

From
The Head of Department
Department of Botany
MES Keveeyam College, Valanchery

To
The Principal
MES Keveeyam College, Valanchery

Sir,

Sub: Request for the Approval of Certificate Course.

The Department of Botany is planning to conduct a certificate course on "Mushroom cultivation (CC/BOT/96)" of 30 hours duration for UG students. So I kindly request you to grant permission for the same.

Thanking you.

Yours faithfully,
Krishna Prabha K S
Associate professor
Department of Botany



Place: Valanchery
Date: 12/06/2018



From
The Head of Department
Department of Botany
MES Keveeyam College, Valanchery

To
The Principal
MES Keveeyam College, Valanchery

Sir,

Sub: Request for the Approval of Board of Studies for the short term course.

The following academicians may be included in the Board of Studies for the short term course on "Mushroom cultivation (CC/BOT/96)." to be conducted by the Department.

1. K.M .Mohamed Nasser (Associate Professor, Department of Botany, MES Asmabi College Kodungallur)
2. Prof. Jyothi (Associate Professor, Department of Botany, MES Ponnani College)
3. Dr. Abdul Hameed. C(Associate Professor, Department of Botany, MES Keveeyam College Valanchery)

Kindly do the necessary action to constitute the Board of Studies with these members.
Thanking you.

Yours faithfully,
Krishna Prabha K S
Associate professor
Department of Botany

Place: Valanchery
Date: 14/06/2018.





MES KEVEEYAM COLLEGE

Re-accredited by NAAC with A Grade
(Affiliated to the University of Calicut)

Valanchery – 676552, Malappuram Dt., Kerala

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Order No .Acs/2017-18/01

Date: 18/06/2018

Proceedings of the Principal, MES Keveeyam College Valanchery

(Present: Capt (Dr) C Abdul Hameed)

Ref: (1) Request for the Approval of Certificate Course, dated 12/06/2018

(2) Request for the Approval of Board of Studies for the short term course, dated 14/06/2018.

ORDER

As per reference cited (1), request was received from the HOD, Department of Botany to start a certificate course on "Mushroom cultivation (CC/BOT/96)." The Head of Department has also proposed for a panel of academicians to be included in the Board of Studies (2).

The Department of Botany is hereby given sanction to conduct a certificate course on Mushroom cultivation to the students and teachers of the college.

The board of studies for the above course is constituted with the following members

1. K.M .Mohamed Nasser
(Associate Professor, Department of Botany, MES Asmabi College Kodungallur)
2. Prof. Jyothi
(Associate Professor, Department of Botany, MES Ponnani College)
3. Dr. Abdul Hameed. C
(Associate professor, Department of Botany, MES Keveeyam College Valanchery)

Order is issued accordingly.

Capt (Dr) C Abdul Hameed
Principal

Copy to

1. HOD, Department of Botany
2. File



MINUTES OF BOARD OF STUDIES MEETING

Date: 27/06/2018

Venue: Department of Botany

Agenda: Approval of syllabus of the certificate course offered by Department of botany,
MES Keveeyam College.

Decisions:

- Discussions were done on the draft syllabus.
- Suggestions were made to include practical exam. But as they have enough practical hours (15 hrs.), the board resolved to exempt the practical exam from the syllabus.
- It was also decided to award marks for the practical based on the practical skill of participants on the practical hours.
- A one day Field trip has to be included.
- Approval can be given to syllabus.

Members Present:

1. K.M .Mohamed Nasser (Associate Professor, Department of Botany, MES Asmabi College Kodungallur)
2. Prof. Jyothi (Associate Professor, Department of Botany, MES Ponnani College)
3. Dr. Abdul Hameed. C(Associate Professor, Department of Botany, MES Keveeyam College Valanchery)



**MES KEVEEYAM COLLEGE
VALANCHERY**

DEPARTMENT OF BOTANY

COURSE TYPE : CERTIFICATE COURSE
COURSE NAME : MUSHROOM CULTIVATION
COURSE CODE : CC/BOT/96
DURATION : 35 hours.



