



G.K.S.M. GOVT. COLLEGE TANDA URMAR

Summary Report

of

Certificate in Horticulture

Course Objectives and Syllabus

Certificate/ Diploma in Horticulture

Objectives:

To enable student to:

- 1) Acquire knowledge of Horticulture
- 2) Acquire knowledge of Fruit Science , Vegetable Science , Floriculture & Landscaping

Duration of the Course: Certificate: 6 months Diploma: 1 Year

Eligibility: Any student enrolled in the degree program of the college

Subjects covered under Certificate Course are Sr No. 1, 2 and 3	
Name of Paper	Credits
GC-HT-01T Horticulture I	06
GC-HT-02T Horticulture II	06
GC-HT-03P Practical and Project Work I	06
Subjects covered under Diploma Course are Sr No. 1, 2, 3, 4, 5 and 6	
GC-HT-04T Horticulture III	06
GC-HT-05T Horticulture IV	06
GC-HT-06P Practical and Project Work II	06 (Lab Only)

Horticulture I

Total Marks: 100
External Marks: 70
Internal Marks: 30
Credits: 6
Pass Percentage: 40%

Section A**Unit I -Basics of Horticulture**

- Importance and Scope of Horticultural Crops
- Current Scenario of Fruit Crops in India

Unit II -Fruit Science

- Nutritional Importance of Fruits
- Nutritional Deficiency and their Management.

Section B**Unit III -Vegetable Science**

- Nutritional Importance of Vegetables; Nutritional Deficiency and their Management.
- Cultivation Practices of important Vegetables Crops.

Unit IV -Floriculture

- Importance and Scope of Flower Cultivation
- Present Status of Floriculture in India

Horticulture II

Total Marks:100
External Marks:70
Internal Marks:30
Credits:6
Pass Percentage:40%

Section A**Unit I -Basics of Horticulture**

- Role of Horticulture in Diversification of Agriculture
- Current Scenario of Vegetable Crops in India

Unit II -Fruit Science

- Soil and Climatic requirement of Different Fruit Crops
- Climate Zones and Areas Suitable for Fruit Cultivation

Section B**Unit III -Vegetable Science**

- Soil and Climate requirement for different Vegetable Crops
- Irrigation Requirement, Manuring and Fertilization, Weed Management

Unit IV -Floriculture

- Soil requirement for Floriculture
- Climate requirement for Floriculture

Practical and Project Work I

Total Marks: 100
External Marks: 70
Internal Marks: 30
Credits: 6
Pass Percentage: 40%

Practical:

- 1) Identification of differed Horticulture crops
Max. Marks: 50
- 2) Identification and working of
Practical: 40
 - Nursery raising tools
Int.Ass.: 10
 - Farm Implements
Periods:4 hrs/ week
- 3) Sowing of seeds for raising nurseries and root stocks of Horticulture crops

Scheme of practical examination

Internal practical examination		40
Marks	Preparation marks	20
I)	II) Identification marks	10
	III) Submissionof practical record book marks	5
	IV) Viva– Voce marks	5

References:

- 1) ChadhaK L(2003) *HandbookofHorticulture*ICAR Publications .
- 2) Srivastava R P and Kumar S (2019) *Fruit and Vegetable Preservation*.3rd Edition ,CBSPublishers , New Delhi
- 3) FAO*FruitsandVegetableProcessing*.InternationalBookdistributingCo. Chammastudiobuilding, 2ndfloor, Charbagh,Lucknow-226004
- 4) RajD(2015) *Floricultureat aGlance*.KalyaniPublishers, NewDelhi.

Horticulture III

Total Marks: 100
External Marks: 70
Internal Marks: 30
Credits: 6
Pass Percentage: 40%

Section A**Unit I - Elements of Horticulture**

- Elements of Horticulture
- Branches of Horticulture

Unit II -Fruit Science

- Importance of Healthy Fruit Plants Nursery and their requirement for establishment
- Fruit Nutrition garden-layout and importance

Section B**Unit III - Vegetable Science**

- Diseases of Vegetables and their management.
- Kitchen Gardening – suitable crops and varieties

Unit IV - Landscaping

- Different types of Landscaping
- Production and management of important trees, shrubs, climbers, pot plants, seasonal flowers and perennials

Horticulture IV

Total Marks: 100
External Marks: 70
Internal Marks: 30
Credits: 6
Pass Percentage: 40%

