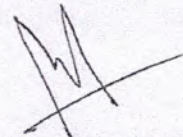


Hindustan College of Science & Technology, Farah, Mathura
Department of Biotechnology

Date: 25th Jan. 2019

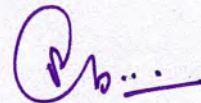
Notice

All the students of Department of Biotechnology are hereby informed that the registration for value added course "Mushroom Cultivation Technology (VBT1802) " will be started from 28th January 2019 and the last date for registration is 30th January 2019. **The regular classes for value added course will be started from 2nd February 2019.** All of you are advised to register yourself timely.



HOD, Biotechnology

Head
Department of Biotechnology
Hindustan College of Science & Technology
Farah, Mathura



Director
Hindustan College of
Science & Technology
FARAH (MATHURA)



HINDUSTAN COLLEGE OF SCIENCE & TECHNOLOGY,
FARAH -MATHURA

DEPARTMENT OF BIOTECHNOLOGY



Value Added Course
VBT1802 –Mushroom Cultivation Technology

02nd February, 2019 – 8th May, 2019 - Every Saturday: 10:00 AM – 12:00 PM



By

Dr. Arun Prasad Chopra

Associate Professor, Department of Biotechnology Engineering

Research Interest: Identification of novel genes for crop improvement, Mushroom cultivation technology, Improvement of natural farming technology

Registration Dates
28th Jan 2019 – 30th Jan 2019

For Registration: Please contact
Mr. Raj Kumar, office Assistant
Department of Biotechnology

Prerequisites: Assumes familiarity with basic knowledge of biology.


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A.P. Chopra



HINDUSTAN COLLEGE OF SCIENCE & TECHNOLOGY,
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DEPARTMENT OF BIOTECHNOLOGY
Value Added Course
VBT1802 –Mushroom Cultivation Technology

02nd February, 2019 – 8th May, 2019 - Every Saturday: 10:00 AM – 12:00 PM

Course Objectives

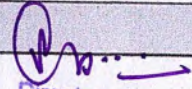
The main objective of this value added course are as follows:

1. Enable the students to identify edible and poisonous mushrooms
2. Provide hands on training for the preparation of bed for mushroom cultivation and spawn production
3. Give the students exposure to the experiences of experts and functioning mushroom farms

Course Syllabus

Units	Details	Course Out comes
1	Introduction to mushrooms: Mushrooms -Taxonomical rank -History and Scope of mushroom cultivation Edible and Poisonous Mushrooms-Vegetative character.	CO1
2	Common edible mushrooms: Button mushroom (<i>Agaricus bisporus</i>), Milky mushroom (<i>Calocybe indica</i>), Oyster mushroom (<i>Pleurotus florida</i> (Oyster White), <i>Pleurotus sajorcaju</i> , <i>Pleurotus djmore</i>) and paddy straw mushroom (<i>Volvariella volvcea</i>).	CO2
3	Principles of mushroom cultivation: Structure and construction of mushroom house. Sterilization of substrates. Spawn production -culture media preparation- production of pure culture, mother spawn, and multiplication of spawn. Composting technology, mushroom bed preparation. Spawning, spawn running, harvesting. Cultivation of oyster and paddy straw mushroom. Problems in cultivation - diseases, pests and nematodes, weed moulds and their management strategies.	CO3
4	Health benefits of mushrooms: Nutritional and medicinal values of mushrooms. Therapeutic aspects- antitumor effect	CO4
5	Preservation of mushrooms - freezing, dry freezing, drying, canning, quality assurance and entrepreneurship. Value added products of mushrooms.	CO5

Prerequisites: Assumes familiarity with basic knowledge of biology


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DEPARTMENT OF BIOTECHNOLOGY

Value Added Course

VBT1802 –Mushroom Cultivation Technology

02nd February, 2019 – 8th May, 2019 - Every Saturday: 10:00 AM – 12:00 PM

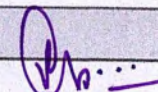
Course Outcomes

- CO1** *Identify edible mushrooms*
Acquire knowledge of storage and revival of pure cultures of edible fungi, Preparation of mother spawns, Knowledge of edible mushrooms grown in different parts of India, Climatic conditions associated with different mushrooms .
- CO2** *Cultivation technology of commonly grown edible mushrooms, Cultivation of different variety of mushroom spawns*
- CO3** *Manage the diseases and pests of mushrooms*
- CO4** *Mushroom technology as entrepreneurship*

