

FOURTH CYCLE NAAC ACCREDITATION 2019

CRITERION 1

CURRICULAR ASPECTS

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

REMAD16 ADVANCED DIPLOMA COURSE-RURAL ECO MANAGEMENT (UGC SPONSERED)

Submitted to



THE NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

CRITERION 1 CURRICULAR ASPECTS

REMAD16 ADVANCED DIPLOMA COURSE-RURAL ECO MANAGEMENT (UGC SPONSERED)

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

SYLLABUS FOR ADDON COURSE: RURAL ECO MANAGEMENT



DEPARTMENT OF BOTANY NIRMALA COLLEGE, MUVATTUPUZHA

SYLLABUS

ADVANCED DIPLOMA COURSE

TOTAL CREDTS-20

Subject 1: Apiculture:

Uses of bees. Organization of honey bee colony, communication among honey bee, keeping methods and equipments, maintenance of an apiary – growth period, dividing the colony, uniting two colonies, replacing old queen with new queen, Enemies of bees. Bee diseases pasturage. Honey and wax composition. Testing the quality of honey. Extraction of wax uses of honey and wax. Agencies supporting apiculture.

3 Credits

Subject 2: Mushroom Cultivation:

Utilization of different substrates – paddy straws and other agro waste, Preparation of poly bags for cultivation, humidity maintenance, farm designing suited to local conditions, pest diseases and control. Large Scale production of Mushroom spawn production, cultivation, storage, preservation techniques, marketing, value added products. Construction of Mushroom house

5 Credits

Subject 3: Mushroom in human nutrition:

Nutritional value, Delicious recipes using mushroom

1 credit

Subject 4: Food preservation: principles and methods:

Simple preparations using vegetables and fruits. Salad dressing- Mayonnaise Baking-cake, pizza, cooking (Demo) Food preservation - jams jelly and pickles.

2 Credits

Subject 5: Research methodology:

Collection of data, tabulation, and statistical analysis. Data compilation and computation

1 Credit

Project/training / field work: Based on the above units.

8 Credits

CAREER ORIENTED ADD-ON PROGRAMME

UNIVERSITY GRANTS COMMISSION

Approved by MAHATMA GANDHI UNIVERSITY

Conducted by



DIRECTOR

College Development Council Mahatma Gandhi University Kottayam Keralar - 686 560

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Date: 05 10 2017

PRINCIPAL

(College seal)

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Advanced Diploma

CAREER ORIENTED ADD-ON COURSES FORM B

Name of the College Name of the Course NIRMALA COLLEGE, MUVATTUPUZHA

RURAL ECO - TECHNOLOGY AND INCOME GENERATING PLANT RESOURCE MANAGEMENT Year: 2016-2017

MARK SHEET

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Universit	Don No	Nama	Pape	er I	Pape	rll	Pape	r III	Paper IV			
y SI. No.	Reg No.	Name	Continual	Written	Continual	Written	Continual	Written	Project/	Total (400)	% of marks	Grade
.1	4001	Aishwarya.G	54	34	52	32	54	34	97	357	89.25	Α
2	4002	Aleena Jose	46	28	48	30	46	34	90	322	80.5	Α
3	4003	Amala Jose	50	34	54	32	52	34	97	353	88.25	Α
4	4004	Amalda Bercy	50	30	50	34	50	32	95	341	85.25	Α
√ 5	4005	Ance Mariya Joy	56	34	52	36	56	36	94	364	.91	A+
√ 6	4006	Aneena Jose	52 [,]	36	54	36	. 54	36	93,	361	90.25	A +
7	4007	Anjaly S.K	50	30	46	32	52	32	94	336	84	Α
8	4008	Arya A Ravikumar	48	28	52	32	52	32	89	333	83.25	Α
.9	4009	Aswathy K.B	48	28	46	32	46	30	95	325	81.25	Α.
10	4010	Athira Sasikumar	52	34	50	36	52	34	95	353	88.25	Α
11	4011	Bushra Ismail	54	34	50	34	50	34	96	352	88	Α
12	4012	Dona Antony	50	30	52	36	54	34	90	346	86.5	Α
13	4013	Emil Mathew	48	28	48	32	48	30	90	324	81	Α
14	4014	Ganga Johny	54	30	52	34	52	30	94	346	86.5	Α
15	4015	Hairunissa O.A	50	30	50	30	56	30	90	336	84	Α
16	4016	Heera V.S	54	34	54	32	56	34	94	358	89.5	Α
17	<i>A</i> 017	Jisna Jose	48	30	50	32	52	30	90	332	83	Α
18	4018	Krishnapriya E.R	54	34	52	34	- 52	30	94	350	87.5	Α
19	4019	Mariya John	46	30	50	28	48	30	89	321	80.25	Α