Section A**Unit I - Challenges of Horticulture**

- Major Challenges of Fruits Crops
- Major Challenges of Vegetables Crops

Unit II - Fruit Science

- Cultivation practices of important fruit crops – soil and climate requirement, varieties, irrigation requirements.
- Manuring and fertilization, weed management, training and pruning; harvesting and post-harvest handling of fruits

Section B**Unit III -Vegetable Science**

- Harvesting and maturity indices
- Post-harvest handling and processing

Unit IV -Landscaping

- Basic Planning and principles of Landscaping
- Vertical Gardening

Practical and Project Work II

Total Marks: 100
External Marks: 70
Internal Marks: 30
Credits: 6
Pass Percentage: 40%

Practical:

- 1) Methods of propagation Horticulture crops
Max. Marks: 50
- 2) Layout and methods of establishment of orchards
Practical: 40
- 3) Training and pruning of Horticulture crops
Int. Ass.: 10
- 4) Identification of deficiency symptoms and physiological disorder
Periods: 4 hrs / week

Scheme of practical examination

Internal practical examination	40 marks
V) Preparation	20marks
VI) Identification	10marks
VII) Submission of practical record book	5marks
VIII) Viva- Voce	5marks

References:

- 1) Mehta S and Yadav A (2017) *Treasure of Fruit Science* , New Vishal Publication ,NewDelhi
- 2) Thamburaj S N (2014) *Textbook of Vegetables , Tuber crops and Spices* . ICARPublication
- 3) Singh U and Kumar S (2005) *Glimpses of Post-Harvest Technology* . 2nd RevisedEdition, New Vishal Publication , NewDelhi

Affiliation Letter

ਜਗਤ ਗੁਰੂ ਨਾਨਕ ਦੇਵ

ਪੰਜਾਬ ਸਟੇਟ ਓਪਨ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ

(Established by Act No.19 of 2019 of Legislature of the State of Punjab)

Ref No: PSOU/LSC/2023/00169

Date: 08-09-2023

To whom it may concern

It is certified that Giani Kartar Singh Memorial Govt. College, Tanda Urmur, Hoshiarpur is running the Learner Support Centre of Jagat Guru Nanak Dev Punjab State Open University, Patiala for the Sessions January 2022 to July 2023 admission cycles in the following programmes:

1. Certificate Course in Office Automation and E-Governance.
2. Certificate Course in Horticulture.

Naishi Bala
Principal
G.K.S.M. GOVT. COLLEGE
Tanda Urmur (Hoshiarpur)

[Signature]
Director
Learner Support Centre
Director-Learner Support Centre
Jagat Guru Nanak Dev
Punjab State Open University
Patiala - 147001(PB), INDIA

List of Students Enrolled in the Course



JAGAT GURU NANAK DEV PUNJAB STATE OPEN UNIVERSITY, PATIALA

(Established by Govt. of Punjab under State Legislature Act No. 19 of 2019)
C/28 Lower Mall, Patiala, Punjab-147001
Website: www.pso.ac.in

