Date: 16/01/2020

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 'Insect borne diseases in crop and their management'. This course is scheduled from 04/02/2020 to 09/02/2020 and will involve approximately 40 final-year students. It is anticipated that this course will greatly benefit our students in enhancing their knowledge about management of insect borne diseases in crop. We kindly ask for your approval for the implementation of this course.

Thanking You,

Yours faithfully,

Mr. T. B. Ugale Course Coordinator





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Certificate course in

Insect borne diseases in crop and their management

Academic Year 2019-20

Syllabus Committee

Sr no	Name of teacher	Designation	Department	Role in course	
1	Mr. T. B. Ugale	Assistant Professor	Entomology	Course coordinator	
2	Mr. A. S. Mochi	Assistant Professor	Entomology	Committee member	
3	Miss. K. G. Shete	Assistant Professor	Entomology	Committee member	
4	Mrs. S. K. Ahirrao	Assistant Professor	Plant Pathology	Committee member	

Course Coordinator

Principal

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Date: 22/01/2020

Academic Year 2019-20 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 'Insect borne diseases in crop and their management' was convened on 21/01/2020, at 11:00 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	Ar.			
2	Mr. T. B. Ugale	Course Coordinator				
3	Mr. A. S. Mochi	Member	Amochi "			
4	Miss. K. G. Shete	Member	Shelfer			
5	Mrs. S. K. Ahirrao	Member	Horwood &			

Minutes of Meeting

The Board of Studies convened a meeting on 21/01/2020, at 11:00 AM in the Department of Entomology to address various aspects concerning the Short-Term Certificate Course in 'Insect borne diseases in crop and their management'. The meeting focused on the following key points:

1. Syllabus Formation: Members deliberated on developing a syllabus that emphasizes on

relevant knowledge about insect borne diseases.

2. Dissemination of Work: Strategies for effectively manage the disease which is transmitted by insects 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 plant diseases.

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.

5. 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 'Insect borne diseases'

in crop and their management'.

Course coordinator



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Department of Entomology

Certificate course in

'Insect borne diseases in Crops and their Management'

Academic Year 2019-20

Syllabus Outcomes:

- 1. Gain awareness of historical and current perspectives of vector.
- 2. Gain knowledge about different methods of viral diseases management.
- 3. Acquire knowledge on interaction of virus and vector relationship.
- 4. Understand the identification of economically important of viral diseases.
- 5. Explore Techniques for management of vector.

Sr. No	Topic	Description	No. of Lectures
1	Transmission of plant diseases by insects	Introduction- History of Insect, virus, Bacteria and economic importance.	06 hours
2	Role of insects in bacterial diseases of plants	Mechanisms of transmission of bacterial viral disease in Crops	03 hours
3	Diseases of Crops	Bacterial soft rots Bacterial wilts of plants Bacterial wilt of cucurbits Bacterial wilt of corn Fire blight of pears, apples and other rosaceous plants	03 hours
4	Insect transmission of xylem- inhabiting bacteria	Insect transmission of xylem-inhabiting bacteria	06 hours
5	Insect transmission of plant diseases caused by mollicutes	Mechanisms of Insect transmission of plant diseases caused by mollicutes	06 hours
6	Diseases of fruit and seeds in the field	Diseases of fruits and seeds transmitted by insect and management of Insect pest	06 hours
7	Insect transmission of plant pathogenic viruses	Virus-vector relationships Aphids and aphid-transmitted viruses Semi-persistent viruses Leafhoppers and planthoppers, and transmission of plant viruses Whitefly transmission of plant viruses Thrips transmission of plant viruses Virus transmission by insects that have biting/chewing mouthparts	06 hours
		Total	36 hours

Course Coordinator



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'Insect borne diseases in crop and their management' Academic Year 2019-20

Examination Methodology

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

Reference:

- 1) Insect Vectors and Plant Pathogens N. S. Butter
- 2) Insect Transmission of Plant Pathogens Michelle Heck
- 3) Vectors of Plant Pathogens Erry F. Harris and Karl Maramorosch
- 4) Insect-Borne Plant Pathogens and Their Vectors: Ecology, Evolution, and Complex Interaction Sanford D. Eigenbrode, Nilsa A. Bosque-Perez, and Thomas S. Davis

