

Date: 27/02/2024

To,
The Principal
K. K. Wagh College of Agriculture,
Nashik

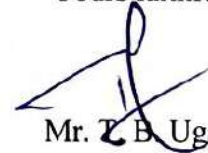
Subject Regarding permission for Certificate Course.....

Respected Sir,

On behalf of the Department of Entomology, we humbly request permission to initiate a Certificate course titled '**Basics of Nematology**'. This course is scheduled from 18/03/2024 to 23/03/2024 and will involve approximately 18 final-year students. It is anticipated that this course will greatly benefit our students in enhancing their knowledge about management and techniques for mass production of Entomopathogenic Nematodes. We kindly ask for your approval for the implementation of this course.

Thanking You,

Yours faithfully,



Mr. T. B. Ugale
Course Coordinator





K. K. Wagh Education Society's
K. K. Wagh College of Agriculture,
(Affiliated to Mahatma Phule Krishi Vidyapeeth, Rahuri)
Saraswati Nagar, Panchavati, Nashik- 422 003. Maharashtra
College Code;11135 AISHE Code: C-50690

☎: (0253)2555221, 2555224 ✉ - principal-bscagri@kkwagh.edu.in 🌐 https://agri-bsc.kkwagh.edu.in

Certificate course in
‘Basics of Nematology’

Academic Year 2023-24

Syllabus Committee

Sr no	Name of teacher	Designation	Department	Role in course
1	Mr. T. B. Ugale	Assistant Professor	Entomology	Course coordinator
2	Miss. M. S. Kuyate	Assistant Professor	Entomology	Committee member
3	Mr. H. N. Patil	Assistant Professor	Entomology	Committee member
4	Mrs. P. V. Shinde	Assistant Professor	Soil Science and Agricultural Chemistry	Committee member
5	Mrs. S. K. Ahirrao	Assistant Professor	Plant Pathology	Committee member


Course Coordinator


Principal
K. K. Wagh College of Agriculture
Saraswatinagar, Panchavati, Nashik-3





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Date: 28/02/2024

Academic Year 2023-24
Department of Entomology
Minutes of the Board of Studies Meeting for the Short-Term Certificate Course

A meeting of the Board of Studies for the Short-term Certificate Course in 'Basics of Nematology' was convened on **28 February 2024**, at 10:00 AM in the Department of Entomology. The meeting was attended by the following Syllabus Design Committee members:

Sr no	Name of the expert	Designation	Sign
1	Dr. S. M. Hadole	Principal	
2	Mr. T. B. Ugale	Course Coordinator	
3	Miss.M. S. Kuyate	Member	
4	Mr. H. N. Patil	Member	
5	Mrs. P. V. Shinde	Member	
6	Mrs. S. K. Ahirrao	Member	

Minutes of Meeting

The Board of Studies convened a meeting on **28 February 2024**, at 10:00 AM in the Department of Entomology to address various aspects concerning the Short-Term Certificate Course in 'Basics of Nematology'. The meeting focused on the following key points:

1. Syllabus Formation: Members deliberated on developing a syllabus that emphasizes on relevant knowledge about nematology.
2. Dissemination of Work: Strategies for effectively manage the nematode were discussed to aid students in the course.
3. Encouragement of Students: The meeting stressed the importance of offering guidance and motivation to students for effective management of nematodes.
4. Examination of Short-Term Course: The examination structure and assessment methods for the short-term course were reviewed. The board explored ways to ensure fair and comprehensive evaluations that accurately assess students'

The meeting concluded with a commitment to refine the course and its delivery methods to better meet the needs of students enrolled in the Certificate Course in 'Basics of Nematology'.

Course-coordinator



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Department of Entomology
Certificate course in
"Basics of Nematology"
Academic Year 2023-24
Syllabus Outcomes:

1. Gain awareness of historical and current perspectives of nematodes.
2. Gain knowledge about different methods of nematode management.
3. Acquire knowledge on interaction of nematodes with microorganism.
4. Understand the identification of economically important plant nematodes.
5. Explore Techniques for mass production of Entomopathogenic Nematodes.

