

Department of Agronomy

2-Week Certificate Course
'Carbon Sequestration in
Agriculture: Theoretical
Perspectives'

#### **Course Details**

• Duration: 2 Weeks

• **Dates:** 19/12/2022 to 31/12/2022

- Time:
- Morning Session:
   09:00 am to 10.00 am
- Evening session: 5:00 pm to 6.00 pm
- Fee: Free of cost
- Certification: Certificate of Completion





**Topic Schedule** 

### 19/12/2022 to 21/12/2022

Topic: Introduction to Carbon Sequestration

#### 22/12/2022 to 23/12/022

Topic: Carbon Sequestration in Agricultural Soils

Topic: Vegetative Carbon Sequestration Methods

### 25/12/2022

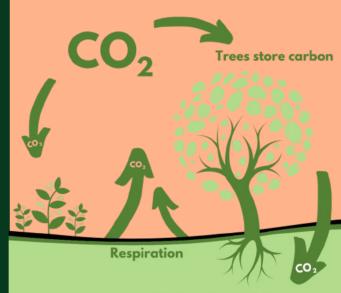
Topic: Carbon Sequestration in Maharashtra

### 26/12/2022 to 28/12/2022

Topic: Benefits and Challenges of Carbon Sequestration

### 29/12/2022 to 31/12/2022

Topic: Policy and Practice Recommendations



Carbon stored belowground

### **Registration Information**

Registration Deadline:

15/12/2022

Contact to:

Ms S V Sonawane

Department of Agronomy

- Mobile No.: 9158591736
- Email id:

svsonawane@kkwagh.edu.in

We want to have a positive impact on the planet

Date: 07/12/2022

To,

The Principal

K. K. Wagh College of Agriculture,

Nashik

Subject Regarding permission for Certificate Course.....

Respected Sir,

On behalf of the Department of Agronomy, we humbly request permission to initiate Certificate course titled 'Carbon Sequestration in Agriculture: Theoretical Perspectives'. This course is scheduled from 19/12/2022 to 31/12/2022 and will involve approximately 40 second year students. It is anticipated that this course will greatly benefit our students in enhancing their knowledge about application and importance of cover crops and green manures in agriculture. We kindly ask for your approval for the implementation of this course.

Thanking You,

Yours faithfully,

(Prof S V Sonawane)

**Course Coordinator** 

Permission granted



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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### Certificate course in

### 'Carbon Sequestration in Agriculture: Theoretical Perspectives'

Academic Year 2022-23

### **Syllabus Committee**

Sr no	Name of teacher	Designation	Department	Role in course
1	Prof. S V Sonawane	Assistant Professor	Agronomy	Course coordinator
2	Dr. P P Kahrche	Assistant Professor	Agronomy	Committee member
3	Prof S A Hulgunde	Assistant Professor	Agronomy	Committee member

Course Coordinator

K.K.Wagh College of Agrieulture Saraswatinagar, Panchavati, Nashik





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Date: 08 / 12 /2022

### Academic Year 2022-23

### Department of Agronomy

### 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 'Carbon Sequestration in Agriculture: Theoretical Perspectives' was convened on 8th December 2022, at 12:00 PM in the Department of Agronomy. The meeting was attended by the following Syllabus Design Committee members:

Sr no	Name of the expert	Designation	Sign
	Dr. S. M. Hadole	Principal	M
2	Prof. S V Sonawane	Course Coordinator	-6
3	Dr. P P Kharche	Committee member	0
4	Prof S A Hulgunde	Committee member	Hunt

Minutes of Meeting

The Board of Studies convened a meeting on 8th December 2022, at 12:00 PM in the Department of Agronomy to address various aspects concerning the Short-Term Certificate Course in 'Carbon Sequestration in Agriculture: Theoretical Perspectives' The meeting focused on the following key points:

- 1. Syllabus Formation: Members deliberated on developing a syllabus that emphasizes on relevant knowledge and application of carbon sequestration in agriculture.
- 2. Dissemination of Work: Strategies for effectively teaching practices on carbon sequestration in agriculture were discussed to aid students in the course.
- 3. Encouragement of Students: The meeting stressed the importance of offering guidance and motivation to students.
- 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 'Carbon Sequestration in Agriculture: Theoretical Perspectives'

Course coordi





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### Department of Agronomy Certificate course in 'Carbon Sequestration in Agriculture: Theoretical Perspectives' Academic Year 2022-23

**Syllabus Outcomes:** 

- 1. Comprehensive Understanding of Carbon Sequestration Principles
- 2. Insights into Soil Carbon Sequestration
- 3. Knowledge of Plant-Based Carbon Sequestration
- 4. Policy and Management Understanding
- 5. Critical Thinking and Communication Skills

Sr no	Topic	Description	No of Lectures
1	Introduction to Carbon Sequestration	<ul> <li>Basic concepts of carbon sequestration</li> <li>Carbon cycle and storage mechanisms</li> <li>Importance in climate change mitigation</li> </ul>	06 hours
2	Carbon Sequestration in Soils	<ul> <li>Soil carbon dynamics and storage</li> <li>Factors affecting soil carbon sequestration</li> <li>Soil types and their carbon storage potential</li> </ul>	03 hours
3	Carbon Sequestration in Plants	<ul> <li>Role of vegetation in carbon sequestration</li> <li>Agroforestry and carbon storage</li> <li>Crop selection and management practices</li> </ul>	03 hours
4	Agricultural Practices for Carbon Sequestration	<ul> <li>Conservation tillage and cover cropping</li> <li>Agroforestry systems</li> <li>Improved grazing practices and their impact on carbon storage</li> </ul>	06 hours





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Sr. No.	Topic	Description	No of Lectures	
5	Benefits and Challenges of Carbon Sequestration	<ul> <li>Benefits for soil health and productivity</li> <li>Economic considerations and incentives</li> <li>Potential challenges and limitations</li> </ul>	06	
6	Policy and Management Insights	<ul> <li>Policies supporting carbon sequestration</li> <li>Integrating carbon management into agricultural practices</li> <li>Future prospects and developments</li> </ul>	06	
		Total	30 hours	

Saraswatinagar, Panchavati, Nashik





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

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Date: 09/12/2022

#### **Student Notice**

All the students of B.Sc.(Hons.) Agriculture second year students are informed that for the academic year 2022-23 the Certificate Course on 'Carbon Sequestration in Agriculture: Theoretical Perspectives' is starting from 19/12/2022 to 31/12/2022. For this certificate course students should submit their names to the Certificate Course Coordinator Assistant Prof. S V Sonawane up to 15/12/2022.

Duration: 30 Hrs.

Period |: 19/12/2022 to 31/12 /2022

Time:

Morning Session: 09:00 am to 10.00 am

Afternoon session: 5:00 pm to 6.00 pm

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

Course Coordinator

K.K.Wagh College of Agriculture Saraswatinagar, Panchavati, Nasnik





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### Department of Agronomy

Certificate course in

'Carbon Sequestration in Agriculture: Theoretical Perspectives'

Academic Year 2022-23

**Enrolled Student List** 

R O	REGISTRATION NO	NAME OF STUDENT
1	AKN-2021/011	Chandankhede Prajwal Jiwandas
2	AKN-2021/014	Chaudhari Siddhant Satish
3	AKN-2021/015	Davange Pratham Pramod
4	AKN-2021/017	Deore Jay Shashikant
5	AKN-2021/026	Dhurve Parth Sheshrao
6	AKN-2021/029	Gadekar Meghna Bhausaheb
7	AKN-2021/030	Gadekar Shraddhey Sunil
8	AKN-2021/031	Gaikwad Diya Satish
9	AKN-2021/032	Gangurde Ankita Shashikant
10	AKN-2021/041	Gite Harshada Bhausaheb
11	AKN-2021/062	Koli Ishika Vijay
12	AKN-2021/065	Ladkat Yash Gangaram
13	AKN-2021/070	Mogare Dev Romesh
14	AKN-2021/071	Morankar Aditi Avinash
15	AKN-2021/074	Mutha Mitali Akshaykumar
16	AKN-2021/075	Navsare Nandini Kishor
17	AKN-2021/084	Patil Snehal Anilkumar
18	AKN-2021/085	Patil Yash Sudhir
19	AKN-2021/088	Pawar Sangharsh Vilas
20	AKN-2021/090	Pawara Harshali Ramesh





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SR NO	REGISTRATION NO	NAME OF STUDENT
21	AKN-2021/091	Pokharkar Shravani Vishwas
22	AKN-2021/094	Sadavarte Chinmay Nilesh
23	AKN-2021/097	Satpute Priyanka Dnyaneshwar
24	AKN-2021/098	Sawant Roshan Avinash
25	AKN-2021/099	Shete Pratik Shivaji
26	AKN-2021/100	Shewale Krutika Balasaheb
27	AKN-2021/101	Shewale Yash Manohar
28	AKN-2021/106	Suryawanshi Om Pravin
29	AKN-2021/107	Tambe Vedant Sandeep
30	AKN-2021/108	Tambere Abhijit Baburao
31	AKN-2021/109	Thakare Prasad Vijay
32	AKN-2021/110	Thakare Sakshi Sudesh
33	AKN-2021/111	Vaidya Darshan Sanjay
34	AKN-2021/112	Vichave Sushant Shantaram
35	AKN-2021/113	Vidhate Shivani Mangesh
36	AKN-2021/116	Wagh Chetan Shriram
37	AKN-2021/117	Wagh Yash Manoj
38	AKN-2021/118	Waghchaure Arati Sudam
39	AKN-2021/119	Waghchaure Om Tulashiram
40	AKN-2021/120	Yaduwanshi Shivani Nilesh

