

11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	No. of days C/L availed during the month	Total No. of C/L availed	REMARKS
----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	--	--------------------------	---------

DEPARTMENT OF BOTANY

ADD-ON-COURSE

MUSHROOM CULTIVATION
&
MARKETING



[Signature]
S. SOMANALEXANDER
PRINCIPAL
ST. GREGORIOUS COLLEGE
KOTTARAKKARA

MUSHROOM CULTIVATION AND MARKETING

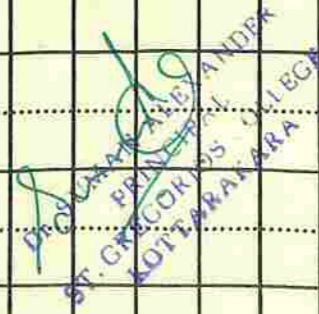
ATTENDANCE REGISTER - 2015-2016 ADD-ON-COURSE

Number	NAMES	No. of days casual leave already availed	Mat. Date	2015-2016										
				03/10/15		17/10/15		24/10/15		31/10/15		07/11/15		
				1	2	3	4	5	6	7	8	9	10	
1.	Karthika B. R			x	x	x	x	x	a	x	x	x	x	
2.	Aswaini Rajan			x	x	x	a	x	a	x	x	x	x	
3.	Athira M.G			x	x	x	x	x	x	x	x	x	x	
4.	Prajitha Praveen			x	x	a	x	x	x	x	x	x	a	
5.	Sreeremya. M			x	x	x	x	x	a	x	a	x	x	
6.	Lekshmi. R. Kurup			x	x	x	a	x	x	x	x	x	x	
7.	Anu. M. Shyju			x	x	x	x	x	x	x	x	x	a	
8.	Abin. G. Raju			x	x	a	x	x	a	x	x	x	x	
9.	Jyothilekshmi. A.S			x	x	x	x	x	x	a	x	x	x	
10.	Swathy. R. Suresh			x	x	x	a	x	x	x	x	x	x	
11.	Arula Surendran			x	x	x	x	x	a	x	x	x	x	
12.	Haripriya. U			x	x	x	x	x	x	x	x	x	x	
13.	Vepin. V. S			x	x	a	x	x	x	x	x	x	a	
14.	Aneena. Sen T. T			x	x	x	x	x	x	x	x	x	x	
15.	Anukrishna. S			x	x	x	x	x	a	x	x	x	x	
16.	Venitha. E			x	x	x	x	x	x	x	x	x	x	
17.	Abhijith. R			x	x	x	x	x	x	x	x	x	x	

15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31.

DEPARTMENT FOR THE MONTH OF20.....

| 2015-2016 | | 2016-2017 | | | | | | | | | | No. of days C/L availed during the month | Total No. of C/L availed | REMARKS | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------|---------|-----------|--------|---------|----|----|----|----|----|----|----|--|--------------------------|---------|----|----|----|----|----|----|----|----|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 30/12 | 23/1/16 | 30/1/16 | 6/2/16 | 20/2/16 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | | | | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | | | | | | | | | | | | | | | | | | |
| x | x | x | x | x | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| x | a | x | x | x | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| x | x | a | x | x | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| x | x | x | x | x | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| x | a | x | x | x | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| x | x | x | x | a | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| x | x | x | a | x | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| x | a | x | x | x | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| x | x | x | x | x | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| x | x | x | x | x | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| x | x | x | x | x | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| x | x | x | x | x | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| x | x | x | x | x | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| x | x | x | x | x | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



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2015-2016

ATTENDANCE REGISTER

| Number | NAMES | No. of days casual leave already availed | Eng. Date | | | | | | | | | | | | |
|---|----------------------|--|--------------------|----------|----------|----------|----------|-------|-------|-------|-------|-------|---|---|--|
| | | | 03/10/15 | 12/10/15 | 24/10/15 | 02/11/15 | 04/11/15 | 28/11 | 05/12 | 19/12 | 28/12 | 29/12 | | | |
| 18. | Rinju. T. Raju | | X | X | X | X | 2 | X | X | X | X | X | X | X | |
| 19. | Reshma Eligabeb Babu | | X | X | X | X | X | X | X | X | X | X | X | X | |
| 20. | Ancy Alex. | | X | X | X | X | X | X | X | X | X | X | X | X | |
| <i>Archana</i> | | | <i>Not present</i> | | | | | | | | | | | | |
| DR. ARCHANA. G.R
(Course co-ordinator) | | | | | | | | | | | | | | | |

DEPARTMENT FOR THE MONTH OF20.....