Sr no	Topic	Description	No of Lectures
1	General characteristics of plant parasitic nematodes	Introduction- History of phytonematology and economic importance. General morphology, biology and physiology of nematodes.	06 hours
2	Classification of nematode	Classification of nematode up to family level with emphasis on group of containing economical importance genera (Taxonomic) and classification of nematode by habitat.	03 hours
3	Symptoms caused by nematodes	Symptoms produced by above ground feeder nematodes	03 hours
4	Different methods of nematode management	Cultural methods, Physical methods, Biological methods and Chemical methods.	06 hours
5	Extraction of nematodes from soil and plant samples	Combined cobs decanding and sieving techniques with modified Barmann's funnel technique	06 hours
6	Interaction of nematodes with microorganism	Nematode - Fungus Interaction, Nematode Bacterium Interaction Nematode Virus Interaction	06 hours
7	Mass production techniques for EPN	In vivo production, In vitro culture in solid media and In vitro culture in liquid media.	06 hours
Total			36 hours


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Certificate course in
'Basics of Nematology'
Academic Year 2023-24

Examination Methodology

Sr no	Nature of exam	Marks
1	Written	30
2	Practical	20
3	Total	50

Reference:

- 1) **A Text Book of Plant Nematology** – K. D. Upadhyay & Kusum Dwivedi, AmanPublishing House
- 2) **Fundamentals of Plant Nematology** – E. J. Jonathan, S. Kumar, K. Deviranjana, G.Rajendran, Devi Publications, 8, Couvery Nagar, Karumanolapam, Trichirappalli, 620 001.
- 3) **Plant Nematodes - Methodology, Morphology, Systematics, Biology & Ecology** Majeedur Rahman Khan, Department of Plant Protection, Faculty of Agricultural Sciences, Aligarh Muslim University, Aligarh, India.
Oxford & IBH Publishing Co. Pvt. Ltd., New Delhi.
- 4) **Introductory Nematology (Theory Notes)** – Dr. B. S. Shewale


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Date: 04/03/2024

Student Notice

All the students of B. Sc. (Hons.) Agriculture final year are informed that for the academic year 2023-2024 the Certificate Course on '**Basics of Nematology**' is starting from 18/03/2024 to 23/03/2024. For this certificate course students should submit their names to the Certificate Course Coordinator Mr. T. B. Ugale up to 08/03/2024

Duration: 36 Hrs. 18/03/2024 to 23/03/2024
Time: Morning Session: 10.00 am to 1.00 pm
Afternoon session: 2.00pm to 5.00 pm

Note: This course is free of cost to all students.

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STUDENT REGISTRATION FORM

Academic Year: 2023-24

(Department of Entomology)

CERTIFICATE COURSE

'Basics of Nematology'

For Department Use Only

Registration No.: AKN-2020/120

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Name of the Student: Watpade Mayumi Ashok

Mother's Name: Alka

Father's Name: Ashok Year: 1st / 2nd / 3rd / 4th

E-Mail ID: watpademayumis291@gmail.com

Address: At post pachore wani, Tal- Niphad, Dist- Nsk

State: Maharashtra PIN Code: 422209

Mobile No: 84.848.562.91 Alternate contact number: ---

Gender: Male Female Other Religion: Hindu

Date of Birth: 22/04/2002

Educational Qualification (at the time of admission):

HSE 86 1 Other

Watpade

Signature of Student

Place: K.K. Wagh college of Agriculture, Nashik

Date: 6/03/2024



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Department of Entomology
Certificate course in
'Basics of Nematology'
Academic Year 2023-24
Enrolled Student List

SR NO	REGISTRATION NO	NAME OF STUDENT
1	AKN-2020/073	Mahajan Tushar Shamkant
2	AKN-2020/075	More Payal Ramdas
3	AKN-2020/089	Pawar Bhumika Suresh
4	AKN-2020/090	Pawar Kunal Shivaji
5	AKN-2020/101	Sandhan Om Namdev
6	AKN-2020/102	Satpute Siddhika Santosh
7	AKN-2020/109	Suryawanshi Unnati Ravindra
8	AKN-2020/112	Thakur Bhuwaneshwari Vijay
9	AKN-2020/079	Padwal Kunal Tushar
10	AKN-2020/119	Walunj Omkar Vikas
11	AKN-2020/120	Watpade Mayuri Ashok
12	AKN/D-2021/007	Jagtap Tanmay Bhika
13	AKN/D-2021/012	Patil Rohit Shivnath
14	AKN/D-2021/013	Patil Sakshi Nana
15	AKN/D-2021/014	Pawar Madhavi Madhukar
16	AKN/D-2021/017	Shinde Aadesh Dilip
17	AKN/D-2021/019	Shinde Sakshi Sharad
18	AKN/D-2021/022	Walve Janhavi Sharad