Course Coordinator

K.K.Wagh College of Agriculture Saraswatinagar, Panchavati, Nasnik



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### STUDENT REGISTRATION FORM

Academic Year: 2022-23

(Department of Agronomy)

### **CERTIFICATE COURSE**

'Carbon Sequestration in Agriculture: Theoretical Perspectives'

For Department Use Only
Registration No.: AKN - 2021 /074
Student ID: 6210210 94
Name of the Student: Mutha Mitali Mkshay kumovi
Mother's Name: Manishes Akshaykuman Mutha
Father's Name: Ashaykuman
E-Mail ID: witalimetha @gmail.com
Address: Vambori, tal-Roburi, pist-Amedragan
State: Maharas htra PIN Code: 413704
Mobile No: \$010271020 Alternate contact number:
Gender: Male Other Religion:
Date of Birth: 24/09/2003
Educational Qualification (at the time of admission):
HSC Other
Signature of Student
Place:
Date: 12 12 22



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### STUDENT REGISTRATION FORM

Academic Year: 2022-23 (Department of Agronomy)

### CERTIFICATE COURSE

'Carbon Sequestration in Agriculture: Theoretical Perspectives'

- B
For Department Use Only
Registration No.: AKN-2021 [670
Student ID: 0621021064
Name of the Student: Magare Den Romesh
Mother's Name: Sonal Mogare
Father's Name: Rosenth Mog are Vocalist and ardiath
E-Mail ID: dmogarcoo7 @ gmail.com
E-Mail ID: dmogare 007 @ gmail.com  Address: Mahatma Gandhi Road Nashik
State: Maharashtva PIN Code: 12001
Mobile No: 845992108 Alternate contact number:
Condor: Mole
Date of Birth: 2/12/2003
Educational Qualification (at the time of admission):
HSC
Dev.
Signature of Student

Place: Nashik Date: 14/12/2022



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### Department of Agronomy

Certificate course in

'Carbon Sequestration in Agriculture: Theoretical Perspectives'

Academic Year 2022-23

Schedule of the course

Sr.no	Topic	Description	Name of the teacher	Department
2	Introduction to Carbon Sequestration	Lecture Topics:  Basics of the Carbon Cycle Carbon Sequestration and its Role in Climate Change Mitigation Overview of Carbon Sequestration Technologies Importance of carbon sequestration in the context of global warming. How agricultural practices can contribute to or detract from carbon sequestration. Lecture Topics:	Prof S V Sonawane	Agronomy
	Carbon Sequestration in Agricultural Soils	Soil Organic Carbon (SOC) and Its Importance     Practices for Enhancing Soil Carbon Storage     Impact of Soil Management on Carbon Sequestration     How soil organic matter contributes to carbon sequestration.     The role of different soil management practices in enhancing SOC.	Dr. P P Kharche	Agronomy
3	Vegetative Carbon Sequestration Methods	Lecture Topics:  • Agroforestry and Afforestation Techniques  • Use of Cover Crops and Green Manure  • Conservation Tillage and Its Impact  • How vegetative methods contribute to carbon	Prof S A Hulgunde	Agronomy



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4	Carbon Sequestration in Maharashtra	sequestration.  Comparison of different vegetative carbon sequestration practices.  Lecture Topics: Local Soil and Climate Conditions in Maharashtra Regional Practices and Case Studies	Prof S A Hulgunde	Agronomy
		<ul> <li>Government Policies and Support for Carbon Sequestration</li> <li>Specific challenges and opportunities for carbon sequestration in Maharashtra.</li> <li>Role of local policies and support in promoting carbon sequestration practices</li> </ul>		
5	Benefits and Challenges of Carbon Sequestration	<ul> <li>Lecture Topics:</li> <li>Environmental Benefits of Carbon Sequestration</li> <li>Economic and Social Benefits</li> <li>Technical Challenges</li> <li>Practical Challenges in Implementation</li> </ul>	Prof S V Sonawane	Agronomy
6	Policy and Practice Recommendations	Lecture Topics:  • Formulating Policy Recommendations  • Developing Best Practices for Local Implementation  • Future Directions and Innovations  • Course Wrap-Up and Review	Dr. P P Kharche	Agronomy

**Course Coordinator** 



R.K.Wagh College of Agriculture Seraswatinagar, Panchavati, Bashik



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### **Department of Agronomy**

Certificate course in

'Carbon Sequestration in Agriculture: Theoretical Perspectives' Academic Year 2022-23

Sr.	Date		Time Tal	ole
No.	Date	1	Time	Topic
	19/12/2022	9:00 am- 10.00 pm	05:00 pm 06:00 pm	
1	20/12/2024	9:00 am- 10.00 pm	05:00 pm 06:00 pm	Introduction to Carbon Sequestration
	21/12/2022	9:00 am- 10.00 pm	05:00 pm 06:00 pm	
2	22/12/2022	9:00 am- 10.00 am	05:00 pm 06:00 pm	
3	23/12/2022	9:00 am- 10.00 am	-	Carbon Sequestration in Agricultural Soils
		-	05:00 pm 06:00 pm	Vegetative Carbon Sequestration
4	24/12/2022	9:00 am- 10.00 pm	05:00 pm 06:00 pm	Methods
5	25/12/2022	10:00 am- 01:00 pm	02:00 pm 05:00 pm	Carbon Sequestration in Maharashtra
6	26/12/2022	9:00 am- 10.00 pm	05:00 pm 06:00 pm	
7	27/12/2022	9:00 am- 10.00 pm	05:00 pm 06:00 pm	Benefits and Challenges of Carbon Sequestration
8	28/12/2022	9:00 am- 10.00 pm	05:00 pm 06:00 pm	Sequestianon
9	29/12/2022	9:00 am- 10.00 pm	05:00 pm 06:00 pm	
10	30/12/2022	9:00 am- 10.00 pm	05:00 pm 06:00 pm	Policy and Practice Recommendations
11	31/12/2022	9:00 am- 10.00 pm	05:00 pm 06:00 pm	

Course Coordinator



K.K.Wagh College of Agriculture Sernswatinagar, Panchavati, Nashik

### K K Wagh College of Agriculture, Nashik

## Department of Agronomy Certificate course in 'Carbon Sequestration in Agriculture: Theoretical Perspectives' Academic Year 2022-23

Sr No	Registration no.	Name of Students	19/12/2022		20/12/2022		21/12/2022		22/12/2022		23/12/2022	
			9:00 am- 10:00am	5:00pm -6:0pm	9:00am- 10:00am	5:00pm - 6:0pm	9:00am- 10:00am	5:00pm - 6:0pm	9:00am- 10:00am	5:00pm - 6:0pm	9:00am- 10:00am	5:00pm 6:0pm
1	AKN-2021/011	Chandankhede Prajwal Jiwandas	Freylied	Treigner	Rogwer	2 1	Logwad				0. 1	Tayua
2	AKN-2021/014	Chaudhari Siddhant Satish	Seu	Son	Seh	Sch	Sur	Sch	Sh	Sel	Sch	Sch
3	AKN-2021/015	Davange Pratham Pramod	PMPO	6160	PIPB	PAP. D	PIP.D	PIP-P	PIP. D	PIPA	P.10.0	0.00
4	AKN-2021/017	Deore Jay Shashikant	Deares	Deare	Doge	Drose	42080	Dece	Deore	000	Deose	Dense
5	AKN-2021/026	Dhurve Parth Sheshrao	Destelle	Delle	Dudate	Whene	Dayles	Dealse	041	01.4		0.4
6	AKN-2021/029	Gadekar Meghna Bhausaheb	negle	meju	- mexu	meghin			mgh_	Ohene	Olune	William
7	AKN-2021/030	Gadekar Shraddhey Sunil	Sm	8h	81	Sh	8hs	Sha	Sha	meghe Sta	negu	negle
8	AKN-2021/031	Gaikwad Diya Satish	Diva	Diya	TAVO	Diya	Div.	Divi	0)	000	0.0	رو
9	AKN-2021/032	Gangurde Ankita Shashikant	As Gary	1. sbirt	Stangurde		A.S. Garden	S. Cargue	SGOLDAN	Storger	Caya	Days Story
10	AKN-2021/041	Gite Harshada Bhausaheb	Aziti	Hort	Health	Hartu	Lb. H	The state of	SOL	230	1. Granguar	Scort
11	AKN-2021/062	Koli Ishika Vijay	2 Wills	Phike	Phila	Blûka	Shika	Bill	- BULL	Buth	Haut	Hzil
12	AKN-2021/065	Ladkat Yash Gangaram	Don't	YOM	1000	MRI	100	Quite 1	flus M	a de la constante de la consta	quita	phika
13	AKN-2021/070	Mogare Dev Romesh	-	7	1	P	A	NA I	7	ADVI	KOK	Lock