| No. | Eng. Date | | | | | | | | | | No. of days C/L availed during the month | Total No. of C/L availed | REMARKS | |
|-----|-----------|---------|---------|--------|---------|--|--|--|--|--|--|--------------------------|---------|--|
| | 30/12 | 23/1/16 | 30/1/16 | 6/2/16 | 20/2/16 | | | | | | | | | |
| 11 | X | X | X | X | X | | | | | | | | | |
| 12 | X | 2 | X | X | X | | | | | | | | | |
| 13 | X | 2 | X | X | X | | | | | | | | | |
| 14 | X | 2 | X | X | X | | | | | | | | | |
| 15 | X | X | X | X | 2 | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |

Not present

Principal
 PRINCIPAL
 ST. GREGORIOS COLLEGE
 KOTTARAKARA



MUSHROOM CULTIVATION AND MARKETING

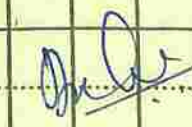
ATTENDANCE REGISTER - 2016-2017 **ADD-ON-COURSE**

| Number | NAMES | No. of days casual leave already availed | Mat. Date | Eng. Date | | | | | | | | | |
|--------|-----------------|--|-----------|-----------|----------|----------|------|-------|-------|-------|-------|-------|-------|
| | | | | 1/10/16 | 15/10/16 | 22/10/16 | 5/12 | 19/11 | 26/11 | 03/12 | 17/12 | 26/12 | 29/12 |
| 1. | ANJU ALEX | | | X | X | X | X | X | a | X | X | X | a |
| 2. | ASWATHY J | | | X | X | X | X | X | X | a | X | X | |
| 3. | LEKSHMI VIJIN | | | X | X | X | X | X | X | a | X | X | |
| 4. | VEENA .V | | | X | X | X | X | X | X | X | a | X | |
| 5. | RESHMA.U | | | X | X | X | X | X | a | X | X | X | |
| 6. | ALEENA RAJAN | | | X | X | X | X | X | a | X | X | X | |
| 7. | JYOTHILEKSHMI.S | | | X | X | X | a | X | X | X | X | a | |
| 8. | THARA A.T | | | X | X | X | X | X | X | a | X | X | X |
| 9. | LEKSHMI.R.NAIR | | | X | X | X | X | X | X | a | X | X | |
| 10. | RIFANA RAHIM.S | | | X | X | X | X | X | X | X | a | X | |
| 11. | ASWATHY ASHOK | | | X | X | X | X | X | a | X | X | X | |
| 12. | AMAL BABU | | | X | a | X | X | X | X | X | X | a | |
| 13. | ANANTHANATHAN.A | | | X | X | X | X | a | a | X | X | X | |
| 14. | ANCY ALEX | | | X | X | X | X | X | X | X | a | X | X |
| 15. | ADHERSH G.S | | | X | X | X | X | a | X | a | X | X | X |
| 16. | ATHIRA.A | | | X | X | X | X | X | a | X | X | X | X |
| 17. | PRINCY.L | | | X | X | X | X | X | X | X | X | X | X |
| 18. | RESHMA.R.S | | | X | X | X | X | X | X | X | a | X | X |

DEPARTMENT FOR THE MONTH OF20.....

| 28/12 | 21/11/16 | 28/11/16 | 04/12/16 | 15/12/16 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | No. of days C/L availed during the month | Total No. of C/L availed | REMARKS |
|-------|----------|----------|----------|----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--------------------------|---------|
| X | X | X | X | X | | | | | | | | | | | | | | | | | | | |
| X | X | X | X | X | | | | | | | | | | | | | | | | | | | |
| X | X | X | X | X | | | | | | | | | | | | | | | | | | | |
| X | X | X | X | X | | | | | | | | | | | | | | | | | | | |
| a | X | X | X | X | | | | | | | | | | | | | | | | | | | |
| a | X | X | X | X | | | | | | | | | | | | | | | | | | | |
| X | X | X | X | X | | | | | | | | | | | | | | | | | | | |
| X | X | X | X | X | | | | | | | | | | | | | | | | | | | |
| a | X | X | X | X | | | | | | | | | | | | | | | | | | | |
| X | X | X | X | X | | | | | | | | | | | | | | | | | | | |
| X | X | X | X | X | | | | | | | | | | | | | | | | | | | |
| X | X | X | X | X | | | | | | | | | | | | | | | | | | | |
| X | X | X | X | X | | | | | | | | | | | | | | | | | | | |
| X | X | X | X | X | | | | | | | | | | | | | | | | | | | |
| X | X | X | X | X | | | | | | | | | | | | | | | | | | | |
| X | X | X | X | X | | | | | | | | | | | | | | | | | | | |