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20	4020	Merlin Mary Joy	.44	30	50	32	50	34	89	329	82.25	А
21	4021	Reshmi Satheesh Babu	50	34	50	30	48	30	98	340	85	А
22	4022	Salma Raju	48	32	- 52	34	50	34	90	340	85	Α.
23	4023	Sneha Saju	52	32	52	36	52	32	89	345	86.25	Α
24	4024	Nisa Jaison	52	34	52	36	54	36	92	356	89	Α
25	4025	Sruthy Rajan	50	28	50	30	50	32	91	331	82.75	Α
26	4026	Susmi George	52 -	34	54	34	50	34	93	351	87.75	Α
27	4027	Tomcy Joseph	46	28	48	30	50	30	95	327	81.75	А

Name of Cordinator: Sr. Tessy Joseph

Signature Sn. Tessy Joseph

24/10/17

Principal:

PRINCIPAL NIRMALA COLLEGE MUVATTUPUZHA - 686 661

Date: 24 /10/17



Name of the College
Name of the Course

NIRMALA COLLEGE , MUVATTUPUZHA RURAL ECO - MANAGEMENT

Advanced Diploma Course

Year: 2017-2018

MARK SHEET

Universit	- N	1	Pape		Pape		Pape	r III	Paper IV			
y Sl. No.	Reg No.	Name	Continual	Written	Continual	Written	Continual	Written	Project/	Total (400)	% of marks	Grade
1	4028	Akash Shine Thomas	42	26	54	26	52	34	60	294	73.5	B+
2	4029	Dybin George	44	26	48	28	48	34	60	288	72	B+
3	4030	Ammu Ashokan	52	36	. 56	34	54	34	97	363	90.75	A+
4	4031	Anagha Mary Thomas	52 ·	40	54	34	60	· 32	95	367	91.75	А+
5	4032	Anjana Subash	56	32	56	32	56	34	94	360	90	A+ .
6	4033	Ashna P Salim	54	34	56	36	56	34	93	363	90.75	A+
7	4034 .	Ashna Sunny	. 50 .	28	46	30	. 52	. 30	94	330	82.5	. A
8	4035	Juby Baby	58	36	58	38	54	40	98	382	95.5	A+
9	4036	Neethumol S	58	36	54	40	58	40	95	381	95.25	A+
10	4037	Sreeya Sajan	52	38	58	40	56	36	95	375	93.75	A+
11	4038	Syalini Sivan	54	34	50	36	48	34	96	352	88	Α
12	4039	Thushara Ramakrishnan	56	36	54	36	58	40	90	370	92.5	A+
13	4040	Vishnu Priya	52	40	54	38	54	40	90	368	92	A+
14	4041	Amal C M	38	24	42	24	44	24	94	290	72.5	B+
15	4042	Jishnu G	48	30	40	24	46	26	90	304	76	B+
16	4043	Mathew Thomas	48	26	48	30	54	30	94	330	82.5	Α
17	4044	Renjith M R	42	30	48	28	46	26	90	310	77.5	B+
18	4046	Ajitha Binu	48	34	48	32	52	34	86	334	83.5	Α
19	4047	Aleena Joy	52	30	48	32	48	28	82	320	80	Α

.5												
~ 20	4048	Aneesha Subair	54	38	58	36	54	40	95	375	93.75	A+
21	4049	Anjana Sen	46	30	48	34	52	36	95	341	85.25	Α
22	4050	Ann Mary Vincent	44	32	50	34	52	34	. 70	316	79	B+
23	4051	Anns Mary Mathew	56	40	56	36	54	38	95	375	93.75	A+
24	4052	Aranya Mol Balan	50	34	50	38	52	36	62	322	80.5	A
25	4053	Aswathy Appukuttan	46	28	44.	30	44	30	58	280	70	B+
26	4054	Dooniya Johnson	56	36	58	36	56	38	98	378	94.5	A+
27	4055	Fathima Muhammed	54	40	56	38	56	38	96	378	94.5	A+
28	4056	Gini Augustine	46	26	40	30	46	30	46	. 264	66	В
29	4057	Hilda Jose	48	30	50	36	54	36	78	332	83	A
30	4058	Maheswari G Thoppil	56	32	54	36	48	38	98	362	90.5	A+
31	4059	Muneera Moosa	42	32	44	28	44	-28	68	· 286	71.5	B+
32	4060	Naveena Das	36	28	36	28	42	24	60	254	63.5	В
33	4061	Nimmy John	50	36	54	32	54	32	78	336	84	A
34	4063	Sruthi K	36	24	42	24	38	30	60	254	63.5	В
35	4064	Sumayya Yousef	54	32	52	34	56	36	85	349	87.25	A

Name of Cordinator: Sr. Torry Joseph
Signature Sr Torry Joseph

Principal:

24 Data....

Date: /3/4/2018



Name of the College Name of the Course NIRMALA COLLEGE , MUVATTUPUZHA RURAL ECO - TECHNOLOGY......

