

DEPARTMENT OF BOTANY
CMS COLLEGE KOTTAYAM (AUTONOMOUS)

Value Added Course
for the academic year 2018-19



MEDICINAL AND ORNAMENTAL PLANTS

COURSE OUTCOME

- Help to promote the need of cultivation and conservation of Medicinal and Ornamental plants.
- Help to provide basic training in medicinal and ornamental plants in tune with the Ayurvedic and floriculture practices.
- Help to aware the students about the quality of Ayurvedic products and to generate Ayurveda-based self employment opportunities.

Academic year: 2018-2019.

CAREER ORIENTED PROGRAMMES (ADD-ON COURSES) PROFORMA

1.	Name of the Course.	Diploma Course
2.	Name of the Co-ordinator With Mobile Number & E-mail ID.	Dr. Hari N. Mob. No: 8547591199. e-Mail ID: <i>hari@cmscollege.ac.in</i>
3.	UGC Sanction order & Date.	F.No.4-500/2013 (COC) Dated. 31 st December-2014.
4.	Amount Sanctioned (Rs.).	Rs. 9, 00,000/- (Nine Lakh Only).
5.	Number of Students enrolled In 2015-2016.	-46-
	a). Certificate Course.	-NA-
	b). Diploma Course.	-46-
	c). Advanced Diploma Course.	-NA-
6.	Total Number of enrolment from the Commencement to till date.	a). Certificate : -NA- b). Diploma : -46- c). Advanced Diploma : -NA-
7.	Percentage of Students who Successfully completed the course.	-46-
8.	Number of Students who achieved a career on the basis of this course.	10%
9.	Other details, if any	-NA-

Category wise Students Profile (who successfully completed the course):

Gender (Male/Female)		General	OBC	OEC	SC/ST	Rural	Urban
-06-	-40-	-19-	-13-	-06-	-08-	-30-	-16-

Place: Kottayam-01.

Date:

NB: Separate Performa may be used for each Course.




Principal
Principal, C.M.S College, Kottayam

Academic year: 2018-2019.

CAREER ORIENTED PROGRAMMES (ADD-ON COURSES) PROFORMA

1.	Name of the Course.	Advanced Diploma Course
2.	Name of the Co-ordinator With Mobile Number & E-mail ID.	Dr. Hari N. Mob. No: 8547591199. e-Mail ID: <i>hari@cmscollege.ac.in</i>
3.	UGC Sanction order & Date.	F.No.4-500/2013 (COC) Dated. 31 st December-2014.
4.	Amount Sanctioned (Rs.).	Rs. 9, 00,000/- (Nine Lakh Only).
5.	Number of Students enrolled In 2015-2016.	-39-
	a). Certificate Course.	-NA-
	b). Diploma Course.	-NA-
	c). Advanced Diploma Course.	-39-
6.	Total Number of enrolment from the Commencement to till date.	a). Certificate : -NA- b). Diploma : -NA- c). Advanced Diploma : -37-
7.	Percentage of Students who Successfully completed the course.	-37-
8.	Number of Students who achieved a career on the basis of this course.	10%
9.	Other details, if any	-NA-

Category wise Students Profile (who successfully completed the course):

Gender (Male/Female)		General	OBC	OEC	SC/ST	Rural	Urban
-09-	-28-	-13-	-08-	-11-	-05-	-31-	-06-



Place: Kottayam-01.

Date:

NB: Separate Performa may be used for each Course.

Principal
Principal, C.M.S College, Kottayam

Academic year: 2018-2019.

CAREER ORIENTED PROGRAMMES (ADD-ON COURSES) PROFORMA

1.	Name of the Course.	Certificate Course
2.	Name of the Co-ordinator With Mobile Number & E-mail ID.	Dr. Hari N. Mob. No: 8547591199. e-Mail ID: <i>hari@cmscollege.ac.in</i>
3.	UGC Sanction order & Date.	F.No.4-500/2013 (COC) Dated. 31 st December-2014.
4.	Amount Sanctioned (Rs.).	Rs. 9, 00,000/- (Nine Lakh Only).
5.	Number of Students enrolled In 2015-2016.	-43-
	a). Certificate Course.	-43-
	b). Diploma Course.	-NA-
	c). Advanced Diploma Course.	-NA-
6.	Total Number of enrolment from the Commencement to till date.	a). Certificate : -41- b). Diploma : -NA- c). Advanced Diploma : -NA-
7.	Percentage of Students who Successfully completed the course.	-41-
8.	Number of Students who achieved a career on the basis of this course.	10%
9.	Other details, if any	-NA-

Category wise Students Profile (who successfully completed the course):

Gender (Male/Female)		General	OBC	OEC	SC/ST	Rural	Urban
-15-	-26-	-10-	-15-	-10-	-06-	-33-	-08-



Place: Kottayam-01.

Date:

NB: Separate Performa may be used for each Course.

Principal
Principal, C.M.S College, Kottayam

ANNEXURE

ADD-ON COURSE IN BOTANY (Career Oriented Programme)

Medicinal and Aromatic Plants



Medicinal and Aromatic Plants: Herbarium.



Medicinal and Aromatic Plants: Hardening Facility.