Dr. Archana G.R
 (Course Co-ordinator)
ST. GREGORIOS COLLEGE
KOTTARAKKARA

28/12 21/11/16 28/11/16 04/12/16 15/12/16

MUSHROOM CULTIVATION AND MARKETING

ATTENDANCE REGISTER 2017-2018 ADD-ON-COURSE

| Number | NAMES | No. of days casual leave already availed | Eng. Date | ADD-ON-COURSE | | | | | | | | | | |
|--------|-------------------|--|-----------|---------------|---------|----------|---------|----------|----------|------|-------|-------|-------|---|
| | | | | 2/10/17 | 2/11/17 | 28/10/17 | 4/11/17 | 18/11/17 | 25/11/17 | 2/12 | 16/12 | 26/12 | 22/12 | |
| 1. | AMALA B. HARI | | | X | X | X | X | X | a | X | X | X | X | X |
| 2. | AMRUTHA H.S | | | X | X | X | a | X | X | X | X | X | X | X |
| 3. | ARATHY S. DEV | | | X | X | X | X | a | X | X | X | X | X | X |
| 4. | ARSHA SUNIL | | | X | X | X | X | X | a | X | X | X | X | X |
| 5. | NAVAMI J. KRISHNA | | | a | X | X | X | X | X | X | X | X | X | X |
| 6. | SONY SUNNY | | | X | X | X | X | X | a | X | X | X | X | X |
| 7. | PRIYA MATHEN | | | X | X | X | X | a | X | X | X | X | X | X |
| 8. | JESMI VARGHESE | | | X | a | X | X | X | X | X | X | X | X | X |
| 9. | GOPIKA .I | | | X | X | X | X | X | X | X | a | X | X | X |
| 10. | ANJALI KRISHNA | | | X | X | X | X | X | X | X | X | X | X | X |
| 11. | BIJITHA B. NAIR | | | X | X | X | X | X | X | X | X | X | X | X |
| 12. | ABHIJITH S | | | X | a | X | X | X | X | X | X | X | X | X |
| 13. | SANJAI K | | | X | a | X | X | X | X | X | X | X | X | X |
| 14. | DEVIKA D | | | X | X | X | X | X | X | X | X | X | X | X |
| 15. | ALPHIA S | | | X | X | X | X | X | X | X | X | X | X | X |
| 16. | ASWIN S | | | X | a | X | X | X | X | X | X | X | X | X |
| 17. | SWATHY J.A | | | X | X | X | X | X | X | X | X | X | X | X |

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DEPARTMENT FOR THE MONTH OF20.....

| 28/12 | 29/12 | 30/12 | 31/12 | 1/1 | 2/1 | 3/1 | 4/1 | 5/1 | 6/1 | 7/1 | 8/1 | 9/1 | 10/1 | 11/1 | 12/1 | 13/1 | 14/1 | 15/1 | 16/1 | 17/1 | 18/1 | 19/1 | 20/1 | 21/1 | 22/1 | 23/1 | 24/1 | 25/1 | 26/1 | 27/1 | 28/1 | 29/1 | 30/1 | 31/1 | No. of days C/L availed during the month | Total No. of C/L availed | REMARKS | | |
|-------|-------|-------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--------------------------|---------|--|--|
| X | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| a | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X | X | X | X | a | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



PRINCIPAL
ST. GREGORIOS COLLEGE
KOTTARAKARA

(Signature)
Dr. Archana B.R
Course Co-ordinator

(Handwritten notes in red at the bottom of the page)

| Number | NAMES | No. of days casual leave already availed | Eng. Date | ADD ON COURSE | | | | | | | | | |
|--------|--------------------|--|-----------|---------------|----------|----------|---------|----------|----------|-------|-------|-------|-------|
| | | | | 6/10/18 | 20/10/18 | 29/10/18 | 3/11/18 | 19/11/18 | 24/11/18 | 01/12 | 15/12 | 22/12 | 28/12 |
| 1. | ADHITHYA DEVI.S | | | X | Y | X | X | Q | X | Y | Y | Y | X |
| 2. | DEVIKA.S.JAYAKUMAR | | | Y | X | Y | Y | X | Q | X | X | Y | X |
| 3. | M.U.MEENAKSHI NAIR | | | X | X | Y | Y | X | X | X | X | X | X |
| 4. | AMRUTHA.P | | | X | X | Y | X | X | Q | Q | X | X | Y |
| 5. | SARANYA.A | | | X | X | X | Y | X | X | X | X | Y | X |
| 6. | ATHIRA.R.BALAN | | | X | X | Y | X | X | X | Y | X | Y | X |
| 7. | ANJU.M | | | Q | X | X | X | Y | X | X | X | Y | X |
| 8. | RAVEENA.R.S | | | X | X | X | X | Q | X | X | X | Y | X |
| 9. | THASNI.N | | | X | X | X | X | X | X | X | X | Y | X |
| 10. | JYOTHILAKSHMI.S | | | X | X | X | X | X | X | X | X | Y | X |
| 11. | JENCY JOY | | | X | X | Y | X | X | X | Y | X | Y | X |
| 12. | SRUTHI.S | | | X | X | X | X | X | X | Y | X | X | X |
| 13. | JEENA GEORGE | | | X | X | X | X | X | Q | X | X | Y | X |
| 14. | SYAMA.S | | | Q | X | X | X | X | X | X | X | X | X |
| 15. | SRUTHI.M.S | | | Q | X | X | X | X | X | X | X | X | X |
| 16. | ASHITHA.L | | | X | X | X | X | X | X | X | X | X | Q |
| 17. | AKHILA.M.BABU | | | X | Q | X | X | X | X | X | X | X | X |