CO-PO Mappings

COS	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	3											2	
CO2	2	3											2	
CO3	2			3						2	2	2	2	
CO4			2	3						2	2	2		3
CO5			2	3										3
Average	2	3	2	3						2	2	2	2	3

Evaluation Criteria: Evaluation of Practical assignments, Group project, Viva/Quiz


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DEPARTMENT OF BIOTECHNOLOGY

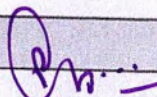


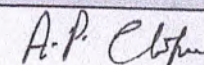
Value Added Course
VBT1802 –Mushroom Cultivation Technology

Program Schedule

02nd February, 2019 – 8th May, 2019 - Every Saturday: 10:00 AM – 12:00 PM

Session	Date	Time	No of Hours	Session Topic	Resource Person
1	02-02-2019	10:00 AM – 12:00 PM	2	Introduction to Mushroom cultivation, objectives	Dr. Arun P. Chopra
2	09-02-2019	10:00 AM – 12:00 PM	2	Edible, non edible and medicinal mushrooms	Dr. Arun P. Chopra
3	16-02-2019	10:00 AM – 12:00 PM	2	Growing conditions of types of mushrooms in different seasons	Dr. Arun P. Chopra
4	23-02-2019	10:00 AM – 12:00 PM	2	Structure and construction of mushroom cultivation room	Dr. Arun P. Chopra
5	02-03-2019	10:00 AM – 12:00 PM	2	Media preparation	Dr. Arun P. Chopra
6	16-03-2019	10:00 AM – 12:00 PM	2	Spawn production	Dr. Arun P. Chopra
7	30-03-2019	10:00 AM – 12:00 PM	2	Problems associated with mushroom cultivation	Dr. Arun P. Chopra
8	06-04-2019	10:00 AM – 12:00 PM	2	Diseases associated with mushroom cultivation	Dr. Arun P. Chopra
9	02-05-2019	10:00 AM – 12:00 PM	2	Post harvest technologies	Dr. Arun P. Chopra
10	03-05-2019	10:00 AM – 12:00 PM	2	Quality assurance and entrepreneurship	Dr. Arun P. Chopra
11	04-05-2019	10:00 AM – 12:00 PM	2	Project	Dr. Arun P. Chopra
12	06-05-2019	10:00 AM – 5:00 PM	6	Project	Dr. Arun P. Chopra
13	07-05-2019	10:00 AM – 5:00 PM	6	Project	Dr. Arun P. Chopra
14	08-05-2019	10:00 AM – 12:00 PM	2	Project Evaluation	Dr. Arun P. Chopra
Total Number of Hours covered			36		


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
Hindustan College of Science and Technology - Mathura

