NIRMALA COLLEGE MUVATTUPUZHA

NIRMALA COLLEG

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



RESEARCH, INNOVATIONS AND EXTENSION

3.4.1. Extension activities in the neighbourhood community in terms of impact and sensitizing students to social issues and holistic development during the last five years

Submitteditto



THE NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL



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NIRMALA COLLEGE MUVATTUPUZHA

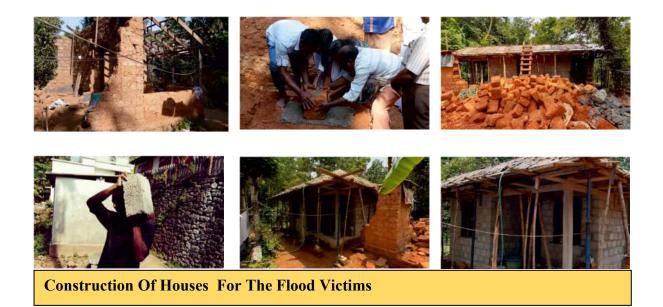
EXTENSION ACTIVITIES FOR HELPING THE MARGINALIZED PEOPLE



HOME FOR HOMELESS-

CONSTRUCTION OF HOUSES FOR THE FLOOD VICTIMS

DATE	NO. OF STUDENTS
25-03-2019	250



Home for homeless - constructed a house after financial collection

Homelessness is the situation of an individual, family, or community without stable, safe, permanent, appropriate housing, or the immediate prospect means and ability of acquiring it. The NSS unit of Nirmala College succeeded in constructing a house for Ms. Ajania Venu, who is pursuing BSc botany at Nirmala College, Muvattupuzha. An amount of Rs. 5,60,000/- was collected from teachers and students. The whole hearted support of the entire team of the NSS unit helped to raise such a big amount and to complete the work on time. The inaugural ceremony was conducted on 25 March 2019, in the presence of the Panchayath President; Jordy N Varghese, ward member; Ayoob Pallikudom and Nirmala College Principal; Dr. T M Joseph. The house constructed has 504 sq. feet area, with two bed rooms. The construction was over in one month with the support of the Programme Officers Dr. Nibu Thomson and Prof. Seema Joseph and the entire NSS team.

HOME FOR HOMELESS: NSS BHAVAN	
DATE	NO OF PARTICIPANTS
05-02-2016	1400



Home For Homeless: NSS Bhavan

As part of "Home for Homeless" programme the NSS unit undertook the construction of three houses in Nadukani, Kothamangalam by providing them financial and physical help (February 2016). Volunteers conducted a fund raising programme by raising fund from the students and teachers of Nirmala College. The families were identified with help of St Thomas Church, Nadukani and church has also taken keen interest in the completion of the project. The volunteers were actively engaged in construction works. The effort of the volunteers is well praised because it brought happiness to three families. It was a group work to inculcate a feeling of togetherness and social concern among the students.

MID-DAY MEAL PROGRAMME		
DATE	NO OF PARTICIPANTS	
22-02-2019	240	



Respecting and caring for our Elders' is one of the moral values which must be inculcated in the minds of youth. In the light of the same, on 14th November 30 cadets of Nirmala College NCC COY visited Shanthibhavan, Vazhakkulam, an old-age home. Food was also provided to needy in general hospital Muvattupuzha. Cultural events were conducted by the cadets in the morning and food was served to the inmates at noon.

NIRMALA HASTHAM - MID-DAY MEAL PROGRAMME

DATE

NO OF PARTICIPANTS

04-08-2017

200



Nirmala Hastham - Mid-Day Meal Programme

"Nirmala Hastham" with the tagline "Give a Hand, Give a Life" is regarded as the greatest charity programmes in the history of Nirmala College, organized by the NSS Volunteers. This programme was intended to provide noon meals to above 150 physically and mentally in nearby orphanage, providence home. Karakkunnam, challenged orphans а Kothamangalam. Every working day, NSS volunteers take up the duty of collecting the food boxes from volunteers, students, teachers, non-teaching staffs etc and served at the orphanage. A permanent stall was set up in the college for collecting the food. What make this programme distinct from others is that, it is not made for a day but as a continuing activity of the college to show its concern for the marginalised people of the society.