5) Insects and Plant Diseases - Kenneth M. Smith

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Date: 23/01/2020

Student Notice

All the students of B. Sc. (Hons.) Agriculture final year are informed that for the academic year 2019-2020 the Certificate Course on 'Insect borne diseases in crop and their management' is starting from 04/02/2020 to 09/02/2020. For this certificate course students should submit their names to the Certificate Course Coordinator Mr. T. B. Ugale up to 03/02/2020

Duration: 36 Hrs. 04/02/2020 to 09/02/2020 Time: Morning Session: 10.00 am to 1.00 pm Afternoon session: 2.00 pm to 5.00 pm

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

Course Coordinator

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



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STUDENT REGISTRATION FORM

Academic Year: 2019-20 (Department of Entomology)

CERTIFICATE COURSE

'Insect borne diseases in crop and their management'

For Department Use Only
Registration No.: AKN 2016 Jog 5
Was of the Student: Shinds Mayur Ashok
Mother's Name Manisla Ashok shinde
Father's Name:
Father's Name:
mayurshinde 0.15@gmail.com
Address: Pimpal goon Bossant Tol. Niphad . Ust Nashir.
State: Maharashtra PIN Code: 422209
Mobile No: 7744890418 Alternate contact number: 7720000705
Gender: Male Other Religion: Hindur,
Date of Birth:16.(.)1.).19.9.7
Educational Qualification (at the time of admission):
HSC .52 00 Other
Prhinds
Signature of Student

Place: Nashi K.
Date: 24/01/2020.



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Department of Entomology

Certificate course in

Insect borne diseases in crop and their management

Academic Year 2019-20

Enrolled Student List

SR NO	REGISTRATION NO	NAME OF STUDENT	SIGN			
		Chavan Tushar Ramdas	Baron.			
2 AKN-2016/050		Khairnar Pratiksha Uttam	Pho			
3	AKN-2016/082	Ratnpgol Akshata Balappa	Apolor			
4	AKN-2016/001	Abnave Ankita Jayendranath	dehan _			
5	AKN-2016/120	Zuting Akshay Balasaheb	+			
6	AKN-2016/091	Shewale Jayashri Nandlal	e Venede -			
7	AKN-2016/116	Wagdare Sushilkumar Tabaji	Spea			
8	AKN-2016/093	Shinde Anil Gangadhar	skinde -			
9	AKN-2016/054	Lavand Tushar Tanaji	Laurara			
10	AKN-2016/089	Shankhpal Gokul Sopanrao	Grakmit			
11	AKN-2016/071	Patil Krishnvardhan Jayawant	Spati			
12	AKN-2016/058	Misar Samarth Jagannath	Alsum.			
13	AKN-2016/100	Shirsath Prafulla Dattatray	Sioseth			
14	AKN-2016/055	Mandlik Rasika Ramesh	OP COM			
15	AKN-2016/014	Bhosale Rushikesh Kailas	TENTO			
16	AKN-2016/017	Bombale Yashkumar Vijay	Quest			
17	AKN-2016/005	Belkar Prakash Bhau	@~~			
18	AKN-2016/015	Bhoye Puja Bhaurao	bonny.			
19	AKN-2016/035	Gawali Aditi Datta	Davali No marks			
20	AKN-2016/040	Jadhay Alshay Subhash	Arshout			