Department Name: Biotechnology Engineering

TIME TABLE FOR EVEN SEMESTER 2018-19

SESSION:	2018-19		W.E.F. 01/02/2019	CLASS TEACHER:		Dr Hari Pathak																	
YEAR/SEM-SEC	2nd yr/IV SEM		ROOM.NO :	303		COUNSELLORS :			Ms.Shivi Sharma														
Time / Day	I	II	III	IV	V	VI	VII	VIII															
	10:10 TO 11:00	11:00 TO 11:50	11:50 TO 12:40	12:40 TO 01:30	01:30 TO 02:20	02:20 TO 03:10	03:10 TO 04:00	04:00 TO 04:50															
MONDAY	HMT	EE	NS/DM	IMM	LUNCH	PDP	GMB LAB-A1/HMT LAB-A2/Skill Develop. A2	APC/SV	401/503	EE LAB-A1/IMM LAB-A2/Skill Develop. A1	VK/HP	401/402	EE LAB-A2/IMM LAB-A1/Skill Develop. A2	VK/HP	401/402	EE(T)	NS/DM	HV	VK	DVK/VR	YS	303	303
	SV	VK	DVK/VR	HP																			
	303	303	303	303																			
TUESDAY	GMB	NS/DM	HMT	IMM																			
	APC	DVK/VR	SV	HP																			
	303	303	303	303																			
WEDNESDAY	EE	HMT	EE	IMM																			
	VK	SV	VK	HP																			
	303	303	303	303																			
THURSDAY	HV	HV	NS/DM	GMB																			
	YS	YS	DVK/VR	APC																			
	303	303	303	303																			
FRIDAY	HV	HMT	EE	GMB																			
	YS	SV	VK	APC																			
	303	303	303	303																			
SATURDAY	Value Added Course- " Mushroom Cultivation Technology" (VBT1802)			GMB																			
	APC			APC																			
	303			303																			
SNo	Name of the Subject	Subject Code	Name of the Faculty	Total No. of Lect./Tut./Practical																			
				Lect.	Tut.	Pract.																	
1	Genetics & Molecular Biology	RBT401	Dr. Arun Prasad Chopra (9568006057)	4	0	6 (RBT451)																	
2	Immunology	RBT402	Dr. Hari Pathak (9412652575)	4	0	6 (RBT452)																	
3	Enzyme Engineering	RBT403	Mr. Vipin Kumar (9454712850)	4	1	0																	
4	Heat & Mass Transfer	RCH405	Mr. Sandeep Verma (7895308967)	4	0	4(RCH454)																	
5	Human Values & Prof. Ethics	RVE401	Dr. Y. Singh	4	0	0																	
6	Nano Science/Discrete Mathematics	ROE042/ROE048	Dr.V. Kushwah/Dr.V. Rathor	4	1	0																	
7	Enzyme Engineering Lab	RBT453	Mr. Vipin Kumar (9454712850)	0	0	4 (RBT453)																	
8	Value Added Course- " Mushroom Cultivation Technology"	VBT-1802	Dr. Arun Prasad Chopra (9568006057)	2	0	0																	
Signature					Signature																		
Time Table Incharge					Head of the Department																		


 Director
**Hindustan College of
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 Dy Head
Dept. of Bio Technology
Hindustan College of Science & Technology
 Farah, Mathura

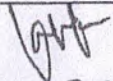
Hindustan College of Science and Technology - Mathura

Department Name: Biotechnology Engineering

TENTATIVE TIME TABLE FOR EVEN SEMESTER 2018-19

SESSION:	2018-19			W.E.F :	01/02/2019			CLASS TEACHER:	Ms. Shivi Sharma			
YEAR/SEM-SEC	3RD/VI-A			ROOM.NO :	304			COUNSELLORS :	Mr. Vipin Kumar			
Time / Day	I	II	III	IV	V	VI	VII	VIII				
	10:10 TO 11:00	11:00 TO 11:50	11:50 TO 12:40	12:40 TO 01:30	01:30 TO 02:20	02:20 TO 03:10	03:10 TO 04:00	04:00 TO 04:50				
MONDAY	FBT	PBT	BPE	Soci.	LUNCH	FBT LAB		LIBRARY				
	SS	PK	VK	AG		SS						
	304	304	304	304		402						
TUESDAY	BPE	IM	BI-II	Soci.		BPE LAB		LIBRARY				
	VK	RK	SS	AG		VK						
	304	304	304	304		402						
WEDNESDAY	IM	PDP		Soci.		FBT(T)		BI-II	LIBRARY			
	RK			AG		SS	SS					
	304	304		304		304	304					
THURSDAY	FBT	PBT	BPE	BI-II		PBT(T)		BI-II	PDP			
	SS	PK	VK	SS		PK	SS	Trainer				
	304	304	304	304		304	304	304				
FRIDAY	FBT	BPE	PBT	IM		PBT LAB		FBT				
	SS	VK	PK	RK		PK	SS	SS				
	304	304	304	304	401	304	304					
SATURDAY	Value Added Course- " Mushroom Cultivation Technology" (VBT1802)			PBT	IM		BI-II LAB					
	APC			PK	RK		SS					
	304			304	304		404					
SNo	Name of the Subject	Subject Code	Name of the Faculty	Total No of Lect/Practical								
				Lect.	Tut.	Pract.						
1	Bioprocess Engineering	RBT601	Mr. Vipin Kumar (9454712850)	4	0	2						
2	Plant Biotechnology	RBT602	Mr. Pramod Kumar (9639005945)	4	1	2						
3	Bioinformatics II	RBT603	Ms Shivi Sharma(9410224170)	4	0	2						
4	Food Biotechnology	RBT603	Ms Shivi Sharma(9410224170)	4	1	2						
5	Sociology	RAS602	Dr. Archana Gautam	3	0	0						
6	Industrial Management	RAS601	Dr. Raj Kumari	4	0	0						
7	Value Added Course- " Mushroom Cultivation Technology"	VBT-1802	Dr. Arun Prasad Chopra (9568006057)	2	0	0						
Time Table Incharge								Head of the Department				