MID-DAY MEAL PROGRAMME		
DATE	NUMBER OF STUDENTS PARTICIPATED	
24-09-2014	190	



Food packets distribution to Vimala Bhavan Anikadu and Snehagiri, Vazhakulam

Brief Report of the Activity:

With an aim to inculcate the spirit and emotion towards the needy and the deprived, NSS unit of Nirmala College together with CSM, collected food packets from the student community of the college as part of NSS day celebrations. The programme was celebrated as service day at Nirmala College on September 24, 2014. Food packets were distributed to the inmates of two charity homes, Vimala Bhavan Anikadu, Snehagiri, Vazhakulam and to the needy of Govt. Hospital, Muvattupuzha. Vimala Bhavan and Snehagiri are two charity homes that specially undertake the care and responsibility of the sidelined members of the society especially orphaned mothers and children. Providing food is the best expression of our love and concern for the deprived. So the students arranged special boxes in front of the college and collected the packets without failure.

MID-DAY MEAL PROGRAMME		
DATE	NO OF PARTICIPANTS	
4-10-2015	310	



Mid-Day Meal Programme by NSS Unit, Nirmala college

As part of Gandhi Janyanti celebrations NSS Unit observed SEVANAVAARAM in the first week in October 2015. During this week unit collected food packets from the students of Nirmala College and served it to the nearby orphanages. Volunteers from different department collected food packets on the day assigned to them. So, this made participation of students and teachers from each and every department to this programme.

NIRMAL MITHRA (SPORTS FEST FOR SPECIAL CHILDREN)		
DATE	NO OF PARTICIPANTS	
04-11-2017	150	



The new global movement global movement of people creating a new world of inclusion and community, where every single person is accepted and welcomed, regardless of ability or disability. To develop a feeling of inclusion for differentially abled children with intellectual and physical disabilities and to rrecognise and honour the talents of differently abled children, Department of Management Studies conducted Nirmal Mithra, sports fest for special school children on 4 November 2017. It aimed to boost their self-confidence and bring them to the mainstream. It was also a service-learning opportunity for the students to volunteer their time and adapt programs for the people with disabilities.

BAND TRAINING TO DIFFERENTLY ABLED PUPIL AT NIRMALA SADAN DATE **NO OF PARTICIPANTS**

22-09-2018

35

Band Training To Differently Abled Pupil At Nirmala Sadan

With an aim to impart vocational training to the differently-abled, the NCC team of nirmala college gave training to differently abled children of nirmala sadan, a special school nearby. The cadets taught the children very patiently and the pupils of nirmala sadan enjoyed it very well. The key objective of the programme is to ensure employment for the differently-abled and providing them with economic independence.

PALLIATIVE CLUB FUND COLLECTION 2015-16

The palliative club of the college run by the NSS Unit is determined to extend their helping hand towards the deprived. A Fund collection was conducted by the NSS Palliative club to help Ambily Fathima of CMS College, who was affected by heart and lungs disorder. A total of Rs. 41223/- (Forty one thousand two hundred and twenty three only) was raised through the programme. The teachers, non-teaching staff and students contributed to the fund collection.

National Service Scheme Nirmala College Muvattupuzha Details of Financial Aid to Ambily Fathima

Sl No.	Name of the Department	Contribution
01	Department of Chemistry	
	IIC	1300
	IIIC	625
	IV C	210
02	Department of Zoology	
	II Z	210
	III Z	460
	IV Z	320
03	Department of Physics	
	II P	171
	III P	960
	II P V	1210
	III P V	200
04	Department of Economics	
	II E & V E	700
	III E	550
05	Department of Botany	
	II B	760
	III B	435
06	Department of English	
	IV ENG	386
07	Department of Mathematics	

	II M	1570
	IV M	110
08	Department of Commerce	
00	II K	1085
	III K	1083
	IV K	410
	II K C	365
		680
	III K X	600
	II K M	1588
	III K M	480
	IV K (Self)	340
09	Department of Communicative English	
	II C E	925
	III C E	480
10	Department of Hindi	
	ΠΗ	426
	III H	630
	IV H	240
11	Department of Malayalam	
	III L	342
	IV L	540
12	Department of Computer Science	
	II BCA	700
	III BCA	1250
13	Department of Statistics	
	IV S	310
	VS	70
	TOTAL	23,188

SI No.	Name of the Department	Contribution
01	Malayalam	2300
02	Chemistry	1700
03	Hindi	800
04	Communicative English	500
05	Mathematics	1000
06	Commerce	900
07	Computer Science	800
08	Statistics	600
09	Botany	700
10	Economics	1700
11	Physics	2250
12	Zoology	245
13	Commerce (Jeevajyothi)	500
14	English	2290
15	Non teaching Staff	1350
16	Cooperative Society	200
17	Inaugural Contribution	100
18	Contribution of a Parent	100
	TOTAL	18,035

Contribution of Teaching and Non teaching staff

Details of Financial Aid to Ambily Fathima

Sl No.	Contribution	Amount
01	Students	23,188
02	Staff	18,035
	TOTAL	41,223

MAINTANANCE OF RURAL ROADS IN VELLARAMKUTHU TRIBAL SETTLEMENT

DATE	NO OF PARTICIPANTS
20-12-2014	120

Т



Renovation Of Rural Roads In Vellaramkuthu Tribal Settlement

Improper road connectivity is one of the main reasons stopping growth in rural areas. As a part of improving the lives of people in tribal areas, the NSS unit of Nirmala college renovated the rural roads in Vellaramkuthu tribal settlement on 20-12-2014.