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21	AKN-2016/039	Ingle Prasheek Jalindar	Smell .
22	AKN-2016/037	Ghuge Sachin Bhagwan	Ache
23	AKN-2016/023	Dashpute Swapnil Dashrath	schale.
24	AKN-2016/096	Shinde Nisarg Shivnath	undrinde
25	AKN-2016/028	Dhangar Nilesh Vikas	Sail
26	AKN-2016/104	Sonone Manoj Prabhakar	Say.
27	AKN/D-2017/014	Mhaisdhune Rohit Pandit	(Am)
28	AKN-2016/038	Ichche Vishnu Ramdas	(00)
29	AKN/D-2017/002	Bacchav Harshad Sunil	8
30	AKN-2015/021	Desale Prashant Chandrashe	Printed.
31	AKN/D-2017/003	Chaudhari Rakesh Dinkar	Bures
32	AKN/D-2017/007	Ghule Sumit Damodar	A drug C
33	AKN/D-2017/012	Khandave Prasad Rajaram	Anaka.
34	AKN-2016/098	Shinde Tushar Tanaji	51.
35	AKN/D-2017/020	Shirsath Vikas Bharat	Mound
36	AKN-2015/116	Wagh Rushiprasad Shantaram	Salt
37	AKN/D-2017/016	Palvi Manish Popat	March
38	AKN-2016/095	Shinde Mayur Ashok	Abinds
39	AKN-2016/080	Rakh Suraj Ramrao	Shahh
40	AKN/D-2017/011	Khalkar Amol Shantaram	Aprod

Course Coordinator

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Department of Entomology

Certificate course in 'Insect borne diseases in crop and their management Academic Year 2019-20

Schedule of the course

Sr No	Topie	Description	Name of the teacher	Department	
1	Transmission of plant diseases by insects	Introduction- History of Insect, virus, Bacteria and economic importance.	Mr. T. B. Ugale	Entomology	
2	Role of insects in bacterial diseases of plants Mechanisms of transmission of bacterial viral disease in Crops		Mr. T. B. Ugale	Entomology	
3	Diseases of Crops	Mrs. S. K. Ahirrao	Plant Pathology		
4	Insect transmission of xylem-inhabiting bacteria	rosaceous plants Insect transmission of xylem- inhabiting bacteria	Mr. M. S. Mochi	Entomology	
5	Insect transmission of plant diseases caused by mollicutes	Mechanisms of Insect transmission of plant diseases caused by mollicutes	Miss. K. G. Shete	Entomology	
6	Diseases of fruit and seeds in the field	Diseases of fruits and seeds transmitted by insect and management of Insect pest	Mrs. S. K. Ahirrao	Plant Pathology	
7	Insect transmission of plant pathogenic viruses	Virus-vector relationships Aphids and aphid-transmitted viruses Semi-persistent viruses Leafhoppers and planthoppers, and transmission of plant viruses Whitefly transmission of plant viruses Thrips transmission of plant viruses Virus transmission by insects that have biting/chewing mouthparts	Mr. T. B. Ugale	Entomology	

Course Coordinator



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Department of Entomology Certificate course in 'Insect borne diseases in crop and their management Academic Year 2019-20

Time Table

Sr	Date	7	Time	Topic
no				
1	04/02/20 20	10.00 am- 01.00 pm	03.00 pm - 05.00 pm	Transmission of plant diseases by insects
2	05/02/20 20	10.00 am- 01.00 pm	03.00 pm - 05.00 pm	Role of insects in bacterial diseases of plants Diseases of Crops
3	06/02/20 20	10.00 am- 01.00 pm	03.00 pm - 05.00 pm	Insect transmission of xylem-inhabiting bacteria
4	07/02/20 20	10.00 am- 01.00 pm	03.00 pm - 05.00 pm	Insect transmission of plant diseases caused by mollicutes
5	08/02/20 20	10.00 am- 01.00 pm	03.00 pm - 05.00 pm	Diseases of fruit and seeds in the field
6	09/02/20 20	10.00 am- 01.00 pm	03.00 pm - 05.00 pm	Insect transmission of plant pathogenic viruses

Course Coordinator



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Saros...atmagar, Panchavati, Nashik-3

K K WAGH COLLEGE OF AGRICULTURE, NASHIK

Department of Entomology

Certificate course in 'Insect borne diseases in crop and their management' Academic Year 2019-20