 Director
 Hindustan College of
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 FARAH (MATHURA)


 Dy Head
 Dept. of Bio Technology
 Hindustan College of Science & Technology
 Farah, Mathura

Hindustan College of Science & Technology

Department of Biotechnology Engineering

Value Added Course - Registration Sheet

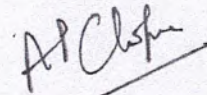
Course Name: Mushroom Cultivaton Technology Course Code: VBT1802

Session 2018-19 (Year-2019)

S. No.	Roll No.	Name	SEM	Sign
1	1706454003	Amit Yadav	IV	Amit Yadav
2	1706454004	Ankita Singh	IV	Ankita Singh
3	1706454005	Archana Singh	IV	ASingh
4	1706454006	Archi Singhal	IV	Archi
5	1706454007	Chesta Shandilya	IV	Chesta
6	1706454008	Deepanshi Agrawal	IV	Deepanshi
7	1706454009	Harshita Bhojwani	IV	Harshita
8	1706454010	Indermeet Singh Bakshi	IV	I.M. Singh
9	1706454011	Kritika Kundaliya	IV	Kritika
10	1706454012	Manvi Varshney	IV	Manvi
11	1706454013	Moharpal Singh	IV	Moharpal Singh
12	1706454014	Navneet Kumar Tiwari	IV	N.K. Tiwari
13	1706454015	Neha Agrawal	IV	Neha
14	1706454016	Nitisha Goyal	IV	Nitisha
15	1706454017	Oshin Pal	IV	Oshin
16	1706454018	Praduman Singh	IV	P. Singh
17	1706454019	Prem Narayan Mishra	IV	Prem
18	1706454020	Purvi Malhotra	IV	Purvi
19	1706454021	Raunak Kapoor	IV	Raunak Kapoor
20	1706454022	Ravin Kumar	IV	Ravin
21	1706454023	Samiksha Gupta	IV	Samiksha
22	1706454024	Samriddhi Singh	IV	Samriddhi
23	1706454026	Shefali Maheshwari	IV	SMaheshwari
24	1706454027	Shilpa Sharma	IV	Shilpa
25	1706454028	Shivansh Rai	IV	Shivansh
26	1706454029	Smriti Bharwaj	IV	SBharwaj
27	1706454030	Sneha Kaushal	IV	Sneha
28	1706454031	Sunny Yadav	IV	S.Yadav
29	1706454032	Tanya Pachori	IV	Tanya
30	1706454033	Trapti	IV	Trapti
31	1706454035	Upendra Chaudhary	IV	Upendra
32	1706454036	Vanshika Gaihar	IV	Vanshika
33	1706454037	Varun Kulshrestha	IV	Varun
34	1706454038	Vidushi Bhadoria	IV	Vidushi
35	1706454040	Vrinda Shukla	IV	Vrinda

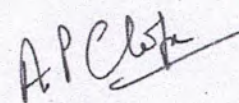

Director

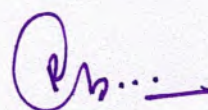
Hindustan College of
Science & Technology
FARAH (MATHURA)



Head
Dept. of Bio Technology
Hindustan College of Science & Technology
Farah, Mathura

