

## DEPARTMENT OF BOTANY

### VOCATIONAL TRAINING PROGRAMME IN APICULTURE AND APITHERAPY

Department of Botany, Nirmala College, Muvattupuzha in association with HortiCorp, Kerala and Kerala Organic Development Society, Organise Apiculture Training programme regularly every year. The Importance of bee to man and nature, technicalities involved in bee keeping, various products isolated from bee culturing and its medicinal value, scope in the economic growth of people Apitherapy as a treatment to certain ailments and etc were the themes on which emphasis was given. Mr. T.M. Suguthan, Trainer, HortiCorp, Mr. Benny Daneil, Programme Coordinator, HortiCorp and Mr. T.K Ravindran, Secretary, Kerala Organic Development Society were the experts who handled various sessions through the years. Apiculture which has a potential as a source of income in rural area could aid students in a vocation. Different schemes of Government that provide subsidy to the bee keepers were also introduced to the students. Every session was followed by discussions of experts with the participants.

#### OBJECTIVES:

1. To provide information on the culture and rearing of honey bees.
2. Give information on the types of honey bees and uses and of honey.
3. To provide training to handle various bee keeping equipments.
4. To make the participants aware of Apitherapy as an alternative medical treatment.

Details of the programme from 2014 to 2018 is given below.

Academic year	Date of commencement	No. of Students registered
2014-15	14 <sup>th</sup> July 2014	62
2015-16	09 <sup>th</sup> October 2015	110
2016-17	3 <sup>rd</sup> February 2017	188
2017-18	25 <sup>th</sup> January 2018	190
2018-19	21 <sup>st</sup> August 2018	192

#### OUTCOME OF THE PROGRAMME:

1. The participants were able to set up and handle beehives.
2. They were able to extract honey with minimum disturbance from the honey bees.
3. Participants became well informed on Apitherapy.

**PHOTOGRAPHS OF VOCATIONAL TRAINING PROGRAMME IN APICULTURE  
AND APITHERAPY**





**DEPARTMENT OF BOTANY****VOCATIONAL TRAINING PROGRAMME ON BONSAI MAKING**

The Department of Botany conducts vocational training programme on bonsai making for the under graduate students. The aim of the programme is to demonstrate knowledge of the types of plants suitable for bonsai, understand methods of propagation used in bonsai, learn the species of plants most suited to bonsai, learn a range of bonsai styles and techniques used to achieve them, understand the process of creating bonsai.

This programme creates a passion for bonsai and helps the students to explore their creativity. It could also be taken as part of a certificate or other qualification. It might also help the students to explore other study or work opportunities.

<b>Academic year</b>	<b>Date of commencement</b>	<b>No. of Students registered</b>
2015-16	3 <sup>rd</sup> August 2015	28
2016-17	5 <sup>th</sup> January 2017	22
2017-18	15 <sup>th</sup> December 2017	21
2018-19	16 <sup>th</sup> July 2018	26

**OUTCOMES OF THE PROGRAMME**

- Students will be able to grow bonsai
- Students will be able to develop ability to select, train and maintain appropriate varieties of plants in different situations to make bonsai
- Indulge a passion, extend their horticultural skills or start a business

PHOTOGRAPHS OF TRAINING ON BONSAI MAKING



**NIRMALA COLLEGE MUVATTUPUZHA****VOCATIONAL TRAINING ON CULINARY ARTS**

Vocational training is provided to students to inculcate operational, technical and managerial skills to excel in the culinary sector of the hospitality industry. Culinary arts course trains aspirants to prepare, cook as well as present food/ meals in an effective and attractive manner. This programme is beneficial for students to find a career in the field of food and beverage management, kitchen management as well as other hospitality and food related jobs. Interested students are given admission to this course. Both theoretical and practical session are arranged for the students. At the end of the programme, a food fest is arranged in the campus to showcase the variety of food items prepared by the students.