Course Coordinator




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Department of Entomology

Certificate course in
'Basics of Nematology'
Academic Year 2023-24

Schedule of the course

Sr No	Topic	Description	Name of the teacher	Department
1	General characteristics of plant parasitic nematodes	Introduction- History of phytonematology and economic importance. General morphology, biology and physiology of nematodes.	Mr. T. B. Ugale	Entomology
2	Classification of nematode	Classification of nematode up to family level with emphasis on group of containing economical importance genera (Taxonomic) and classification of nematode by habitat.	Miss. M. S. Kuyate	Entomology
3	Symptoms caused by nematodes	Symptoms produced by above ground feeder nematodes	Mr. H. N. Patil	Entomology
4	Different methods of nematode management	Cultural methods, Physical methods, Biological methods and Chemical methods.	Mr. T. B. Ugale	Entomology
5	Extraction of nematodes from soil and plant samples	Combined cobs decanting and sieving techniques with modified Barmann's funnel technique	Mrs. P. V. Shinde	Soil Science & Agricultural Chemistry
6	Interaction of nematodes with microorganism	Nematode - Fungus Interaction, Nematode Bacterium Interaction Nematode Virus Interaction	Mrs. S. K. Ahirrao	Plant Pathology
7	Mass production techniques for EPN	In vivo production, In vitro culture in solid media and In vitro culture in liquid media.	Miss. M. S. Kuyate	Entomology

Course Coordinator



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Department of Entomology
Certificate course in
'Basics of Nematology'
Academic Year 2023-24

Time Table

Sr no	Date	Time	Topic
1	18/03/2024	10.00 am - 01.00 pm 03.00 pm - 05.00 pm	What is Nematology and General characteristics of plant parasitic nematodes
2	19/03/2024	10.00 am - 01.00 pm 03.00 pm - 05.00 pm	Classification of nematode Symptoms caused by nematodes
3	20/03/2024	10.00 am - 01.00 pm 03.00 pm - 05.00 pm	Different methods of nematode management
4	21/03/2024	10.00 am - 01.00 pm 03.00 pm - 05.00 pm	Extraction of nematodes from soil and plant samples
5	22/03/2024	10.00 am - 01.00 pm 03.00 pm - 05.00 pm	Interaction of nematodes with microorganism Crops: Status
6	23/03/2024	10.00 am - 01.00 pm 03.00 pm - 05.00 pm	Mass production techniques for EPN


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Department of Entomology
Certificate course in
'Basics of Nematology'
Academic Year 2023-24
Students Attendance Sheet

SR NO	REGISTRATION NO	NAME OF STUDENT	SIGN
1	AKN-2020/073	Mahajan Tushar Shamkant	
2	AKN-2020/075	More Payal Ramdas	
3	AKN-2020/089	Pawar Bhumika Suresh	
4	AKN-2020/090	Pawar Kunal Shivaji	
5	AKN-2020/101	Sandhan Om Namdev	
6	AKN-2020/102	Satpute Siddhika Santosh	
7	AKN-2020/109	Suryawanshi Unnati Ravindra	
8	AKN-2020/112	Thakur Bhuwaneshwari Vijay	
9	AKN-2020/079	Padwal Kunal Tushar	
10	AKN-2020/119	Walunj Omkar Vikas	
11	AKN-2020/120	Watpade Mayuri Ashok	
12	AKN/D-2021/007	Jagtap Tanmay Bhika	
13	AKN/D-2021/012	Patil Rohit Shivnath	
14	AKN/D-2021/013	Patil Sakshi Nana	
15	AKN/D-2021/014	Pawar Madhavi Madhukar	
16	AKN/D-2021/017	Shinde Aadesh Dilip	
17	AKN/D-2021/019	Shinde Sakshi Sharad	
18	AKN/D-2021/022	Walve Janhavi Sharad	

Course Coordinator



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Department of Entomology

Certificate course in
'Basics of Nematology'
Academic Year 2023-24

Exam Time Table

All enrolled students of the Certificate Course are hereby informed that for the academic year 2023-24, the Certificate Course on 'Basics of Nematology' has been completed. The examination for this certificate course is scheduled to be conducted on 26/03/2024. Therefore, all students are required to be present without exception.