Sr	Registration no	Registration no Name of students Date:		04/02/2020 to		05/02/2020		06/02/2023		07/02/2020		2020	09/02/2020		
No															
		Time:	10.00-1.00	2.00-5.00	10.00-1.00	2.00-5.00	10.00-1.00	2.00-5.00	10.00-1.00	2.00-5.00	10.00-1.00	2.00-5.00	10.00-1.00	2.00-5.00	
1	AKN-2016/021	Chavan Tushar Ramdas	There	Druxse	Paven	Phaver	"Awan	Danam	Pressed	(Para)	Floren	Aum	Pheness	Theux	
2	AKN-2016/050	Khairnar Pratiksha Uttam	Pko	DRES	Pas	Otes	Die	RE	Ples	pro	Pre	Poe	Dia	pke	
3	AKN-2016/082	Ratnpgol Akshata Balappa	Apulos	-April 30	- Apriled	Applad	Sportgo	Anatad	- Aparte	Apodeol	Apolgo	Apolal	Apolo	And	
4	AKN-2016/001	Abnave Ankita Jayendranath	April	Abraic	Abrai	Abrav	- Abrair	Abna	Abhar	Abras	Alba	Altha	Alm	Am	
5	AKN-2016/120	Zuting Akshay Balasaheb	A	AZ	A	A	A	A	Ar	K	AZ	K	M	R	
6	AKN-2016/091	Shewale Jayashri Nandlal	Hard 5	Treate	thank	Lavolo	Mastr	Laure	Hendre	Tweele	Roule	Thouse	Trame	Aguels	
7	AKN-2016/116	Wagdare Sushilkumar Tabaji	Spice	Spare	Spare	Spe	Spare	Spe	Spice	Space		Spe		8pm	
8	AKN-2016/093	Shinde Anil Gangadhar	Anina	daliner	Ashira	Ashine.	Ashiras	Ship	Ashinda	-delinde	Shink	Ashiras	Asline	dollad	
9	AKN-2016/054	Lavand Tushar Tanaji	lowered	Jacera		Mawis	Ayuna	d'enon a	lwers	lames	favora	alaign	lawara	Jums	
10	AKN-2016/089	Shankhpal Gokul Sopanrao	Schaku	(Out	Sabul	Bakul	TO .	Stockel	Capy	Statul	80kul	Staby		Stake	
11	AKN-2016/071	Patil Krishnvardhan Jayawant	8 pay	8p4	Spatil .	Smill	Sports	Sodi	South	Spott	Spotil	Souti	Spatif	Spart	
12	AKN-2016/058	Misar Samarth Jagannath	Anson	ANSON	Mison	Mizar	Misore	Disar	Sur	shison	AMSom	Misas	shise-	· 8/1/sa	
13	AKN-2016/100	Shirsath Prafulla Dattatray	Shoet	Shoon	Sirosal	Stingal	8 hiseal	Shirsal	Shoot	Shisal	Street	Shaz	n Show	Shi	
14	AKN-2016/055	Mandlik Rasika Ramesh	PHS.	PRIL	ST-Pa	PANE	PUBL	PKBH	Pash	PKB	PKSH	Pron	@po	RKB	
15	AKN-2016/014	Bhosale Rushikesh Kailas	Bushires	Questive	Rushish		Bushical	Pashires	Burny	Bushkel	Rushin	RUSHIE	BUSHING	RUSH	
16	AKN-2016/017	Bombale Yashkumar Vijay	Rott	Bood	Bomb	(Bomb)	Bombis	Bords		Good	Boros	Barob	Bornio	Bourt	
17	AKN-2016/005	Belkar Prakash Bhau	B	B~	Ber	⊕ ~	(A-	(B)	@~~	Q~	B~	By	am.	B~~	
18	AKN-2016/015	Bhoye Puja Bhaurao	Deneul	Perox	Broth.	Birens.	Broke	BRUOTE	Danois	Brek.	Paros	Porch	OBNOY	Brok	

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K K WAGH COLLEGE OF AGRICULTURE, NASHIK

Department of Entomology

Certificate course in 'Insect borne diseases in crop and their management' Academic Year 2019-20