March, 2023

Admission Year : 2023

Session : January

Final Verification Report

College ID : PSOU-09-GO-116

College Name : G.R.S.M. Govt. College, Tanda Urmur

Sr.No	Candidate ID	Registration No.	Student Name	Course Name	Document Verified	Fee Verified	Admission Status	Remarks (if any)
1	PSOU-STUD-23-0391	PSOU-2023A-116-0001	ANMOLPREET SINGH	Certificate Course in Office Automation and E-Governance	Verified	Verified	Admitted	Anmolpreet Singh
2	PSOU-STUD-23-0524	PSOU-2023A-116-0002	RAJVIR SINGH	Certificate Course in Office Automation and E-Governance	Verified	Verified	Admitted	Rajvir Singh
3	PSOU-STUD-23-0611	PSOU-2023A-116-0006	HARNEET SINGH	Certificate Course in Office Automation and E-Governance	Verified	Verified	Admitted	Harneet Singh
4	PSOU-STUD-23-0846	PSOU-2023A-116-0007	AMANPREET KAUR	Certificate Course in Office Automation and E-Governance	Verified	Verified	Admitted	Amank
5	PSOU-STUD-23-0850	PSOU-2023A-116-0009	RAJNI DEVI	Certificate Course in Office Automation and E-Governance	Verified	Verified	Admitted	Rajni Devi
6	PSOU-STUD-23-0863	PSOU-2023A-116-0010	JASHANDEEP KAUR	Certificate Course in Office Automation and E-Governance	Verified	Verified	Admitted	Jashandeep Kaur
7	PSOU-STUD-23-0934	PSOU-2023A-116-0003	NAVNEET KAUR	Certificate Course in Office Automation and E-Governance	Verified	Verified	Admitted	Navneet Kaur
8	PSOU-STUD-23-0995	PSOU-2023A-116-0008	GOBIND SHARMA	Certificate Course in Office Automation and E-Governance	Verified	Verified	Admitted	Gobind Sharma
9	PSOU-STUD-23-1140	PSOU-2023A-116-0025	SUKHJINDER SINGH	Certificate Course in Office Automation and E-Governance	Verified	Verified	Admitted	Sukhjinder Singh
10	PSOU-STUD-23-1141	PSOU-2023A-116-0026	TANVIR KAUR	Certificate Course in Office Automation and E-Governance	Verified	Verified	Admitted	Tanvir Kaur
11	PSOU-STUD-23-1142	PSOU-2023A-116-0027	MANJOT KAUR	Certificate Course in Office Automation and E-Governance	Verified	Verified	Admitted	Manjot Kaur

12	PSOU-STUD-23-1143	PSOU-2023A-116-0026	NISHA	Certificate Course in Office Automation and E-Governance	Verified	Verified	Admitted	Nisha
13	PSOU-STUD-23-1144	PSOU-2023A-116-0029	SANNA MAHEY	Certificate Course in Office Automation and E-Governance	Verified	Verified	Admitted	Sanna Mahey
14	PSOU-STUD-23-1145	PSOU-2023A-116-0019	SUMAN SAINI	Certificate Course in Office Automation and E-Governance	Verified	Verified	Admitted	Suman Saini
15	PSOU-STUD-23-1146	PSOU-2023A-116-0030	NEHA	Certificate Course in Office Automation and E-Governance	Verified	Verified	Admitted	Neha
16	PSOU-STUD-23-1147	PSOU-2023A-116-0031	ANISHA SHARMA	Certificate Course in Office Automation and E-Governance	Verified	Verified	Admitted	Anisha Sharma
17	PSOU-STUD-23-1148	PSOU-2023A-116-0032	HARNOOR SINGH	Certificate Course in Office Automation and E-Governance	Verified	Verified	Admitted	Harnoor Singh
18	PSOU-STUD-23-1149	PSOU-2023A-116-0021	SATPAL SINGH	Certificate Course in Office Automation and E-Governance	Verified	Verified	Admitted	Satpal Singh
19	PSOU-STUD-22-610	PSOU-2023A-116-0014	AMANPREET SINGH	Certificate in Horticulture	Pending	Pending	Admitted	Amansingh
20	PSOU-STUD-22-719	PSOU-2023A-116-0015	AMANPREET SINGH	Certificate in Horticulture	Pending	Pending	Admitted	Amansingh
21	PSOU-STUD-21-11559	PSOU-STUD-21-11559	Mandeep Saini	Certificate in Horticulture	Verified	Verified	Admitted	Mandeep Saini
22	PSOU-STUD-22-1117	PSOU-2023A-116-0017	AMANPREET SINGH	Certificate in Horticulture	Pending	Pending	Admitted	Amansingh
23	PSOU-STUD-22-777	PSOU-2023A-116-0016	NARINDER SINGH	Certificate in Horticulture	Pending	Pending	Admitted	Narinder Singh
24	PSOU-STUD-22-25091	PSOU-STUD-22-25091	Manjot singh	Certificate in Horticulture	Verified	Verified	Admitted	Manjot Singh
25	PSOU-STUD-22-47238	PSOU-STUD-22-47238	Bhupal	Certificate in Horticulture	Verified	Verified	Admitted	Bhupal
26	PSOU-STUD-21-12499	PSOU-STUD-21-12499	Jaspreet Kaur	Certificate in Horticulture	Verified	Verified	Admitted	Jaspreet Kaur
27	PSOU-STUD-22-85537	PSOU-STUD-22-85537	Ramandeep Singh	Certificate in Horticulture	Verified	Verified	Admitted	Ramandeep Singh
28	PSOU-STUD-23-1132	PSOU-2023A-116-0011	SUKHLEEN SINGH	Certificate in Horticulture	Verified	Verified	Admitted	Sukhleen Singh
29	PSOU-STUD-23-1133	PSOU-2023A-116-0012	MANDEEP SINGH	Certificate in Horticulture	Verified	Verified	Admitted	Mandeep Singh
30	PSOU-STUD-23-1134	PSOU-2023A-116-0013	NEERAJ KUMAR	Certificate in Horticulture	Verified	Verified	Admitted	Neeraj Singh
31	PSOU-STUD-23-1135	PSOU-2023A-116-0018	JASPREET SINGH	Certificate in Horticulture	Verified	Verified	Admitted	Jaspreet Singh
32	PSOU-STUD-23-1136	PSOU-2023A-116-0020	GURLEEN KAUR	Certificate in Horticulture	Verified	Verified	Admitted	Gurleen Kaur
33	PSOU-STUD-23-1137	PSOU-2023A-116-0022	AMANPREET SAINI	Certificate in Horticulture	Verified	Verified	Admitted	Amansingh
34	PSOU-STUD-23-1138	PSOU-2023A-116-0023	HARLEEN KAUR	Certificate in Horticulture	Verified	Verified	Admitted	Harleen Kaur
35	PSOU-STUD-23-1139	PSOU-2023A-116-0024	SHARANJIT SINGH	Certificate in Horticulture	Verified	Verified	Admitted	Sharanjit Singh
36	PSOU-STUD-23-0975	PSOU-2023A-116-0004	LAKHVIR SINGH	Certificate in Horticulture	Verified	Verified	Admitted	Lakhvir Singh