Medicinal and Aromatic Plants: Raw Drug-Museum.



UNIVERSITY GRANTS COMMISSION NEW DELHI

Career Oriented Programme

Syllabus for Certificate/ Diploma/ Advanced Diploma Course in

DEPARTMENT OF BOTANY
CMS COLLEGE
KOTTAYAM
KERALA- 686001

.....

MAHATMA GANGHI UNIVERSITY
PRIYADARSHINI HILLS, KOTTAYAM
KERALA-686560

Certificate/ Diploma/ Advanced Diploma Course in Medicinal and Ornamental Plants.

(The career oriented programme is framed for 20 Credits for each course. Classes will be conducted on Saturdays)
Fees: Rs- 1000/Year

Objectives of the Career oriented programme

This programme was designed with the following objectives:

1. To promote cultivation and conservation of medicinal and ornamental plants.

2. To provide basic training in medicinal and ornamental plants in tune with the flourishing Ayurvedic and floriculture industries in Kerala.
3. To meet the increasing demands of trained personals in Ayurvedic and Floriculture industries.
4. To improve the quality of ayurvedic products and to generate Ayurveda based self employment opportunities
5. To generate a new generation of medicinal plant specialists who can translate Traditional knowledge in the light of advancement in modern medicine.

Pre-requisites:

Candidate should have passed higher secondary or its equal in science stream and should have an aptitude for medicinal and floriculture.

CERTIFICATE COURSE- FIRST YEAR		
Distribution of papers	Hours	Credits
Theory: Paper 1- Medicinal and Aromatic Plants- 1	90 Hrs	06
Theory: Paper 2-Floriculture -1	90 Hrs	06
Paper 3. Practical and Field Work	120 Hrs	08
Total	300 Hrs	20
DIPLOMA COURSE- SECOND YEAR		
Distribution of papers	Hours	Credits
Theory: Paper 1- Medicinal and Aromatic Plants- 2	90 Hrs	06
Theory: Paper 2-Floriculture- 2	90 Hrs	06
Paper 3. Practical and Field Work	120 Hrs	08
Total	300 Hrs	20
ADVANCED DIPLOMA COURSE- THIRD YEAR		
Distribution of papers	Hours	Credits

Theory: Paper 1- Phytochemical application of crude drugs with special reference to Ayurveda.	90 Hrs	06
Theory: Paper 2- Floriculture- 3.	90 Hrs	06
Paper 3. Practical and Field Work.	120 Hrs	08
Total	300 Hrs	20

CERTIFICATE COURSE- FIRST YEAR (300 Hrs, 20 Credits)

Paper 1- Medicinal and Aromatic Plants- 1 (90 Hrs, 06 Credits)

Module 1. Introduction to major medicinal plants.

AYUSH- Ayurveda (3hrs), Yoga (3hrs), Unani (3hrs), Siddha (3hrs), Homeopathy (3hrs) **(15 hrs)**

Module 2. Major Medicinal group of plants:-

1. Dasamoola (6hrs)
2. Dasapushpam (6hrs)
3. Nalpamara (3hrs)
4. Panchamoola (3hrs)
5. Panchapallava m (3hrs)
6. Trikadu (3hrs)
7. Triphala (3hrs) **(27 hrs)**

Module 3. Factors leading to deterioration of quality of drugs. **(03 hrs)**

Module 4. Common Ayurvedic preparations:-

1. Choorna (3hrs)
2. Ghrita (3hrs)
3. Kashaya (3hrs)
4. Lehya (3hrs)
5. Taila (3hrs) **(15 hrs)**

Module 5. Cultivation and medicinal uses of:-

1. Adhatoda (3hrs)
2. Andrographis (3hrs)
3. Asoca (3hrs)
4. Bael (3hrs)
5. Brahmi (3hrs)

6. Castor (3hrs)
7. Cinnomon (3hrs)
8. Ginger (3hrs)
9. Tinospora (3hrs)
10. Turmeric (3hrs) (30 hrs)

Paper 2- Floriculture- 1 (90 Hrs, 06 Credits)

Module 1. Introduction (3 hrs), Importance and scope of floriculture (6 hrs), Present status of floriculture in India (3 hrs). (12hrs)

Module 2. Classification of Ornamental plants (3 hrs).
Importance, Scope, Origin, Botanical and common name of cultivars (25 minimum). (28hrs)

Module 3. Cut flowers and its importance (6 hrs), selection of cultivars for cut flower (8 hrs). (14 hrs)

Module 4. Principles of flower arrangements:-

1. Bouquet making (3 hrs)
2. Bridal makes (3 hrs)
3. Car decorations (3 hrs)
4. Wreath making (3 hrs) (12hrs)

Module 5. Cultivation of Ornamental plants:-

1. Cold frame (6 hrs)
2. Green house (6 hrs)
3. Hot beds (6 hrs)
4. Poly house (6 hrs) (24 hrs)

Paper- 3 Practical and field work (120 Hrs, 08 credits)

1. Working knowledge and identification of garden tools and implements.
2. Different propagation techniques:-
 - a. Cutting and other vegetative parts
 - b. Seeds
 - c. Layering
 - d. Budding
 - e. Grafting
3. Different types of flower arrangements according to Japanese and Western Style.
4. Preparation of herbarium of common medicinal plants and dried specimens.
5. Visit a well maintained medicinal plant garden in Ayurvedic industry

and submit an industrial visit report.