Sr No	Registration no	Name of students Date:	04/02/202 0 to		05/02/2020		06/02/2023		07/02/2020		08/02/2020		09/02/2020	
		Time:	10.00-1.00	2.00-5.00	10.00-1.00	2.00-5.00	10.00-1.00	2.00-5.00	10.00-1.00	2.00-5.00	10.00-1.00	2.00-5.00	10.00-1.00	2.00-5.00
1	AKN-2016/021	Chavan Tushar Ramdas	There	Druesse	Paven	About	Anan	Towar	Berries	(Para)	Player	Aun	Cherry	Phowe
2	AKN-2016/050	Khairnar Pratiksha Uttam	Dka	Des	De	Otes	Pko	REP	Die	pro	Pke	Poe	Pka	PER
3	AKN-2016/082	Ratnpgol Akshata Balappa	Apolox	-April 20	Apulad	Andred	Sportgo	Arated	Apata	Aporto	Apolgo	Apoleo	Apatro	Apala
4	AKN-2016/001	Abnave Ankita Jayendranath	April	Abraic	Abray	Abrav	- Abrav	Abna	Abbay	Abras	Alba	Abba	Ahm	Abox
5	AKN-2016/120	Zuting Akshay Balasaheb	A	AZ	A	te	A	1	Ar	A	A	X	M	K
6	AKN-2016/091	Shewale Jayashri Nandlal	March	therede	thank	Double	Alaska	- Agunde	Henete	Tweele	Toute	Thomas	Trame	aldrels
7	AKN-2016/116	Wagdare Sushilkumar Tabaji	Spie	Spare	Spale	Spe	Spare		Spore	Space	Span	Spe		8pae
8	AKN-2016/093	Shinde Anil Gangadhar	Mina	daliner	Ashira	Ashirae.	Ashirac	Ashion.	Ashinda	-delinde	skinds	Ashige	Tolige	Lahret
9	AKN-2016/054	Lavand Tushar Tanaji	lowerd.	Jacera	louve	1 Jacomb	August .	Lucha	laura	Laver	Lawns	alaign	lawara	hum
10	AKN-2016/089	Shankhpal Gokul Sopanrao	Schaku	Corul	Sabel	BOKU	Sakul	Stake)	Cakel	Statul	(Saku	Staby	Beky	Styley
11	AKN-2016/071	Patil Krishnvardhan Jayawant	8 page	8pt	Spotil	Smill	Spate	Spoti	South	Spott	Spotil	Soutil	Spatif	Sparti
12	AKN-2016/058	Misar Samarth Jagannath	Anisar	AME	Miser	Alizar	Misore	hisar	Sur	ghison	ANSON	Misos	Mison	- ghisar
13	AKN-2016/100	Shirsath Prafulla Dattatray	Shosch	Shoon	Sirosal	Strosoff	Shissal	Shinsal	Shoot	Shisal	Show	Short	Stosal	Shie
14	AKN-2016/055	Mandlik Rasika Ramesh	PHS	PRIL	FF-Ph	PANE	PUBL	PKBH	PARW	PKBE	PKBH	Pra	(Dra	RKRI
15	AKN-2016/014	Bhosale Rushikesh Kailas	Bushivel	Bushlys	Rushish	PUSHIYEL	Bushical	Pashives	Burney	Bushikely	Rushm	Quantit	BUSHING	RUSHIK
16	AKN-2016/017	Bombale Yashkumar Vijay	Rott	Rood	Bomb)	(dence)	Bomble	Bords		Gomes	-	Barolo	Bornio	Bores
17	AKN-2016/005	Belkar Prakash Bhau	(B)	@~	Ber	(B~	(A-	(Blue	0	P~	Pm	184	a~	B~
18	AKN-2016/015	Bhoye Puja Bhaurao	08 hour	Penox	Book (BILLER.	Panata	Bross	Danois.	Brey.	Paros	POPLE	OBJOY	Broke

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Department of Entomology

Certificate course in Insect borne diseases in crop and their management Academic Year 2019-20

Exam Time Table

All enrolled students of the Certificate Course are hereby informed that for the academic year 2019-20, the Certificate Course on Insect borne diseases in crop and their management has been completed. The examination for this certificate course is scheduled to be conducted on 11/02/2020. Therefore, all students are required to be present without exception.