Note: Time Table is as follow

Sr no	Date	Time	Certificate course subject
1	26/03/2024	10:00 to 11:00 am	Theory exam: Basics of Nematology
2		11:00 to 12:00 pm	Practical Exam: Basics of Nematology

Course Coordinator

Exam Incharge
Exam In-charge
K. K. Wagh College of Agriculture
Nashik

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Department of Entomology
Certificate course in 'Basics of Nematology'
Academic Year 2023-24
Exam Block Report

Class- Final Year

Date- 26/03/2024

Subject: Theory Paper of Basics of Nematology

Block no: 01

SR NO	REGISTRATION NO	NAME OF STUDENT	SIGN
1	AKN-2020/073	Mahajan Tushar Shamkant	<i>SSM</i>
2	AKN-2020/075	More Payal Ramdas	<i>Payal</i>
3	AKN-2020/089	Pawar Bhumika Suresh	<i>Bhauve</i>
4	AKN-2020/090	Pawar Kunal Shivaji	<i>Kunal</i>
5	AKN-2020/101	Sandhan Om Namdev	<i>Om</i>
6	AKN-2020/102	Satpute Siddhika Santosh	<i>Siddhi</i>
7	AKN-2020/109	Suryawanshi Unnati Ravindra	<i>Unnati</i>
8	AKN-2020/112	Thakur Bhuwaneshwari Vijay	<i>Bhuwaneshwari</i>
9	AKN-2020/079	Padwal Kunal Tushar	<i>Kunal</i>
10	AKN-2020/119	Walunj Omkar Vikas	<i>Omkar</i>
11	AKN-2020/120	Watpade Mayuri Ashok	<i>Mayuripade</i>
12	AKN/D-2021/007	Jagtap Tanmay Bhika	<i>Tanmay</i>
13	AKN/D-2021/012	Patil Rohit Shivnath	<i>Rohit</i>
14	AKN/D-2021/013	Patil Sakshi Nana	<i>Sakshi</i>
15	AKN/D-2021/014	Pawar Madhavi Madhukar	<i>Madhavi</i>
16	AKN/D-2021/017	Shinde Aadesh Dilip	<i>Aadesh</i>
17	AKN/D-2021/019	Shinde Sakshi Sharad	<i>Sakshi</i>
18	AKN/D-2021/022	Walve Janhavi Sharad	<i>Janhavi</i>

Total no of student:

No of student present:

No of students absent:

Name and Sign of Jr. Supervisor

(H.N. Patil)



Name and Sign of Sr. Supervisor

(M.S. Kuyate)



K. K. Wagh Education Society's

26/03/2024 -

Name of the Student Wakade Mayuri Ashok

Registration / Enrolment No. AKN-2020/120

Ex. Seat No. AKN-2020/120

Signature of Supervisor / invigilator

Objectives

1) Phylum Nematoda divided into how many classes?

→ 2

2) Following is the example of endoparasitic nematode?

→ Meloidogyne

3) nematode cause root-rot disease in banana?

→ Burrowing nematode

4) First nematode reported from in Maharashtra?

→ Yadner, Nashik

5) was referred as father of Nematology?

→ N.A. Cobb

6) Who discovered the first plant parasitic nematode?

→ T. Needham

7) Indian Journal of nematology started in the year

→ 1971

8) is seed gall nematode of cereals?

→

2

9) The ^{name} nematode was derived from words

→

Latin

10) ~~The~~ Nematode body is bilaterally
→ Asymmetrical

11) The circulatory system is in nematode body.

→

Absent

12) the golden nematode of potato

→

Globodera rostochiensis

13) Life cycle of nematode is direct and there are juvenile stages?

→

4

14) The root lesion nematode is important pest of coffee in South India?

→

Pratylenchus spp.