DIPLOMA COURSE- SECOND YEAR (300Hrs, 20 Credits)

Paper 1- Medicinal and aromatic plants- 2 (90 hrs, 06 Credits)

Module 1. Cultivation of Medicinal plants:-

1. *Adhatoda zeylanica* (3hrs)
2. *Aloe vera* (3hrs)
3. *Alpinia galanga* (3hrs)
4. *Andrographis paniculata* (3hrs)
5. *Asparagus racemosus* (3hrs)
6. *Bacopa monnieri* (3hrs)
7. *Centella asiatica* (3hrs)
8. *Cissus quadrangularis* (3hrs)
9. *Piper longum* (3hrs)
10. *Piper nigrum* (3hrs)
11. *Plumbago zeylanica* (3hrs)
12. *Pogostemon pacholi* (3hrs) **(36hrs)**

Module 2. Cultivation of Ornamental Plants:-

1. Heliconia (3hrs)
2. Jasmine (3hrs)
3. Orchid (3hrs)
4. Rose (3hrs) **(12 hrs)**

Module 3. Cultivation of Medicinal Hedge:-

1. *Acalypha fruticosa* (3hrs)
2. *Adhatoda zeylanica* (3hrs) **(6 hrs)**

Module 4. Cultivation of Medicinal Lawn:-

1. *Centella asiatica* (3hrs)
2. *Cyanodon dactylon* (3hrs) **(6hrs)**

Module 5. Construction of herbal hut (Parnakudeeram):-

1. *Alangium salvifolium* (3hrs)
2. *Asparagus racemosus* (3hrs) **(6 hrs)**

Module 6. Cultivation of flowering medicinal trees as avenue plants:-

1. *Cassia fistula* (3hrs)
2. *Lawsonia inermis* (3hrs)
3. *Saraca asoka* (3hrs) **(9hrs)**

Module 7. Prospect of herbal technology:-

- I. Plants as nutraceuticals (1hrs).

- II. Under-utilized fruits: - 1. *Avarroha bilimbi*, 2. *Phyllanthus acidus* (3hrs).
- III. Processing and preservation of seasonal fruits in Kerala:-
1. Mango, 2. Pineapple, 3. Jack fruit. (3hrs)
- IV. Indigenous herbs used as vegetables:-
1. *Boerhavia diffusa*, 2. *Moringa oleifera*, 3. *Amaranthus viridis*,
4. *Amaranthus spinosa* (8hrs) (15hrs)

Paper 2. Floriculture -2 (90Hrs, 06 Credit)

- Module 1.** Soil and climate requirement (3hrs), water management and propagation techniques (8hrs) . (11hrs)
- Module 2.** Propagation technique by different methods:-
1. Seeds, 2. Stem 3. Root cuttings and 4. Underground stem.(10hrs)
Advantages and disadvantages (2hrs) (12hrs)
- Module 3.** Gardening and Harvesting (2hrs), marketing of commercially important flower crops (4hrs)
1. Rose, 2. Orchid, 3. Canna (6hrs) (12hrs)
- Module 4.** History and scope of Bonsai making (3hrs). Bonsai and art (3hrs),
Classification of plants suitable for Bonsai (6hrs). (12hrs)
- Module 5.** Bonsai containers, Bonsai Making and important points for bonsai making (10hrs). Changing of pots / Containers (2hrs). (12hrs)
- Module 6.** Pruning of roots and stems in Bonsai technique (6hrs).
Trimming of plants:- Irrigation, Mannuring, protection from adverse Conditions (6hrs) (12hrs)
- Module 7.** Principles and types of flower arrangement (4hrs).
1. Western (3hrs) and 2. Japanese(3hrs) (10 hrs)
- Module 8.** Growth regulators (3hrs). Role and classification of growth regulators for ornamental crops (3hrs). Different methods for the use of growth regulators (3hrs) (9hrs)

Paper 3: Practical and field work (120Hrs, 08 Credits)

1. Botany, binomial, common name and morphology of useful parts of common medicinal plants used in Ayurvedic industries.
2. Preparation of a raw drug museum of major medicinal plants in Kerala.
3. Preparation of garden designs: - small and medium.
4. Identification and study of indoor plants.
5. Identification and description of shrubs.
6. Preparation of pot- mixtures for potting of medicinal/ ornamental plants.
7. Visiting famous botanic gardens in Kerala/ neighbouring state (any one).
8. Submit a field visit report.

