NIRMALA COLLEGE MUVATTUPUZHA

IRMALA CO

Muvattupuzha P. O., Ernakulam Dist., Kerala - 686 661 Telephones:0485 2832361, 2836300 e-mail:nirmalacollege@gmail.com, Website: www.nirmalacollege.ac.in

FOURTH CYCLE NAAC ACCREDITATION 2019

CRITERION 1

CURRICULAR ASPECTS

1.1.2. Number of certificate/diploma program introduced during last five years

MCCC14 CERTIFICATE COURSE-MUSHROOM CULTIVATION





THE NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

CRITERION 1 CURRICULAR ASPECTS

MCCC14 CERTIFICATE COURSE-MUSHROOM CULTIVATION

1.SYLLABUS

- 2. STUDENTS LIST
- **3.** ATTENDANCE REGISTER
- 4. ASSESSMENT PROCEDURE
- **5. SUMMARY REPORTS**
- 6. CERTIFICATE
- 7. BROCHURE
- 8. MINUTES

CERTIFICATE COURSE ON

MUSHROOM CULTIVATION

Course code: CRCO1

Duration: 30 Hours

Course Objectives:

- Enable the students to identify edible and poisonous mushrooms
- Provide hands on training for the preparation of bed for mushroom cultivation and spawn production
- Give the students exposure to the experiences of experts and functioning mushroom farms
- Help the students to learn a means of self employment and income generation

Course outcome:

By successfully completing the course, students will be able to:

- Identify edible types of mushroom
- Gain the knowledge of cultivation of different types of edible mushroomsand spawn production
- Manage the diseases and pests of mushrooms
- Learn a means of self-employment and income generation

Syllabus

Module 1: Introduction to mushrooms (2 hours)

Mushrooms -Taxonomical rank -History and Scope of mushroom cultivation - Edible and Poisonous Mushrooms-Vegetative characters

Module 2: Common edible mushrooms (2 Hours)

Button mushroom (*Agaricus bisporus*), Milky mushroom (*Calocybe indica*), Oyster mushroom (*Pleurotus sajorcaju*) and paddy straw mushroom (*Volvariella volvcea*).

Module 3: Principles of mushroom cultivation (8 Hours)

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.

Module 4:Health benefits of mushrooms(2 Hours)

Nutritional and medicinal values of mushrooms. Therapeutic aspects- antitumor effect

Module 5:Post harvest technology: (4 Hours)

Preservation of mushrooms - freezing, dry freezing, drying, canning, quality assurance and entrepreneurship.Value added products of mushrooms.

Module 6: Training/ Workshop/ Field visit(12 Hours)

Sterilization and sanitation of mushroom house, instruments and substrates

Preparation of mother culture, media preparation, inoculation, incubationand spawn production

Cultivation of oyster mushroom using paddy straw/agricultural wastes

References

1. Marimuthu, T. et al. (1991). Oster Mushroom. Department of Plant Pathology. Tamil Nadu Agricultural University, Coimbatore.

2. Nita Bhal. (2000). Handbook on Mushrooms. 2nd ed. Vol. I and II. Oxford and IBH Publishing Co. Pvt. Ltd., New Delhi

3. Pandey R.K, S. K Ghosh, 1996. A Hand Book on Mushroom Cultivation. Emkey Publications.

4. Pathak, V. N. and Yadav, N. (1998). Mushroom Production and Processing Technology. Agrobios, Jodhpur.

5. Tewari Pankaj Kapoor, S. C. (1988). Mushroom Cultivation. Mittal Publication, New Delhi.

6. Tripathi, D.P. (2005) Mushroom Cultivation, Oxford & IBH Publishing Co. PVT.LTD, New Delhi.

7. V.N. Pathak, Nagendra Yadav and Maneesha Gaur, Mushroom Production and Processing Technology/ Vedams Ebooks Pvt Ltd., New Delhi (2000)

