVIDYALAYA

Place for Higher Learning & Research (Research Academy)

Sakkardara Chowk, Umread Road, Nagpur-440024

Minutes of the Meeting dated 18-12-2023

Certificate Course in 'Rearing of Guppies'

The meeting regarding the Certificate Course in 'Rearing of guppies' was held on 18-12-2023 at 11.00 am in the Hon'ble Principal's Chamber. Hon'ble Principal Sir presided over the meeting.

Agenda of the meeting:

- 1) To confirm the minutes of the last meeting.
- 2) To review the progress of framing the syllabus of rearing of guppies.
- 3) Any other matter with the permission of the chair.

Following Members were present.

- 1) Prof. Pravin Charde Chairman
- 2) Asso. Dr. A.P. Lambat IQAC Coordinator
- 3) Asso. Dr. J.B. Tirpude Course Coordinator

Dr. J.B. Tirpude Course Coordinator acted as secretary in the meeting. The coordinator welcomed the Chairperson, Hon'ble Principal and other member and called the meeting in order with the permission of chairperson. The Coordinator read out the agenda of the meeting and subsequently discussed the matter.

- 1) Item No. 1 : To confirm the minutes of the last meeting.

Resolution : The minutes of the last meeting held on 18-12-2023 were read by the course coordinator and subsequently the minutes were unanimously approved.

- 2) Item No. 2 : To review the progress of framing the syllabus of Rearing of guppies.

Resolution : Course coordinator tabled the newly framed syllabus of certificate course in rearing of guppies in the meeting. After through discussion it was approved unanimously.



Principal
Off. Principal
Sevalal Mahila Mahavidyalaya
Nagpur.

3) Item No. 3: Any other matter with the permission of chair.

Resolution : Hon'ble Principal directed the coordinator to start admission for the students.

As there was no other matter to discuss, the meeting was concluded with vote of thanks by the coordinator of the course.

Name

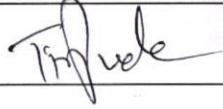
Signature


1) Hon'ble Prof. Pravin Charde



2) Dr. A.P. Lambat

3) 3) Dr.J.B. Tirpude




Off. Principal
Sevada Mahila Mahavidyalaya
Nagpur.



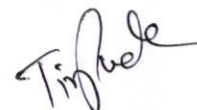
- a. Artificial food.
- b. Feeding methods.

Unit III : Breeding of Guppy fishes.

- 1. Identification of male and female guppies.
- 2. Preparation of separate breeding tank.
- a. Notice the physical symptoms. Ex. Notice belly bulge, gravid spot.

Unit IV : Fish management

- 1. Diseases of fishes and their control.
- 2. Bacterial diseases.
- 3. Protozoen diseases.



Dr. J. B. Tirpude

Course Coordinator

Rearing of Guppies



Off. Principal
Sevada Mahila Mahavidyalaya
Nagpur.



NAAC RE-ACCREDITED WITH 'A' GRADE

SEVADAL MAHILA MAHAVIDYALAYA

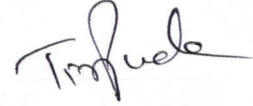
Place for Higher Learning & Research (Research Academy)

Sakkardara Chowk, Umread Road, Nagpur-440024

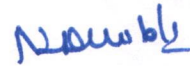
Date : 20-12-2023

NOTICE

All the students are hereby informed that the certificate course in 'Rearing of Guppies' run by Department Zoology is designed to develop basic knowledge on Types of aquarium, fabrication, setting and maintainace of aquarium, breeding of guppy fishes, larval rearing, feeding of guppies, diseases of guppy fishes and there control. Interested students should contact following teachers for admission before 30th Dec.2023.



DR. J. B. Tirpude
Course co-ordinator
Rearing of Guppies



Off. Principal
Sevadal Mahila Mahavidyalaya
Nagpur.