ADVANCED DIPLOMA COURSE – THIRD YEAR

(300Hrs, 20 Credits)

Paper 1 Phytochemical application of crude drugs with special reference to Ayurveda
(90hrs, 06 credits)

Module 1. Morphological evaluation of Raw Drugs from adulterants (detailed approach).
(10hrs)

Module 2. Isolation techniques in plant secondary metabolites: -TLC/GC/HPLC. (15hrs)

Module 3. Utility of plant drugs as:-

1. Anti-oxidants (5hrs), 2. Anti-diabetic agents (5hrs),
3. Anti-cancer agents (5hrs). (15hrs)

Module 4. Prospects of medicinal plants in:-

1. Nanotechnology (10hrs), 2. Drug delivery (10hrs),
3. Chemotherapy (10hrs), 4. Phytoremediation (10hrs). (40hrs)

Module 5. Conservation and resource management of medicinal plants
with special reference to RET- plants. (10hrs)

Paper -2 Floriculture -3 (90Hrs, 06 Credits)

Module 1. Gardening: -

1. History of gardening in India (5hrs).
2. Importance and scope of gardening (5hrs).
3. Various garden components and common plants used to make
each components (10hrs).
4. Types of gardens (3hrs).
5. Preparation of garden designs (5hrs).
6. Famous garden in India (2hrs). (30hrs)

Module 2. Dry flower technology: -

1. Introduction (2hrs).
2. Advantages and uses of dried flowers (3hrs).
3. Techniques for the production of dry flowers (7hrs).
4. Selection of plant materials for dry flower arrangement (3hrs).
5. Drying plant materials (3hrs).
6. Methods of drying plant materials: Air drying, Press drying and
Embedded drying (7hrs).
7. Preparation of plant materials for arrangement: Dyeing/colouring (3hrs).
8. Care of dried flowers (2hrs). (30hrs)

Module 3. Artificial flower arrangement: -

1. Types of materials used for making artificial flowers (3hrs).
2. Artificial flower making: Rose/Carnation/Marigold (6hrs).
3. Advantages of artificial flowers (4hrs).
4. Care of artificial flowers (2hrs). (15hrs)

Module 4. Value addition from dry/artificial materials: -

1. Dry/artificial flower arrangements (5hrs).
2. Potpourri making (3hrs).
3. Floral handicraft using pressed flowers and leaves: Cards/Collages (7hrs).
(15hrs)

Paper 3. Practical (120Hrs, 08 Credits)

1. List out common raw drugs used for pharma products.
2. List out common plants used for making various garden components.
3. Dry flower arrangement using the collected dried plant materials.
4. Artificial flower arrangement using the handmade flowers.
5. Artificial flower arrangement using the handmade leaves.
6. Visit a well maintained Nanotechnology lab in Kerala/ neighbouring state (any one).
7. Submit a Lab visit report.

References:

1. **Arora J.S.** 2006. *Introductory Ornamental horticulture*. Kalyani Publications.
2. **Bhattacharjee S.K.** 2006. *Advances in Ornamental Horticulture*. Vols. I-VI.
3. **Bose T.K.** and Yadav L.P. 1989. *Commercial Flowers*. Naya Prokash.
4. **Chadha K.L.** and Chaudhury B. 1992. *Ornamental Horticulture in India*. ICAR.
5. **Lauria A.** and Ries V.H. 2001. *Floriculture – Fundamentals and Practices*. Agrobios. Pointer Publ.
6. **Rajeevan P.K.**, Singh, K.P. and Valsalakumari P.K. 2003 *ed. Bulbous Ornamentals*
7. **Sabina G.T.** and Peter K.V. 2008. *Ornamental Plants for Gardens*. New India Publ Agency.
8. **Sheela V.L.** 2007. *Flowers in Trade*. New India Publ. Agency.
9. **Valsalakumari.** 2008. *Flowering Trees*. New India Publ. Agency. Woodrow M.G.1999. *Gardening in India*. Biotech Books.
10. **Valsalakumari P.K.**, Rajeevan P.K., Sudhadevi P.K. and Geetha C.K. 2008. *Flowering Trees* New India Publ. Agency. Vol 1.The Back Ground. Springer, Netherlands.

ADD-ON COURSE IN BOTANY **(Career Oriented Programme)**

Certificate/Diploma/Advanced Diploma Course

“Medicinal and Ornamental Plants”

Course duration : **Certificate Course: 01-year.**
: **Diploma: 01-year.**
: **Advanced Diploma: 01-year.**

Fee Structure : **1000/- per course/year.**

CERTIFICATE COURSE- FIRST YEAR		
Distribution of Papers	Hours	Credits
Theory: Paper 1- Medicinal and Aromatic Plants- 1	90 Hrs	06
Theory: Paper 2-Floriculture -1	90 Hrs	06
Paper 3. Practical and Field Work	120 Hrs	08
Total	300 Hrs	20
DIPLOMA COURSE- SECOND YEAR		
Distribution of Papers	Hours	Credits
Theory: Paper 1- Medicinal and Aromatic Plants- 2	90 Hrs	06
Theory: Paper 2-Floriculture- 2	90 Hrs	06
Paper 3. Practical and Field Work	120 Hrs	08
Total	300 Hrs	20

ADVANCED DIPLOMA COURSE- THIRD YEAR		
Distribution of Papers	Hours	Credits
Theory: Paper 1- Phytochemical application of crude drugs with special reference to Ayurveda.	90 Hrs	06
Theory: Paper 2- Floriculture- 3.	90 Hrs	06
Paper 3. Practical and Field Work.	120 Hrs	08
Total	300 Hrs	20

❖ Course offered: Mahatma Gandhi University, Kottayam with the affiliation of UGC.