RENOVATION OF RURAL ROADS	
DATE	NO OF PARTICIPANTS
16-09-2016 to 17-09-2016	190



Renovation Of Rural Roads During The Special Camp At Peringassery

Transportation and communication are called the lifelines of a nation and its economy because they are the preconditions for progress and development. Motorable roads are vital for the development of the locality and of importance to the native as it gives them access to healthcare etc. During the special camp at Peringassery the NSS Volunteers renovated the rural roads. Smt. Neethu Baby, Member, Udumpannor Grama Panchayat inaugurated the programme. All volunteers actively participated in the road construction by forming several groups and assigned different task to each group. The roads selected for reconstruction was used by many public but was too damaged because of the heavy rainfall. The volunteers brought brick pieces, stones and mud to fill the damaged roads. 2 kilometers of road were cleared with initiative of active volunteers. Volunteers also built drainage in both sides of the road.

CLEANING OF PUBLIC WELL AND ITS SURROUNDINGS IN VELLARAMKUTHU

DATE

14-11-2014

120

NO OF PARTICIPANTS



Cleaning Of Public Well And Its Surroundings In Vellaramkuthu

To improve access to safe and clean water for the tribal community, NSS volunteers of Nirmala College, Muvattaupuzha cleaned the public well and its surroundings in Vellaramkuthu Tribal Settlement. The initiative was undertaken as an effort to protect every available public water sources.

NIRMALA COLLEGE MUVATTUPUZHA

EXTENSION ACTIVITIES COLLEGE-LOCAL COMMUNITY PARTNERSHIP



CANCER AWARENESS PROGRAMME AND

FREE MEDICAL CAMP

DATE	NUMBER OF STUDENTS PARTICIPATED
20-12-2015	100



Cancer Awareness Programme And Free Medical Camp at Govt. HS Mamalakandom

NSS Unit of Nirmala College conducted a health survey at Govt. HS Mamalakandom during the special camp on 20th December 2015. The camp envisions equipping the volunteers for facing challenges, problem solving, community living and social interaction. The special focus of the survey was to identify the cause of large number of cancer patients in the area. The volunteers were divided into several groups and they were sent to various sections of the village accompanied by the members of Kudumbasree. The programme was also intended to have awareness about the health consciousness of the community and to generate awareness among them about the health problems and remedies. The volunteers conducted a seminar on cancer during this special camp. The seminar included short films, documentaries and video and power point presentations on Cancer, its causes, treatment, and the emotional relationship we should have towards them. A cancer identification and check-up camp were organized. It was organized in collaboration with St. Joseph's Hospital, Kothamangalam. The camp was inaugurated by DR. Sr. Vimala. About 60 persons attended the camp. The camp was successful and 5 persons were identified with chances of cancer and they were recommended for detailed check-up. The camp was well supported by the panchayat authorities and the public. Around hundred volunteers helped for the smooth conduct of the programme.

MEDICAL CAMP	
DATE	NO OF PARTICIPANTS
29-10-2018	200



Medical Camp Conducted By NSS Volunteers In Coordination With Malayala Manorama

The NSS volunteers of Nirmala College in coordination with the Malayala Manorama organized a medical camp in Adooparambu, Muvattupuzha. A group of doctors from Aster medicity, a famous hospital in Kerala, came to consult the people. One among the chief doctors in the group, Dr. Safwa of Emergency medicine delivered an awareness talk on some of the common infections and its preventive measures. After the official gathering, by 10:30 am, the consultation session had begun. Majority of the residents of Avoly panchayath attended the camp. The camp was closed by 4:00 pm.

SANJEEVANAM - FREE MEDICAL CAMP	
Date	No. Of students
03-03-2019	200





SANJEEVANAM - FREE MEDICAL CAMP



Sanjeevanam - Free medical camp

Vision problems and eye disease can occur at any time, regardless of age. A medical camp named "SANJEEVANAM" was organized in Nirmala College, Muvattupuzha with the cooperation of a medical team from Kolenchery Medical mission hospital. The camp was a public awareness initiative focused on educating consumers about the importance of vision health and comprehensive eye exams. The camp aimed at providing medical check up to the residents in Avoly panchayath and supplied medicines at free of cost. To those who were identified with cataract eye, further medical assistance for surgery and treatment were also provided at free of cost.