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MUSHROOM CULTIVATION AND SPAWN PRODUCTION

1. Course Overview

This course has been prepared with the objective of providing the students a concise and practical information about cultivated mushrooms, their nutritional values, spawn production and cultivation techniques, post - harvest management and marketing strategies.

Program Name	MUSHROOM CULTIVATION	
Course code	BOTCC01	
Duration	This course will extended over a period of six months (35 hours)	
Objectives	<ul style="list-style-type: none"> To provide theoretical and practical knowledge about mushroom cultivation. To provide training on mushroom bed preparation, harvesting, pest and disease control and post-harvest management. To provide hands-on training in spawn production. To give knowledge about scope and marketing of mushrooms. To give the students exposure of experts and farmers in the field of mushroom. To make students self-employed. 	
Training Outcomes	<p>After completing this programme, participants will be able to:</p> <ul style="list-style-type: none"> Aware about types of mushrooms, nutritional values Undertake good quality mushroom production using appropriate techniques: preparation of compost, ensure proper environmental conditions, disease & pest management, harvest good quality mushroom etc. Participants will able to produce mushroom spawn from previous yield. 	
Course contents	Theory	15hr
	Practical	15hr
	Field visit	5hr
Scheme of Evaluation	<ul style="list-style-type: none"> Written Examination (Conventional) : 30 Marks Practical skill : 30 Marks Field visit : 20 Marks <p>Total : 80 marks</p>	
Appendix	<ul style="list-style-type: none"> A Grade: 80% and above, B Grade: 60-79% %, C Grade: 40-59%%, Below 40% D Grade Marks for practical skill is strictly based on the performance of participant during the practical sections and it's evaluated by the trainer. Field trip included in the syllabus for valuable learning and social experiences, increase visual literacy and observation skills. 	

2. Syllabus

Sr. No.	Module	Contents
1	Introduction Theory Duration (hh:mm) 02:00 Practical Duration (hh:mm) 00:00	<ul style="list-style-type: none"> • General history and scope of mushroom cultivation. • Edible and poisonous mushrooms. • Common Indian cultivated mushrooms. • Nutritional values, medicinal values and economic importance.
2	Spawn and its Production Theory Duration (hh:mm) 03:00 Practical Duration (hh:mm) 05:00	<ul style="list-style-type: none"> • Introduction to spawn • Raising or procurement of Pure culture of mushroom • Preparation of master / stock culture, multiplication of spawn from stock / master culture • Precautions, Characters and Storage of Spawn
3	Cultivation ;button mushroom Theory Duration (hh:mm) 04:00 Practical Duration (hh:mm) 05:00	<ul style="list-style-type: none"> • White button mushroom introduction. • Composting: Short or Pasteurization method • Cultivation technique: filling, spawning and spawn running, casing, crop management, harvesting.
4	Cultivation ; Oyster mushroom Theory Duration (hh:mm) 04:00 Practical Duration (hh:mm) 05:00	<ul style="list-style-type: none"> • Introduction to Cultivation Technology • Cultivation: Substrate preparation, spawning, cropping and management, harvesting, Yield, marketing and preservation.
5	Post-harvest management in	<ul style="list-style-type: none"> • Introduction to post harvest management in mushroom cultivation.

Sr. No.	Module	Contents
	mushroom cultivation Theory Duration (hh:mm) 02:00 Practical Duration (hh:mm) 00:00	<ul style="list-style-type: none"> • Diseases: common pests, disease prevention and control measures. • Harvesting, grading packing and storage-short term and long term storage, transport. • Preservation of mushrooms: canning and freeze drying, drying. • Marketing.
6	Field visit Visit duration (hh:mm) 5:00	<ul style="list-style-type: none"> • Visit to mushroom cultivation sites.

Grand Total Course Duration: 35 Hours

References.

1. Harander Singh. 1991. Mushrooms-The Art of Cultivation-Sterling publishers.
2. Kaul T N. 2001. Biology and Conservation of Mushrooms. Oxford and IBH publishing company New Delhi.
3. Pandey B P 1996. A textbook of Fungi. Chand and company N Delhi.
4. <http://ecoursesonline.iasri.res.in/course/view.php?id=596>