<u>2014-2015</u>

Students list

- 1. TESSY MATHEW
- 2. SWATHY KRISHNAN
- 3. SURYA BABU
- 4. SULEKHA J. BACKER
- 5. SHAHARBAN M.P
- 6. MUHSINA MUHAMMED
- 7. MUHASINA P.A
- 8. JYOTHY K.V
- 9. JOSEMIN CHACKO
- 10. JOODY JOHNY
- 11. JOMON GEORGE
- 12. HELEN MARY JOSE
- 13. DINIMOL T. GEORGE
- 14. DEVAPRIYA DILEEP
- 15. BEFSY CHACKO MATHEW
- 16. ATHIRA M
- 17. ASWATHY BABU
- 18. ASHNA MUHAMMED
- 19. ANJUMOL RAJAAPAN
- 20. ANJU PETER
- 21. ANJITHA V.K
- 22. ANAY JOSE
- 23. ALPHONSA GEORGE
- 24. AISWARIA KRISHNAN
- 25. AFRIN HAMMED
- 26. NEETHU P.R
- 27. MITHUN M.S
- 28. KRISHNAPRIYA M.K
- 29. JISSY THOMAN
- 30. DILSHA HILARI
- 31. BINCY ELSA BABU
- 32. ASHLY MARY JOSEPH
- 33. AMALU JOSHY
- 34. ALLU G LAL
- 35. ABHILASH CM
- 36. ALBY JOSE
- 37. ANIT JAMES
- 38. ANITHA JOHN
- 39. DINA JOSE
- 40. JAISON J MYLADOOR
- 41. JILU JOSEPH
- 42. JISIN JOSEPH

43. KRISHNAJA NARAYANAN 44. KRISHNAPRIYA KS 45. LAVINA JOSEPH 46. PADMASREE JAIN 47. RESMA P SAJU 48. RESMIK.S 49. SARANYA V.K 50. SETHULAKSHMI K.D 51. SURJITH K.M 52. VARSHA SAJEEVAN 53. ALEENA K NOBLE 54. ANITHA JAMES 55. ANUMOL AUGUSTINE 56. ATHIRA SASEENDHARAN 57. BILBY BABY 58. CHIPPY V.J 59. HUSSNA M NASSAR 60. JACKS M JAMES **61. JENTOL MATHEW** 62. JIJIL GEORGE 63. SHEENAMOL V H 64. SHIBINA SHAJI 65. SIJI MANCY BABU 66. SILPA KR 67. SIMNA AK 68. SRUTHI SIVAN 69. SUJITH P RAVI 70. ACHU SREKUMAR 71. AIDA BASIL 72. AISWARIYA PREMAN 73. ANIJA K S 74. ANITTA MARY JOHN 75. ANJALY S NAIR 76. ANJU VARGHESE 77. ANNMARIA JOSE 78. ANTONY BINOY 79. ANULEKHA P V 80. ATHIRA SATHYAN 81. BASIL SAJI 82. DEEPTHI NAIR 83. DEVI N 84. DONY SABU 85. HARIKRISHNAN K 86. INDHU V 87. JENNY KURIAKOSE 88. JILS PAUL 89. ASHA SAJI 90. AMAL JOSE





<u>CERTIFICATE COURSE – MUSHROOM CULTIVATION</u> <u>2015- 2016</u>

Students list

- 1. Vishnu K.S
- 2. Tilbin Thomas
- 3. Sruthi .S
- 4. Souparnika T Prakash
- 5. Sebin Thankachan
- 6. Sarath Kumar K. N
- 7. Rehmanath R
- 8. R. Ballu Raj
- 9. Preetha Jose
- 10. Nimitha C. S
- 11. Neethu Joseph
- 12. Nainu Irin Jose
- 13. Mebin George
- 14. Martin Thomas
- 15. Jobin .k. Jacob
- 16. Jishnu Biju
- 17. Jesbin Jacob
- 18. Jeffin Xavier
- 19. Jasna Nazeer
- 20. Haritha Ramachandran
- 21. Hanna Fathima
- 22. Gopika P Das