STEM CELL DONATION AWARENESS AND DONOR REGISTRATION CAMP

DATE

NO OF PARTICIPANTS

26-11-2015

800





Stem Cell Donation Awareness And Donor Registration Camp

Cancer is one of the dangerous diseases that grab many persons' life. Stem Cell donation is one way of expressing our love and concern towards our fellow beings who are affected by cancer. The chance of finding a perfect donor is very rare. So the NSS Unit of Nirmala College in association with DATRI, NGO, Bangalore and Santhigiri College, Vazhithala organized a Stem cell Donation awareness and Donor Registration camp at Nirmala College on 26th November 2015. Aby Sam John, the first stem cell donor from Kerala led an orientation class for the students to educate them about stem cell donation. To educate them about Stem Cell donation a pre-awareness campaign was also conducted on 25th November 2015. 800 students registered as stem cell donors during the campaign.

ROAD SAFETY WEEK	
DATE	NUMBER OF STUDENTS PARTICIPATED
13-01-2015	100



Road Safety Awareness Programme at Muvattupuzha Town Hall

Road accidents increase day by day grabbing the lives of many. It is very important to illuminate the youth regarding the road safety measures. So 11th to 17th January was observed as Road Safety Week, and the NSS unit of Nirmala College in association with NATPAC (National Transportation Planning and Research Centre) and Kerala Road Safety Authority organized a Road Safety Awareness Programme on 13. 01. 2015 at Muvattupuzha Town Hall. The programme aimed at creating awareness among drivers and young road users about the necessity of road safety. There was an active participation of the volunteers, NCC cadets and students from several schools and the public. There was a detailed interactive session on road safety measures and traffic rules. The programme was led by Mr. K Sasikumar, Coordinator, NATPAC.

LOCKS OF HOPE – HAIR DONATION PROGRAMME

DATE	NO OF PARTICIPANTS
01-02-2019	96



Locks Of Hope – Hair Donation Programme

Apart from the technological advancements, cancer still remains as the most dreadful disease, since detection after the primary stage is a matter of hope. Chemotherapy, a type of cancer treatment causes the loss of hair, which is considered as a great privilege to an individual especially women. As part of Cancer day observed on February 4, we embarked a hair donation programme in our college auditorium on 1 February 2019. The tag "LOCKS OF HOPE" was suggested by our programme officer Nibu sir, as loss of hair can also reduce the mental stability, since public exposure get troubled. A group of 96 comprising of students, teaching and non-teaching staff and Parents volunteered themselves without any pressure realizing the value. It is the humanity that resides in every individual provides an impulse for this act of respect.

HAIR FOR HOPE, HAIR DONATION PROGRAMME	
DATE	NO OF PARTICIPANTS
10-02-2017	29



Hair Donation Programme by The NSS Unit of Nirmala College

The NSS Unit of Nirmala College organized Hair for Hope, A Hair Donation Programme in association with Sargashektra Cultural and Charitable Centre, Alappuzha on 10th February 2017. This programme aimed to create more awareness about hair donation, to inspire people to grow healthy hair and donate it for a noble cause. All the donated hair is used to make wigs in for people suffering from long-term medical hair loss due to chemotherapy of cancer patients that look as good as their natural hair. 29 students donated 15 inches of their hair for this noble cause. An interactive session was also arranged to make students aware about cancer and precautions to be taken to avoid risk of cancer. The session was led by Sri. Santhosh Arackal, Resource Person, Sargashektra Cultural and Charitable Centre.

BLOOD D	ONATION
DATE	NO OF PARTICIPANTS
15-09-2018	44



Blood donation is a noble cause as it helps to save precious human lives and is a most remarkable noble act of service to humanity. A blood donation camp was organized by NCC unit of Nirmala college and Ernakulam Taluk Hospital blood bank. The activity was inagurated by Prof.T.M Joseph,Principal Nirmala college. 44 students of Nirmala college donated blood in this activity.

BLOOD DONATION CAMP	
DATE	NUMBER OF STUDENTS PARTICIPATED
09-10-2014	38



Blood Donation Camp Organized In Association With HDFC Bank, Muvattupuzha

Brief Report of the Activity:

Every year our nation requires about 4 crore units of blood. But hardly 40 lakh units of blood are available. As blood cannot be manufactured, it comes only from generous donors. So, as socially responsible citizens of the nation, it is our duty to donate blood to the needy. Under the initiative of NSS Unit of Nirmala College, a blood donation camp was organized in association with HDFC Bank, Muvattupuzha,on 9th October 2014. Thirty-eight students donated blood in the camp. The donors were awarded certificates of appreciation in their respective classes by the class teachers to appreciate them and to promote the spirit of blood donation among other students.