**Number of students Enrolled**

<b>Year</b>	<b>No. of Students</b>
<b>2015-16</b>	<b>74</b>
<b>2016-17</b>	<b>160</b>
<b>2018-19</b>	<b>236</b>

**Outcome of the Programme**

- Students will be able to attain culinary skills to excel in hospitality industry
- Students will be able to present food in an attractive manner
- Confidence of the students may be improved
- Students can easily find jobs in the industry

**PHOTOGRAPHS OF VOCATIONAL TRAINING ON CULINARY ARTS**







## WOMEN CELL, NIRMALA COLLEGE

### VOCATIONAL TRAINING PROGRAMME IN DRIVING

Women Cell of Nirmala College offers a Vocational training programme in Driving to train female students and teachers during the last 5 consecutive years from 2015. Classes were given in both two wheel and Four-wheel driving. Timings for the sessions were fixed according to the convenience of participants, in the morning and evening hours. A private Training Institute which could provide the programme at a reduced fee is selected for the classes. The route covering 5- 10 km, in and around the campus were chosen for the classes, which was convenient for the participants. All participants who joined the programme acquired a valid licence. They are now able to driving vehicles by themselves which was a blessing for students and teachers coming from areas where public transport is not frequent. It also opened the doors for careers related to driving, tourism and hospitality. A good driver can promote and propagate fuel conservation in the road transport sector.

#### OBJECTIVES:

1. To give training to impart driving skills.
2. Inculcate good driving practices among the participants.
3. Help the participants to obtain a valid driving licence.

Details of the programme from 2015 to 2018 is given below.

Academic year	Date of commencement	No. of Students registered
2015-16	24 <sup>th</sup> November 2015	26
2017-18	10 <sup>th</sup> October 2017	21
2018-19	8 <sup>th</sup> August 2018	14

#### OUTCOME OF THE PROGRAMME:

1. All participants were able to obtain a Driving licence.
2. Driving as a vocation has improved the employment potential of participants in the areas of tourism and hospitality.

## DEPARTMENT OF BOTANY

### VOCATIONAL TRAINING PROGRAMME IN FLOWER ARRANGEMENT

Department of Botany, Nirmala College offers a vocational training programme in Flower Arrangement. Topics based on Aesthetics of color and texture in floristry, plant identification, seasonal availability, unique floral displays etc were discussed in detail. Practical sessions on different methods of floral displays were offered during the classes. The training was focussed on skills and knowledge necessary for a professional floral design career position and to allow the participant to launch their own floral business.

Ms. Kitty Maria Sanil, Purple Rain, Ernakulam, a well-known florist and entrepreneur was the trainer for the programme. She demonstrated methods and various treatments to increase the shelf life of flowers. Using fresh flowers, students explored the basic concepts of flower arrangement while developing personal flair and creativity. Students learn tricks for creating sophisticated floral pieces to enhance any special occasion. The programme also integrated dried and silk flowers into design creation.

#### OBJECTIVES:

1. To provide training on various methods of flower arrangement.
2. To explore the possibilities of a career as a florist
3. To learn various styles of displays using fresh and dried flowers.

Details of the programme from 2014 to 2018 is given below.

Academic year	Date of commencement	No. of Students registered
2014-15	15th July 2014	58
2015-16	22 <sup>nd</sup> August 2015	75
2016-17	11 <sup>th</sup> November 2016	112
2017-18	16 <sup>th</sup> December 2017	118
2018-19	2 <sup>nd</sup> August 2018	117

#### OUTCOME OF THE PROGRAMME:

1. Participants were able to make various displays of floral decorations.
2. The programme gave them an opportunity to express their creativity through flowers.
3. It gave them an insight to a possible career as a florist.

**PHOTOGRAPHS OF TRAINING PROGRAMME IN FLOWER ARRANGEMENT**



**WOMEN CELL, NIRMALA COLLEGE MUVATTUPUZHA**  
**VOCATIONAL TRAINING PROGRAMME IN JEWELLERY MAKING**

Women cell of Nirmala College Muvattupuzha in association with Manna Coaching Centre Muvattupuzha has been organizing jewellery making classes for students from various departments each year. The training was given by skilled experts, for producing exquisite pieces which are on trend. Even the participants who were completely new to jewellery making were educated in the art of making basic jewellery structures and jewellery assembling. Hands on training on handcrafted jewellery using knitting wires, paper, terracotta, wood and threads were given. This creates a great stepping stone for your career. With so many career options in jewellery designing,

**OBJECTIVES:**

1. To make women self-reliant and to earn an additional income for their livelihood.
2. To inculcate a habit of taking responsibilities and to make use of their time productive.
3. To develop entrepreneurship skills.