Advanced Diploma Course

Year: 2018-2019

MARK SHEET

			Pape	er I	Pape	rll	Pape		Paper IV			
Sl. No.	Reg No.	Name	Continual	Written	Continual	Written	Continual	Written	Project/	Total (400)	% of marks	Grade
1	4065	Ananthu Manoj	58	34	54	34	54	34	97	365	91.25	A+
2	4066	Manu Damodaran	46	26	48	28	48	34	90	320	80	Α
3 ·	4068	Sreejith George	40	24	40	24	40	26	70	264	66	В
4	4069	Vignesh P B	46	26	46	30	50	26	95	319	79.75	B+
5	4070	Anjana Krishnan	56	. 32	56	32	56	34	70	336	84	Α .
6	4071	Aparna Saji	56	34	56	36	56	34	72	344	86	Α
7	4072	Arsha Venugopal	58	36	56	38	58	36	98	380	95	A+
8	4073	Aswathy K M	48	26	- 52	30	52	32	70	310	77.5	B+
9	4074	Aswathy R Kartha	50	26	46	30	46	30	98	326	81.5	Α
10	4075	Athira Sasi	52	36	52	36	50	34	95	355	88.75	· A
11	4076	Hamidha Muhammed	54	34	50	36	50	34	96	354	. 88.5	Α
12	4077	Karthika P S	50	30	52	36	54	36	90	348	87	Α
13	4078	Libitha Lal	46	26	48	30	46	28	90	314	78.5	B+
14	4079	Reshma Philip	52	30	48	34	50	30	94	338	84.5	Α
15	4080	Sandra Johnson	48	32	52	30	56	28	90	336	84	Α
16	4081	Soosan P Issac	44	30	46	26	44	30	70	290	72.5	B+
17	4082	Sreepriya Sajeev	50	26	48	30	54	30	90	328	82	Α
18	4083	Sumi Joy	42	26	42	26	42	28	80	286	71.5	B+
19	4084	Abhijith N S	42	30	48	30	46	26	89	311	77.75	B+

			<u> </u>			-		l. 1 !		;		•
20	4085	Amal Ashokan	46	28	48	32	48	34	89	325	81.25	Α
21	4086	Amal Raj P R	40	26	42	26	40	24	90	288	72	B+
22	4087	Johns Saji	56	38	54	38	56	38	91	371	92.75	A+
23	4088	Nakul Naijo	40	30	42	24	42	26	98	302	75.5	B+·
24	4089	Aarathy Aji	44	32	50	34	52	34	70	316	· 79	B+
25	4090	Afeena Asharaf	50	30	50	36	52	32	89	339	84.75	Α
26	4091	Afsa K A	50	34	50	38	52	36	92	352	88	Α
27	4092	Amala Shaji	42	24	40	28	40	28	91	293	73.25	B+
28	4093	Amina Thasneem	52	· 32	54	36	48	34	- 60	316	79	B+
2 0	4094	Ann Mariya Thankachan	46 ⁻	· 26	48	32	46	· 30	95	323	80.75	Α
30	4096	Bhaghyasree Lakshmanan	41	27	48	32	44	30	94	316	79	B+
31	4097	Devika Jayakumar	50	32	49	35	51	30	95	342	85.5	Α
32	4098	Kousalya C	59	37	50	38	58	30	96	368	92	A+
33	4099 ·	Lakshmi E P	44	27	51	41	65	30	55	313	78.25	B+
34	4100	Reshma P S	45	28	52	44	72	30	42	313	78.25	B+
35	4101	Silpa Joy	44	30	52	40	66	· 32	90	354	88.5	Α
36	4102	Siyana S A	42	30	50	38	50	32	70	312	78	B+
37	4103	Sruthy Kumaran	40	30	48	36	34	32	75	. 295	73.75	B+
38	4104	Tissa George	38	30	46	34	40	. 32	85	305	76.25	B+
39	4105	Faby Ummer	36	30	44	32	56	32	95	325	81.25	Α
40	4106	Ashik Taj	34	32	42	30	40	32 0	70	280	70	B+
41/3		Amina Nazir	32	31	40	29	48	24ALA C	Ot CEO	292	73	B+
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Name & Signature of the Coordinator Dr. Sr. Tessy Toseph Signature of the Coordinator Dr. Sr. Tessy Toseph 12/2/2019