### K K Wagh College of Agriculture, Nashik Department of Agronomy

### Certificate course in 'Carbon Sequestration in Agriculture: Theoretical Perspectives' Academic Year 2022-23

Sr No	Registration no.	Name of Students	19/12	/2022	20/12	2/2022	21/12	/2022	22/12	2/2022	23/1	12/2022
			9:00am- 10:00am	5:00pm - 6:0pm	9:00am- 10:00am	5:00pm -	9:00am- 10:00am	9:00 am-	5:00pm -	9:00am- 10:00am	5:00pm -6:0pm	9:00am- 10:00am
14	AKN-2021/071	Morankar Aditi Avinash	Delite	Daloti	Add	6:0pm	Politi	10:00am	6:0pm	Agleti	Day.	Dalit
15	AKN-2021/074	Mutha Mitali Akshaykumar	Hourts	Mults	Moths	Mathr	MAHM	Matter	Matter	ohthin	Math	dh.H.
16	AKN-2021/075	Navsare Nandini Kishor	Natre	Digar	July	Nava	Marae	Nois	Jasan	Notos	Nala	Pagar
17	AKN-2021/084	Patil Snehal Anilkumar	Fatil	Hotil	Fatil	Patal	Patil	Fatil	Festil	Fatal	Potil	Fatil
18	AKN-2021/085	Patil Yash Sudhir	Year	Yfath	Trette	Yestll	Yearl.	Hattu	yeull.	Yaltu.	Yeard	Youth
19	AKN-2021/088	Pawar Sangharsh Vilas	Sawaro	Saprino	2 Sapus	Naulan	Sancer	Santus.	Somer	Bauras	Some	Same
20	AKN-2021/090	Pawara Harshali Ramesh	hawala	Parasa	Larado	Paronsol	harada	hawara	Laword	Laward	hawosy	Lawara
21	AKN-2021/091	Pokharkar Shravani Vishwas	Jakharko	Mothers	MANON	Weekhanur	Whank	Melhorker	Marka	De have	Lane	rechart
22	AKN-2021/094	Sadavarte Chinmay Nilesh	Pur	Com	Con	0	Co	En	Cont	Ou	6	(30.
23	AKN-2021/097	Satpute Priyanka Dnyaneshwar	Payante	Pryanta	Phyantu	Lixanu	Party	Birdown	hyanu	prijuna	priyanu	priyonla
24	AKN-2021/098	Sawant Roshan Avinash	Zet	Dat	Doub	Dont	Part	Dut	Deek	Dow	Does	Pour
25	AKN-2021/099	Shete Pratik Shivaji	200	3	AN .	8		20	To	337	84	ANY





PRINCIPAL

K.K. Wagh Chilege of Agriculture
Saraswatinagar, Panchavati, Nashik

### K K Wagh College of Agriculture, Nashik

## Department of Agronomy Certificate course in 'Carbon Sequestration in Agriculture: Theoretical Perspectives' Academic Year 2022-23

Sr No	Registration no.	Name of Students	19/12/	2022	20/12	/2022	21/12/	/2022	22/12	/2022	23/12	/2022
10			9:00 am- 10:00am	5:00pm -6:0pm	9:00am- 10:00am	5:00pm -6:0pm	9:00am- 10:00am	5:00pm -6:0pm	9:00am- 10:00am	5:00pm -6:0pm	9:00am- 10:00am	5:00pm -6:0pm
26	AKN-2021/100	Shewale Krutika Balasaheb	3 my	Buy.	Jung.	Sung	Shul.	\$mf	Sul	\$md	tout	Dur
27	AKN-2021/101	Shewale Yash Manohar	#	**		#		#	**			*
28	AKN-2021/106	Suryawanshi Om Pravin	OMartons	anguerra	- white	aus	Swaldan	north	Own	ann	ONGNEW	Over
29	AKN-2021/107	Tambe Vedant Sandeep	Tambey		0.1	Compes	Bembes	Barrey	Sember	x 1	-1	Banko
30	AKN-2021/108	Tambere Abhijit Baburao	1	D.	(A).	<b>\$</b> .	D.	(R)	A.	A.	TA)	<b>A</b> .
31	AKN-2021/109	Thakare Prasad Vijay	1	是	2	\$	2	D	*	*	2	*
32	AKN-2021/110	Thakare Sakshi Sudesh	Rotan	Sustan	Sparan	Laker	Suran	Lake	System	Lako	Spokar	Laka
33	AKN-2021/111	Vaidya Darshan Sanjay	4	1	1	D	1	1	#	£	1	Z.
34	AKN-2021/112	Vichave Sushant Shantaram	Soul	Stal	8	Shy	Slad	Day	824	Qful	gb.	Sharl
35	AKN-2021/113	Vidhate Shivani Mangesh	richat	IN TO	model	sorts!	- milet	cotate	ndat	make	metal	metal
36	AKN-2021/116	Wagh Chetan Shriram	Chus	chas	Chief	ans	chy	Chul	Ghes	Chy	cy	a





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K.K Wagh Gollege of Agrieulture
Saraswatinagar, Parincipal, Nashik

# K K Wagh College of Agriculture, Nashik Department of Agronomy Certificate course in 'Carbon Sequestration in Agriculture: Theoretical Perspectives' Academic Year 2022-23

Sr	Registration no.	Name of Students	19/12	/2022	20/12	/2022	21/12	/2022	22/12	/2022	23/12	/2022
No			9:00 am- 10:00am	5:00pm -6:0pm	9:00am- 10:00am	5:00pm -6:0pm	9:00am- 10:00am	5:00pm -6:0pm	9:00am- 10:00am	5:00pm -6:0pm	9:00am- 10:00am	5:00pm -6:0pm
37	AKN-2021/117	Wagh Yash Manoj	Xu	Jun-	You	Je	Xive .	for	the	n	X	Re-
38	AKN-2021/118	Waghchaure Arati Sudam	Anglase .	Angles	Anglie	Angler	Hoster	Augler	And la	Anglar	Anglen	Anglan
39	AKN-2021/119	Waghchaure Om Tulashiram	OA	-OA	GA	-ON	-02	-692	- ON	-02	-02	OA_
40	AKN-2021/120	Yaduwanshi Shivani Nilesh	Shivain	Shirti	Shivan	Shai	8hivari	Thivai	Strai	Shray	8h/m	Shan

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### K K Wagh College of Agriculture, Nashik

## Department of Agronomy Certificate course in 'Carbon Sequestration in Agriculture: Theoretical Perspectives' Academic Year 2022-23

Sr No	Registration no.	Name of Students	24/12/2	2022	25/12	2/2022	26/12	2/2022	27/12	2/2022	28/12	2/2022
110			9:00 am- 10:00am	5:00pm -6:0pm	10:00am- 01:00am	2:00pm - 5:00pm	9:00am- 10:00am	5:00pm - 6:0pm	9:00am- 10:00am	5:00pm - 6:0pm	9:00am- 10:00am	5:00pm - 6:0pm
1	AKN-2021/011	Chandankhede Prajwal Jiwandas	Trojund	01	- 1	- 1	trojual	Projucil	Projued.	freques !	Projucid	Prajua
2	AKN-2021/014	Chaudhari Siddhant Satish	Sh	ah	Seh	Sch	Seh	Seli	Sch	Sch	Seh	Sch
3	AKN-2021/015	Davange Pratham Pramod	PIPO	PIPD	PLPD	PLPP	P.P.D	PLP-P	PIPE	- A.P.b	PLED	A-PP
4	AKN-2021/017	Deore Jay Shashikant	Deore	Prote	Deves (	Decole (	Jeare	Weorg	Dioley	Deale	Doore	Q 200
5	AKN-2021/026	Dhurve Parth Sheshrao	Dupul	Dure	ague	Ohne	Olme	Diene	Olyfack	Dune	Olyne	Olane
6	AKN-2021/029	Gadekar Meghna Bhausaheb	megael				meghae				Meglower	
7	AKN-2021/030	Gadekar Shraddhey Sunil	8h	8/2	8hs	8h	8h	8h	8hs	84	Sh	gh
8	AKN-2021/031	Gaikwad Diya Satish	Diya	Digg	Dira	Dira	210	Ora	TVa	Ma	Aya	Diva
9	AKN-2021/032	Gangurde Ankita Shashikant	A.S. Ganglio	2.5 longur	A.S. bengua	Palananolo	15 coultry	O'S COLUMN.	As bandung	A.Shanta	às contra	Sputan
10	AKN-2021/041	Gite Harshada Bhausaheb	Halte	Holt	Haite	Halter	Faith	The tr	Heaty	Halls	(Hail	Hout
11	AKN-2021/062	Koli Ishika Vijay	Alike	fulo	Bulcu	Heilce	flila	Hilla	guilos	Stile	Hilo	PLYD
12	AKN-2021/065	Ladkat Yash Gangaram	VOX	You	MARK	Jam	DNI	التعر	PM	ZNYYI -	MMA	Shad
13	AKN-2021/070	Mogare Dev Romesh	Dev		New	Dev	Dev		2	1	The date	100