❖ Centre : C M S College Kottayam, Kottayam, Kerala, India.

❖ Principal : Dr. Varghese C. Joshua.

❖ Co-ordinator : Dr. Hari N. [*Department of Botany*].

Course Dimensions :

Course offered by Mahatma Gandhi University, Kottayam with the affiliation of UGC to enrich the students with a better career guidance along with their regular degree courses. The add-on course will not affect the regular curriculum, as the time schedule is from 09.00 am to 09.45 am and on Saturdays 10.00 am to 01.00 pm.

The well defined syllabus makes up the students to achieve a Certificate Course after completing one academic year, if they are willing to continue in the second year a Diploma Course certificate in Medicinal and Ornamental Plants will be issued; on third year an Advanced Diploma Course certificate in Medicinal and Ornamental Plants will be issued.

General outcome of the course(s) :

- Help to promote the need of cultivation and conservation of Medicinal and Ornamental plants.
- Help to provide basic training in medicinal and ornamental plants in tune with the Ayurvedic and floriculture practices.
- Help to aware the students about the quality of Ayurvedic products and to generate Ayurveda-based self employment opportunities.

Innovative practices fulfilled by this course(s):

- Training on propagation techniques such as Cutting and other vegetative parts, Seeds, Layering, Budding and Grafting were given.
- Training on different types of Fresh and Dry-flower arrangements was given.
- Training on preparation of herbarium of common medicinal plants and dried specimens were given.
- Conduct visits to medicinal plant garden in Ayurvedic industry/Botanical gardens.

Course Certificate issued:

Reg.No:.....

CAREER ORIENTED ADD-ON PROGRAMME

Sponsored by

UNIVERSITY GRANTS COMMISSION

Approved by

MAHATMA GANDHI UNIVERSITY

Conducted by

CMS COLLEGE KOTTAYAM



The Career Orientation Council for the UGC Career - Oriented Programme of Add - On Course in Botany hereby makes known that Mr./Miss..... has been awarded *Certificate / Diploma / Advanced Diploma* in **MEDICINAL AND ORNAMENTAL PLANTS** Conducted by the Department of Botany C. M. S. College Kottayam, he/she having been certified by the duly appointed examiners to be qualified to receive the same and having been placed by them in Grade.....at the examination held in.....

DIRECTOR

College Development Council
Mahatma Gandhi University
Kottayam Kerala 686600
Date

PRINCIPAL

University Sl. No:.....

Ad - diploma

[2016-2019]
Batch

Form B:

CAREER ORIENTED ADD-ON COURSES (Theory and Practical) (ADVANCED-DIPLOMA)

MARK SHEET

Name of the College: CMS COLLEGE, KOTTAYAM

Year: 2018- 2019



PAPER: 1 - MEDICINAL AND AROMATIC PLANTS - 3

PAPER: 2 - FLORICULTURE - 3

PAPER: 3- PRACTICALS AND FIELD WORK-3


Uni. Sl. No.	Reg. No.	Name of Candidate (s)	THEORY				PRACTICAL		Project / Report /Viva Voce Max: 30 Marks	TOTAL Max: 400 Marks	% of Marks	G R A D E
			PAPER: 1 Max: 100 Marks		PAPER: 2 Max: 100 Marks		PAPER: 3 Max: 170 Marks					
			Continual Max: 50 Marks	Written Max: 50 Marks	Continual Max: 50 Marks	Written Max: 50 Marks	Continual Max: 10 Marks	Written Max: 160 Marks				
1	1046	AJITH V. A	40	38	45	43	10	123	20	319	80	A
2	1047	AKSHAYA SHAJI	45	44	50	48	10	144	30	371	93	A+
3	1048	ANJALI RAJENDRAN	29	27	45	44	10	130	25	310	78	B+
4	1049	ANJALY SUDHEESH	35	33	49	46	10	140	25	338	85	A+
5	1050	ANJANA G BABU	44	42	48	45	10	132	20	341	86	A

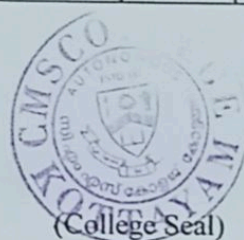
Ad. Diploma College.
March-2019

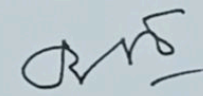
6	1051	ANU PLACKANS	30	29	45	44	08	92	15	263	66	B
7	1052	ARCHANA G BABU	43	40	45	43	10	129	20	330	83	A
8	1053	ASHLY BABU	40	38	49	46	10	150	30	369	93	A+
9	1054	ASHLY ELIZABETH P CHANDY	45	43	49	47	10	147	30	371	93	A+
10	1055	ATHULYA V GOPAL	45	43	49	47	10	151	30	375	94	A+
11	1056	AYANA REGHU	34	31	49	46	08	97	25	290	73	B+
12	1057	GRACY THANKACHAN	-	-	-	-	-	-	-	-	-	Absent
13	1058	JITHIN T. A	38	35	40	38	10	107	15	287	71	B+
14	1059	JULIA SUSAN ISSAC	45	43	40	39	10	122	25	324	81	A
15	1060	LIDIYA SUSAN FRANCIS	39	36	38	35	10	107	15	280	70	B+
16	1061	RAHUL DAS	39	37	45	44	06	87	20	278	70	B+
17	1062	SARATH P. S	-	-	-	-	-	-	-	-	-	Absent
18	1063	TEENA ANN REJI	39	37	49	46	10	133	25	339	85	A
19	1064	ABIN J	44	41	49	46	08	97	15	300	75	B+
20	1065	AKHIL S CHERICKAL	39	37	48	45	10	117	20	316	79	B+
21	1066	AKHILESH GEORGE	40	39	45	43	10	121	20	318	80	A
22	1067	ALEESHA MATHEW	44	41	45	44	10	112	15	311	78	B+
23	1068	ANJANA PRADEEP	35	34	45	43	06	86	15	264	66	B