BLOOD DONATION CAMP	
DATE	NO. OF PARTICIPANTS
27-07-2015	40



Donating blood is a vital way to help save lives. The unit pays keen attention to promote blood donation among the youth through a number of blood donation programmes. The first blood donation camp of the academic year 2015 was conducted in association with Regional Blood Transfusion Centre, Aluva on 27th July 2015. Forty donors including students and teachers donated blood in the camp. The donors were awarded certificates of appreciation in their respective classes by the class teachers to appreciate them and to promote the spirit of blood donation among other students.

BLOOD DONA	TION CAMP II
DATE	NO OF PARTICIPANTS
09-12-2015	32



Blood Donation Camp at Nirmala College



Blood Donation Camp at Nirmala College

The second blood donation camp of the year was conducted on 9th December 2015 in association with Kottayam Medical College and HDFC Bank. Several students and teachers donated blood during the camp. The camp conducted creates an awareness among the students about the importance of blood donation.

BLOOD DONATION CAMP	
DATE	NUMBER OF STUDENTS PARTICIPATED
09-12-2015	32



Blood Donation Camp

Blood donation is a voluntary procedure that can help save the lives of others. Under the initiative of NSS, a second blood donation camp of the year was conducted on 9th December 2015 in association with Kottayam Medical College and HDFC Bank. Several students and teachers donated blood during the camp.

MY HEART BEATS FOR INDIAN ARMY – MARATHON ON WORLD HEART DAY

DATE

NO OF PARTICIPANTS

29-09-2018

150



Marathon On World Heart Day

Nirmala College NCC cadets organised marathon named "My heart beat for Indian Army". 150 NCC cadets participated in the marathon that was flagged off by the Block Panchayath Member T. M. Haris. The marathon started from Nirmala College and concluded at Municipal bus stand Muvattupuzha. NIRMALA COLLEGE MUVATTUPUZHA

EXTENSION ACTIVITIES

SWACHH BHARATH ABHIYAN



CLEAN CAMPUS, GREEN CAMPUS	
DATE	NO OF PARTICIPANTS
14-07-2018	420



Clean Campus, Green Campus Programme

Students of Nirmala College worked hand in hand for a beautiful and elegant campus, and launched a 'Clean campus, Green campus' programme. The activities included: cleaning the entire campus, placing trash barrels and wheel bins for biodegradable and non-biodegradable wastes separately, sorting out the plastics, removed the over grown vegetation, planted around five hundred saplings, introduced vermi composting and rainwater harvesting mechanism in the college premises. The students were divided into different groups for the ease of completion the programme. The entire campus of Nirmala College, spread over 53 acres of land with around six buildings were cleaned and beautified. For the waste produced in the institution an effective management scheme was implemented with the help of the management authorities.

SWATCH BHARATH RALLY	
DATE	NO OF PARTICIPANTS
22-01-2019	75



Swatch Bharath rally was conducted by the NCC unit of Nirmala College along with Nirmala Higher Secondary School and SNDP Higher Secondary School, Muvattupuzha. The Rally was inaugurated by Sri. Jayakumar S. (Circle Inspector of Police, Muvattupuzha). Cadets carried placards about personal hygiene and social commitment for clean environment. Rally started from Nirmala College and covered places such as KSRTC junction, post office junction, Kacherythazham, Nehru Park, Velloorkkunnam signal junction, Market road and Chalikkadvu Bridge, Muvattupuzha, by marching nearly eight kilometres.

CLEAN INDIA MISSION	
DATE	NUMBER OF STUDENTS PARTICIPATED
02-10-2014	200



Brief Report of the Activity:

Cleanliness is the physical manifestation of purity of one's mind and his consciousness. Gandhiji says, "I will not let anyone walk through my mind with their dirty feet." On 2ndOctober 2014, the birthday of this great man, who envisioned purity in all walks of life, the student community of Nirmala College conducted Clean India Mission programme at Muvattupuzha and the volunteers took oath to work for a clean India. As part of the mission the volunteers and the students of Nirmala College actively participated in the clean mission programme in Muvattupuzha. The programme was inaugurated by Sri. U. R Babu, Chairman, Municipality, Muvattupuzha. The council members of the municipality and members of Kudumbasree also participated in the programme.