Course Coordinator

PRI Principal K.K.Wagh Gollege of Agriculture Safaswatinagar, Panchavati, Nasmk

### K K Wagh College of Agriculture, Nashik Department of Agronomy

### Certificate course in 'Carbon Sequestration in Agriculture: Theoretical Perspectives' Academic Year 2022-23

Sr No	Registration no.	Name of Students	24/12	/2022	25/12	2/2022	26/12	/2022	27/12	2/2022	28/1	2/2022
			9:00am- 10:00am	5:00pm - 6:0pm	10:00am- 01:00am	2:00pm - 5:00pm	9:00am- 10:00am	9:00 am- 10:00am	5:00pm - 6:0pm	10:00am- 01:00am	2:00pm -5:00pm	9:00am- 10:00am
14	AKN-2021/071	Morankar Aditi Avinash	Dall	Dalit	DAN	Dout	Daith	DUH	Delat	Held	Dolit	DHIH
15	AKN-2021/074	Mutha Mitali Akshaykumar	Mats	Mats	Matta	doth	Anul	Mats	duta	Mouth	Anith	dath
16	AKN-2021/075	Navsare Nandini Kishor		Valan	Jalon	March	Nainz	Tagar,	mar	James	North	1 December 1
17	AKN-2021/084	Patil Snehal Anilkumar	Fatil	Fatil	Fili	Fadial	看起	Fatil	2 til	& til	Satil	Fatil
18	AKN-2021/085	Patil Yash Sudhir	Yfatt	Ytall	Tall	HELL	y Rut	Yall	Yeard	4 Pett	YALU	Je gottal
19	AKN-2021/088	Pawar Sangharsh Vilas		Smars	0	7	Sawar	Samar	e Shuram	Sawar	Change	Dantas
20	AKN-2021/090	Pawara Harshali Ramesh	Jaweg		7	Lawary	1	1	1	1		1
21	AKN-2021/091	Pokharkar Shravani Vishwas	Markage	Musten	Manho	· ·		Tokkante	To Karlow	10	n -	
22	AKN-2021/094	Sadavarte Chinmay Nilesh	00	(9/	Cons	(2)	Con	(0)	(2)	(2)	(9)	Bus
23	AKN-2021/097	Satpute Priyanka Dnyaneshwar	Bayanu	Dryanu	Pryanti	phyonlu	Riyanu	Pronte	Blank	payante	biganta	polonia
24	AKN-2021/098	Sawant Roshan Avinash	Ru	Den	Pa	Zon	Den	Der	Pel	Rud	2 Du	Du
25	AKN-2021/099	Shete Pratik Shivaji	8	ANY	AN	1	THE STATE OF THE S	25	**		A	A





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Saraswatinalgar, Panchavati, Nashik

## K K Wagh College of Agriculture, Nashik Department of Agronomy Certificate course in 'Carbon Sequestration in Agriculture: Theoretical Perspectives' Academic Year 2022-23

Sr No	Registration no.	Name of Students	24/12/	2022	25/12/	2022	26/12/	/2022	27/12	/2022	28/12	2/2022
110			9:00am- 10:00am	5:00pm -6:0pm	10:00am- 01:00am	2:00pm -5:00pm	9:00am- 10:00am	9:00am- 10:00am	5:00pm - 6:0pm	10:00am- 01:00am	2:00pm - 5:00pm	9:00am- 10:00am
26	AKN-2021/100	Shewale Krutika Balasaheb	Soul	Sind	Kul	- Sund	Sul	Saul_	Bul.	Say	Sul	Trul_
27	AKN-2021/101	Shewale Yash Manohar	3	*	盐	18	1		*	1	*	3
28	AKN-2021/106	Suryawanshi Om Pravin	Chille	Mr.Juetu	CWALL	Quelar	owstan		On Stay	OWNER	V. Bush	Buch
29	AKN-2021/107	Tambe Vedant Sandeep	Founday	Sanba	Boemby	Bambe		Forbes	Banker	Bumpay	Sambox	Bambe
30	AKN-2021/108	Tambere Abhijit Baburao	(A)	T.	(A).	R.	W.	A.	Th.	(TA).	A.	TA.
31	AKN-2021/109	Thakare Prasad Vijay	1	#	#	2	2	-	P	\$	<b>A</b>	*
32	AKN-2021/110	Thakare Sakshi Sudesh	Thatan	horas	Shako	Shaka	Statos	Fales	Spake	Spoke	Spenker	Shake
33	AKN-2021/111	Vaidya Darshan Sanjay	4	#	1	#	#	#	#	K.	#	1
34	AKN-2021/112	Vichave Sushant Shantaram	8	26	Day.	8 Jul	200	86	D	8 por	Dul	Obel
35	AKN-2021/113	Vidhate Shivani Mangesh	White	mile	midale	Delak	make	matik	made	mita!	malak	Mile
36	AKN-2021/116	Wagh Chetan Shriram	Charl	Chris	Chy	Chris	Gus	Chul	Court	Clark	Cly	Cen

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### K K Wagh College of Agriculture, Nashik Department of Agronomy

### Certificate course in 'Carbon Sequestration in Agriculture: Theoretical Perspectives' Academic Year 2022-23

Sr	Registration no.	Name of Students	24/12/	2022	25/12	/2022	26/12	/2022	27/12	2/2022	28/12	/2022
No			9:00am- 10:00am	5:00pm -6:0pm	10:00am- 01:00am	2:00pm -5:00pm	9:00am- 10:00am	9:00am- 10:00am	5:00pm - 6:0pm	10:00am- 01:00am	2:00pm - 5:00pm	9:00am- 10:00am
37	AKN-2021/117	Wagh Yash Manoj	Yun	×n-	Jime	Ju-	Jus	Jan 10.00am	Ju	Yn	The	7º
38	AKN-2021/118	Waghchaure Arati Sudam	Auchus-	Fryla	Amyleon	Anylas	Magler	Aughan	Anglore	Angleic	Angles	Malae
39	AKN-2021/119	Waghchaure Om Tulashiram	-OA	-OPE	-OPE	-09	-OPE	OT	OF	SI	DE	8º2
40	AKN-2021/120	Yaduwanshi Shivani Nilesh	Shirani	Shivani	Shiran	Skirayi	Shiven	Shiyan	Shinai	Shivani	8 hivani	Shivan

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Principal
PRINCIPAL
K.K.Wagn College of Agrieulture
Saraswatinagar, Panchavati, Nashik

# K K Wagh College of Agriculture, Nashik Department of Agronomy Certificate course in 'Carbon Sequestration in Agriculture: Theoretical Perspectives' Academic Year 2022-23

Sr No	Registration no.	Name of Students	29/12/	2022	30/12	2/2022	31/12	/2022
			9:00 am- 10:00am	5:00pm -6:0pm	10:00am- 01:00am	2:00pm - 5:00pm	9:00am- 10:00am	5:00pm - 6:0pm
	AKN-2021/011	Chandankhede Prajwal Jiwandas	Trajua	Trained "	Trajualo	Trajuals	Trajural	Prajua
2	AKN-2021/014	Chaudhari Siddhant Satish	Scho	Selv	Sch	Sch	Sch	Sch
3	AKN-2021/015	Davange Pratham Pramod	P.P.P	PLEA	PAPD	Mee	PKEP	PIP.P
4	AKN-2021/017	Deore Jay Shashikant	Dure	Deare	Deol	Deal	( role	Doorl
5	AKN-2021/026	Dhurve Parth Sheshrao	Quelune	Ornive	Dune	Presue	Dune	Deline
6	AKN-2021/029	Gadekar Meghna Bhausaheb	meglacia	mealur	megher	megher	mester	neglue
7	AKN-2021/030	Gadekar Shraddhey Sunil	Bh	ds	8h	Sh	Bh	Sh
8	AKN-2021/031	Gaikwad Diya Satish	Dog	279	0119	Dira	Tus	Dya
9	AKN-2021/032	Gangurde Ankita Shashikant	42 Gantings	As banguad	N.S. Parties		B.S postan	
10	AKN-2021/041	Gite Harshada Bhausaheb	Haitu	Heitre	Hitz	Haite	Hitz	Hart
11	AKN-2021/062	Koli Ishika Vijay	Stike	Quice	Aluka	flate	Hila	Stike
12	AKN-2021/065	Ladkat Yash Gangaram	MAZI	Test	1201	Made	post	THE
13	AKN-2021/070	Mogare Dev Romesh	Dev	Dev	Den	Dev	Dev	Dev

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Principal
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K.K. Waah College of Agrieulture

### K K Wagh College of Agriculture, Nashik

## Department of Agronomy Certificate course in 'Carbon Sequestration in Agriculture: Theoretical Perspectives' Academic Year 2022-23