Details of the programme from 2014 to 2018 is given below.

Academic year	Date of Commencement	No. of Students attended
2014-15	11 <sup>th</sup> December 2014	65
2015-16	14 <sup>th</sup> October 2015	65
2016-17	13 <sup>th</sup> January 2017	62
2017-18	3 <sup>rd</sup> November 2017	64
2018-19	27 <sup>th</sup> October 2018	60

**OUTCOME OF THE PROGRAMME:**

1. This created a preliminary step towards the career options in jewellery designing.
2. Promoted the artistic ability of the students and directed their talent towards a skill which could bring an additional income.

**PHOTOGRAPHS OF VOCATIONAL TRAINING PROGRAMME IN  
JEWELLERY MAKING**



**DEPARTMENT OF PHYSICS**  
**VOCATIONAL TRAINING PROGRAMME IN LED BULB MAKING**

LED lights are gaining huge popularity day by day with its great durability and low consumption of electricity when compared to CFL, traditional bulb, and tube lights. As LED light manufacturing has turned out to be a highly profitable business with low capital investment, Department of Physics, Nirmala College, Muvattupuzha organizes a Training programme in manufacturing LED bulbs, every year from 2015. A step by step hands on training was given providing all the raw materials and instruments for assembly. Students were also given awareness about the use of LED bulbs in their home as an environmental friendly alternative to traditional bulbs. The reduced carbon foot print and non-toxic nature of LEDs were also emphasized in the classes.

**OBJECTIVES:**

- To provide a hands-on training in the manufacture of LED bulbs.
- To develop the entrepreneurial potential of the students.
- To train them to market the LED bulbs locally.

Details of the programme from 2015 to 2018 is given below.

<b>Academic year</b>	<b>Date of commencement</b>	<b>No. of Students registered</b>
2015-16	13 <sup>th</sup> July 2015	36
2016-17	16 <sup>th</sup> August 2016	24
2017-18	18 <sup>th</sup> August 2017	29
2018-19	3 <sup>rd</sup> August 2018	61

**OUTCOME OF THE PROGRAMME:**

1. All participants were able to make LED bulbs by themselves using the raw materials.
2. All the manufactured LED bulbs were sold locally by the participants.

**PHOTOGRAPHS OF VOCATIONAL TRAINING PROGRAMME IN LED BULB MAKING**



## DEPARTMENT OF COMPUTER SCIENCE

### VOCATIONAL TRAINING IN MULTI MEDIA TECHNIQUES

The department of Computer Science conducts vocational training programme on Multimedia Techniques for the under graduate students. The programme aims at developing multimedia skills among students to explore careers in IT industry. This programme offers training on Interactive media, Website design fundamentals, Electronic imaging, Introductory photography, Animation, Multimedia programming, Graphic design, Digital editing. This will equip the students in developing their own creative style and make personal works of digital art.

The participating students will be able to get skills required to make communications in digital and print images, text or animation to attract attention and deliver the messages. Possible career choices include Graphic artist, Digital photographer, Instructional designer, Production assistant and Desktop publisher.

#### OUTCOME OF THE PROGRAMME

- The participating students will be able to get additional skill required for meeting industry demand.
- Students will be able to get employment on IT and ITES industry.

#### Number of students Enrolled Year wise

YEAR	No. of Students
2014-15	32
2015-16	32
2016-17	32
2017-18	34
2018-19	35





**DEPARTMENT OF COMMUNICATIVE ENGLISH**

**VOCATIONAL TRAINING PROGRAMME IN NEWS PAPER MAKING**

The Department of Communicative English has been organising the Vocational Training Programme in News Paper Making in Nirmala College, Muvattupuzha. The course focuses on the news reporting, writing, editing, layout and printing of newspapers of both tabloid and broadsheet sizes. Newspaper is a powerful and cost-effective tool. Newspapers can be used as classroom activities to help improve students' reading and writing skills. A newspaper provides students with the opportunities to enhance their cognitive skills and see how reading and writing are interconnected.

**OBJECTIVES:**

1. To make students aware of the process of newspaper making.
2. Field trips to have an experiential learning.
3. Acquaint with the text editing software.

**SYLLABUS:**

The following Course content is prescribed for the Newspaper Making sessions.