Hindustan College of Science & Technology				
Department of Biotechnology Engineering				
Value Added Course - Registration Sheet				
Course Name: Mushroom Cultivaton Technology Course Code:VBT1802				
Session 2018-19 (Year-2019)				
S. No.	Roll No.	Name	SEM	Sign
36	1606454001	Anjali Suryavanshi	VI	Anjali
37	1606454004	Inam Sapkota	VI	Inam
38	1606454005	Kareena Kaur	VI	Kareena
39	1606454006	Kartik Kumar	VI	(K)Kumar
40	1606454007	Khushboo Pippal	VI	Khushboo
41	1606454009	Lovely Singh	VI	Lovely
42	1606454010	Neelu Jaisawal	VI	(N)Jaisawal
43	1606454012	Sagar Singh Lodhi	VI	Sagar Singh
44	1606454013	Saloni Singh	VI	Saloni
45	1606454014	Sara Khan	VI	S Khan
46	1606454015	Shivangi Pal	VI	Shivangi
47	1606454016	Shivani Garg	VI	(S)Garg
48	1606454017	Shweta Bajapi	VI	Shweta
49	1606454019	Swati Tomar	VI	Swati
50	1606454020	Vandana Agarwal	VI	Vandana
51	1606454021	Yogita Sharma	VI	Yogita


 Head
 Dept. of Bio Technology
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 Director
 Hindustan College of
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Hindustan College of Science & Technology

Department of Biotechnology Engineering

Value Added Course - Registration Form

Course Name: Mushroom Cultivaton Technology Course Code:VBT1802

Session 2018-19 (Year-2019)

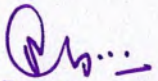
Session wise Attendance Sheet

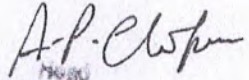
S. No.	Roll No.	Name	SEM	1	2	3	4	5	6	7	8	9	10	11	12	13	14
				02-Feb	09-Feb	16-Feb	23-Feb	02-Mar	16-Mar	30-Mar	06-Apr	02-May	03-May	04-May	06-May	07-May	08-May
1	1706454003	Amit Yadav	IV	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2	1706454004	Ankita Singh	IV	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3	1706454005	Archana Singh	IV	P	A	P	P	P	P	P	P	P	P	P	P	P	P
4	1706454006	Archi Singhal	IV	P	P	P	P	P	P	P	P	P	P	P	P	P	P
5	1706454007	Chesta Shandilya	IV	P	P	P	P	P	P	P	P	P	P	P	P	P	P
6	1706454008	Deepanshi Agrawal	IV	P	P	P	P	A	P	P	P	P	P	P	P	P	P
7	1706454009	Harshita Bhojwani	IV	P	P	P	P	P	P	P	P	P	P	P	P	P	P
8	1706454010	Indermeet Singh Bakshi	IV	P	P	P	P	P	P	P	P	P	P	P	P	P	P
9	1706454011	Kritika Kundaliya	IV	P	P	P	P	P	P	P	P	P	P	P	P	P	P
10	1706454012	Manvi Varshney	IV	P	P	P	P	P	P	P	P	P	P	P	P	P	P
11	1706454013	Moharpal Singh	IV	P	P	P	P	P	A	P	P	P	P	P	P	P	P
12	1706454014	Navneet Kumar Tiwari	IV	P	P	P	P	P	P	P	P	P	P	P	P	P	P
13	1706454015	Neha Agrawal	IV	P	P	P	P	P	P	P	P	P	P	P	P	P	P
14	1706454016	Nitisha Goyal	IV	P	P	P	P	P	P	P	P	P	P	P	P	P	P
15	1706454017	Oshin Pal	IV	P	P	P	P	P	A	P	P	P	P	P	P	P	P
16	1706454018	Praduman Singh	IV	P	P	P	P	P	P	P	P	P	P	P	P	P	P
17	1706454019	Prem Narayan Mishra	IV	P	P	P	P	P	P	P	P	P	P	P	P	P	P
18	1706454020	Purvi Malhotra	IV	P	P	P	P	P	P	P	P	A	P	P	P	P	P
19	1706454021	Raunak Kapoor	IV	P	P	P	A	A	A	A	A	A	A	A	A	A	A
20	1706454022	Ravin Kumar	IV	P	P	P	P	P	P	P	P	P	P	P	P	P	P
21	1706454023	Samiksha Gupta	IV	P	P	P	P	P	P	P	P	P	P	P	P	P	P
22	1706454024	Samriddhi Singh	IV	P	P	P	P	P	P	P	P	P	P	P	P	P	P
23	1706454026	Shefali Maheshwari	IV	P	P	P	P	P	P	P	P	P	P	P	P	P	P
24	1706454027	Shilpa Sharma	IV	P	P	P	P	P	P	P	P	P	P	P	P	P	P
25	1706454028	Shivansh Rai	IV	P	P	P	P	P	P	P	P	P	P	P	P	P	P