Sr	Registration no.	Name of Students	29/12	/2022	30/12	/2022	30/1	2/2022
No			9:00am-10:00am	5:00pm -6:0pm	10:00am- 01:00am	2:00pm - 5:00pm	9:00am- 10:00am	9:00 am- 10:00am
14	AKN-2021/071	Morankar Aditi Avinash	Ddit	Dolet -	Adith	Daily (	Dait	Dogot
15	AKN-2021/074	Mutha Mitali Akshaykumar	Math	Manth	Stathe	Matha	Math	Mada
16	AKN-2021/075	Navsare Nandini Kishor	Now	Har	Hara	Trans	Dara	A Star
17	AKN-2021/084	Patil Snehal Anilkumar	Fatal	Fatil	Datil	Fatil	Fatil	Dotul
18	AKN-2021/085	Patil Yash Sudhir	You Could	YEHR	TRUIT-	Mattl-	Y Pottl	rioul
19	AKN-2021/088	Pawar Sangharsh Vilas	Wanter .	Sawar	Sawar	Wanter C	Sautas	Sauso
20	AKN-2021/090	Pawara Harshali Ramesh	Lawore	havora	Lauroig	howard	Lawara	Lawora
21	AKN-2021/091	Pokharkar Shravani Vishwas	Sokharton	Sharkur	- Joshans on	Haken	Jachane	Jokharks
22	AKN-2021/094	Sadavarte Chinmay Nilesh	Con	( sog	6	Ou	Com	Com
23	AKN-2021/097	Satpute Priyanka Dnyaneshwar	Priyanle	myanle	Pritante	myante	prijanle	prijanle
24	AKN-2021/098	Sawant Roshan Avinash	Demed	Dan	Dens	Dent	Per	Pul
25	AKN-2021/099	Shete Pratik Shivaji	<del>-10</del>	357	- By	2500	334	25

Course Coordinator



K.F. sogh College of Agriculture Saraswatindgar, Panchavati, Nashik

# K K Wagh College of Agriculture, Nashik Department of Agronomy Certificate course in 'Carbon Sequestration in Agriculture: Theoretical Perspectives' Academic Year 2022-23

Sr No	Registration no.	Name of Students	29/12/	/2022	30/12/	2022	31/12	2/2022
			9:00am- 10:00am	5:00pm - 6:00pm	10:00am- 01:00am	2:00pm - 5:00pm	9:00am- 10:00am	9:00am- 10:00am
26	AKN-2021/100	Shewale Krutika Balasaheb	Din.	Sint.	\$ Time !	Sty,	Day.	Amt.
27	AKN-2021/101	Shewale Yash Manohar	梦	*	*		**	
28	AKN-2021/106	Suryawanshi Om Pravin	onsummer	Ondurant.	Qualitamo	Confuere	an Live	Ombi yer
29	AKN-2021/107	Tambe Vedant Sandeep	Sambery	Fumbay	Tembay	Samba	Gardas	Jamber
30	AKN-2021/108	Tambere Abhijit Baburao	D.	R.	TEL.	R.	B.	TA.
31	AKN-2021/109	Thakare Prasad Vijay	P	1	*	\$	<b>P</b>	<b>D</b>
32	AKN-2021/110	Thakare Sakshi Sudesh	haton	Trakame	Thatame	Traka	Thakar	gravarre
33	AKN-2021/111	Vaidya Darshan Sanjay	#	4	#	#	\$	#
34	AKN-2021/112	Vichave Sushant Shantaram	868	Short-	8) J	Book	8 or	Star .
35	AKN-2021/113	Vidhate Shivani Mangesh	THE REAL PROPERTY.	Into	matrix	ment H	make	Mode
36	AKN-2021/116	Wagh Chetan Shriram	Chr)	chris	Guy	and	CSU	Chy



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## K K Wagh College of Agriculture, Nashik Department of Agronomy Carbon Sequestration in Agriculture: Theoretical Per

## Certificate course in 'Carbon Sequestration in Agriculture: Theoretical Perspectives' Academic Year 2022-23

Sr No	Registration no.	Name of Students	29/1	2/2022	30/12/	2022	31/12	/2022
		44	9:00am- 10:00am	5:00pm – 6:0pm	10:00am- 01:00am	2:00pm - 5:00pm	9:00am- 10:00am	9:00am- 10:00am
37	AKN-2021/117	Wagh Yash Manoj	Jan	X .	Par	The	Jan 1	James 1
38	AKN-2021/118	Waghchaure Arati Sudam	Aboglesse	Angleica	Angluse.	Alde	Asolar	- trylar
39	AKN-2021/119	Waghchaure Om Tulashiram	or	-AL	-01	or	Ot	OI
40	AKN-2021/120	Yaduwanshi Shivani Nilesh	Shirani	Stivan	Shipar	Shan!	Sivari	Sylvan

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College of Agriculture
Sarasvatinagar, Ppriheipal Nashik



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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### Certificate course in 'Carbon Sequestration in Agriculture: Theoretical Perspectives' Academic Year 2022-23

### **Examination Methodology**

Sr no	Nature of exam	Marks
1	Written	50
2	Total	50

#### Reference:

IPCC Report on Carbon Sequestration (IPCC)

Introduction to Carbon Sequestration (Nature)

Chapter 3, "Soil Carbon Sequestration and the Greenhouse Effect" by R. Lal

Soil Carbon Sequestration Methods (ScienceDirect)

Chapter 5, "Agroforestry and Carbon Sequestration" by M. S. Sanchez and J. M. T.

Melillo

Agroforestry Practices (FAO)

Regional Carbon Sequestration Strategies (ResearchGate)

Maharashtra State Agricultural Policies (Maharashtra State Government)

Challenges in Carbon Sequestration (Nature)

Monitoring and Verification (CABI)

Global Carbon Sequestration Projects (WRI)

Case Studies in Maharashtra (Academia)

Policy Recommendations for Carbon Sequestration (GEF)

Future of Carbon Sequestration in Agriculture (ScienceDirect)

**Course Coordinator** 

K.K.Wagh College of Agriculture Saraswatinagar, Panchavati, Mashik



K. K. Wagh College of Agriculture,

(Affiliated to Mahatma Phule Krishi Vidyapeeth, Rahuri) Saraswati Nagar, Panchavati, Nashik- 422 003. Maharashtra

AISHE Code: C-50690 College Code;11135

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### Department of Agronomy

### Certificate course in

### 'Carbon Sequestration in Agriculture: Theoretical Perspectives' Academic Year 2022-23

#### Student Result

Sr. No.	Registration no	Student Result Name of the students	Mark Out of 50
1	AKN-2021/011	Chandankhede Prajwal Jiwandas	45
2	AKN-2021/014	Chaudhari Siddhant Satish	41
3	AKN-2021/015	Davange Pratham Pramod	36
4	AKN-2021/017	Deore Jay Shashikant	41
5	AKN-2021/026	Dhurve Parth Sheshrao	45
6	AKN-2021/029	Gadekar Meghna Bhausaheb	45
7	AKN-2021/030	Gadekar Shraddhey Sunil	46
8	AKN-2021/031	Gaikwad Diya Satish	36
9	AKN-2021/032	Gangurde Ankita Shashikant	43
10	AKN-2021/041	Gite Harshada Bhausaheb	40
11	AKN-2021/062	Koli Ishika Vijay	46
12	AKN-2021/065	Ladkat Yash Gangaram	40
13	AKN-2021/070	Mogare Dev Romesh	38
14	AKN-2021/071	Morankar Aditi Avinash	46
15	AKN-2021/074	Mutha Mitali Akshaykumar	46
16	AKN-2021/075	Navsare Nandini Kishor	35
17	AKN-2021/084	Patil Snehal Anilkumar	42
18	AKN-2021/085	Patil Yash Sudhir	42
19	AKN-2021/088	Pawar Sangharsh Vilas	35
20	AKN-2021/090	Pawara Harshali Ramesh	38





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Saraswati Nagar, Panchavati, Nashik- 422 003. Maharashtra

College Code;11135

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Sr. No.	Registration no	Name of the students	Mark Out of 50
21	AKN-2021/091	Pokharkar Shravani Vishwas	46
22	AKN-2021/094	Sadavarte Chinmay Nilesh	39
23	AKN-2021/097	Satpute Priyanka Dnyaneshwar	40
24	AKN-2021/098	Sawant Roshan Avinash	43
25	AKN-2021/099	Shete Pratik Shivaji	46
26	AKN-2021/100	Shewale Krutika Balasaheb	39
27	AKN-2021/101	Shewale Yash Manohar	44
28	AKN-2021/106	Suryawanshi Om Pravin	46
29	AKN-2021/107	Tambe Vedant Sandeep	45
30	AKN-2021/108	Tambere Abhijit Baburao	43
31	AKN-2021/109	Thakare Prasad Vijay	44
32	AKN-2021/110	Thakare Sakshi Sudesh	36
33	AKN-2021/111	Vaidya Darshan Sanjay	44
34	AKN-2021/112	Vichave Sushant Shantaram	38
35	AKN-2021/113	Vidhate Shivani Mangesh	3)
36	AKN-2021/116	Wagh Chetan Shriram	46
37	AKN-2021/117	Wagh Yash Manoj	43
38	AKN-2021/118	Waghchaure Arati Sudam	44
39	AKN-2021/119	Waghchaure Om Tulashiram	47
40	AKN-2021/120	Yaduwanshi Shivani Nilesh	42



Course Coordinator



K.K.Wagh College of Agriculture Sarawatinagar, Panchavati, Nashik

### K K Wagh College of Agriculture, Nashik Department of Agronomy

Certificate course in 'Carbon sequestration in Agriculture: Theoretical Perspectives'
Academic Year -2022-2023