NAAC RE-ACCREDITED WITH 'A' GRADE

SEVADAL MAHILA MAHAVIDYALAYA

Place for Higher Learning & Research (Research Academy)

Sakkardara Chowk, Umread Road, Nagpur-440024

CERTIFICATE COURSE IN Rearing Of Guppies

ACADEMIC SESSION : 2023-2024

Student List

SR. NO.	NAME OF THE STUDENT
1	Sakshi N. Belsare
2	Shriya S. khandge
3	Swati P. Chavhan
4	Tanu B. Wandhare
5	Kalyani S. Tijare
6	Ashiesha N. Vairagade
7	Purutha V. Shrikhandkar
8	Dimpal V. Shrikhandkar
9	Misbah S. Sheikh
10	Rashmi R. Gautam
11	Tisha G. Vaidya
12	Anushka V. Chaudhary
13	Arshiya S. Sheikh
14	Kaifiya S. Sheikh
15	Monali P. Aajbale
16	Jidynasa D. Pawar
17	Sakshi R. ashtikar
18	Amreen A. Ansari
19	Aiyasha E. Sheikh
20	Kashish R. Kamble
21	Vedanti R. Gadekar
22	Srushti G. Mnturkar
23	Samahat Naseem
24	Mayuri Surjuse
25	Chaitali Ladse
26	Tuba Ahmed

(Dr. J. B. Tirpude)

Course Co-ordinator

(prof. Pravin Charde)

Principal

Sevadal Malila Mahavidyalaya

Nagpur

Off. Principal
Sevadal Mahila Mahavidyalaya
Nagpur.



NAAC RE-ACCREDITED WITH 'A' GRADE

SEVADAL MAHILA MAHAVIDYALAYA

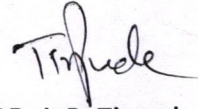
Place for Higher Learning & Research (Research Academy)

Sakkardara Chowk, Umread Road, Nagpur-440024

Date : 25-03-2024

NOTICE

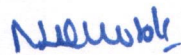
All the students of Certificate Course in Rearing of Guppies are hereby informed that the Theory Examination and Practical Examination will be held on 03-04-2024 at 11.00 am and 17-04-2024 at 10.30 am respectively in the college conference hall (Room no. 210). Students are directed to remain present.



DR. J. B. Tirpude

Course Co-ordinator

Rearing of Guppies



Off. Principal
Sevadal Mahila Mahavidyalaya
Nagpur.



NAAC RE-ACCREDITED WITH 'A' GRADE

SEVADAL MAHILA MAHAVIDYALAYA

Place for Higher Learning & Research (Research Academy)

Sakkardara Chowk, Umread Road, Nagpur-440024

Academic Session 2023-2024

Total Marks 60

Question Paper

CERTIFICATE COURSE IN REARING OF GUPPIES

Q.1] Describe in brief diseases of aquarium fishes. 10 Mark

Q.2] Write short notes on: 10Mark

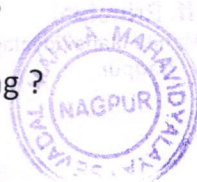
- How to take care of guppy / fry.
- Maintenance of guppy's aquarium.

Q.3] Answer in one word. 10*2=20Mark

- Can all guppies breed together?
- What is the best food for guppies breeding?
- What is the lifespan of guppies?
- What are guppy babies called?
- Gestation period of female guppies?
- What do baby guppies eat?
- What is the ratio of male and female guppies during breeding?
- Do baby guppies need sunlight?
- Another name of guppy fish?
- The Guppy fish species belongs to family?

Q.4] Answer in one or two sentences. 10*2=20Mark

- How do you identify male and female guppies?
- At what age do guppies start breeding?
- How do you stop Guppies from breeding?



Nandini
Off. Principal
Sevalal Mahila Mahavidyalaya
Nagpur.