Total Final Admission Count : 36

Total Fee paid to the University (in figures) : 46800 - / (in words) : Forty Six Thousand Eight Hundred only

Counter Signed By:

(Signature)
Principal (Signature)
G.K.S.M. GOVT. COLLEGE
Name: Tanda Umar (Hoshiarpur)

Verified By:

(Signature)
Coordinator (Signature)
Name:

Attendance Sheets

March, 2023

ਸਟੀਪੈਂਡਿੰਗ ਨੰ: 52

ਦੇਸ਼ੀ ਸਿੱਖਿਆ Certificate Course of Horticulture

ਸਿੱਖ	ਨਾਂ	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	17		
		03/03/2023	04/03/2023	05/03/2023	06/03/2023	07/03/2023	08/03/2023	09/03/2023	10/03/2023	11/03/2023	12/03/2023	13/03/2023	14/03/2023	15/03/2023	16/03/2023	17/03/2023	18/03/2023	19/03/2023	20/03/2023	21/03/2023	22/03/2023	23/03/2023	24/03/2023	25/03/2023	26/03/2023	27/03/2023	28/03/2023	29/03/2023	30/03/2023
2370621	Amanpreet Singh	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
622	Amanpreet Singh	A	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
623	Narinder Singh	P	A	P	A	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
624	Amanpreet Singh	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
625	Manoj Singh	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
626	Mandeep Giani	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
627	Jaspreet Kaur	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
628	Bhupal	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
629	Ramandeep Singh	P	A	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
630	Naveen Kaur	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
631	Lakhvir Singh	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
632	Balbir Singh	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
633	Mandeep Singh	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
634	Neeraj Kumar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
635	Jaspreet Singh	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
636	Gurleen Kaur	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
637	Amanpreet Suri	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
638	Harden Kaur	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
639	Sharanjit Singh	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P

Jaspreet

Jaspreet

Samples of Course Completion Certificate



JAGAT GURU NANAK DEV PUNJAB STATE OPEN UNIVERSITY, PATIALA (Established by Act No.19 of 2019 of Legislature of the State of Punjab)

Result Notification

NAME OF PROGRAMME : Certificate in Horticulture
NOTIFICATION NO : PSOU/Exam/Reg/1036