### **Theory examination**

Name of student	Registration no.
Day & Date	Time
Subject	Semester
Class	Marks

### **Multiple Choice Questions**

1. What is the primary goal of carbon sequestration in agriculture				
a. To increase crop	b. To reduce soil	c. To mitigate climate	d. To improve water	
yields	erosion	change	quality	
2. Which of the followin	g practises is most effective	ve for carbon sequestration	on in agriculture	
a. Conventional tillage	b. To mitigate climate	c. Crop rotation	d. Monoculture	
	change			
3. What is the role of cov	er crops in carbon seques	tration		
a. To increase the soil	b. To reduce soil	c. To protect and	d. To reduce crop	
temperature	moisture	enrich soil	yield	
4. Which of the followin	g is a benefit of carbon se	questration in agriculture		
a. Increase greenhouse	b. Improve soil health	c. Reduced yield	d. Increased water	
gas emission	and fertility		pollution	
5. Which of the followin	g is a type of carbon sequ	estration in agriculture		
a. Afforestation	b. Soil carbon	c. Biochar	d. All of the above	
	sequestration			
6. Which is the primary	benefit of conservation til	llage for carbon sequestra	tion	
a. Increased crop yield	b. Reduced soil	c. Reduced soil	d. Improve water	
	erosion	disturbance	quality	
7. Which of the followin	g crops is commonly used	I for cover cropping in car	rbon sequestration	
a. Corn	b. Soybeans	c. Wheat	d. Legumes	
8. Which of the role of o	rganic amendments in car	bon sequestration		
a To increase soil	b. To reduce soil	c. To improve soil	d. To reduce crop	
temperature	moisture	health and fertility	yield	
9 Which of the following is a challenge for carbon sequestration in agriculture				
a. High cost of	b. Lack of knowledge	c. Limited market	d. All the above	
implementation	and training	incentive		
	dobal greenhouse gas emi	ssion can be mitigated the	rough carbon	
sequestration in agriculture				
a. 10-20%	b.20-30%	c.30-40%	d.40-50%	

a. They release carbon	b. They absorb carbon	c. They convert carbon	d. They have no rule
dioxide	dioxide		in carbon
dioxide	dioxide	dioxide into organic	
		compound	sequestration
12. What is the role of gove	ernment policies in promotir	ng carbon sequestration in a	agriculture
a. To provide financial	b. To establish	c. To conduct research	d. All the above
incentive	regulations	and development	
13. What is the primary r	nechanism of carbon sequ	estration in soils	
a. Chemical reactions	b. Biological processes	c. Physical changes	d. All the above
14. Which of the following	ng crops has the highest po	l otential for carbon sequest	tration
a. Corn	b. Soybean	c. Wheat	d. Switch grass
15. What is the effect of o	l conservation tillage on soi	l carbon sequestration	<u> </u>
a. Increase soil	b. Reduces soil organic	c. Increase soil carbon	d. No impact
disturbance	matter	storage	
16. What is the role of soil	l organism in carbon sequestra	ı ation	<u> </u>
a. Decompose organic	b. Fix atmospheric	c. Solubilise minerals	d. All the above
mater	nitrogen		
17. What is the term for t	he process of storing carb	on in soils and plants	
a. Carbon sequestration	b. Carbon capture	c. Carbon storage	d. Carbon utilizatio
18. Which of the following	l ng practices can help sequ	lester carbon in soils	
a. Conventional tillage	b. Conservation tillage	c. Crop rotation	d. All the above
19. Which of the following	l ng is a type of organic ame	endment that can help seq	uester carbon in soils
a. Compost	b. Manure	c. Peat moss	d. All of the above
20. What is the term for t	he process of converting b	piomass into a stable form	of carbon
a. Pyrolysis	b. Gastification	c. Anaerobic digestion	d. Fermentation

21. Which of the following sequestration	crops has a high carbon-to-r	nitrogen ratio, making it suita	able for carbon
a. Corn	b. Soybean	c. Wheat	d. Alfalfa
22 Which of the following	ng soil properties is most i	mportant for carbon seque	stration
a. pH	b. Texture	c. Organic matter	d. Nutrient availa
		content	
23. Which of the following	ng soils type has highest p	otential for carbon sequest	ration
a. Sandy soils	b. Clay soils	c. Loamy soils	d. Peat soils
24. Which of the following	 ng factor that affects carbo	n sequestration in soils	
a. Soil texture	b. Soil temperature	c. Soil moisture	d. All the above
25. What is the role of po	licy and incentives in pron	noting carbon sequestratio	 n in agricultural so
a. Encourages adoption	b. Provides financial	c. Increases awareness	d. All the above
of conservation	benefits to farmers	of carbon sequestration	
practices		benefits	
26. What is the potential	of carbon sequestration in	agricultural soils to mitiga	ate climate change
a. Low	b. Moderate	c. High	d. Unknown
27. Which of the following	ng practices can help prom	ote soil carbon sequestrat	ion in wetlands
a. Hydrological	b. Vegetation	c. Fertilizer application	d. All of the abov
management	management		
28. What is the role of so	il microorganisms in carbo	on sequestration in wetlan	d
A Decompose organic	b. Fix atmospheric	c. Solubilising	d. Enhance soil ca
matter	nitrogen	Minerals	storage
29. Which of the following	ng is a benefit of carbon se	l equestration in agricultural	soils for biodivers
a Increases species	b. Decreases soil	c. No impact on soil	d. All the above
richness	carbon storage	carbon storage	
30. Which of the following	ng practices can help redu	ce soil disturbance and pro	omote carbon
sequestration			
a. No-till or reduced- till	b. Crop rotation	c. Cover cropping	d. All the above
farming			

31. Which of the following practices can help promote soil carbon sequestration in forests				
a. Reforestation	b. Afforestation	c. Sustainable forest	d. All the above	
		management		
32. What is the following	is a benefit of carbon sequ	estration in agricultural so	oils for water quality	
a. Reduces nutrient	b. Increases nutrient	c. No impact on soil	d. All the above	
leaching	leaching	nutrient leaching		
33. What is the impact of	soil salinization on soil ca	rbon sequestration		
a. Increases soil carbon	b. Decrease soil carbon	c. No impact on soil	d. All of the above	
storage	storage	carbon storage		
34. Which of the followin	g crops has a highest poter	ntial for carbon sequestrat	ion due to high biomass	
production				
a. Corn	b. Soybean	c. Wheat	d. Miscanthus	
35. Which of the followin	g practices can help prome	ote soil carbon sequestration	on in agricultural	
landscape				
a. Agroforestry	b. Permaculture	c. Regenerative	d. All the above	
		agriculture		
36. What is the role of soi	l carbon sequestration in r	nitigating climate change		
a. Reduce atmospheric	b. Increases	c. No impact on	d. All the above	
CO2	atmospheric CO2	atmospheric CO2		
37. What is the role of car	bon sequestration in reduc	eing greenhouse gas emiss	ions from agriculture	
a. Reduces N2O	b. Reduces CH4	c. Reduces CO2	d. All the above	
emission	emission	emission		
38. Which of the followin	g crops has a high potentia	al for carbon sequestration	due to high root depth	
a. Corn	b. Soybean	c. Wheat	d. Sugarcane	
39. What is the role of perennials in carbon sequestration				
a. Increase soil carbon	b. Decrease soil carbon	c No impact on soil	d. All the above	
storage	storage	carbon storage		
40. What is the role of bio	fertilizers in carbon seque	estration		
a. Increase soil carbon	b. Decrease soil carbon	c No impact on soil	d. All the above	
storage	storage	carbon storage		

41. Which of the following	g is a benefit of carbon se	questration in agricultural	soils for ecosystems		
services					
a Increases pollination	b Decreases pollination	c No impact on	d All the above		
		pollination			
42. Which of the following	g practices can help prom	ote soil carbon sequestrat	ion in agroforestry		
a Tree planting	b Crop diversification	c Soil conservation	d All the above		
43. What is the role of car	hon sequestration in clim-	ate-smart agriculture			
		T	1 11 2641 2 21 222		
a Increase crop	b Decrease crop yields	c No impact on crop	d All of the above		
resilience		yield			
44. Which of the following:	is a benefit of carbon seques	tration in agricultural soils f	or farmers livelihoods		
a. Increased crop yield	b. Improve soil health	c. Enhanced market	d. All of the above		
		access			
45. What is the role of carbon sequestration in mitigating climate change impacts on agricultural					
productivity					
a. Reduces drought risk	b. Increases flood risk	c. No impact on	d. All of the above		
		agricultural			
		productivity			
46. What is the impact of	soil carbon sequestration	on soil water holding capa	acity		
a. Increase water	b. decrease water	c. no impact on water	d. All the above		
holding capacity	holding capacity	holding capacity			
47. Which of the following	g practices can help prom	ote soil carbon sequestrat	ion in precision		
agriculture					
a. Variable rate	b. Precision irrigation	C. Soil sensing	d. All of the above		
application					
48. Which of the followin	g soil types has the highes	st carbon sequestration po	tential		
a. Clay	b. Silt	c. Sand	d. Loam		
49. What is the term for the	process of converting carbon	n dioxide into organic comp	ounds in soil		
a. Carbonation	b.Carbon sequestration	c. Soil carbonization	d. Humification		
50. Which of the followin	g soil microorganisms pla	ys a key role in carbon se	questration		
a. Bacteria	b. Fungi	c. Protozoa	d. Nematodes		
		<u> </u>			