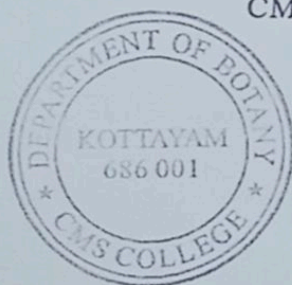
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48	-	-	-	-	-	-	-	-	-	-	-	-
49	-	-	-	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-	-	-	-


 Dr. Hari N.
 Name and Signature of the Co-ordinator
 Co-ordinator Sponsored Add-on-course
 Dept. of Botany
 CMS College, Kottayam




 Name and Signature of Principal
 PRINCIPAL
 C.M.S COLLEGE KOTTAYAM



Diploma.

[2017-2020
Batch.]

Form B:

CAREER ORIENTED ADD-ON COURSES (Theory and Practical)

MARK SHEET-DIPLOMA

Name of the College: CMS COLLEGE, KOTTAYAM

Year: 2017 – 2018

Uni Sl. No.	Reg. No.	Name of Candidate (s)	THEORY				PRACTICAL				Field visit/Record /Project/ Report (s): Max: 20 Marks	Viva- Voce Max: 20 Marks	TOTAL Max: 400 Marks	% of Marks	G R A D E
			PAPER: 1 Max: 100 Marks		PAPER: 2 Max: 100 Marks		PAPER: 3 Max: 80 Marks		PAPER: 4 Max: 80 Marks						
			Continual Max: 50 Marks	Written Max: 50 Marks	Continual Max: 50 Marks	Written Max: 50 Marks	Continual Max: 10 Marks	Written Max: 70 Marks	Continual Max: 10 Marks	Written Max: 70 Marks					
1	1087	ABHIDHA YOUSEF	47	37	46	36	6	50	9	59	15	16	321	80.25	A
2	1088	ABHIRAMI S ANIL	44	44	45	35	6	52	8	55	15	16	320	80	A
3	1089	ANAGHA THAMPI	50	47	50	40	8	56	10	66	17	17	361	90.25	A+
4	1090	ARJUN OMANAKUTTAN	50	48	50	45	9	59	10	65	17	17	370	92.5	A+
5	1091	ASHNA M SHAJI	50	45	50	37	7	54	9	85	16	16	369	92.25	A+
6	1092	ATHILA AKBAR	50	44	50	46	8	56	8	56	16	16	350	87.5	A
7	1093	ATHIRA PRASAD	48	45	47	38	10	67	9	62	19	18	363	90.75	A+
8	1094	ATHIRA RAVIKUMAR	48	39	46	37	7	55	6	70	15	16	339	84.75	A

	1095	ATHIRA S	50	44	47	39	8	59	10	66	17	18	358	89.5	A
10	1096	AYSHA BEEVI K S	50	44	50	45	9	69	9	63	19	19	377	94.25	A+
11	1097	BINUJA B	50	40	50	40	9	67	10	61	17	18	362	90.5	A+
12	1098	DEVIKA M M	44	37	44	33	9	58	9	57	16	16	323	80.75	A
13	1099	FATHIMA YOONS	49	47	50	41	8	58	8	62	17	19	359	89.75	A
14	1100	GLADIS JOHN	48	47	48	44	8	54	8	60	16	16	349	87.25	A
15	1101	GLORIS JOSEPH	46	44	45	38	8	451	7	53	14	15	321	80.25	A
16	1102	HARI K	46	37	45	36	7	55	8	53	16	15	318	79.5	B+
17	1103	HELNA SARA JEBU	48	39	48	38	10	63	8	57	16	18	345	86.25	A
18	1104	JENEFA S J	46	43	46	35	8	58	8	56	16	17	333	83.25	A
19	1105	K AGNES MARIA	48	39	49	37	7	52	8	56	16	15	327	81.75	A
20	1106	KEERTHANA V	50	44	50	45	9	63	8	64	18	19	370	92.5	A+
21	1107	AJAL THOMAS	46	40	47	43	10	61	8	55	16	16	342	85.5	A
22	1108	ANANDU ANILBABU	50	41	50	40	7	52	8	58	17	15	338	84.5	A
23	1109	ANASWARA K ANIL	44	43	44	35	8	58	8	55	16	17	328	82	A
24	1110	ANGEL AKKEENA JAMES	44	43	44	28	6	48	6	53	14	17	303	75.75	B+
25	1111	ANJANA E S	50	45	50	46	9	64	10	65	19	18	376	94	A+
26	1112	DENNA SUSAN JACOB	50	50	50	48	10	69	10	69	20	20	396	99	A+
27	1113	FEBAKUTTY VARGHESE	50	48	50	46	10	69	10	67	18	20	388	97	A+
28	1114	GREESHMA MADHU	44	42	44	42	9	60	8	57	16	17	339	84.75	A
29	1115	HONEY MARIYA JOHN	44	35	44	29	9	63	8	56	17	17	322	80.5	A