Principal PRINCIPAL NIRMALA COLLEGE MUVATTUPUZHA

Date: 13/3/2019

ADD ON: Rural Eco-Management

ADVANCED DIPLOMA COURSE 2016-2017

Sl. No.	Reg No.	Name
1.	4001	Aishwarya.G
2.	4002	Aleena Jose
3.	4003	Amala Jose
4.	4004	Amalda Bercy
5.	4005	Ance Maria Joy
6.	4006	Aneena Jose
7.	4007	Anjaly S.K
8.	4008	Arya A Ravikumar
9.	4009	Aswathy K.B
10.	4010	Athira Sasikumar
11.	4011	Bushra Ismail
12.	4012	Dona Antony
13.	4013	Emil Mathew
14.	4014	Ganga Johny
15.	4015	Hairunisa O.A
16.	4016	Heera V.S
17.	4017	Jisna Jose
18.	4018	Krishnapriya E.R
19.	4019	Mariya John
20.	4020	Merlin Mary Joy
21.	4023	Reshmi Satheesh Babu
22.	4024	Salma Raju
23.	4025	Sneha Saju
24.	4026	Nisa Jaison

25.	4027	Sruthy Rajan
26.	4028	Susmi George
27.	4029	Tomcy Joseph





ADD-ON: Rural Eco-Management

ADVANCED DIPLOMA COURSE 2017-2018

University Sl. No.	Reg No.	Name
1	4028	Akash Shine Thomas
2	4029	Dybin George
3	4030	Ammu Ashokan
4	4031	Anagha Mary Thomas
5	4032	Anjana Subash
6	4033	Ashna P Salim
7	4034	Ashna Sunny
8	4035	Juby Baby
9	4036	Neethumol S
10	4037	Sreeya Sajan
11	4038	Syalini Sivan
12	4039	Thushara Ramakrishnan
13	4040	Vishnu Priya
14	4041	Amal C M
15	4042	Jishnu G
16	4043	Mathew Thomas
17	4044	Renjith M R
18	4046	Ajitha Binu
19	4047	Aleena Joy
20	4048	Aneesha Subair
21	4049	Anjana Sen
22	4050	Ann Mary Vincent
23	4051	Anns Mary Mathew
24	4052	Aranya Mol Balan

25	4053	Aswathy Appukuttan
26	4054	D
26	4054	Dooniya Johnson
27	4055	Fathima Muhammed
28	4056	Gini Augustine
		3
29	4057	Hilda Jose
•	40.50	
30	4058	Maheswari G Thoppil
31	4059	Muneera Moosa
22	40.00	N. D.
32	4060	Naveena Das
33	4061	Nimmy John
34	4063	Sruthi K
34	7003	Stuff K
35	4064	Sumayya Yousef

PRINCIPAL
NIRMALA COLLEGE
MUVATTUPUZHA



ADD-ON: Rural Eco-Management

ADVANCED DIPLOMA COURSE 2018-2019

	Т	1
Sl. No.	Reg No.	Name
1	4065	Ananthu Manoj
2	4066	Manu Damodaran
3	4068	Sreejith George
4	4069	Vignesh P B
5	4070	Anjana Krishnan
6	4071	Aparna Saji
7	4072	Arsha Venugopal
8	4073	Aswathy K M
9	4074	Aswathy R Kartha
10	4075	Athira Sasi
11	4076	Hamidha Muhammed
12	4077	Karthika P S
13	4078	Libitha Lal
14	4079	Reshma Philip
15	4080	Sandra Johnson
16	4081	Soosan P Issac
17	4082	Sreepriya Sajeev
18	4083	Sumi Joy
19	4084	Abhijith N S
20	4085	Amal Ashokan
21	4086	Amal Raj P R
22	4087	Johns Saji
23	4088	Nakul Naijo
24	4089	Aarathy Aji

25	4090	Afeena Asharaf
26	4091	Afsa K A
27	4092	Amala Shaji
28	4093	Amina Thasneem
29	4094	Ann Mariya Thankachan
30	4096	Bhaghyasree Lakshmanan
31	4097	Devika Jayakumar
32	4098	Kousalya C
33	4099	Lakshmi E P
34	4100	Reshma P S
35	4101	Silpa Joy
36	4102	Siyana S A
37	4103	Sruthy Kumaran
38	4104	Tissa George
39	4105	Faby Ummer
40	4106	Ashik Taj
41	4107	Amina Nazir





Summary report

ACADEMIC YEAR: 2016-2017

ADVANCED DIPLOMA COURSE

Subject area

Apiculture, Mushroom Cultivation, Mushroom in human nutrition, Food preservation: principles and methods, Research methodology were the topics covered in advanced diploma course

Field visits/ Industrial visit

- Visited the fields of apiculture farmers in the Udumbanoor Kerala Organic
 Development Society area
- b. Visited the mushroom spawn production centers at Piravom.
- c. Visited pickle preparing factories and pine apple juice making centers of Vazhakulam

Seminars/Symposia

Seminars were conducted on the topics of

- a. Uses of bees, type of bees, importance of honey
- b. Nutritional value of mushroom and its importance in diet
- c. Food preservation techniques
- d. Preparation of project proposals, writing papers, collection of data, tabulation of data, data analyzing techniques etc.