K K Wagh College of Agriculture, Nashik
Department of Agronomy
Certificate course in 'Carbon sequestration in Agriculture: Theoretical Perspectives'
Academic Year 2022-23

### **Answer Sheet**

1	c. To mitigate climate change	26	c. High
2	b. To mitigate climate change	27	d. All of the above
3	c. To protect and enrich soil	28	d. Enhance soil carbon storage
4	b. Improve soil health and fertility	29	b. Decreases soil carbon storage
5	d. All of the above	30	d. All the above
6	c. Reduced soil disturbance	31	d. All the above
7	d. Legumes	32	a. Reduces nutrient leaching
8	c. To improve soil health and fertility	33	b. Decrease soil carbon storage
9	d. All the above	34	d. Miscanthus
10	b.20-30%	35	d. All the above
11	c. They convert carbon dioxide	36	a. Reduce atmospheric CO2
	into organic compound		
12	d. All the above	37	d. All the above
13	b. Biological processes	38	d. Sugarcane
14	d. Switch grass	39	a. Increase soil carbon storage
15	c. Increase soil carbon storage	40	a. Increase soil carbon storage
16	a. Decompose organic mater	41	a. Increases pollination
17	a. Carbon sequestration	42	d. All the above
18	d. All the above	43	a. Increase crop resilience
19	d. All of the above	44	d. All of the above
20	a. Pyrolysis	45	a. Reduces drought risk
21	d. Alfalfa	46	a. Increase water holding capacity
22	c. Organic matter content	47	d. All of the above
23	d. Peat soils	48	a. Clay
24	d. All the above	49	d. Humification
25	d. All the above	50	b. Fungi



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 Agronomy

Certificate course in 'Carbon Sequestration in Agriculture: Theoretical Perspectives'

Academic Year 2022-23

#### **Exam Time Table**

All enrolled students of the Certificate Course are hereby informed that for the academic year 2022-23, the Certificate Course on 'Carbon Sequestration in Agriculture: Theoretical Perspectives' has been completed. The examination for this certificate course is scheduled to be conducted on 03/01/2023. Therefore, all students are required to be present without exception.

Note: Time Table is as follow

Sr no	Date	Time	Certificate course subject
1	03/01/2023	01:00 to 03:00 pm	Theory exam: 'Carbon Sequestration in Agriculture: Theoretical Perspectives'

**Course Coordinator** 

Exam Incharge

Wagh College of Agriculture Aswatinagar, Panchavati, Nashik





K. K. Wagh College of Agriculture,

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Saraswati Nagar, Panchavati, Nashik- 422 003. Maharashtra

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Department of Agronomy Certificate course in 'Carbon Sequestration in Agriculture: Theoretical Perspectives'

> Academic Year 2022-23 **Exam Block Report**

Class- S Y BSc (Agri.)

Date- 03/01/2023

Subject: Theory Paper of Carbon Sequestration in Agriculture: Theoretical Perspectives

Block no: 02

SR NO	REGISTRATION NO	NAME OF STUDENT	SIGN
1	AKN-2021/011	Chandankhede Prajwal Jiwandas	Treguel
2	AKN-2021/014	Chaudhari Siddhant Satish	Julian
3	AKN-2021/015	Davange Pratham Pramod	cheun
4	AKN-2021/017	Deore Jay Shashikant	yeare
5	AKN-2021/026	Dhurve Parth Sheshrao	Dunkar
6	AKN-2021/029	Gadekar Meghna Bhausaheb	meghina
7	AKN-2021/030	Gadekar Shraddhey Sunil	Bho
8	AKN-2021/031	Gaikwad Diya Satish	Die J
9	AKN-2021/032	Gangurde Ankita Shashikant	A.S. Ganguzele
10	AKN-2021/041	Gite Harshada Bhausaheb	(Helite
11	AKN-2021/062	Koli Ishika Vijay	the
12	AKN-2021/065	Ladkat Yash Gangaram	VAZJI
13	AKN-2021/070	Mogare Dev Romesh	Dev
14	AKN-2021/071	Morankar Aditi Avinash	Aditi
15	AKN-2021/074	Mutha Mitali Akshaykumar	dants
. 16	AKN-2021/075	Navsare Nandini Kishor	Junan
17	AKN-2021/084	Patil Snehal Anilkumar	tatil
18	AKN-2021/085	Patil Yash Sudhir	YAM
19	AKN-2021/088	Pawar Sangharsh Vilas	Spansar
20	AKN-2021/090	Pawara Harshali Ramesh	Laward



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SR NO	REGISTRATION NO	NAME OF STUDENT	SIGN
21	AKN-2021/091	Pokharkar Shravani Vishwas	Jok harokaro .
22	AKN-2021/094	Sadavarte Chinmay Nilesh	Cell
23	AKN-2021/097	Satpute Priyanka Dnyaneshwar	Privanka
24	AKN-2021/098	Sawant Roshan Avinash	A COUNTY
25	AKN-2021/099	Shete Pratik Shivaji	Est-
26	AKN-2021/100	Shewale Krutika Balasaheb	Etime.
27	AKN-2021/101	Shewale Yash Manohar	- 25
28	AKN-2021/106	Suryawanshi Om Pravin	omsumwanti
29	AKN-2021/107	Tambe Vedant Sandeep	Sambal
30	AKN-2021/108	Tambere Abhijit Baburao	D.
31	AKN-2021/109	Thakare Prasad Vijay	
32	AKN-2021/110	Thakare Sakshi Sudesh	quatore
33	AKN-2021/111	Vaidya Darshan Sanjay	A.
34	AKN-2021/112	Vichave Sushant Shantaram	a
35	AKN-2021/113	Vidhate Shivani Mangesh	madat
36	AKN-2021/116	Wagh Chetan Shriram	Chart.
37	AKN-2021/117	Wagh Yash Manoj	Jamusto).
38	AKN-2021/118	Waghchaure Arati Sudam	Aughers
39	AKN-2021/119	Waghchaure Om Tulashiram	-01
40	AKN-2021/120	Yaduwanshi Shivani Nilesh	Shivani

Total no of student: 40
No of student present: 40
No of students absent 00

Name and Sign of Jr. Supervisor

( O.R. Patil)

Name and Sign of Sr. Supervisor

cs.p. rale).

### K K Wagh College of Agriculture, Nashik

Department of Agronomy

Certificate course in 'Carbon sequestration in Agriculture: Theoretical Perspectives' Academic Year -2022-2023

Theory examination

Name of student A Co. 1 11 av Registration no. A CO - 2021 109		Theory examination	1	Link
Day & Date 03 01 2023 Semester Subject Agronomy Marks	Name of student		Registration no.	
Subject Agronomy Semester  Marks		makare masses y	Time	1:00 to 3:00 Pm
Harks Marks			Semester	ना।
Class SV Pasc			Marks	44
(50)	Class	SY BSC		

### **Multiple Choice Questions**

To increase crop	o. To reduce som	e. To mitigate climate change	d. To improve water quality
vields	erosion	- for carbon sequestrati	
2. Which of the following	g practises is most effective	Ve for carbon sequestration	d. Monoculture
a Conventional tillage	b. To mitigate climate change	c. Crop rotation	d, Monocana
3. What is the role of cov	er crops in carbon seques	stration	I To reduce crop
a. To increase the soil	b. To reduce soil moisture	c-To protect and enrich soil	d. To reduce crop yield
temperature	in banefit of ourbon se		re
a. Increase greenhouse	g is a benefit of carbon so be Improve soil health and fertility	c. Reduced yield	d. Increased water pollution
gas emission	ng is a type of carbon sequ	estration in agriculture	
5. Which of the following	ig is a type of eartern	c. Biochar	d. All of the above
a. Afforestation	b. Soil carbon sequestration		
6 Which is the primary	benefit of conservation t	illage for carbon seques	tration
a. Increased crop yield	b. Reduced soil	c. Reduced soil	u. mprove
		disturbance	quality
7 Which of the followi	ng crops is commonly us	ed for cover cropping in	carbon sequestration
0	h Soybeans	c. wheat	d. Legumes
a. Corn	organic amendments in c	arbon sequestration	
8. Which of the fole of	b. To reduce soil	c. To improve soil	d. To reduce crop
a To increase soil	moisture	health and fertility	yield
temperature	ng is a challenge for carb	on sequestration in agric	ulture
	b. Lack of knowledge	c. Limited market	d. All the above
a. High cost of		incentive	
implementation	and training	mission can be mitigated	d through carbon
10. What percentage o	f global greenhouse gas e	illission can be mingare	
sequestration in agricu	lture	c.30-40%	d.40-50%
a. 10-20%	b.20-30%	C.3U-4U%	4.40-3070