Note: Time Table is as follow

Sr. No	Date	Time	Certificate course subject		
1	11/02/2020	1:00 to 3:00 pm	Theory exam: Insect borne diseases in crop and their management		
2		3:00 to 5:00 pm	Practical Exam: Insect borne diseases in crop and their management		

Course Coordinator

Exam Incharge

K. K. WPrinciplage of Agriculture Saraswatinagar, Panchavati, Nashik-3





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

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Department of Entomology

Certificate course in 'Insect borne diseases in crop and their management

Academic Year 2019-20

Exam Block Report

Class-Final Year

Date- 11/02/2020

Subject: Theory Paper of Basics of Nematology

Block no: 03

SR NO	REGISTRATION NO	NAME OF STUDENT	SIGN
1	AKN-2016/021	Chavan Tushar Ramdas	Danan.
2	AKN-2016/050	Khairnar Pratiksha Uttam	PKB
3	AKN-2016/082	Ratnpgol Akshata Balappa	Apalgol
4	AKN-2016/001	Abnave Ankita Jayendranath	Actava
5	AKN-2016/120	Zuting Akshay Balasaheb	1
6	AKN-2016/091	Shewale Jayashri Nandlal	Parole
7	AKN-2016/116	Wagdare Sushilkumar Tabaji	Spole
8	AKN-2016/093	Shinde Anil Gangadhar	Ashinde
9	AKN-2016/054	Lavand Tushar Tanaji	Seward
10	AKN-2016/089	Shankhpal Gokul Sopanrao	Shammerpel
11	AKN-2016/071	Patil Krishnvardhan Jayawant	Cati
12	AKN-2016/058	Misar Samarth Jagannath	MIsa~
13	AKN-2016/100	Shirsath Prafulla Dattatray	Strosath
14	AKN-2016/055	Mandlik Rasika Ramesh	Page .
15	AKN-2016/014	Bhosale Rushikesh Kailas	A BH
16	AKN-2016/017	Bombale Yashkumar Vijay	Bord
17	AKN-2016/005	Belkar Prakash Bhau	(Am
18	AKN-2016/015	Bhoye Puja Bhaurao	Paroye
19	AKN-2016/035	Gawali Aditi Datta	Revol
20	AKN-2016/040	Jadhav Akshay Subhash	Havall



21	AKN-2016/039	Ingle Prasheek Jalindar	gras
22	AKN-2016/037	Ghuge Sachin Bhagwan	funit.
23	AKN-2016/023	Dashpute Swapnil Dashrath	Shorts
24	AKN-2016/096	Shinde Nisarg Shivnath	mahinde
25	AKN-2016/028	Dhangar Nilesh Vikas	500
26	AKN-2016/104	Sonone Manoj Prabhakar	Say
27	AKN/D-2017/014	Mhaisdhune Rohit Pandit	(AF)
28	AKN-2016/038	Ichche Vishnu Ramdas	(LED)
29	AKN/D-2017/002	Bacchav Harshad Sunil	(D)
30	AKN-2015/021	Desale Prashant Chandrashe	Dinsell
31	AKN/D-2017/003	Chaudhari Rakesh Dinkar	Reves
32	AKN/D-2017/007	Ghule Sumit Damodar	Danie.
33	AKN/D-2017/012	Khandave Prasad Rajaram	mais
34	AKN-2016/098	Shinde Tushar Tanaji	Sud.
5	AKN/D-2017/020	Shirsath Vikas Bharat	Count,
6	AKN-2015/116	Wagh Rushiprasad Shantaram	bush
7	AKN/D-2017/016	Palvi Manish Popat	maket
8	AKN-2016/095	Shinde Mayur Ashok	A Pohinte
9	AKN-2016/080	Rakh Suraj Ramrao	Snahh.
			tonal
40	AKN/D-2017/011	Khalkar Amol Shantaram	mol

Total no of student: 40 No of student present: 40
No of students absent: Ni

Name and Sign of Jr. Supervisor

LEGE and Sign of Sr. Supervisor

NASHIK-3

K. K. Wagh College of Agriculture, Nashik

Department of Entomology

Certificate course in 'Insect borne diseases in crop and their management'