Workshops

Workshops were conducted on the topic of

- a. Isolation of honey comp, Honey extraction techniques
- b. Bed preparation for mushroom cultivation
- c. Methods of spawn production
- d. Preparation of value-added products of mushroom

Assessment of students was carried out on the basis of continual evaluations which include attendance, assignments, seminars, viva, test papers and project

work. 27 students were completed the advanced diploma course. 2 of them secured A+ and others were awarded A grades.

PRINCIPAL
NIRMALA COLLEGE
MUVATTUPUZHA



ACADEMIC YEAR: 2017-2018

ADVANCED DIPLOMA COURSE

Subject area

Apiculture, Mushroom Cultivation, Mushroom in human nutrition, Food preservation: principles and methods, Research methodology were the topics covered in advanced diploma course.

Field visits/ Industrial visit

- Visited the fields of apiculture farmers in the Udumbanoor Kerala Organic
 Development Society
- b. Visited the mushroom spawn production centere- Meenakshi spawn production unit, Palakkad
- c. Visited pickle preparing factories and pine apple juice making centers- Agro Processing Unit, Nadukkara, Vazhakulam, Ernakulam.

Seminars/Symposia

Seminars were conducted on the topic of

- a. Significance and types of bees, health benefits of honey
- b. Nutritional value of mushroom and its importance in diet
- c. Food preservation techniques
- d. Preparation of project proposals, writing papers, collection of data, tabulation of data, data analyzing techniques etc.

Workshops

Workshops were conducted on the topic of

- a. Isolation of honey comp, Honey extraction techniques
- b. Bed preparation for mushroom cultivation
- c. Methods of spawn production
- d. Preparation of value-added products of mushroom

Assessment of students was carried out on the basis of continual evaluations which include attendance, assignments, seminars, viva, test papers and project work. Thirty five students were completed the certificate course by securing 14 A+, 10 A, 8

B+ and 3 B grades respectively

PRINCIPAL NIRMALA COLLEGE MUVATTUPUZHA

ACADEMIC YEAR: 2018-2019

ADVANCED DIPLOMA COURSE

Subject area

Apiculture, Mushroom Cultivation, Mushroom in human nutrition, Food preservation: principles and methods, Research methodology were the topics covered in advanced diploma course.

Field visits/ Industrial visit

- a. Visited the fields of apiculture farmers in the Udumbanoor Kerala Organic Development Society
- b. Visited the mushroom spawn production centere- Meenakshi spawn production unit, Palakkad
- Visited pickle preparing factories and pine apple juice making centers- Agro
 Processing Unit, Nadukkara, Vazhakulam, Kochi

Seminars/Symposia

Seminars were conducted on the topic of

- a. Importance of bees, type of bees, medicinal value of honey
- b. Nutritional value of mushroom and its importance in diet
- c. Food preservation techniques
- d. Preparation of project proposals, writing papers, collection of data, tabulation of data, data analyzing techniques etc.

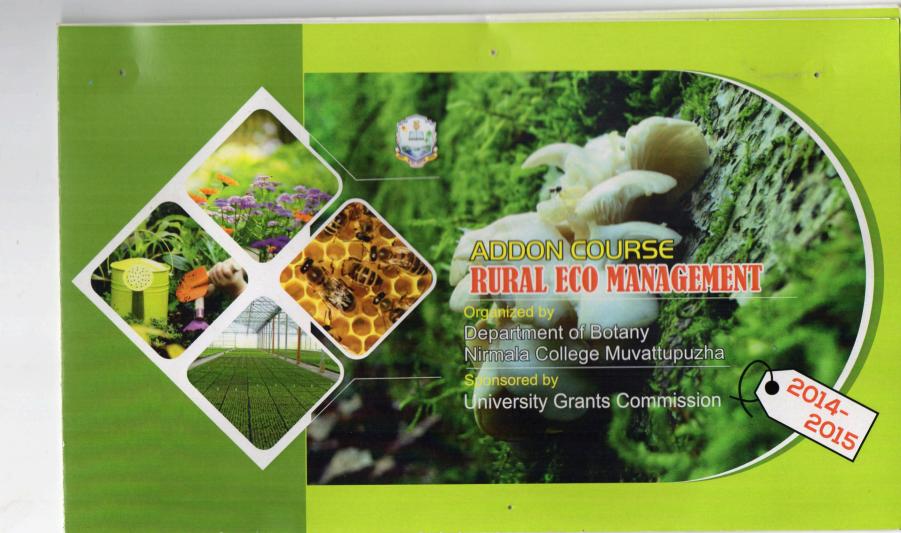
Workshops

Workshops were conducted on the topic of

- a. Isolation of honey comp, Honey extraction techniques
- b. Bed preparation for mushroom cultivation
- c. Methods of spawn production
- d. Preparation of value-added products of mushroom