1. Introduction to the journalistic writing
2. The inverted pyramid news writing method
3. Introducing various layouts.
4. Page setting.
5. Introducing Quark Express.
6. Printing.
7. Publishing.

Details of the programme from 2014 to 2018 is given below.

<b>Academic year</b>	<b>Date of commencement</b>	<b>No. of Students registered</b>
2014-15	21 <sup>st</sup> June 2014	35
2015-16	4 <sup>th</sup> June 2015	34
2016-17	12 <sup>th</sup> January 2017	35
2017-18	28 <sup>th</sup> November 2017	35
2018-19	12 <sup>th</sup> October 2018	35

**OUTCOME OF THE PROGRAMME:**

- A newspaper was released each year after every course, including creative as well as factual contributions from all students.
- The programme enriched their relation with their classmates to achieve a common goal.
- Practical skills in reporting, writing, editing, research and newspaper production with a concern for critical and ethical reflection was also imparted

**DEPARTMENT OF COMMUNICATIVE ENGLISH**  
**VOCATIONAL TRAINING PROGRAMME IN RADIO RECORDING AND**  
**BROADCASTING**

Radio is all about communication and running a radio show requires commitment and team work to become a success. The systems we provide are easy enough to be used by all students, regardless of their age or ability. The programme provides a platform for building confidence in students as most people find taking to a ‘mic’ in a closed room far less intimidating than appearing on camera or stage. Instructions on the technical details of audio and visual programme production is also given

**OBJECTIVES:**

1. To familiarise students with the various audio recording and reproducing equipments.
2. To provide them with a hands-on experience on the recording procedure
3. To enable them to speak or perform in compliance with the mainstream radio broadcasting standards.

**SYLLABUS:**

The following Course content is prescribed for the Radio Recording and Broadcasting sessions:

1. Introduction to various studio equipments.
2. Introduction to audio editing software (Reaper).
3. Recording sound.
4. Correcting levels.
5. Mixing sound effects.
6. Rendering output.
7. Broadcasting.

Details of the programme from 2014 to 2018 is given below.

Academic year	Date of commencement	No. of Students registered
2014-15	9 <sup>th</sup> August 2014	65
2015-16	12 <sup>th</sup> June 2015	65
2016-17	7 June 2016	65
2017-18	28 <sup>th</sup> November 2017	65
2018-19	14 <sup>th</sup> December 2018	65

**OUTCOME OF THE PROGRAMME:**

- The trained students were able to handle various studio equipments effectively.
- They were able to edit audio in ‘Reaper’ software.
- Considerable contributions of participants in the Campus radio Broadcasting.

**PHOTOGRAPHS OF TRAINING PROGRAMME IN RADIO RECORDING AND BROADCASTING**



**DEPARTMENT OF CHEMISTRY**  
**VOCATIONAL TRAINING PROGRAMME IN**  
**SOAP AND DETERGENT MAKING**

Department of Chemistry in association with Social Service Society, Diocese of Kothamangalam Nirmala College, Muvattupuzha organized training programmes on Soap and detergent making during the academic year 2014-15, 2015-16, 2016-17, 2017-18 and 2018-19. Students were trained every year through this programme and learned the process of making soaps, detergents and handwash. They were given a brief on the raw materials and its source in the industry. A step by step explanation and hands on training was given to develop good quality soaps and detergents. The programme was designed to help the students who are desirous of taking up self-employment ventures with a small investment. Ms. Alinda Thomas, Alumni, Nirmala College led the training programme in the year 2015-16. This was helpful and motivating for the participants, since the class equipped them to prepare soaps at their home and earn an income.

**OBJECTIVES:**

1. To train students to make handmade soaps and detergents.
2. To familiarise participants with various techniques employed in the process of making soaps.
3. To equip them to take up self-employment ventures.

Details of the programme from 2014 to 2018 is given below.

<b>Academic year</b>	<b>Date of commencement</b>	<b>No. of Students registered</b>
2014-15	18 <sup>th</sup> August 2014	35
2015-16	19 <sup>th</sup> September 2015	31
2016-17	12 <sup>th</sup> January 2017	35
2017-18	28 <sup>th</sup> November 2017	35
2018-19	12 <sup>th</sup> October 2018	32

**OUTCOME OF THE PROGRAMME:**

1. Participants were able to make soaps and detergents by themselves.
2. They learned the business of selling and marketing of soaps.
3. They got familiarised with different recipes of soaps.