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| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | No. of days C/L availed during the month | Total No. of C/L availed | REMARKS |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--------------------------|---------|
| | | | | | | | | | | | | | | | | | | | | | | | |
| X | Y | X | X | Y | | | | | | | | | | | | | | | | | | | |
| Y | Y | Y | Q | X | | | | | | | | | | | | | | | | | | | |
| X | X | X | X | X | | | | | | | | | | | | | | | | | | | |
| X | Q | Y | X | X | | | | | | | | | | | | | | | | | | | |
| X | X | X | X | X | | | | | | | | | | | | | | | | | | | |
| X | Y | Y | X | X | | | | | | | | | | | | | | | | | | | |
| Q | X | X | X | X | | | | | | | | | | | | | | | | | | | |
| X | X | X | X | X | | | | | | | | | | | | | | | | | | | |
| X | X | X | X | X | | | | | | | | | | | | | | | | | | | |
| X | X | X | X | X | | | | | | | | | | | | | | | | | | | |

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Principal, St. Gregorios College, Kottarakkara.

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ATTENDANCE REGISTER

(2018-19)

DEPARTMENT FOR THE MONTH OF20.....

| Number | NAMES | No. of days casual leave already availed | Mai. Date | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------|----------------|--|-----------|---------|--|----------|----------|---------|-------|-------|-------|-------|-------|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | Eng. Date | 6/10/18 | 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 6/10/18 | 24/10/18 | 22/10/18 | 3/11/18 | 10/11 | 24/11 | 01/12 | 15/12 | 22/12 | 28/12 | | | | | | | | | | | | | | | | | | | | | | |
| 18. | SONA.S | | X | X | X | X | X | X | X | a | X | X | | | | | | | | | | | | | | | | | | | | | | | | |
| 19. | HARITHRA S.G | | X | X | X | X | a | X | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | |
| 20. | CHINNU.S | | X | a | X | X | X | X | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | |
| 21. | ANUMOL.A | | X | X | X | X | X | X | X | X | X | a | | | | | | | | | | | | | | | | | | | | | | | | |
| 22. | ARYA.T.NAIR | | X | X | X | X | X | X | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | |
| 23. | SINJU SABU | | X | X | X | X | X | X | X | X | X | a | | | | | | | | | | | | | | | | | | | | | | | | |
| 24. | DEEPA.U | | a | X | X | X | X | X | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | |
| 25. | ANITHAKRISHNAN | | X | a | X | X | X | X | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | |

| DEPARTMENT FOR THE MONTH OF20..... | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | No. of days C/L availed during the month | Total No. of C/L availed | REMARKS | | | |
|--|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|--|--|--|--|--|--|--|--|--------------------------|---------|--|--|--|
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | | | | | | | | | | | | | | | | |
| X | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Dr. Archana G.R
(Course - Co-ordinator)



Principal
PRINCIPAL
ST. GREGORIOS COLLEGE
KOTTARAKARA

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MUSHROOM CULTIVATION AND MARKETING

ATTENDANCE REGISTER

2019-2020

ADD-ON COURSE

| Number | NAMES | No. of days casual leave already availed | Mat. Date | 5/10/19 | 19/10/19 | 28/10/19 | 02/11 | 16/11 | 23/11 | 30/11 | 21/12 | 23/12 | 24/12 |
|--------|-----------------------|--|-----------|---------|----------|----------|-------|-------|-------|-------|-------|-------|-------|
| | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 1. | ATHIRA. A. R | | | X | X | X | Y | a | X | X | X | X | X |
| 2. | ATHIRA KRISHNAN. A. R | | | X | X | X | X | X | X | X | X | X | X |
| 3. | KAVYA BIJUKUMAR | | | X | X | X | X | X | X | X | X | X | X |
| 4. | MEENU RAJ | | | X | X | X | X | a | X | X | X | X | X |
| 5. | PREETHI. P. V | | | X | X | X | a | X | X | X | X | X | X |
| 6. | RISHIKA B. S | | | X | X | X | X | X | X | X | X | X | X |
| 7. | SRUTHY SAJIKUMAR | | | X | X | a | X | X | X | X | X | X | X |
| 8. | VIDHU. R. KRISHNA | | | X | X | X | X | X | X | X | X | X | X |
| 9. | APARNA. R | | | X | X | X | X | X | X | X | X | X | X |
| 10. | ANSY. R | | | X | X | X | X | X | X | X | X | X | X |
| 11. | ARUNIMA. J. KRISHNAN | | | X | X | X | X | X | X | X | X | X | X |
| 12. | ARYA KRISHNAN. A. R | | | X | X | X | X | X | X | a | X | X | X |
| 13. | ASMIN. R | | | X | X | X | X | X | X | X | X | X | X |
| 14. | AMRUTHA. A | | | X | X | X | X | X | X | X | X | X | X |
| 15. | NU JOODH NAJEEB | | | X | X | X | X | X | X | X | X | X | a |
| 16. | NAHLA ANSARI | | | X | X | X | X | X | X | a | X | X | X |
| 17. | ATHIRA U. G | | | X | X | X | X | X | X | X | X | X | a |