- 4) Name some of the plants which we put in guppy tank?
- 5) Name foods of guppies?
- 6) How you identify that female guppy is ready to give birth to new child?
- 7) Aquarium fishes are mainly grouped into how many categories?
- 8) What is the ratio of male and female guppies during breeding?
- 9) What factors contribute to the lifespan of guppies?
- 10) Name some common tails of guppy fish?

Nawab



Off. Principal
Sevadai Mahila Mahavidyalaya
Nagpur.

10/10/2020
10/10/2020

NAAC RE-ACCREDITED WITH 'A' GRADE

SEVADAL MAHILA MAHAVIDYALAYA

Place for Higher Learning & Research (Research Academy)

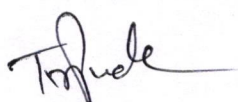
Sakkardara Chowk, Umread Road, Nagpur-440024

Certificate Course in Rearing of Guppies

Academic Session : 2023-2024

MARK SHEET

SR. NO.	NAME OF STUDENTS	MARK OBTAINED				IN WORDS	GRADE
		Theory Mark (60)	Practical Mark (20)	Assignment Mark (20)	Total Mark (100)		
1	Sakshi N. Belsare	52	18	19	89	Eighty Nine	A
2	Shriya S. khandge	48	17	18	83	Eighty Three	A
3	Swati P. Chavhan	54	17	17	88	Eighty Eight	A
4	Tanu B. Wandhare	55	18	19	92	Ninety Two	A
5	Kalyani S. Tijare	55	18	19	92	Ninety two	A
6	Ashiesha N. Vairagade	57	19	19	95	Ninety Five	A
7	Purutha V. Shrikhandkar	53	18	19	90	Ninety	A
8	Dimpal V. Shrikhandkar	57	19	18	94	Ninety Four	A
9	Misbah S. Sheikh	57	18	18	93	Ninety Three	A
10	Rashmi R. Gautam	55	18	18	91	Ninety One	A
11	Tisha G. Vaidya	29	17	18	64	Sixty Four	A
12	Anushka V. Chaudhary	54	18	16	88	Eighty Eight	A
13	Arshiya S. Sheikh	50	17	17	84	Eighty Four	A
14	Kaifiya S. Sheikh	52	18	18	88	Eighty Eight	A
15	Monali P. Aajbale	52	18	17	87	Eighty seven	A
16	Jidynasa D. Pawar	56	18	17	91	Ninety One	A
17	Sakshi R. ashtikar	38	17	18	73	Seventy Three	A
18	Amreen A. Ansari	45	18	18	81	Eighty One	A
19	Aiysha E. Sheikh	45	17	19	81	Eighty one	A
20	Kashish R. Kamble	56	18	18	92	Ninety Two	A
21	Vedanti R. Gadekar	56	18	19	93	Ninety Three	A
22	Srushti G. Mnturkar	45	17	19	81	Eighty one	A
23	Samahat Naseem	47	17	19	83	Eighty Three	A
24	Mayuri Surjuse	AB	AB	AB	AB	AB	-
25	Chaitali Ladse	54	18	18	90	Ninety	A
26	Tuba Ahmed	AB	AB	AB	AB	AB	-



Dr. J. B. Tirpude


Course Co-ordinator

Rearing Of Guppies




Principal

Sevadal Mahila Mahavidyalaya



Off. Principal
Sevadal Mahila Mahavidyalaya
Nagpur.

NAAC RE-ACCREDITED WITH 'A' GRADE

SEVADAL MAHILA MAHAVIDYALAYA

Place for Higher Learning & Research (Research Academy)

Sakkardara Chowk, Umread Road, Nagpur-440024

Date : 21-4-2024

NOTICE

All the members of the Department of Zoology are hereby informed that the meeting regarding the certificate course in 'Rearing of Guppie' has been scheduled on 24th April 2024 at 11.00 am at the Hon'ble Principal's Chamber.

Hon'ble Principal will chair the meeting in presence of Dr. A.P. Lambat, NAAC Coordinator.