	1116	JEENA JANIKUMAR	44	31	44	37	8	60	7	51	17	16	315	78.75	B+
31	1117	KELSEY ROSE CHRISTDAS	46	42	45	36	8	57	10	60	16	16	336	84	A
32	1118	KESIYAMOL JOSEPH	48	42	48	40	7	54	6	49	16	15	325	81.25	A
33	1119	LAKSHMI AJITH	48	40	48	42	9	65	9	65	19	19	364	91	A+
34	1120	M SWATHIKRISHNA	50	50	50	45	10	70	10	69	20	20	394	98.5	A+
35	1121	NEJILA NOUSHAD	44	40	44	40	8	62	7	73	17	16	351	87.75	A
36	1122	POOJA J	50	43	50	37	9	66	8	57	18	18	356	89	A
37	1123	REEMA MATHEW	46	35	46	45	9	62	10	61	17	17	348	87	A
38	1124	REMYA RAMESH M	44	31	44	26	8	61	9	57	17	17	314	78.5	B+
39	1125	SNEHA M JOHNSON	48	33	45	35	8	56	8	53	16	15	317	79.25	B+
40	1126	SREELAKSHMI J PILLAI	50	45	50	42	10	64	8	63	19	18	369	92.25	A+
41	1127	ANN MERIN REJI	48	45	48	41	10	64	9	62	18	18	363	90.75	A+
42	1128	GITTY MERIN GEORGE	45	44	45	38	8	61	7	51	17	16	332	83	A
43	1129	KIRAN BOSE P B	45	39	45	33	10	64	9	58	17	16	336	84	A
44	1130	RAHUL PRASAD	45	46	45	34	10	61	8	61	17	17	344	86	A
45	1131	REENLY PETER	45	44	45	38	9	61	9	58	17	17	343	85.75	A
46	1132	SABIN BABU	46	44	46	36	8	52	6	50	15	15	318	79.5	B+

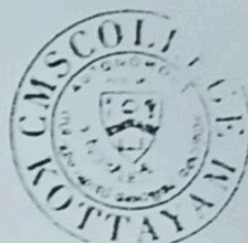
Name and Signature of the Co-ordinator

Dr. V. N. N.
Co-ordinator

UGC Sponsored Add-on-course
Dept. of Botany
CMS College, Kottayam

(College Seal)

Shreebha
Shreebha Thomas
HOD



Name and Signature of Principal

Dr. Roy Sam Daniel
• PRINCIPAL •
C M S COLLEGE KOTTAYAM

Form B:

CAREER ORIENTED ADD-ON COURSES (Theory and Practical) (CERTIFICATE)

MARK SHEET

Name of the College: CMS COLLEGE, KOTTAYAM

Year: 2018 – 2019

PAPER: 1 -MEDICINAL AND AROMATIC PLANTS -1 PAPER: 2 -FLORICULTURE – 1 PAPER: 3- PRACTICALS AND FIELD WORK-1														
Uni. Sl. No.	Reg. No.	Name of Candidate (s)	THEORY				PRACTICAL				Project/Report (s): Max: 40 Marks	TOTAL Max: 400 Marks	% of Marks	GRADE
			PAPER: 1Max: 100 Marks		PAPER: 2Max: 100 Marks		PAPER: 3Max: 80 Marks		PAPER: 4Max: 80 Marks					
			Continual Max: 50 Marks	Written Max: 50 Marks	Continual Max: 50 Marks	Written Max: 50 Marks	Continual Max: 10 Marks	Written Max: 70 Marks	Continual Max: 10 Marks	Written Max: 70 Marks				
1	1133	ABIN T JOHN MOECR	48	43	50	44	10	65	10	63	35	368	92	A+
2	1134	ABITHA JOSEPH FOELU	45	38	43	35	10	65	10	62	37	345	86.25	A
3	1135	AMAL PRASAD MOBLR	49	44	50	43	10	68	10	67	36	377	94.25	A+
4	1136	ARUN CHANDRA BABU MOBLR	44	34	49	42	10	63	10	61	37	350	87.5	A
5	1137	ASHNA NAZAR FOBLU	45	32	43	35	10	63	10	66	37	341	85.25	A
6	1138	AVANI SHIBU FOBLR	46	36	44	34	10	65	9	63	32	339	84.75	A
7	1139	CHANDANA KRISHNA FOBLR	45	31	44	35	10	53	9	56	30	313	78.25	B+
8	1140	HARIKRISHNAN K. SMOBLR	45	41	43	36	10	65	10	62	36	348	87	A