23. Geethu Gopi
24. Feras Law Bronson
25. Augusti ne Mathew
26. Ashly Mathew
27. Arun Sabu
28. Archana S Kumar
29. Anu Maria George
30. Anjali Santhosh
31. Ameena Sunil
32. Treesa Jose
33. Suminamol Majeed
34. Stella Mariya Stephan
35. Rohan Stanley
36. Rensy A S
37. Rani James
38. Ninu Sebastain
39. Nandhu Sasi
40. Monse Michael
41. Mary Rafflesia Chackochan
42. Keerthana Aswathi
43. Jilsa Jose
44. Jilby K Jose
45. Jewal Raju Thottam
46. Honey E B
47. Haritha Hari

48. Ginu Emmanuel
49. Geethu Kuriachan
50. Geethu Priya V
51. Gayathri M D
52. Clinton Kuriakose
53. Chippy Shaji
54. Charles Abraham
55. Beema Aliyar
56. Arya Vidhyadharan
57. Anoop Jose
58. Ann Treesa Babu
59. Anjali Rajan
60. Amitha Prasad
61. Amalu Balan
62. Alphy Benny
63. Ajeesh K C
64. Rincy Abraham
65. Akhiya Pavi
66. Muhasina Moosa
67. Keerthy Narayanan
68. Akshya Babu
69. Ann Mohan
70. Anupriya P R
71. Anusha A P
72. Ashifa M A

73. Ashly M J

- 74. Basil George
- 75. Eldhose Mathew
- 76. Geethu Babu
- 77. Jisna Jolly Mathew
- 78. Jincy Joy
- 79. Jibin James
- 80. Jesna Ibrahim
- 81. Gisna George
- 82. Helty Thomas
- 83. Joama Mathew
- 84. Mahin P S
- 85. Metty Thomas
- 86. Namitha Mariya Jose
- 87. Rasla A M
- 88. Reshma N K
- 89. Shilpa K S
- 90. Elby Abraham
- 91. Amal Joseph
- 92. Vishnu K S
- 93. R Balu Raj
- 94. Anjali Santhosh
- 95. Jeffin Xaviour



<u>2016-2017</u>

Students list

- 1. Tomcy Joseph
- 2. Aiswarya G
- 3. Amala Jose
- 4. Sruthy Mohan
- 5. Salma Raju
- 6. Aneena Jose
- 7. Anjaly S K
- 8. Ardra Subash
- 9. Arya A Ravikumar
- 10 Ashif Haja
- 11. Muhammed Shameem M
- 12. Minnu Mary Jaison
- 13. Merlin Varghese
- 14. Mahesh M V
- 15. Hariprasad S
- 16 Amal P G
- 17. Beema Mujeeb
- 18. Heera V S
- 19. Fasna K Salim
- 20. Krishnapriya E R
- 21. Maria John
- 22. Merlin Mary Joy

23.	Nisa Jaison
24.	Rathika Mol P R
25.	Reshmi Satheesh Babu
26.	Sneha Saju
27.	Sruthy Rajan
28.	Aiswarya S
29.	Aleena Jose
30.	Amalda Bercy
31.	Jessy Varghese
32.	Jeeva gijo
33.	Ance Maria Joy
34.	Aneena Ayappan
35.	Angel Jolly
36.	Anjitha Pradeep
37.	Aswathy K B
38.	Aysha M Latheef
39.	Charu Mariet Benny
40.	Dona Antony
41.	Emil Mathew
42.	Ganga Johny
43.	Hairunisa O A
44.	Sandra Tom
45.	Tissa Shaju
46.	Abhinav S
47.	Aisha Mol P U
48.	Beema T A
49.	Bharath Prasad K