Assessment of students was carried out on the basis of continual evaluations which include attendance, assignments, seminars, viva, test papers and project work. Forty one students were completed the certificate course by securing 4 A+, 17 A, 19 B+ and 1 B grades respectively.

PRINCIPAL
NIRMALA COLLEGE
MUVATTUPUZHA



SYLLABUS CERTIFICATE COURSE TOTAL CREDITS – 20

Subject1: InformationTechnology: 5 CreditsSubject2: Floriculture: 2 CreditsSubject3: Gardening: 3 CreditsSubject4: Mushroomcultivation: 2 CreditProject/fieldwork/ Training based on the above units: 8 Credits

SYLLABUS DIPLOMA COURSE TOTAL CREDITS: 20

Subject 1 : Plant Propagation Methods : 2 Credits Subject 2 : Plant growing structures : 2 Credits Subject 3 : Fundamentals of plant tissue culture : 3 Credits Subject 4 : Tissue Culture Media preparation : 2 Credits Subject 5 : Medicinal plants in folk tradition : 3 Credits Project/training /field work: Based on the above units : 8 Credits

SYLLABUS ADVANCED DIPLOMA COURSE TOTAL CREDTS- 20

Subject 1 : Apiculture : 3 Credits : Mushroom Cultivation Subject 2 5 Credits Subject 3 : Mushroom in human nutrition 1 Credits Subject 4 : Food preservation : principles and methods : 2 Credits Subject 5 : Research methodology : 1 Credit Project/training / field work: Based on the above units : 8 Credits





MUSHROOM CULTIVATION:

A mushroom is the fleshy, spore-bearing fruiting body of a fungus. Mushrooms are being used as food and medicine. Their cultivation on extensive scale can help solve many problems of global importance. Edible mushrooms contain a high percentage of protein, all indispensable amino acids, and vitamins B-complex and other biochemical compounds. Consumption of mushrooms slows down the spread and effect of cancer, heart disease and HIV/AIDS by boosting immune system.

APICULTURE

Beekeeping (apiculture) is the maintenance of honey bee colonies. A beekeeper keeps bees in order to collect the honey and other products including beeswax, pollen, and royal jelly that the hive produces, to pollinate crops, or to produce bees for sale to other beekeepers. Natural honey is sweet, pleasant smelling, and delicious. It can also be artificially and naturally flavoured with nuts and spices.

GARDENING

Gardening is the practice of growing and cultivating plants as part of horticulture. In gardens, ornamental plants are often grown for their flowers, foliage, or overall appearance; useful plants, such as root vegetables, leaf vegetables, fruits, and herbs, are grown for consumption, for use as dyes, or for medicinal or cosmetic use. Gardening is considered to be an activity of relaxation for many people. Gardening may be very specialized, with only one type of plant grown, or involve a large number of different plants in mixed plantings.

TISSUE CULTURE

Tissue culture is the growth of tissues or cells separate from the organism. This is typically facilitated via use of a liquid, semi-solid, or solid growth medium, such as broth or agar. Tissue culture commonly refers to the culture of plant tissues. Tissue culture can be used to develop plant saplings for cultivation.

INFORMATION TECHNOLOGY

Information technology has a vital role in the field of life science as it helps to extend its scope. Knowledge in IT helps us todevelop methods and software tools for storing, retrieving, organizing and analysing biological data. As an interdisciplinary field, bioinformatics combines computer science, statistics, mathematics and engineering to study and process biological data.

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FLORICULTURE

Floriculture, or flower farming, is a discipline of horticulture concerned with the cultivation of flowering and ornamental plants for gardens and for floral industry. The development, via plant breeding, of new varieties is a major occupation of floriculturists.

HORTICULTURE

Horticulture is the branch of agriculture that deals with the art, science, technology, and business of plant cultivation. It includes the cultivation of fruits, vegetables, nuts, seeds, herbs, sprouts, mushrooms, algae, flowers, seaweeds and non-food crops such as grass and ornamental trees and plants. It also includes plant conservation, landscape restoration, landscape and garden design, construction, and maintenance, and arboriculture.