Ab Ab Ab Ab Ab Ab Ab Ab Ab Ab

DEPARTMENT FOR THE MONTH OF

20.....


| 29/12 | 18/12 | 22/12 | 29/12 | 7/01 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | No. of days C/L availed during the month | Total No. of C/L availed | REMARKS |
|-------|-------|-------|-------|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--------------------------|---------|
| X | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | |
| X | X | X | a | X | | | | | | | | | | | | | | | | | | | | | | | | |
| X | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | |
| X | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Y | a | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Y | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | |
| X | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Y | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | |
| X | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Y | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | |
| X | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Y | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | |
| X | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | |
| X | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | |




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29/12 18/12 22/12 29/12 7/01

ATTENDANCE REGISTER

| Number | NAMES | No. of days casual leave already availed | Eng. Date | | | | | | | | | | 29/12 | 31/12 | 25/12 | 28/12 | 31/12 | |
|--|--------------------|--|---|---|---|---|---|---|---|---|---|----|-------|-------|-------|-------|-------|---|
| | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | | | | | |
| 18. | ANJALI KRISHNAN | | X | X | X | X | X | X | X | X | a | X | X | X | X | X | X | X |
| 19. | ARSHA.R | | X | a | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 20. | GOPIKA.S | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 21. | AALIYA ROSE.B | | X | a | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 22. | LEKSHMI CHANDRAN.S | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | | | <i>Handwritten notes in red ink</i> | | | | | | | | | | | | | | | |
| <p><i>Dr. Archana G.R</i>
 (Course co-ordinator)</p> | | | <i>Handwritten signature in green ink</i> | | | | | | | | | | | | | | | |
| | | | <p>PRINCIPAL
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 KOTTARAKARA</p> | | | | | | | | | | | | | | | |
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REPORT

MUSHROOM CULTIVATION AND MARKETING

Mushroom cultivation offers benefits to market gardens when it is integrated into the existing production system. Many people are intrigued by mushrooms' nutritional and medicinal properties, in addition to their culinary appeal. Mushrooms contain many essential amino acids. As a group, mushrooms also contain some unsaturated fatty acids, provide several of the B vitamins, and vitamin D. Some even contain significant vitamin C, as well as the minerals potassium, phosphorus, calcium, and magnesium.

The market for mushrooms continues to grow due to interest in their culinary, nutritional, and health benefits. They also show potential for use in waste management. Hence, keeping in mind the above aspects an add-on course on Mushroom cultivation and marketing is being conducted by the Botany Department, S.G College, Kottarakara. As part of the add-on course classes were taken for the selected students on mushroom cultivation, its importance and marketing. Students also participated in the workshop on mushroom cultivation at KVK, Sadanandapuram. A demonstration was also arranged for the easy preparation of mushroom beds. The following aspects were dealt.

Growing Mushrooms

Mushroom production is completely different from growing green plants. Mushrooms do not contain chlorophyll and therefore depend on other plant material (the "substrate") for their food. The part of the organism that we see and call a mushroom is really just the fruiting body. Unseen is the mycelium—tiny threads that grow throughout the substrate and collect nutrients by breaking down the organic material. This is the main body of the mushroom. Generally, each mushroom species prefers a particular growing medium, although some species can grow on a wide range of materials.

However, indoor mushroom production demands a much higher level of knowledge, continuous monitoring, and timely manipulation of environmental conditions. Producing nutritious food at a profit, while using materials that would otherwise be considered "waste," constitutes a valuable service in the self-sustaining community we might envision for the future.



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These are the steps in mushroom production- a cycle that takes about 15 weeks (time varies by species) from start to finish.

Choosing a growing medium

Pasteurizing or sterilizing the medium

Seeding the beds with spawn

Maintaining optimal temperature, moisture, and other conditions for mycelium growth and the conditions that favor fruiting

Harvesting, packaging, and selling the mushrooms

Cleaning the facility and beginning again.

The substrate on which the mushrooms will fruit must be sterilized or pasteurized in order to destroy any fungal and/or bacterial competitors. While the mycelium is growing—and until it fully occupies the substrate—the mushroom farmer typically manipulates the growing environment to favour mycelial growth. The atmospheric conditions are then changed to initiate “pinheads,” and then to complete fruiting. Agricultural wastes like cornstalks, wheat straw, or rice straw can be used as growing media for oyster mushrooms. After harvest, the spent substrate can be recycled as fodder or mulch for garden soils.