15) Moulting usually occurs times in life cycle of nematode?

→

5



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Department of Entomology

Certificate course in
'Basics of Nematology'
Academic Year 2023-24

Student Result

Sr. No.	Registration no	Name of the students	Theory marks (30)	Practical Marks (20)	Mark Out of Total 50
1	AKN-2020/073	Mahajan Tushar Shamkant	20	18	38
2	AKN-2020/075	More Payal Ramdas	21	18	39
3	AKN-2020/089	Pawar Bhumika Suresh	24	18	42
4	AKN-2020/090	Pawar Kunal Shivaji	24	19	43
5	AKN-2020/101	Sandhan Om Namdev	24	18	42
6	AKN-2020/102	Satpute Siddhika Santosh	24	17	41
7	AKN-2020/109	Suryawanshi Unnati Ravindra	22	17	39
8	AKN-2020/112	Thakur Bhuwaneshwari Vijay	24	19	43
9	AKN-2020/079	Padwal Kunal Tushar	28	18	46
10	AKN-2020/119	Walunj Omkar Vikas	26	17	43
11	AKN-2020/120	Watpade Mayuri Ashok	22	18	40
12	AKN/D-2021/007	Jagtap Tanmay Bhika	20	18	38
13	AKN/D-2021/012	Patil Rohit Shivnath	26	16	42
14	AKN/D-2021/013	Patil Sakshi Nana	18	19	37
15	AKN/D-2021/014	Pawar Madhavi Madhukar	24	18	42
16	AKN/D-2021/017	Shinde Aadesh Dilip	26	17	43
17	AKN/D-2021/019	Shinde Sakshi Sharad	26	17	43
18	AKN/D-2021/022	Walve Janhavi Sharad	26	18	44

Course Coordinator



Principal
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Department of Entomology

Certificate course in '**Basics of Nematology**'
Academic Year 2023-24

Report

K. K. Wagh Education Society's K. K. Wagh College of Agriculture, Saraswatinagar, Nashik which provide education in agriculture at U.G. level students. College has to decide introduce new Certificate Course in 'Basics of Nematology'. Total 18 students are enrolled from department of Entomology. Due to this certificate course in 'Basics of Nematology' Students get more knowledge about different types of nematode and their effective management.

Course outcome

- 1) Gain awareness of historical and current perspectives of nematodes.
- 2) Gain knowledge about different methods of nematode management.
- 3) Acquire knowledge on interaction of nematodes with microorganism.
- 4) Understand the identification of economically important plant nematodes.
- 5) Explore Techniques for mass production of Entomopathogenic Nematodes.

Students are able to understand methods of nematode management and its application in Agriculture. It helps in improve their knowledge about the morphology and physiology of different plant parasitic nematodes. Student get understand the symptoms caused by different nematodes which affect the crop growth. Students understand the interaction of nematodes with microorganism. This course also helps to motivate students to improve their entrepreneurship skill by studying different mass production techniques for EPN. In academic year 2018-19 eighteen students are enrolled for this certificate course. Course structure had been divided into theory and theory practical. Theory has 30 marks while theory practical has 20 marks weightage examination has been conducted for total 50 marks. Duration for this certificate course is 18/03/2024 to 23/03/2024 (Total 36 hrs.). The students who successfully completed the certificate course were given a certificate as appreciation by the college. Course coordinator is Mr. T. B. Ugale and member for this certificate course are, Miss. M. S. Kuyate, Mr. H. N. Patil, Mrs. P. V. Shinde and Mrs. S. K. Ahirrao.

Course Coordinator



Principal

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K K Wagh Education Society's

K K WAGH COLLEGE OF AGRICULTURE

(Affiliated to Mahatma Phule Krishi Vidyapeeth, Rahuri)

Saraswatinagar, Panchavati, Nashik - 422 003

Certificate

This is to certify that Mr./Ms. Watepade Mayuri Ashok

Class Final Year has completed Certificate Course on Basics of Nematology

..... from 18/03/2024 to 23/03/2024 organized by

Department of Entomology in academic year 2023-2024

Date : 27/03/2024

Place : Nashik


Course Coordinator




Principal
K K Wagh College of Agriculture
Saraswatinagar, Panchavati, Nashik-3