CLEAN INDIA MISSION	
DATE	NUMBER OF STUDENTS PARTICIPATED
02-10-2016	200



Clean India Mission Programme At Muvattupuzha

Brief Report of the Activity:

Cleanliness is the physical manifestation of purity of one's mind and his consciousness. Community cleanliness drive is a brilliant way of making India clean. Gandhiji says, "I will not let anyone walk through my mind with their dirty feet." On 2ndOctober 2016, the birthday of this great man, who envisioned purity in all walks of life, the student community of Nirmala College conducted Clean India Mission programme at Muvattupuzha and the volunteers took oath to work for a clean India. As part of the mission the volunteers and the students of Nirmala College actively participated in the clean mission programme in Muvattupuzha.

CLEANING AT MUVATTUPUZHA	
DATE	NO OF PARTICIPANTS
10-07-2018	20



Cleaning Of Muvatupuzha Riverside Walkway By NCC Cadets



Cleaning Of Muvatupuzha Riverside Walkway By NCC Cadets

Twenty NCC cadets of Nirmala College participated in cleaning the walk-way of Muvattupuzha riverside walkway". It was filled with plastic waste and rubble. The cadets went and collected plastic waste in separate bags so that it can be used for recycling. Reusable waste was collected and handed over to municipal cleaning staff. Fire and rescue team also participated in that event and encouraged the cadets. The station in charge thanked Nirmala College cadets for cleaning the waste on the walkway of the riverside.

CLEANLINESS DRIVE (ANICADU TO COMPANYPPADI)	
DATE	NO OF PARTICIPANTS
22-10-2018	91



Cleanliness Drive From Anicadu To Companyppadi

NCC cadets of Nirmala College went to clean the terrains of Thodupuzha - Muvattupuzha state highway from Anicadu to Companyppadi. 91 cadets participated in the event and they collected the plastic bottles and other plastic waste for recycling. Avoly panchayath president Sri. Geordy Varghese inaugurated the activity.

CONSTRUCTION OF TOILETS FOR TRIBES

DATE

NO OF PARTICIPANTS

10-08-2016 to 15-08-2016

200



Construction Of Toilets For Tribes In Peringassery

Sanitation is important for their health, safety and dignity. The importance of hygienic toilets lies in an effort to prevent diseases which can be transmitted through human waste, which afflict both developed and developing countries. The NSS Unit took initiative to construct two toilets for economically and socially backward tribes in Peringassery. Two families were identified with the help of the panchayat member Smt. Neethu Baby. Volunteers themselves prepared plan for the toilet pit and started digging using their tools. The landscape of the place was not good for the vehicle to reach the place. So, the volunteers together in different groups brought building materials bricks, sand, cement to the construction site. The volunteers interacted with the tribes and the programme served as a platform for cultural exchange.

NIRMALA COLLEGE MUVATTUPUZHA

EXTENSION ACTIVITIES FOR ENVIRONMENT PRESERVATION



1. SACRED GROVE CONSERVATION WORKSHOP AND BIODIVERSITY DOCUMENTATION PROGRAMME

DATE	NUMBER OF STUDENTS PARTICIPATED
30-01-2015	60



Sacred Grove Conservation Workshop And Biodiversity Documentation Programme At Nagappuzha

Brief Report of the Activity:

Members of Nirmala Nature Club devoted a day for the conservation of the sacred grove in Nagappuzha Santhukad Durga Bhadra Sastha Naga Temple on 30-01-2015. The temple and associated sacred grove is one of the eleven selected sacred groves by the Forest Department, Govt. of Kerala. The renovation of the sacred grove and conservation of associated flora and fauna was jointly done by the Department of Zoology, Nirmala College, Muvattupuzha, Social Forestry wing of the Kerala Forest Department, Temple management committee and a couple of neighboring schools.

The Management Committee of the temple in collaboration with Social Forestry wing of Kerala Forest Department and the Post Graduate Department of Zoology of Nirmala College Muvattupuzha organized a one day sensitization programme and field study to document the flora and fauna of the sacred grove in order to prepare a plan for restoring the old charm of the area and for the long term conservation of the sacred grove. A team of P G students and second year B.Sc. students and three faculties from the post graduate Department of Zoology attended the programme in 30 January 2015. In addition, students from the MKNM HSS, Vengallore participated in the programme. The programme started with a public meeting presided by Prof. V.S. Reji, Associate Professor, SN College, Nattika. Dr. Shaju Thomas, Rtd. Professor, Sri Anil K, Principal, MKNM HSS Kumaramangalam, Dr. Gigi K.Joseph, Nirmala College. All the speakers highlighted the need for conservation, people's participation in conservation and the commitment needed for restoring the past glory of the sacred grove. Dr. Gigi K. Joseph, Asst. Professor, Nirmala College took various sessions on current environmental issues and biodiversity conservation. It was followed by the Biodiversity documentation survey all along the nooks and corners of the temple premises. The students were glad to see the healthy saplings they planted few years before. In the mean time they could document the various types of butterflies, beetles, dragon flies, grasshoppers, spiders, birds etc. The identification of fauna was done with the guidance of faculty members like Dr. Vinod K. V., Ms. Jisha Jacob and Dr. Gigi K. Joseph. The one-day study resulted in identifying 16 species of butterflies, three species of Odonates, five species of other invertebrates, two species of reptiles, 13 species of birds and one species of Mammal. The recommendations were informed the authority.