Purchase spawn that will grow on materials you have available.

Choose the species to grow.

Oyster mushrooms are your best choices.

Species for Beginners

Oyster mushrooms (*Pleurotus* species) are a good choice for beginning mushroom cultivators because they are easier to grow than many of the other species, and they can be grown on a small scale with a moderate initial investment. Although commonly grown on sterile straw from wheat or rice, they will also grow on a wide variety of high-cellulose waste materials. Some of these materials do not require sterilization, only pasteurization, which is less expensive.



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Another advantage of growing oyster mushrooms is that a high percentage of the substrate converts to fruiting bodies, increasing the potential profitability.

Oyster mushrooms can become an integral part of a sustainable agriculture system. Many types of organic wastes from crop production or the food processing industry can be used to support oyster mushroom production. However, because of the short shelf life of many oyster mushroom varieties, this species may offer a special advantage to the local grower who markets directly and can consistently deliver a fresh, high-quality product.

Pest Management

If you know the life cycle of each problem organism, you can take measures to make it hard or impossible for it to complete its life cycle. You may be able to encourage natural enemies that will keep the population below the economically damaging threshold.

Mushroom flies, a common pest among many cultivated mushrooms, are attracted to the smell of decaying vegetation such as mushroom substrates. Screening the mushroom house ventilation system will keep adult flies out. Double doors and positive atmospheric pressure within the structure also prevent flies from entering. Since adult fungus flies are drawn to standing pools of water on benches, walks, or floors, places where water can collect should be eliminated.

Marketing Mushrooms

Marketing is the most important consideration of all. If you can't sell your mushrooms at a price that ensures a reasonable profit margin, you don't want to invest in this enterprise. Spend some time—and even some money—educating yourself about marketing your potential product. Make the market drive your production. Talk to potential buyers about volume and prices.

Explore various marketing options: brokers, distributors, farmers' markets, restaurants, grocery stores, food service operations, and co-ops.

Check the local situation on your own. Some common methods for conducting initial research include observation of buyers, surveys of stores, personal interviews with growers, and



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test marketing. Another function of market research is to evaluate the competition. To find out more about your competitors, use their products. Talk to them.

Market the fresh or dried product directly to your customers

Add value to the mushroom by creating processed products (mushroom sauces, dried entrée mixes, teas, extracts)

Wholesale as fresh produce (on contract or by the batch)

Direct marketing

If you can sell your mushrooms or mushroom products directly to an end user, you will naturally receive a better price than if you sell to a wholesaler. Direct marketing of mushrooms at local farmers' markets, to restaurants, or in supermarkets is possible in many locations. When competing in local markets, excellent service, top quality, and consistent supply, rather than the lowest price, might win the sale, particularly with gourmet chefs. Some chefs specialize in locally grown foods and may be interested for that reason. Others are willing to pay for fresh, premium produce. In any case, establishing a relationship with the buyer and reliably delivering a quality product are essential for this type of marketing. Local grocery stores are another potential buyer of fresh mushrooms. Locally-grown oyster mushrooms have an advantage because oysters have a very limited shelf life and are too fragile to ship easily. The grower with direct, local sales can supply a fresher product that arrives in better condition.

Wholesale markets

Selling fresh mushrooms to a wholesaler will mean a lower price than if you market directly. However, for growers who choose not to involve themselves in direct sales, there are established wholesale markets for mushrooms.

Adding Value to Fresh Mushrooms

Adding value to fresh mushrooms usually means either developing a processed product, such as a sauce, or drying surplus mushrooms for sale in the off-season, when prices are higher. A value-added product can be sold either directly to the consumer or to wholesalers.



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Importance of mushroom cultivation

Mushrooms are being used as food and medicine from ancient years. Mushroom contains all essential amino acids, vitamin B complex, iron, calcium, potassium, phosphorous, folic acid and other biochemical compounds. It is also a good source of dietary fibre. Helps in boosting immune system. It is good for cholesterol problems, heart diseases, diabetic and cancer patients.

Mushroom cultivation has now become a source for income generation since there is a large demand for healthy and quality food products. Many value added products are also obtained. The cultivation procedure involves only a small initial capital and all the year round production is there. It is an eco-friendly agricultural practice. Here agricultural waste products can be used as the substrate.

Aim of the study

- Provides a means of income generation.
- Identifying the edible and poisonous mushrooms.
- Hands-on training will be provided for preparation of bed for mushroom cultivation and its harvesting, post harvesting management and the pests and diseases of Mushrooms.
- Awareness of the international marketing trends of Mushrooms
- Lecture classes by experts in the field of mushroom cultivation.
- Visit to a mushroom cultivating area.




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SYLLABUS

MUSHROOM CULTIVATION AND MARKETING-30Hrs

UNIT I

- Introduction: General History, Edible mushrooms and Poisonous mushrooms.
- Common Indian mushrooms.
- Nutritional value, medicinal value and advantages.
- Systematic position, morphology, distribution, structure and life cycle of *Agaricus*.