ſ	11. What is the role of soil microorganism in carbon sequestration				
2	a. They release carbon dioxide	b. They absorb carbon dioxide	dioxide into organic	d. They have no rule in carbon sequestration	
1	12. What is the role of gover	rnment policies in promotin	g carbon sequestration in	agriculture	
1	a. To provide financial incentive	b. To establish regulations	c. To conduct research and development	d. All the above	
-	13. What is the primary m	echanism of carbon sequ	estration in soils		
+	a. Chemical reactions	ъ. Biological processes	c. Physical changes	d. All the above	
	14. Which of the followin	g crops has the highest po	l otential for carbon seques	tration	
	a. Corn	b. Soybean	c. Wheat	d. Switch grass	
	15. What is the effect of c	onservation tillage on soi	l carbon sequestration		
\	a Increase soil disturbance	100	c. Increase soil carbon	d. No impact	
		matter	storage		
,	16. What is the role of soil organism in carbon sequestration  a. Decompose organic b. Fix atmospheric c. Solubilise minerals d. All the above				
く	mater —	nitrogen	c. Solubilise minerals	d. All the above	
	17. What is the term for the process of storing carbon in soils and plants				
1	a. Carbon sequestration		c. Carbon storage	d. Carbon utilization	
	18. Which of the following practices can help sequester carbon in soils				
	à Conventional tillage	b. Conservation tillage	c. Crop rotation	d. All the above	
	19. Which of the following is a type of organic amendment that can help sequester carbon in				
	a. Compost	b. Manure		d. All of the above	
	20. What is the term for the process of converting biomass into a stable form of carbon				
2	a. Pyrolysis	b. Gastification	c. Anaerobic digestion	d. Fermentation	

21. Which of the following crops has a high carbon-to-nitrogen ratio, making it suitable for carbon sequestration					
a. Corn	o. Soybean	c. Wheat	d. Alfalfa		
22 Which of the following soil properties is most important for carbon sequestration					
a, pH	o. Texture	c. Organic matter	d. Nutrient availability		
1	1 1 1	content	41, 11		
23. Which of the following	soils type has highest po	tential for carbon sequest	ration		
a. Sandy soils	b. Clay soils	c. Loamy soils	d. Peat soils		
24. Which of the following	factor that affects carbon	n sequestration in soils			
a. Soil texture	b. Soil temperature	c. Soil moisture	d. All the above		
25.What is the role of police		noting carbon sequestration	n in agricultural soils		
a. Encourages adoption	b. Provides financial	c. Increases awareness	d. All the above		
of conservation	benefits to farmers	of carbon sequestration			
practices		benefits			
26. What is the potential of carbon sequestration in agricultural soils to mitigate climate change					
a. Low	b. Moderate	c. High	d. Unknown		
27 Which of the following practices can help promote soil carbon sequestration in wetlands					
a. Hydrological	b. Vegetation	c. Fertilizer application	d. All of the above		
management	management				
28. What is the role of soil microorganisms in carbon sequestration in wetland					
A Decompose organic	b. Fix atmospheric	e. Solubilising	d. Enhance soil carbon		
matter	nitrogen	Minerals	storage		
29. Which of the following is a benefit of carbon sequestration in agricultural soils for biodive					
a Increases species	b. Decreases soil	c. No impact on soil	d. All the above		
richness	carbon storage	carbon storage	,		
30. Which of the following	g practices can help redu	ce soil disturbance and pro	omote carbon		
sequestration					
a. No-till or reduced- till	b. Crop rotation	c. Cover cropping	d. All the above		
farming					
	1	1	1		

21 Which of the follow	wing practices can help pro-	mote soil carbon sequestra	ation in forests	
a. Reforestation	b. Afforestation	c. Sustainable forest	d. All the above	
32. What is the follow	ing is a benefit of carbon se	questration in agricultural	soils for water quality	
a. Reduces nutrient	b. Increases nutrient	c. No impact on soil	d. All the above	
leaching	leaching	nutrient leaching		
33. What is the impact	t of soil salinization on soil	carbon sequestration		
	b. Decrease soil carbo		d. All of the above	
storage	storage	carbon storage		
production	owing crops has a highest po	otential for carbon sequesti	ration due to high biomas	
a. Corn	b. Soybean	c. Wheat	d Miscanthus	
Turidscape	owing practices can help pro	omote soil carbon sequestr	ation in agricultural	
a. Agroforestry	b. Permaculture	c. Regenerative	d. All the above	
		agriculture		
36. What is the role of	of soil carbon sequestration	in mitigating climate change	ge	
a. Reduce atmospher	ic b. Increases	c. No impact on	d. All the above	
CO2	atmospheric CO2	atmospheric CO2	, \ /	
37. What is the role of	of carbon sequestration in re	educing greenhouse gas em	nissions from agriculture	
a. Reduces N2O	b. Reduces CH4	c. Reduces CO2		
emission	emission	emission	d. All the above	
38. Which of the following crops has a high potential for carbon sequestration due to high root deptl				
a. Corn	b. Soybean	c. Wheat	d. Sugarcane	
39. What is the role	of perennials in carbon sequ	unatuation		
a. Increase soil carbo	on b. Decrease soil carb		1 411 1	
storage	storage	carbon storage	d. All the above	
40. What is the role	of biofertilizers in carbon s			
a. Increase soil carb			d. All the above	
storage	storage	carbon storage	a. Thi the above	

41. Which of the follo	Owing is a baneful of				
	owing is a benefit of carbon s	equestration in agricultu	ral soils for ecosystems		
a Increases pollination	o corcuses ponination	pollination	d All the above		
42. Which of the follo	owing practices can help prom	note soil carbon sequestra	ation in agroforestry		
a Tree planting	b Crop diversification	c Soil conservation	All the above		
	of carbon sequestration in clim	ate-smart agriculture			
a Increase crop	b Decrease crop yields	c No impact on crop	d All of the above		
resilience		yield			
44. Which of the follow	ving is a benefit of carbon seques	tration in agricultural soils	for farmers livelihoods		
a. Increased crop yiel	d b. Improve soil health	c. Enhanced market	d. All of the above		
4.		access			
productivity	45. What is the role of carbon sequestration in mitigating climate change impacts on agripproductivity				
a. Reduces drought ri	isk b. Increases flood risk	c. No impact on	d. All of the above		
		agricultural			
		productivity			
46. What is the impac	ct of soil carbon sequestration	on soil water holding cap	pacity		
a Increase water	b. decrease water	c. no impact on water	d. All the above		
holding capacity	holding capacity	holding capacity			
47. Which of the folloagriculture	owing practices can help prom	ote soil carbon sequestra	tion in precision		
a. Variable rate application .	b. Precision irrigation	C. Soil sensing	d. All of the above		
48. Which of the follow	otential				
a, Clay	b. Silt	c. Sand	d. Loam		
49. What is the term fo	r the process of converting carbo	n dioxide into organic com	pounds in soil		
a. Carbonation	b.Carbon sequestration	c. Soil carbonization			
50. Which of the follow	owing soil microorganisms pla	ys a key role in carbon so	equestration		
a. Bacteria	b. Fungi	c. Protozoa	d. Nematodes		



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### Department of Agronomy

Certificate course in 'Carbon Sequestration in Agriculture: Theoretical Perspectives' Academic Year 2022-23

#### 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 'Carbon Sequestration in Agriculture: Theoretical Perspectives'. Total 40 students are enrolled for course. This course aims to equip agriculture students with a robust understanding of carbon sequestration practices and their application in the agricultural context of Maharashtra. By the end of the week, students have gained valuable insights into the science, methods, challenges, and policy aspects of carbon sequestration, preparing them to contribute to sustainable agricultural practices and climate change mitigation efforts.

#### Course outcome

- 1) Students will be able to explain the basic principles of the carbon cycle, including sources and sinks of carbon, and understand how carbon sequestration fits into this cycle.
- 2) Students will demonstrate knowledge of different types of carbon sequestration, such as soil, vegetative, and geological sequestration, and their roles in mitigating climate change.
- 3) Students will acquire the ability to identify and describe soil carbon sequestration methods, including conservation tillage, cover cropping, and organic amendments, and evaluate their effectiveness in different agricultural settings.
- 4) Students will comprehend the role of agroforestry, afforestation, and conservation practices in vegetative carbon sequestration and be able to design strategies for integrating these methods into agricultural landscapes.
- 5) Students will gain insights into the specific climate and soil conditions of Maharashtra and how these factors influence carbon sequestration potential in the region.





K. K. Wagh College of Agriculture,

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6) Students will explore emerging trends and future research opportunities in carbon sequestration, understanding the potential of new technologies and innovations to drive progress in this field.

7) Students will be prepared to engage in further research or professional opportunities related to carbon sequestration, contributing to sustainable agricultural practices and climate change mitigation efforts in Maharashtra and beyond.

Students have developed a comprehensive understanding of carbon sequestration and its applications in agriculture, equipped with the skills and knowledge needed to contribute to sustainable practices in Maharashtra's agricultural sector. The course was designed to align with the region's specific needs and challenges, ensuring that students are well-prepared to make a meaningful impact in the field of carbon sequestration.

In academic year 2022-23 forty students are enrolled for this certificate course. Theory examination has been conducted for total 50 marks. Duration for this certificate course is 19/12/2022 to 31/12/2022 (Total 30 hrs.). The students who successfully completed the certificate course were given a certificate as appreciation by the college.

Course coordinator is Ms. S V Sonawane and member for this certificate course are, Dr. P P Kharche, Ms S A Hulgunde

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







### 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. Wagh chavre Com Tulashiram

Class .SYBSG .... has completed Certificate Course on Carban Sequestration in Agriculture

Theoretical Perpective from 1911212022 to 31/12/2022 organized by

Date: 06/01/2023

Place: Nashik

Course Coordinator



Principal
K K Wagh College of Agriculture
Nashik