**PHOTOGRAPHS OF SOAP MAKING TRAINING**



## NATIONAL SERVICE SCHEME

### VOCATIONAL TRAINING PROGRAMME IN CLOTH CARRY BAG MAKING

The National Service Scheme of Nirmala College offer a Vocational training Programme in Cloth Carry bag making. The increased use of plastics in our daily lives pose serious ill-effects in the ecological equilibrium of environment. Apart from causing pollution, water logging and altering soil quality, it has affected the marine and terrestrial animals lives too. Most of the plastic which ends up in thrash is single use plastics which include plastic carry bags. To help our students to curb this issue and give them awareness about the alternatives to plastic bags, training was provided on how to make cloth bags. Information about the cloth bag market demand and how it can be seen as a new business opportunity was also transmitted through the programme.

#### OBJECTIVES:

- To provide awareness to students on the usage of biodegradable carry bags.
- To create awareness among students regarding the ill-effects of using plastic bags.
- To train them to make bags using recyclable material like cloth.
- To provide information about opportunities available with the cloth bags and its market demand.

Details of the programme from 2014 to 2018 is given below.

Academic year	Date of commencement	No. of Students registered
2014-15	26 <sup>th</sup> August 2014	200
2015-16	12 <sup>th</sup> October 2015	200
2016-17	13 <sup>th</sup> September 2016	200
2017-18	5 <sup>th</sup> October 2017	200
2018-19	7 <sup>th</sup> September 2018	200

#### OUTCOME OF THE PROGRAMME:

1. All participants were able to make Cloth Carry bags by themselves.
2. Participants understood the importance of using biodegradable carry bags.
3. They were equipped to look at a new business opportunity for themselves.

**PHOTOGRAPHS OF VOCATIONAL TRAINING PROGRAMME ON  
CLOTH CARRY BAG MAKING**



**VOLUNTEERS ATTENDING A SESSION UNDER VET PROGRAMME**





**NSS VOLUNTEERS MAKING CLOTH CARRY BAGS UNDER VET PROGRAMME**



**NSS VOLUNTEERS WITH CLOTH CARRY BAGS AND CLOTH CARPET**

## NATIONAL SERVICE SCHEME

### VOCATIONAL TRAINING PROGRAMME IN ORGANIC VEGETABLE CULTIVATION

The National Service Scheme of Nirmala College offer a Vocational training Programme in oorganic farming in and outside the campus. From the year 2014-15 to 2018-19, training was given for a total of 1000 students in agricultural crop cultivation using only organic fertilizers and biological insecticides. They were given opportunities to prepare 60 cents of land for cultivation paddy and plantain. Vegetables like tomato, cabbage, cauliflower, cucumber, pea, chilly etc. were also planted inside the campus in an area of 40 cents. The programme was conducted in association with Krishi Bhavan, Avoly and also by taking advice from local experienced farmers. The organic farming programme was helpful in encouraging the young generation to bid farewell to the usage of chemicals in agriculture. Along with this the farming also created a renewed interest in agriculture among the participants.

#### OBJECTIVES:

- To provide awareness to students on the usage of organic fertilizers and biological insecticides.
- To engage students in the activity of farming and make them proud of the occupation which provides food for humanity.
- To familiarise participants in the process of agricultural crop production.
- To generate revenue through the sale of agricultural products.

Details of the programme from 2014 to 2018 is given below.

Academic year	Date of commencement	No. of Students registered
2014-15	11 <sup>th</sup> August 2014	200
2015-16	17 <sup>th</sup> August 2015	200
2016-17	15 <sup>th</sup> August 2016	200
2017-18	14 <sup>th</sup> September 2017	200
2018-19	30 <sup>th</sup> July 2018	200

#### OUTCOME OF THE PROGRAMME:

- The programme resulted in a yield of 150-200 kg of rice and 10-15 kg of vegetables each year.
- Participants understood the importance of using bio insecticides and organic fertilizers.
- This opened the entrepreneurship opportunities for participants in agricultural management.

**ORGANIC VEGETABLE CULTIVATION – THROUGH THE LENS**