FOOD TECHNOLOGY

Food technology is a branch of science in which the food science is applied in the manufacture and preservation of food products. The food technologists study the chemical, physical and microbiological makeup of the food. The food is processed, preserved, packaged and stored according to the specifications by industry and government. The research and development in food technology has resulted into the production of safe and nutritious foods.

The course is open for students of all disciplines

Registraton fees: Rs.500

Certificates will be issued by Mahatma Gandhi Un iversity

Course co- coordinator: Dr. Sr. Tessy Joseph, Dept. of Botany, Nirmala College

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No. Zydlk



F.D. Diary No. 2735 (FD-III) Date. 9/7/14



F.No.4-490/2013 (COC)

August, 2014

The Under Secretary (FD-III)
University Grants Commission
Bahadur Shah Zafar Marg
New Delhi-110002

2 7 AUG 2014

Subject:-

Approval and release of Grant-in-aid to Nirmala College, Muvattupazha, Muvattapuzha (P.O.) Ernakulam Dist., Kerala- 686661 under the UGC

scheme of Career Oriented Courses regarding:-

Sir,

In supersession to this office approval-cum-sanction letter of even no dt. 28-03-2014, I am directed to convey the approval of the University Grants Commission to provide financial assistance of Rs 10,00,000 (Rupees Ten lakh only) to Nirmala College, Muvattupazha, Muvattapuzha (P.O.) Ernakulam Dist., Kerala-686661 in the form of one-time grant as 'seed money' to be utilised for purchase of books and journal, equipments, augmentation of laboratory facilities, payment of remuneration to Guest/ internal Faculty, remuneration of course coordinator and contingency only for 5 years from the academic year 2013-14 for introduction of courses under Career Oriented Courses as details given below.

S.No.	Name of Course(s) approved	Amount Approved	
1	"Rural Eco- technology and income generating plant	Rs. 10,00,000/-	
	resource management" under Science stream		
	Total	Rs. 10,00,000/-	

Suitable honorarium out of the resource generated by the Institute may be paid to the Principal and other staff/ members who are involved in the career-oriented courses and who, in addition to their workload, have to perform a number of functions such as arranging guest faculty, liasing with employing establishments for practical training of students, supervising the field work and project work of the students of career-oriented courses etc. The Coordinator of the course may be paid remuneration @ Rs. 5000/- per year out of the 'Seed Money'.

H19/14/0m

Further, I am also directed to convey the sanction of the University Grants Commission for payment of grant of Rs. 9,00,000/- (Rupees Nine lakh only) to the Principal, Nirmala College, Muvattupazha, Muvattapuzha (P.O.) Ernakulam Dist., Kerala- 686661 as 90% of approved grant as 1st instalment under the scheme of Career Oriented Courses for the expenditure to be incurred for five years from the year of approval. The Sanction letter against which this revalidated sanction is issued, stands superseded.

Name of the Scheme	Amount Allocated (Rs.)	Head of Account	Grant now being Released (Rs.)	Grant already Released (Rs.)	Total Grant (Rs.)
Career Oriented Courses	10,00,000/-	3(A) 2202.03.102.10.01.31 UGC Schemes (76%)	6,84,000/-		6,84,000/-
		3(B) 2202.03.789.03.01.31 Special component to SC (16%)	1,44,000/-	_	1,44,000/-
		3(C) 2202.03.796.03.01.35 Special component to ST (8%)	72,000/-		72,000/-
•		Total	9,00,000/-		9,00,000/-

- 2. The Sanctioned amount is debitable to the <u>Heads</u> as detailed above and is valid for payment during the current financial year **2014-15** under the UGC Scheme (COC).
- 3. The amount of the Grant shall be drawn by the Under Secretary (Drawing and Disbursing Officer) UGC on the Grants-in-aid bill and shall be disbursed to and credited to the Principal Nirmala College, Muvattupazha, Muvattapuzha (P.O.) Ernakulam Dist., Kerala-686661 through

Electronic mode as per the following details:

	Payment details:	
(a.)	Designation and address of Authorized Officer	The Principal, Nirmala College, Muvattupazha, Muvattapuzha (P.O.) Ernakulam Dist., Kerala- 686661
(b.)	Bank Name & Address of Branch	Canara Bank, Kavikunnel Chambers, T.B. Junction, Muvattapuzha(PO), Ernakulam Dist. Kerala-686661
(c)	Account No.	0714101057836
(d)	Type of Account; SB/Current/Cash/Credit	SB
(e)	IFSC Code:-	CNRB 0000714
(f)	MICR Code of Branch	686015252

- 4. The Grant is Subject to the adjustment on the basis of Utilization Certificate in the prescribed proforma submitted by the University/Institution.
- 5. The University/Institution shall maintain proper accounts of the expenditure out of the Grants which shall be utilized only on the approved items of expenditure.