50.	Bobin Mathew
51.	Aswathy C A
52.	Asharami S
53.	Arya Viswanath
54.	Arya Shaji
55.	Akhila K R
56.	Akshya Sara George
57.	Aleena Alex
58.	Aletta Maria Thomas
59.	Almiya Assiss
60.	Arun George
61.	Almy Kabeer
62.	Anitta Benny
63.	Anitta Dominic
64.	Anju Jose
65.	Fathima A
66.	Arya P R
67.	Akshara Velayudhan
68.	Ancy Stephan
69.	Arunima Sasi

- 70 Aswathy Pushpan
- 71. Alphin Rose Mathew
- 72. Aju Thankappan
- 73. Sanju C Sunny
- 74. Hari Govind J
- 75. Muhammed Asath
- 76. Riyas Muhammed N H

77.	Athira M M
78.	Insha M M
79.	Fisna Mathew
80.	Jisna Jose
81.	Lakshmi Ramesh
82.	Lakshmi V J
83.	Limisha K Muhammed
84.	Joicy P Johny
85.	Jubairiyath A
86.	Sandra V Sathyan
87.	Abeena K H
88.	Preethi K Paulose
89.	Nivea Francis

90. Anjana Krishnan





<u>2017-2018</u>

<u>Students list</u>

- 1. Akash Shine Thomas
- 2. Dybin George
- 3. Anjitha Binu
- 4. Ammu Ashokan
- 5. Aleena Joy
- 6. Anagha Mary Thomas
- 7. Aneesh Subair
- 8. Anjana Subash
- 9. Ashna P Salim
- 10. Anjana Sen
- 11. Ann Mary Vincent
- 12. Ashna Sunny
- 13. Juby Baby
- 14. Aranya Mol Balan
- 15. Aswathy Appukuttan
- 16. Neethumol S
- 17. Sreeya Sajan
- 18. Dooniya Johnson
- 19. Syalini Sivan
- 20. Fathima Muhammed

21.	Thushara Ramakrishan
22.	Gini Augustine
23.	Hilda Jose
24.	Vishnu Priya
25.	Maheswari G Thoppil
26.	Muneera Moosa
27.	Naveena Das
28.	Nimmy John
29.	Sruthi K
30.	Sumayya Yousef
31.	Abbdul Razak K
32.	Amal C M
33.	Jishnu G
34.	Mathew Thomas
35.	Muhamed Fayiz C
36.	Renjith M R
37.	Abnisha Shareef
38.	Rose Mary Jose
39.	Alfina M S
40.	Nesi Yousef
41.	Anjana K Ajayan
42.	Anna Baby
43	Mareena Chackochan
44	Fathima Bishara

45.	Keerthana P
46.	Greeshma Shaji
47.	Fathima M J
48.	Fathimath T A
49.	Baby Krishna P K
50.	Geethu Krishnankutty
51.	Johncy Joy
52.	Aruna Mathew
53.	Ardhra Jacob
54.	Leema Rose Mathew
55.	Anjumol N S
56.	Merin Francis
57.	Aganus T Sebastian
58.	Urmila Antony
59.	Ruksana A S
60.	Abhirami C Nair
61.	Sajla Salin A P
62.	Thasni P M
63.	Shahana Ahammed
64.	Surya N R
65.	Soumya Ramakrishnan
66.	Keerthi Raju
67.	Sruthy Kunjappan
68.	Emmanuel George

- 69. Jerry Thomas70. Aleena Shaji71. Arya M S
- 72. Vishnu Sukumaran
- 73. Amina C E
- 74. Aliga Bastin
- 75. Jerin John
- 76. Naveen Nelson
- 77. Ankitha Jose
- 78. Aparna Sabu
- 79. Reshma S
- 80. Anakha Sharma
- 81. Anna K Thomas
- 82. Georgekutty K G
- 83. Arya Krishnan
- 84. Aleena Jose
- 85. Swarna Vinod
- 86. Malutty Asokan
- 87. Rinu Babu
- 88. Amriya Raju