Agenda of the meeting :

- 1) To confirm the minutes of the last meeting.
- 2) To review the progress of the course 'Rearing of Guppies'.
- 3) Any other matter with the permission of the Chair

Following Members were Present

- 5) Prof. N. S. Dhoble
- 6) Dr. J. B. Tirpude
- 7) Dr. A. V. Dorlikar
- 8) Dr. J. S. Dahegaonkar

Tirpude
Dorlikar
J.S. Dahegaonkar

Tirpude

Dr. J. B. Tirpude
Course Co-ordinator
Rearing Of Guppies

Copy to :

Dr. A. P. Lambat, NAAC coordinator



Nalwote
Off. Principal
Sevadal Mahila Mahavidyalaya
Nagpur.

NAAC RE-ACCREDITED WITH 'A' GRADE

SEVADAL MAHILA MAHAVIDYALAYA

Place for Higher Learning & Research (Research Academy)

Sakkardara Chowk, Umread Road, Nagpur-440024

Minutes of the Meeting dated 24-04-2024

Certificate Course in 'Rearing of Guppies'

The meeting regarding the Certificate Course in 'Rearing of guppies' was held on 24-04-2024 at 11.00 am in the Hon'ble Principal's Chamber. Hon'ble Principal Madam presided over the meeting.

Agenda of the meeting:

- 1) To confirm the minutes of the last meeting.
- 2) To review the progress of framing the syllabus of rearing of guppies.
- 3) Any other matter with the permission of the chair.

Following Members were present.

- | | |
|----------------------------------|---------------------------|
| 1) Prof. N.S. Dhoble | Chairman |
| <u>2) Asso. Dr. A.P. Lambat</u> | <u>IQAC Coordinator</u> |
| <u>3) Asso. Dr. J.B. Tirpude</u> | <u>Course Coordinator</u> |

Dr. J.B. Tirpude Course Coordinator acted as secretary in the meeting. The coordinator welcomed the Chairperson, Hon'ble Principal and other member and called the meeting in order with the permission of chairperson. The Coordinator read out the agenda of the meeting and subsequently discussed the points according to the agenda of the meeting.

- 1) Item No. 1 : To confirm the minutes of the last meeting.

Resolution : The minutes of the last meeting held on 24-04-2024 were read by the course coordinator and after through discussion the minutes were unanimously approved.

- 2) Item No. 2 : To review the progress of framing the syllabus of Rearing of guppies.

Resolution : Course coordinator presented exam result of the certificate course in Rearing of Guppies. It was approved unanimously.



N.S. Dhoble

Off. Principal
Sevadal Mahila Mahavidyalaya
Nagpur.

3) Item No. 3: Any other matter with the permission of chair.

Resolution : Hon'ble Principal distribute to certificates to the students on the accomplishment of certificate course .

Name

Signature

3) Hon'ble Prof. N.S. Dhoble

N.S. Dhoble

4) Dr. A.P. Lambat

[Signature]

5) Dr.J.B. Tirpude

Tirpude



N.S. Dhoble

Off. Principal
Sevadal Mahila Mahavidyalaya
Nagpur.



Sevalal Shikshan Sanstha
NAAC RE-ACCREDITED WITH 'A' GRADE

Sevalal Mahila Mahavidyalaya

Place for Higher Learning and Research (Research Academy)
Sakkardara Square, Umrer Road, Nagpur-440023

Certificate of Completion

This certificate is awarded to

Ms. Dimpal V. Shrikhandkar

she has successfully completed the Certificate Course in

"Breeding of Fishes (Guppy)".

conducted by the Department of Zoology.

Date : 30/04/2024

Dr. (Mrs.) J. B. Tirpude
Course Coordinator

Prof. (Mrs.) Nirupama S. Dhoble
Off. Principal
Sevalal Mahila Mahavidyalaya - Nagpur

30-04-2024

Off. Principal
Sevalal Mahila Mahavidyalaya
Nagpur.