CLEANING OF ANIKADU WATERBODY	
DATE	NO OF PARTICIPANTS
27-01-2017	168



Cleaning Of Anikadu Waterbody

Clean water is essential not only to remain safe from disease but also to maintain good health. Clean water is not just needed for drinking but for sanitation purposes as well. Anikadu Waterbody or Anikadu chira located is close to Thruvumplavil temple is known as 'keralathilae kashi'(Kashi of Kerala) The unit successfully initiated Anikadu Waterbody Conservation Project in collaboration with Green People, Environmental Organization, Residents Associations and Avoly Grama Panchayat on 27th January 2017. Sri Captain Raju, Cine Artist inaugurated the cleaning programme. Sri. Eldho Abraham, MLA, Sri. Babu Paul, Ex MLA, Sri. Joseph Vazhakan, Ex MLA, Muvatupuzha and Sri. Geordi Varghese, President, Avoly Grama Panchayat facilitated the function. A group of 200 volunteers with the support of Green People and local people took up the massive work and completed it on time with their own traditional resources and techniques. They undertook the work that includes removing grass, plastic wastes, removing encroachments and beautifying the lake. They are concerned about the condition of the environment they live in and are aware that a secure future will not be there unless they themselves take steps to ensure it. It was this realization that prompted more than 200 students of Nirmala College, Muvattupuzha to initiate this cleaning drive. The cleaning drive started around 9 a.m. and continued till the evening. The campaign turned successful with the students being able to drive home the need for clean water bodies in all localities. They were also able to convince the local people to stop dumping waste into the ponds, marking the first step towards the conservation of these water bodies.

SETTING UP CONSERVATION PARKS (BUTTERFLY	
GARDENS) IN SCHOOLS AND COLLEGES	
(MOBILISING STUDENT PARTICIPATION FOR BIODIVERSITY	
CONSERVATION)	
DATE	NO OF PARTICIPANTS
21-08-2015	133

Science Popularisation Project 2016 Kerala State Council for Science, Technology and Environment Govt. of Kerala & Nirmala College, Muvattupuzha

Conservation parks are becoming more and more popular themes for biodiversity conservation. Butterfly parks, bio parks, herbal gardens etc., are some of the conservation parks that can be set up for conservation and for generating conservation awareness. In the current programme, butterfly parks will be set up in the school / college campus since butterflies are ecologically and aesthetically very important so much so, they have been widely used in Zoos and Museums to promote environmental awareness. Captive breeding of butterflies both for exhibiting and for preparing curios and souvenirs is a major industry in several countries such as Malaysia, Singapore, Papua New Guinea, UK, USA and Canada. Butterfly houses are also becoming increasingly popular both at Zoos and natural History Museums as separate tourist spectacles and they have an important role in awareness are yet to be initiated in India because of the provisions of the Indian Wildlife Act, under which trade of butterflies or articles made out of them is prohibited. It is in this context that attempts were made to maintain butterflies in carefully landscaped gardens termed as "Butterfly Gardens", where the visitors can observe butterflies in their natural settings.

Butterfly gardening is designed to create an environment that attracts butterflies. Butterfly gardening is often aimed at inviting those butterflies and moths to lay eggs as well. Because some plants are not fed upon by adult butterflies, the caterpillar host should also be planted for a bigger population of butterflies. Butterflies typically feed on the nectar of flowers, and there are hundreds of such plants that may be planted to attract them, depending on the location, time of year, and other factors. In addition to the planting of flowers that feed butterflies, other means of attracting them include constructing "butterfly houses", providing sand for puddling, water, and other resources or food items. The gardens established at Peechi and Nilambur were very successful attracting a large number of people particularly students. Establishment of a garden of flowering and ornamental plants with butterflies, bees and birds hovering the flowers is a novel idea and can form a theme of ecological and economic benefit under ecotourism programmes.

Objectives

To generate conservation awareness among students through participatory conservation ventures.