Hindustan College of
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FARAH (MATHURA)

Dept. of Bio Technology
Hindustan College of Science & Tech
Farah Mathura
A.P. Sharma

26	1706454029	Smriti Bharwaj	IV	P	P	P	P	P	P	P	A	P	P	P	P	P	P
27	1706454030	Sneha Kaushal	V	P	P	P	P	P	P	P	P	P	P	P	P	P	P
28	1706454031	Sunny Yadav	IV	P	P	A	P	P	P	P	P	P	P	P	P	P	P
29	1706454032	Tanya Pachori	IV	P	P	P	P	P	P	P	P	P	P	A	P	P	P
30	1706454033	Trapti	IV	P	P	P	P	P	P	P	P	P	P	P	P	P	P
31	1706454035	Upendra Chaudhary	IV	P	P	P	P	P	P	P	P	P	P	P	P	P	P
32	1706454036	Vanshika Gaihar	IV	P	P	P	P	P	P	P	P	P	P	P	P	P	P
33	1706454037	Varun Kulshrestha	IV	P	P	P	P	P	P	P	P	A	P	P	P	P	P
34	1706454038	Vidushi Bhadoria	IV	P	P	P	P	P	P	A	P	P	P	P	P	P	P
35	1706454040	Vrinda Shukla	IV	P	P	P	P	P	P	P	P	P	P	P	P	P	P
36	1606454001	Anjali Suryavanshi	VI	P	P	P	P	P	P	P	P	P	P	P	P	P	P
37	1606454004	Inam Sapkota	VI	P	P	P	P	P	P	P	P	P	P	P	P	P	P
38	1606454005	Kareena Kaur	VI	P	P	P	P	P	P	P	P	P	P	P	P	P	P
39	1606454006	Kartik Kumar	VI	A	A	A	A	A	A	A	A	A	A	A	P	P	P
40	1606454007	Khushboo Pippal	VI	P	P	P	P	P	P	P	P	P	P	P	P	P	P
41	1606454009	Lovely Singh	VI	P	P	P	P	P	P	P	P	P	P	P	P	P	P
42	1606454010	Neelu Jaisawal	VI	P	P	P	P	P	P	P	P	P	P	P	P	P	P
43	1606454012	Sagar Singh Lodhi	VI	P	P	P	P	A	P	P	P	P	P	A	P	P	P
44	1606454013	Saloni Singh	VI	P	P	P	P	P	P	P	P	P	P	P	P	P	P
45	1606454014	Sara Khan	VI	P	P	P	P	P	P	P	P	P	P	P	P	P	P
46	1606454015	Shivangi Pal	VI	P	P	P	P	P	P	P	P	P	P	P	P	P	P
47	1606454016	Shivani Garg	VI	P	P	P	P	P	P	P	P	P	P	P	P	P	P
48	1606454017	Shweta Bajapi	VI	P	P	P	P	P	P	P	P	P	P	P	P	P	P
49	1606454019	Swati Tomar	VI	P	P	P	P	P	P	P	P	P	P	P	P	P	P
50	1606454020	Vandana Agarwal	VI	P	P	P	P	P	P	P	P	P	P	P	P	P	P
51	1606454021	Yogita Sharma	VI	P	P	P	P	P	P	P	P	P	P	P	P	P	P


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Certificate of Completion

*Department of Biotechnology
Academic Session 2018-19*

This is to certify that Ms. Smriti Bharwaj, Roll No: 1706454029 of Course: B. Tech. Biotechnology, IV semester has successfully completed 36 hours Value Added Course titled "Mushroom Cultivation Technology" (Course code: VBT1802).

A.P. Chopra
Course Coordinator

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Head of Department

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Certificate of Completion

Department of Biotechnology
Academic Session 2018-19

This is to certify that Ms. Swati Tomar, Roll No: 1606454019 of Course: B. Tech. Biotechnology, VI semester has successfully completed 36 hours Value Added Course titled "Mushroom Cultivation Technology" (Course code: VBT1802).

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