UNIT II

- Cultivation: Paddy straw mushroom – substrate, spawn making.
- Methods – bed method, polythene bag method, field cultivation.
- Oyster mushroom cultivation – Substrate, spawning, pre-treatment of substrate.

UNIT III

- Maintenance of mushroom.
- Diseases- Common pests, disease prevention and control measures.
- Processing - Blanching, steeping, sun drying, canning, pickling, freeze drying.
- Storage – short term and long term storage.

UNIT IV

- Production level, economic return, Foreign exchange from Mushroom cultivating countries and international trade.

Field Study: Visit to a mushroom cultivating Laboratory

REFERENCES

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2. Kaul T N 2001. Biology and conservation of mushrooms. Oxford and IBH publishing company N.Delhi
3. Gupta P.K. Elements of Biotechnology.
4. Harander Singh. 1991. Mushrooms- The Art of Cultivation- Sterling Publishers.
5. Indian Journal of Mushrooms. Published by I.M.G.A. Mushroom Research Laboratory. College Agriculture, Solan




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ST. GREGORIOS COLLEGE KOTTARAKKARA

DEPARTMENT OF BOTANY

ADD-ON
COURSE ON
MUSHROOM
CULTIVATION



MAY
30th
2019
Thursday

Time: 10.30 am

DR. A.V MATHEW
ASSOCIATE DIRECTOR (Rtd)
KERALA AGRICULTURAL UNIVERSITY

VENUE COLLEGE A/C SEMINAR HALL




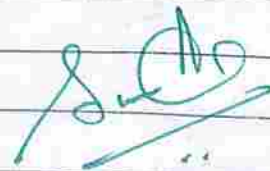
S. A. N.
PRINCIPAL
ST. GREGORIOS COLLEGE
KOTTARAKKARA

MUSHROOM CULTIVATION AND MARKETING

COURSE CODE : BO-MC-1

| S. No. | NAME OF THE STUDENT | MARKS (OUT OF 100) |
|--------|-----------------------|--------------------|
| 1. | KARTHIKA B.R | 87 |
| 2. | ASWAINI RAJAN | 92 |
| 3. | ATHIRA M.G | 95 |
| 4. | PRAJITHA PRAVEEN | 88 |
| 5. | SREEREMYA.M | 96 |
| 6. | LEKSHMI.R.KURUP | 90 |
| 7. | ANU.M.SHYJU | 91 |
| 8. | ABIN.G.RAJU | 84 |
| 9. | JYOTHILEKSHMI.A.S | 90 |
| 10. | SWATHY.R.SURESH | 89 |
| 11. | ANILA SURENDRAN | 91 |
| 12. | HARIPRIYA.U | 92 |
| 13. | VIPIN V.S | 85 |
| 14. | ANEENA SEN T.T | 94 |
| 15. | ANUKRISHNA.S | 90 |
| 16. | VINITHA.E | 96 |
| 17. | ABHIJITH.R | 98 |
| 18. | RINJU.T.RAJU | 96 |
| 19. | RESHMA ELIZABETH BABU | 91 |
| 20. | ANCY ALEX | 92 |


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 (Course Co-ordinator)




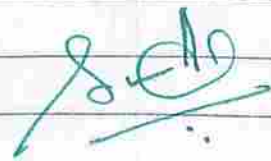
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GREGORIOS COLLEGE, KOTTARAKARA
ADD-ON COURSE EXAMINATION- MARCH 2017 - MARK LIST
MUSHROOM CULTIVATION AND MARKETING
COURSE CODE: BO-MC-1

| S.No. | NAME OF THE STUDENT | MARKS (OUT OF 100) |
|-------|---------------------|--------------------|
| 1. | ANJU ALEX | 94 |
| 2. | ASWATHY J | 93 |
| 3. | LEKSHMI VISIN | 96 |
| 4. | VEENA V | 92 |
| 5. | RESHMA U | 91 |
| 6. | ALEENA RAJAN | 93 |
| 7. | JYOTHILEKSHMI S | 94 |
| 8. | THARA A.T | 98 |
| 9. | LEKSHMI R. NAIR | 98 |
| 10. | RIFANA RAHIM S | 96 |
| 11. | ASWATHY ASHOK | 98 |
| 12. | AMAL BABU | 84 |
| 13. | ANANTHANATHAN A | 83 |
| 14. | ANCY ALEX | 92 |
| 15. | ADHERSH G.S | 83 |
| 16. | ATHIRA A | 89 |
| 17. | PRINCY L | 90 |
| 18. | RESHMA R.S | 92 |


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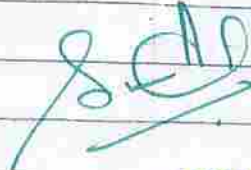
ST. GREGORIOS COLLEGE, KOTTARAKARA
ADD-ON COURSE EXAMINATION - MARCH 2018 - MARK LIST
MUSHROOM CULTIVATION AND MARKETING