<u>2018-2019</u>

<u>Students list</u>

- 1. Mahesh Pavithran
- 2. Anjitha Jagadesan
- 3. Sreelekha S G
- 4. Aniemol T S
- 5. Sangeetha N S
- 6. Amrutha Rajan
- 7. Alfiya Navas
- 8. Jiyas V J
- 9. Anjo Paul John
- 10. Mahin P Y
- 11. Ajanya Venu
- 12. Anupriya Mathew
- 13. Ashly M A
- 14. Bineetha Mol M B
- 15. Devika Laiju
- 16. Nakul Naijo
- 17. Siyana S A
- 18. Srruthy Kumaran
- 19. Sumi Joy
- 20. Arsha Venugopal

21.	Soosan P Issac
22.	Arathy Aji
23.	Amala Shaji
24.	Sreepriya Sajeev
25.	Aswathy R Kartha
26.	Devachandana C
27.	Sravan K P
28.	Anita Binu
29.	Vaishnav Babu
30.	Fathima V A
31.	Anjaly P R
32.	Kesiah Eldho
33.	Ameena Ismail
34.	Jelbin Mathew
35.	Ajo Pious
36.	Alan George
37.	Albin T Raji
38.	Vijalakshmi K
39.	Amal Krishna
40.	Renjima Renjan
41.	Merin Shanty
42.	Salima P A
43.	Mary Sandra
44.	Justin Jose

- 45. Jatheera K Jalam
- 46. Kavyanjana P V
- 47. Lijo Joseph
- 48. Annmariya Joy
- 49. Anto M O
- 50 Dayana Varghese
- 51. Saharshan P M
- 52. Sobin J Soy
- 53. Alphonsa Baby
- 54. Deepthi S
- 55. Binsiya
- 56. Bharana Thankachan
- 57. Archana Murali
- 58. Fathima M M
- 59. Swathy Sajikumar
- 60. Fathima Hiba





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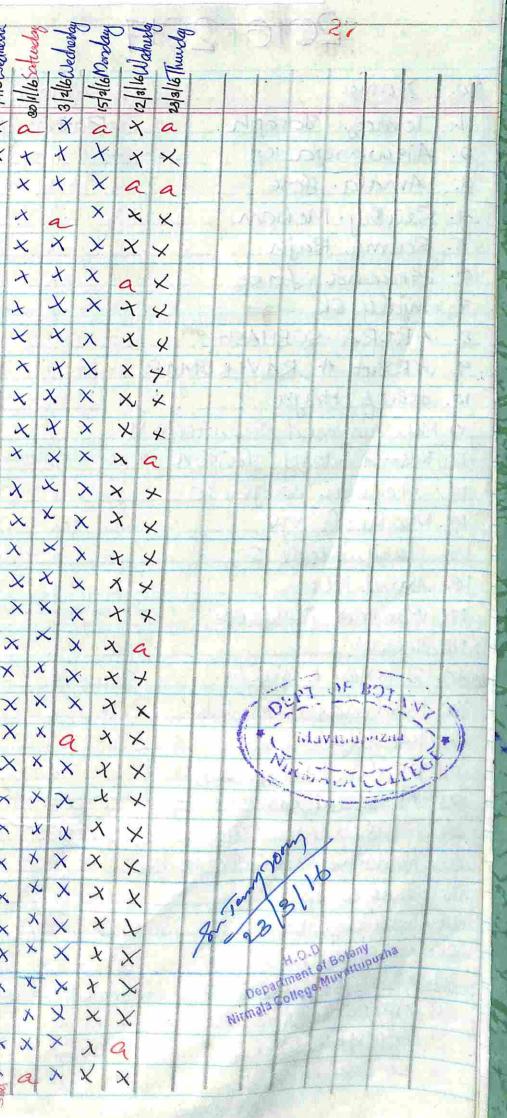
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CERTIFICATE COURSE – MUSHROOM CULTIVATION