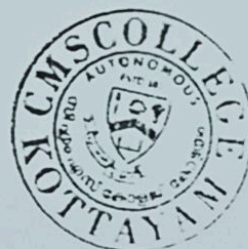
9	1141	JIBIN SHAJI MOECR	42	31	45	40	10	50	10	62	35	325	81.25	A
10	1142	MARTINA MARIA SONY ⁴⁷ FOECR	42	49	43	10	50	10	63	34	348	87	A	
11	1143	MEGHA S ⁵⁰ FGR	50	43	50	46	10	69	10	68	36	382	95.5	A+
12	1144	RUBY MOL BABY ⁴² FOECR	42	30	43	31	10	58	9	56	35	314	78.5	B+
13	1145	SANDRA ⁴⁵ FGR	45	36	47	41	10	58	10	63	35	345	86.25	A
14	1146	SREEEJITH H MOBCR	44	36	47	42	10	63	10	64	35	351	87.75	A
15	1147	SREELAKSHMI S ⁴⁵ FOBCR	45	36	48	32	10	65	10	54	35	335	83.75	A
16	1148	V.G ATHULIA ⁴⁷ FSC/STR	47	40	48	41	10	57	10	60	35	348	87	A
17	1149	VIDYA T. K ⁴⁵ FSC/STR	45	31	45	40	10	49	10	58	33	321	80.25	A
18	1150X	VIJAY ⁴² MSc/STR	42	34	42	40	8	-	9	-	-	-	-	NQ
19	1151	ZAIRA SAFEER ⁴⁷ FOBCR	47	39	50	42	10	57	10	58	37	350	87.5	A
20	1152	ABHINAND V ⁴⁶ MGR	46	38	50	43	10	57	10	65	38	357	89.25	A
21	1153	AHALYA REGHUNATH ⁴⁸ FOBCR	39	50	45	10	65	9	64	35	365	91.25	A+	
22	1154	AKASH SURENDRAN ⁴⁵ MSc/STR	30	48	38	10	55	10	58	33	327	81.75	A	
23	1155	ALEESHA RACHEL ISSAC ⁴² FOECR	29	43	35	10	51	9	57	32	308	77	B+	
24	1156	ANJALI M KAMMATH ⁵⁰ FGR	45	50	44	10	67	10	68	38	382	95.5	A+	
25	1157	ANJIMA PRAKASHAN ⁴⁹ FOBCR	38	50	40	10	59	10	63	37	356	89	A	
26	1158	ARDRA K P ⁴⁸ FOBCR	42	43	38	10	58	10	62	37	348	87	A	
27	1159	ATHUL LATHA JACOB ⁵⁰ FOECR	44	50	43	10	63	10	64	33	367	91.75	A+	
28	1160	BHAGYA SATHEESH ⁴⁵ FSC/STR	34	43	33	10	59	10	58	39	331	82.75	A	

29	1161	DEON SAJAN <i>MGR</i>	46	36	43	39	10	62	10	62	34	342	85.5	A
30	1162	EMIL CHACKOCHAN <i>MOECR</i>	45	35	49	43	10	57	10	53	36	338	84.5	A
31	1163	FARISA HARIS A <i>FOBCU</i>	50	43	44	39	10	67	10	64	38	365	91.25	A+
32	1164 X	GOKUL K V <i>MOBCR</i>	45	31	43	30	8	-	9	-	-	-	-	NQ
33	1165 X	GOKUL RAJ <i>MSc/STR</i>	47	33	43	30	10	56	10	63	35	327	81.75	A
34	1166 X	Jiya GEORGE <i>FOECR</i>	45	37	46	39	10	60	10	52	33	332	83	A
35	1167	KRISHNA V ROY <i>FOBCR</i>	50	46	50	47	10	68	10	69	40	390	97.5	A+
36	1168	PARVATHY M <i>FOGR</i>	50	37	50	37	10	68	10	63	35	360	90	A+
37	1169 X	PREMHARI V <i>MSc/STR</i>	43	33	43	27	10	52	10	63	33	314	78.5	B+
38	1170	SREEKUTTY P R <i>FOBCR</i>	50	38	50	43	10	62	10	69	37	369	92.25	A+
39	1171	SRUTHILAKSHMI JAYABHANU <i>FOBCR</i>	50	43	50	45	10	69	10	69	37	383	95.75	A+
40	1172	VEENA REJI <i>FOBCR</i>	50	42	50	44	10	62	10	64	37	369	92.25	A+
41	1173	VIPIN GOPAL <i>MGR</i>	48	36	47	39	10	56	10	60	35	341	85.25	A
42	1174 X	ROHAN JOHN <i>MGR</i>	45	43	47	42	10	62	9	62	24	344	86	A
43	1175	SOORAJ P S <i>MOECR</i>	46	42	45	44	10	64	10	62	35	358	89.5	A

Dr. Hari. N.
Dr. Hari. N.

Name and Signature of the
Co-ordinator
Co-ordinator
UGC Sponsored Add-on-course
Dept. of Botany
CMS College, Kottayam

Shree Thomas
Shree Thomas
HOD
(College Seal)



Dr. Roy Sam Daniel
Dr. Roy Sam Daniel
PRINCIPAL
CMS COLLEGE KOTTAYAM
Name and Signature of
Principal