Academic Year 2019-20

	Academic Yea	r 2019-20	management
Class:	Final Year		
Day & Date:	Monday, 11/02/2020	Semester:	VIII
Subject:	'Insect borne diseases in crop and	Time:	1:00 to 3:00 pm
	their management'	Marks:	30 M
Name of student:	Shinde Mayur Ashok	Registration no:	nullana luas
			AKN/2016/095
	THEORY EXAM	MINATION	
1. Wh	nich insect transmits the Tomato spo	44.4 - 14 - 1 0	26)
	a) Aphids	ited wiit virus?	120
/ /	b) Whiteflies	\	39/
	e) Thrips		
	d) Leafhoppers		1 3
2. Wh	nat is the primary vector of the Rice t	ungro virus?	
/8	Brown planthopper	ungio virus:	
//t	o) Green leafhopper		
	c) Whitefly		Č
/ \ /	d) Aphid		
(Ни	nich insect yector is responsible for tr nanglongbing)?	ansmitting the Citi	rus greening disease
	a) Asian citrus psyllid		
	Whitefly		
	c) Aphid		
,	l) Thrips		
	i) Timps		
4 Wh	ich insect transmits the Maize streak	· visus 9	
) Leathoppers	. virus:	
	Whiteflies		
) Aphids		
	l) Thrips at is the main vector of the Cucumbe		
•		er mosaic virus?	
) Aphids Whiteflies		
	1 —		
U J	Thrips		
/d _.) Leafhoppers		
/			
6. Whi	ich insect transmits the Bean golden	yellow mosaic viru	s?
	Whiteflies		
) Aphids		
//) Thrips		
) Leafhoppers		
	at is the primary vector of the Tomat	to yellow leaf curl	virus?
_a)	Whiteflies		
b)) Aphids	LEGE	
()	Thrips (9)	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	
		10	

d) Leafhoppers	
8. Which insect vector is responsible for the virus?	e transmission of the Potato leafroll
a) Aphids	
b) Whiteflies	
c) Thrips	
d) Leafhoppers	
9. What insect transmits the Barley yellow	dwarf virus?
a) Aphids	
b) Leafhoppers	
c) Whiteflies	
d) Thrips	
00. is the primary vector for the transmission a) Aphids	on of the Sugarcane mosaic virus?
b) Whiteflies	
(e) Thrips	
d) Leafhoppers	
11. What is the main vector of the Grapevine	e fanleaf virus?
a) Nematodes	
b) Aphids	
c) Whiteflies	
d) Thrips	
12. Which insect transmits the African cassay	va mosaic virus?
a) Whiteflies	
b) Aphids	
(e) Thrips	
d) Leafhoppers	
13. What is the primary vector of the Cotton	leaf curl virus?
a) Whiteflies	
b) Aphids	
c) Thrips	
d) Leafhoppers	
14. Which insect transmits the Watermelon n	nosaic virus?
(a) Aphids	
b) Whiteflies	
c) Thrips	
d) Leafhoppers	
15. What is the main vector of the Lettuce mo	saic virus?
a) Aphids	, 11 4U.
b) Whiteflies	
Thrips	
d) Leafhoppers	15/
d) Leamoppers) R
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Department of Entomology