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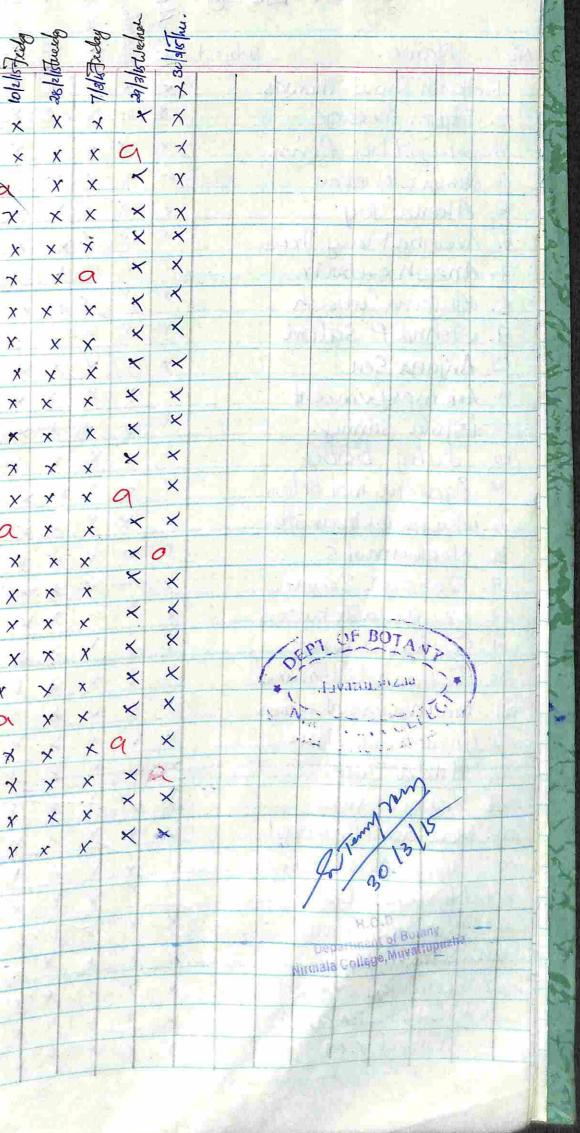
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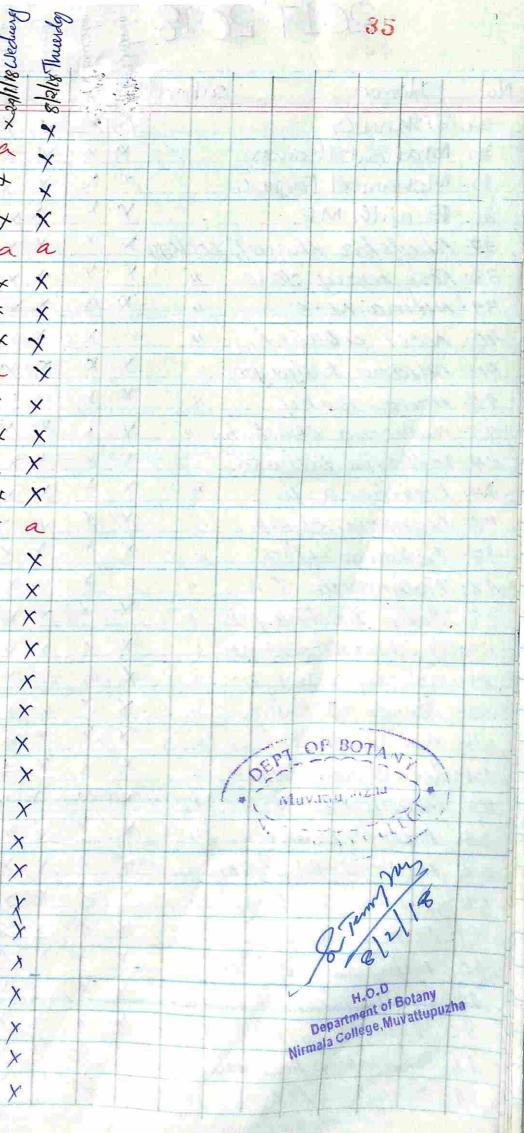
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DEPARTMENT OF BOTANY