COURSE CODE: BO-MC-1

| S.No. | NAME OF THE STUDENT | MARKS (OUT OF 100) |
|-------|---------------------|--------------------|
| 1. | AMALA B. HARI | 92 |
| 2. | AMRUTHA H.S | 93 |
| 3. | ARATHY S. DEV | 94 |
| 4. | ARSHA SUNIL | 98 |
| 5. | NAVAMI J. KRISHNA | 92 |
| 6. | SONY SUNNY | 92 |
| 7. | PRIYA MATHEW | 93 |
| 8. | JESMI VARGHESE | 92 |
| 9. | GOPIKA I | 92 |
| 10. | ANJALI KRISHNA | 91 |
| 11. | BIJITHA B. NAIR | 91 |
| 12. | ABHIJITH S | 90 |
| 13. | SANJAI K | 89 |
| 14. | DEVIKA D | 94 |
| 15. | ALPHIA S | 92 |
| 16. | ASWIN S | 89 |
| 17. | SWATHY J. A | 88 |
| 18. | ATHIRA B | 92 |
| 19. | ATHIRA A.R | 93 |
| 20. | SARAYU SAJU | 89 |
| 21. | ARYA U.P | 98 |
| 22. | ARDRA S.B | 98 |
| 23. | SHEFEEK S | 89 |
| 24. | DEVIKA G | 95 |
| 25. | NIKHITHA M.R | 92 |


Dr. Archana G.R.
(Course Coordinator)





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MUSHROOM CULTIVATION AND MARKETING
 COURSE CODE : BO-MC-1

| S.NO | NAME OF THE STUDENT | MARKS (OUT OF 100) |
|------|---------------------|--------------------|
| 1. | ADHITHYA DEVI.S | 95 |
| 2. | DEVIKA.S. JAYAKUMAR | 89 |
| 3. | M.U. MEENAKSHI NAIR | 88 |
| 4. | AMRUTHA.P | 89 |
| 5. | SARANYA.A | 90 |
| 6. | ATHIRA.R. BALAN | 91 |
| 7. | ANJU.M | 92 |
| 8. | RAVEENA.R.S | 89 |
| 9. | THASNI.N | 90 |
| 10. | JYOTHILAKSHMI.S | 95 |
| 11. | JENCY JOY | 96 |
| 12. | SRUTHI.S | 90 |
| 13. | JEENA GEORGIE | 91 |
| 14. | SYAMA.S | 89 |
| 15. | SRUTHI.M.S | 90 |
| 16. | ASHITHA.L | 91 |
| 17. | AKHILA.M. BABU | 90 |
| 18. | SONA.S | 89 |
| 19. | HARITHRA S.G | 92 |
| 20. | CHINNU.S | 90 |
| 21. | ANUMOL.A | 90 |
| 22. | ARYA.T. NAIR | 91 |
| 23. | SINJUSABU | 93 |
| 24. | DEEPA.U | 94 |
| 25. | ANITHA KRISHNAN | 95 |

Dr. Archana G.R.

Dr. Archana G.R.
 (Course Co-ordinator)

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GREGORIOS COLLEGE, KOTTARAKARA
ADD-ON COURSE EXAMINATION - MARCH-2020 - MARK LIST
MUSHROOM CULTIVATION AND MARKETING

COURSE CODE : BO-MC-1

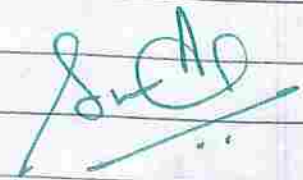
| S.No. | NAME OF THE STUDENT | MARKS (OUT OF 100) |
|-------|----------------------|--------------------|
| 1. | ATHIRA. A.R | 90 |
| 2. | ATHIRA KRISHNAN A.R | 91 |
| 3. | KAVYA BIJUKUMAR | 93 |
| 4. | MEENU RAJ | 91 |
| 5. | PREETHI. P. V | 92 |
| 6. | RISHIKA B.S | 94 |
| 7. | SRUTHY SAJIKUMAR | 93 |
| 8. | VIDHU. R. KRISHNA | 95 |
| 9. | APARNA. R | 92 |
| 10. | ANSY. R | 89 |
| 11. | ARUNIMA. J. KRISHNAN | 91 |
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| 15. | NUJOODH NAJEEB | 89 |
| 16. | NAHLA ANSARI | 93 |
| 17. | ATHIRA U.GI | 92 |
| 18. | ANJABI KRISHNAN | 94 |
| 19. | ARSHA. R | 91 |
| 20. | GOPIKA. S | 91 |
| 21. | AALIYA ROSE. B | 92 |
| 22. | LEKSHMI CHANDRAN. S | 93 |



Dr. Archana G. R.

(Course Co-ordinator)





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