Certificate course in

'Insect borne diseases in crop and their management

Academic Year 2019-20

Student Result

Sr No	Registration No	Name Of Student	Theory marks (30)	Practical Marks (20)	Mark Out of Total 50
1	AKN-2016/021	Chavan Tushar Ramdas	28	18	46
2	AKN-2016/050	Khairnar Pratiksha Uttam	28	17	45
3	AKN-2016/082	Ratnpgol Akshata Balappa	30	17	47
4	AKN-2016/001	Abnave Ankita Jayendranath	28	16	44
5	AKN-2016/120	Zuting Akshay Balasaheb	26	18	44
6	AKN-2016/091	Shewale Jayashri Nandlal	30	17	
7	AKN-2016/116	Wagdare Sushilkumar Tabaji	28	16	47
8	AKN-2016/093	Shinde Anil Gangadhar	30	16	46
9	AKN-2016/054	Lavand Tushar Tanaji	30	17	47
10	AKN-2016/089	Shankhpal Gokul Sopanrao	30	16	46
11	AKN-2016/071	Patil Krishnvardhan Jayawant	28	18	46
12	AKN-2016/058	Misar Samarth Jagannath	28	18	46
13	AKN-2016/100	Shirsath Prafulla Dattatray	28	17	45
14	AKN-2016/055	Mandlik Rasika Ramesh	28	16	44
15	AKN-2016/014	Bhosale Rushikesh Kailas	26	18	44
16	AKN-2016/017	Bombale Yashkumar Vijay	26	18	· ·
17	AKN-2016/005	Belkar Prakash Bhau	26	17	44
18	AKN-2016/015	Bhoye Puja Bhaurao	26	17	43
19	AKN-2016/035	Gawali Aditi Datta	22	18	
20	AKN-2016/040	Jadhav Akshay Subhash	30	16	40
21	AKN-2016/039	Ingle Prasheek Jalindar	30	17	46



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	T. 101 221 (122	1 0:			
22	AKN-2016/037	Ghuge Sachin Bhagwan	36	17	47
23	AKN-2016/023	Dashpute Swapnil Dashrath	26	18	44
24	AKN-2016/096	Shinde Nisarg Shivnath	26	17	43
25	AKN-2016/028	Dhangar Nilesh Vikas	30	16	46
26	AKN-2016/104	Sonone Manoj Prabhakar	30	16	46
27	AKN/D-2017/014	Mhaisdhune Rohit Pandit	30	18	48
28	AKN-2016/038	Ichche Vishnu Ramdas	26	18	44
29	AKN/D-2017/002	Bacchav Harshad Sunil	26	18	44
30	AKN-2015/021	Desale Prashant Chandrashe	26	17	43
31	AKN/D-2017/003	Chaudhari Rakesh Dinkar	26	17	43
32	AKN/D-2017/007	Ghule Sumit Damodar	26	18	44
33	AKN/D-2017/012	Khandave Prasad Rajaram	26	18	44
34	AKN-2016/098	Shinde Tushar Tanaji	28	17	45
35	AKN/D-2017/020	Shirsath Vikas Bharat	28	16	44
36	AKN-2015/116	Wagh Rushiprasad Shantaram	26	17	43
37	AKN/D-2017/016	Palvi Manish Popat	28	18	46
38	AKN-2016/095	Shinde Mayur Ashok	26	19	45
39	AKN-2016/080	Rakh Suraj Ramrao	28	17	45
40	AKN/D-2017/011	Khalkar Amol Shantaram	26	16	42

Course Coordinator



Principal

PRINCIPAL

K. K. Wagh College of Agriculture
Safaswatinagar, Panchavati, Nashik-3



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Department of Entomology

Certificate course in 'Insect borne diseases in crop and their management'

Academic Year 2019-20

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 'Insect borne diseases in crop and their management'. Total 40 students are enrolled from department of Entomology. Due to this certificate course in 'Insect borne diseases in crop and their management'. Students get more knowledge about different types of insect borne diseases and their effective management.

Course outcome

- 1. Gain awareness of historical and current perspectives of vector.
- Gain knowledge about different methods of viral diseases management.
- Acquire knowledge on interaction of virus and vector relationship.
- Understand the identification of economically importance of viral diseases.
- Explore Techniques for management of vector.

Students are able to understand methods of viral diseases management and its application in Agriculture. It helps in improve their knowledge about the interaction of virus and vector relationship. Student get understand the symptoms caused by different nematodes which affect the crop growth. Students understand the identification of economically importance of viral diseases and explore different techniques for management of vector. In academic year 2019-20, 40 students are enrolled for this certificate course. Course structure had been divided into theory and theory practical. Theory has 30 marks while practical has 20 marks weightage examination has been conducted for total 50 marks. Duration for this certificate course is 04/02/2020 to 09/02/2020 (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, Mr. A.S. Mochi, Miss. K. G. Shete and Mrs. S. K. Ahirrao.

Course Coordinator



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