CERTIFICATE COURSE IN MUSHROOM CULTIVATION

Mushroom cultivation can help to reduce vulnerability to poverty and strengthens livelihoods through the generation of a fast yielding and nutritious source of food and a reliable source of income. As it does not require access to land, the cultivation is viable and attractive. Mushroom cultivation is not only a source for nutritious protein-rich food; it can also contribute to the production of effective medicinal products. It is an eco-friendly agricultural practice in the efficient utilization of agricultural and industrial waste. It can also play a significant role in generating self employment opportunity. Considering the significance of mushroom cultivation the department is offering a certificate course in mushroom cultivation for the under graduate students. In addition to theory classes the course is providing hands-on trainings, seminars, assignments and field visits.

Aim of the Course

- Enable the students to identify edible and poisonous mushrooms
- Provide hands on training for the preparation of bed for mushroom cultivation and spawn production
- Give the students exposure to the experiences of experts and functioning mushroom farms
- Help the students to learn a means of self employment and income generation

Duration of the Course: 30 Hours

COURSE ASSESSMENT

Assessment of students was carried out on the basis of internal evaluations which include attendance, assignments, viva, test papers and practical skill during training. Certificates will be issued to students on successful completion of the course.

SUMMARY REPORT – YEAR WISE

ACADEMIC YEAR 2014-2015

Seminars were conducted on the topics of Mushroom cultivation and spawn production. In addition to theory classes hands on training was given to students on mushroom cultivation techniques.

Assessment of students was carried out on the basis of internal evaluations which include attendance, assignments, viva, test papers and practical skill during training. 90 students completed the certificate course.

ACADEMIC YEAR: 2015-2016

Seminars were conducted on the topics 'Mushroom cultivation using agricultural wastes' and different types of edible mushrooms. In addition to theory classes hands on trainings were given to students on preparation and sterilization of substrate, preparation of spawn, preparation of mushroom beds using poly bag method and effective harvesting of sporocarps.

Assessment of students was carried out on the basis of internal evaluations which include attendance, assignments, viva, test papers and practical skill during training. 95 students completed the certificate course.

ACADEMIC YEAR: 2016-2017

Seminars were conducted on the topics 'Mushroom spawn production' and 'Mushroom cultivation for self employment'. In addition to theory classes hands on trainings were given to students on cultivation of Oyster mushroom using paddy straw.

Assessment of students was carried out on the basis of internal evaluations which include attendance, assignments, viva, test papers and practical skill during training. 90 students were completed the certificate course.

ACADEMIC YEAR: 2017-2018

Seminars were conducted on the topics 'Post harvest technology and Value - added products of Mushrooms. In addition to theory classes hands on trainings were given to students on mushroom cultivation techniques and post harvest handling of mushrooms. Students visited Mushroom grown center in Piravom, Ernakulam for field experience.

Assessment of students was carried out on the basis of internal evaluations which include attendance, assignments, viva, test papers and practical skill during training. 88 students completed the certificate course.

ACADEMIC YEAR: 2018-2019

Seminars were conducted on the topics Prevention of contamination, quality control of Mushrooms and 'Disease and pest management. In addition to theory classes hands on trainings were given to students on mushroom cultivation techniques, preparation of PDA medium, mother culture and spawn production. Students visited the mushroom spawn production center-Meenakshi spawn production unit, Palakkad

Assessment of students was carried out on the basis of internal evaluations which include attendance, assignments, viva, test papers and practical skill during training. 60 students were completed the course