SEMESTER : 1
DATE : 20-09-2023

CYCLE : Jan-2023
RESULT TYPE : Regular

EXAMINATION : July-2023

Sr.No	Roll No	Student Name/ Father Name	GC-HT-01T	GC-HT-02T	GC-HT-03P	CGPA	Credits (Earned)	Result Status
		Credits -->	6	6	6			
1	2370621	Amanpreet Singh/ Bhajan Singh	B+	B+	O	8.00	18	Pass
2	2370622	Amanpreet Singh/ Targul Singh	B+	B+	O	8.00	18	Pass
3	2370623	Narinder Singh/ Manjit Singh	RPE	RPE	RPE	---	0	Re-Appear
4	2370624	Amanpreet Singh/ Harwinder Singh	RPE	RPE	RPE	---	0	Re-Appear
5	2370625	Manojit Singh/ Sukhdev Singh	RPE	RPE	RPE	---	0	Re-Appear
6	2370626	Mandeep Singh/ Jaswinder Singh	B+	B+	O	8.00	18	Pass
7	2370627	Jagpreet Kaur/ Dharam Singh	B+	B+	O	8.00	18	Pass
8	2370628	Shravan/ Pooni Sharan	B+	B	O	7.67	18	Pass
9	2370629	Ramandeep Singh/ Mandeep Singh	B+	B+	O	8.00	18	Pass
10	2370630	Neharaj Kaur/ Kamal Singh	A	B+	O	8.33	18	Pass
11	2370631	Laldevi Singh/ Ramesh Singh	B+	B	O	7.67	18	Pass
12	2370632	Sukhdev Singh/ Gurpreet Singh	RPE	RPE	RPE	---	0	Re-Appear

(Percentage = CGPA x 10)

Signature & Name with the result may be declared and published.

Published

[Signature]
Prepared by

[Signature]
Checked by

[Signature]
Assistant Registrar

[Signature]
Coordinator of Examinations

Structure of Grading Academic Performance

Grade	D	A+	A	B+	B	C	F	FHP	A	F	E	SUS
Qualitative Meaning	Outstanding	Excellent	Very Good	Good	Above Average	Average	Pass	Failed/Repeat	Absent	Incomplete	Detained	Satisfactory/Unsatisfactory
Grade Point	10	9	8	7	6	5	4	3	2	1	0	---

001	Reserve in Internal
002	Reserve in External
003	Reserve to both Internal & External

Ab-Suspa
Res-External Examination
Re-Internal Examination
R-Reserve List
EMC-Examination Case



JAGAT GURU NANAK DEV PUNJAB STATE OPEN UNIVERSITY, PATIALA (Established by Act No.19 of 2019 of Legislature of the State of Punjab)

Result Notification

NAME OF PROGRAMME : Certificate in Horticulture
NOTIFICATION NO : PSOU/Exam/Reg/1036

SEMESTER : 1
DATE : 20-09-2023

CYCLE : Jan-2023
RESULT TYPE : Regular

EXAMINATION : July-2023

Sr.No	Roll No	Student Name/ Father Name	GC-HT-01T	GC-HT-02T	GC-HT-03P	CGPA	Credits (Earned)	Result Status
		Credits -->	6	6	6			
13	2370633	Mandeep Singh/ Jasvir Singh	B+	B	O	7.67	18	Pass
14	2370634	Neharaj Kaur/ Bakdev Kaur	B+	B	O	7.67	18	Pass
15	2370635	Jagpreet Singh/ Harbhajan Singh	B+	B+	O	8.00	18	Pass
16	2370636	Gurdev Singh/ Amarnit Singh	A	B	O	8.00	18	Pass
17	2370637	Amanpreet Singh/ Amit Singh	A	B+	O	8.33	18	Pass
18	2370638	Hardev Singh/ Sarbjit Singh	RPE	RPE	RPE	---	0	Re-Appear
19	2370639	Sharanjit Singh/ Chandpreet Singh	B+	B	O	7.67	18	Pass

(Percentage = CGPA x 10)

Signature & Name with the result may be declared and published.

Published

[Signature]
Prepared by

[Signature]
Checked by

[Signature]
Assistant Registrar

[Signature]
Coordinator of Examinations

Structure of Grading Academic Performance

Grade	D	A+	A	B+	B	C	F	FHP	A	F	E	SUS
Qualitative Meaning	Outstanding	Excellent	Very Good	Good	Above Average	Average	Pass	Failed/Repeat	Absent	Incomplete	Detained	Satisfactory/Unsatisfactory
Grade Point	10	9	8	7	6	5	4	3	2	1	0	---

001	Reserve in Internal
002	Reserve in External
003	Reserve to both Internal & External

Ab-Suspa
Res-External Examination
Re-Internal Examination
R-Reserve List
EMC-Examination Case