- 6. The University/Institution may follow the General Financial Rules. 2005 and take urgent necessary action to amend their manuals of financial procedures to bring them in conformity with GFRs, 2005 and those don't have their own approved manuals on financial procedures may adopt the provisions of GFRs, 2005 and Instructions/guidelines there under from time to time.
 - 7. The Utilization Certificate to the effect that the grant has been utilized for the purpose for which it has been sanctioned shall be furnished to UGC as early as possible after the close of current financial year.
 - 8. The assets acquired wholly for substantially out of University Gants Commission's Grant shall not be disposed or encumbered or utilised for the purpose other than those for which the grants was given without proper sanction of the UGC and should at any time the University ceased to function, such assets shall revert to the University Grants Commission.
 - 9. A Register of Assets acquires wholly or subsequently out of the grant shall be maintained by the University in the prescribed proforma.
 - 10. The grantee institution shall ensure the utilization of grant-in-aid for which it is being sanctioned / paid. In case of non-utilization/part utilization thereof, simple interest @ 10% per annum, as amended from time to time on the unutilized amount from the date of drawal to the date of refund as per provisions contained in General Financial Rules of Govt. of India, will be charged.
- 11. The University/Institution shall follow strictly the Government of India/UGC's guidelines regarding implementation of the reservation policy [both vertical (for SC, ST, & OBC) and horizontal (for persons with disability etc.)] in teaching and non-teaching posts.
- 12. The University/Institution shall fully implement the Official Language Policy of Union Government and comply with the Official Language Act, 1963 and Official Language (Use for Official Purposes of the Union) Rules, 1967 etc.
- 13. The sanction is issued in exercise of the delegation of powers vide UGC Order No. 130/2013 [F.No. 10-11/12 (Admin. IA & B)] dated 28/5/2013.
- 14. The University/Institution shall strictly follow the UGC regulations on curbing the menace of Ragging in Higher Education Institutions, 2009.
- 15. The University/Institution shall take immediate action for its accreditation by National Assessment & Accreditation Council (NAAC).
- 16. The accounts of the University/Institution will be open for audit by the Comptroller & Auditor General of India in accordance with the provisions of General Financial Rules, 2005.
- 17. The annual accounts i.e. balance sheet, income and expenditure statement and statement of receipts and payments are to be prepared strictly in accordance with the Uniform Format of Accounting prescribed by Government.
- 18. The grant is subject to the condition that in case the status of the college is found to be "Self Financing" (Un- aided Pvt. College) at any stage, the college would refund the amount sanctioned along with the interest earned thereon on sanctioned amount.

19. The refund of unspent grants in aid and/ or interest, if any, be credited in following UGC account through e-mode (RTGS/NEFT) under intimation to this office.

Name of Bank

Canara Bank, University Grants Commission, New

Delhi 110002

Account No.

0157101017339

Type of Account

Saving

IFSC Code

CNRB0008627

MICR Code

110015170

Holder of Account

University Grants Commission, New Delhi

After transfer of funds through E.Mode, the College/ University may send a copy of fund transfer bank advice to COC Bureau, UGC, 35 Feroze Shah Road, New Delhi- 1 and Section Officer (FD-II), UGC, Bahadur Shah Zafar Marg, New Delhi-2 for reconciliation and making necessary entries in GIA Register.

- 20. This issues with the concurrence of IFD vide Diary No. 3867 dated 30/10/2013.
- 21. This issues with the approval of Joint Secretary vide Diary No. E-8952 dated 29/11/2013 as revalidated by Chairman, UGC for the financial year 2014-2015 vide his diary No. 28796 dated 05/05/2014.

Yours faithfully.

(Sunita Chugh) Under Secretary

Copy forwarded for information and necessary action for:

- The Principal, Nirmala College, Muvattupazha, Muvattapuzha (P.O.) Ernakulam Dist., Kerala- 686661 to intimate the receipt of the letter as well as the receipt of the sanction grant.
 - 2. The Secretary to the Government of Kerala, Deptt. of Education, THIRUVANANTHAPURAM.
 - 3. The Registrar, MAHATMA GANDHI UNIVERSITY, KOTTAYAM PRIYADARSHINI HILLS (PO) ATHIRAMPUZHA, KOTTAYAM-686562 (KERALA).
 - **4.** Office of Director, General, Audit General Revenues, AGCR Bldg., I.P. Estate, New Delhi.
 - 5. Guard File, UGC, New Delhi.

(A.B. Bhatt)
Section Officer