PRINCIPAL NIRMALA COLLEGE MUVATTUPUZHA





DEPARTMENT OF BOTANY NIRMALA COLLEGE, MUVATTUPUZHA

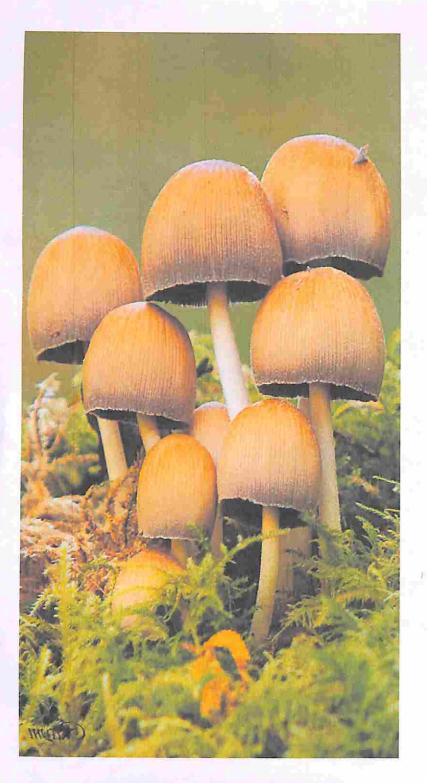
Certificate

This is to certify that ASHLY. MA has successfully completed Certificate Course of 30 hours in Mushroom Cultivation with A grade, organised by Department of Botany, Nirmala College, Muvattupuzha, during the academic year 2018-19

En Tersy Josep

Dr. Sr. Tessy Joseph Coordinator & HOD Of Botany

686 66 Dr. T.M. Josep Principal





DEPARTMENT OF BOTANY NIRMALA COLLEGE, MUVATTUPUZHA

Certificate

En Tesy Joser

Dr. Sr. Tessy Joseph Coordinator & HOD Of Botany





DEPARTMENT OF BOTANY NIRMALA COLLEGE, MUVATTUPUZHA

Certificate

Nirmala College, Muvattupuzha, during the academic year 2014-15

Sur Terry Jose

Dr. Sr. Tessy Joseph Coordinator

Prof. Ancy P.S.

HOD Of Botany

Rev. Dr. Vincent, Joseph Principal * 686 661

NIRMALA COLLEGE MUVATTUPUZHA DEPARTMENT OF BOTANY



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2014 - 2015 21 Staff meeting - on 2 - June - 2014 at 2.15 p.m Association Activities : Chaqueator of association activities are & planned to conduct by the end of Agenda: Planning for the next accidence year. July. We devided to conduct a calexdepartmented Members participated : 1. Dr. Sr. Tessy B 2. Janky Grai A. 3. Mr. Shipin' Mohanan M painting competition in connection with environment week. One crviled talk is planned by the first week of July. We also planed a mechinal Decisione We devided to be very strict in maintaining discipline, keeping varjohne or modest dress with I.D Card and to ban mobile phones in te visit Agriculture afficie at Avoly Classes for certificate course in misheoon culteretion to be organised in the third week compus. The Thokking Class teachership for three classes given to following teachers of Fune. IDC - Shikin Mohanan 11 DC - SR. Tessy Joseph 11 DC - Jaiby Genaic We decided to maintain a spenial register 100 - Los for 1 y di Deca Teacher in charge Laily German . We decided to maintain a spewal region of attendence for practicals. As taily Grain was selected as project fund curstodian. We planed a field visit for 11 Dc students as part of their curencularin of 2nd semester. Names of the Chingele Kaim, in Perimparoer. Coordinators for Valiane, activities of rew academie year are given below. IQAC Condinator - De. Sr. Tessy Joseph. CBCSS coordinator - Dr. Shibin Mohanar. Open conese Alumni Association - Anny Joseph p.S. - Sa. Tessy Joseph Jaiby Cynaic Assowation activities Association Secretary - Ms. Mohsina Moosa Castificate Course - Ch. Tesey Joseph CLEAR COMPANY COMPANY