Participating Institutions

- 1) Nirmala College, Muvattupuzha
- 2) Viswajyothi Engineerig Collge, Vazhakkulam
- 3) St Sebastian's HS Anicadu
- 4) Govt HSS Sivankunnu, Muvattupuzha
- 5) Govt East HSS Muvattupuzha
- 6) Govt Model HSS Palakkuzha
- 7) Sacred Heart HS Ayavana
- 8) Mar Stephen VHSS Valakom
- 9) SNDP HS Muvattupuzha
- 10) Govt. HSS Pezhakkappally

Method of implementation

In this programme, attempts were made to generate conservation awareness among students through theory presentations and hands on outreach activities by encouraging students to set up butterfly gardens / bio parks in their school / college campus. By setting up such parks, students got information pertaining to various life forms present in our ecosystem and also became aware of the need for conserving environment.

Periodical training workshops for teachers and students from all participating institutions were conducted. The Resource Person attached to this project gave classes on various aspects of biodiversity conservation and also helped them in setting up conservation parks. He was also helping them in identifying various plants and animals, record the citation of various organisms colonised in the parks due to habitat enrichment and also guide them in maintaining the parks.

Regular awareness programmes with the help of power point presentations were conducted in participating educational institutions mainly by the resource person and Principal Investigator. Field demonstrations and visits were regularly carried out in the participating institutions. Suitable Education materials, handbooks etc were developed and distributed to students who participate in the project. Student projects on butterfly diversity and abundance in the butterfly gardens were conducted by interested students in the respective institutions. Such generated informations were documented. Field trips to the nearby well organised butterfly gardens like the one in KFRI and Thattekkad WLS for selected students

Implementation Progress of the Project

The project was initiated immediately after receiving the first instalment of Rs 75000 form Kerala State Council for Science, technology and Environment, Government of Kerala on 9th December 2015. The Principal Investigator (PI) of the project had gone to the selected educational institutions in the Muvattupuzha educational district, briefed about the project outline and received consent from the institution authorities to implement the programme. It was followed by a project initiation meet in 14 December 2015. The teachers in charge of nature club / eco club along with selected students participated the programme. The PI briefed the objectives , methodology and brief outline of the project. Sites were identified for the establishment of butterfly gardens in the selected institutions.

Butterfly Garden Training Workshops

The first butterfly training workshop for teachers and students from all participating institutions was conducted on 17th February 2016. A total of 57 people including 17 teachers and 37 students from all participating institutions attended the training programme. Dr. Gigi. K. Joseph, the Principal Investigator, welcomed the gathering. Prof. P. C. Mary, Head of the department of Zoology presided over the meeting. The training workshop was inaugurated by Rev. Dr. Vincent Joseph, Principal, Nirmala College Muvattupuzha. The Keynote address

was made by Dr. George Mathew, Emeritus Scientist (Rtd), KFRI Peechi. Prof. Jose Karikunnel, Vice principal and Rev. Fr. Jose Pulparampil, Bursar felicitated the occasion. Dr. Vinod K. V. Asst. Professor, Dept of Zoology posted vote of thanks to everyone. The inaugural session was followed by the presentation by Dr. George Mathew with the help of power point to the trainees on the concept of developing butterfly gardens and its conservation. Frequent Interaction with the participants along with the presentation made it very lively. Finally a scheme was prepared for setting up butterfly parks through student participation. A field demonstration was also made in the Nirmala College Campus for how to design a butterfly garden in school compounds.

Establishment of Butterfly Gardens in institutions

Immediately after the training workshop, the students and teachers involved in developing butterfly gardens in their institutions. A small grant was given to every institutions to initiate the development of the gardens. Seedlings of host plants and food plants were purchased and planted. Students brought native host plants and planted in the garden. But the extra ordinary hot climate in the summer months was a challenge for the survival of many seedlings. At the onset of monsoon, the gardens started flourishing in the participating institutions.

A model butterfly garden was initiated in Nirmala College campus. An area if 10 cent area in the college campus was selected for establishing the butterfly garden. As per the guidance of the resource person, trails were made in the selected area for the garden. Fences were created around the garden so as to reduce external disturbances. Appropriate host plants and food plants were planted in the garden (Table 1.) Most of the plants were food plants which produce bright flower, honey and nectar to the butterflies. However many species perished over time. But successive planting of these species were vital in developing a good garden. With the establishment of these plants, gradually butterflies started coming in large number and stay back in the garden. Simultaneously a study on the diversity, abundance and their ecological relationships of butterflies were studied as part of the student project. The PI used to continuously monitor the development of such activities in those institutions. However it is a long term process to establish a fully developed butterfly garden. But in the meantime the students and teachers learn a lot regarding the biology, ecology and environmental issues regarding butterfly conservation

Butterfly sensitisation programmes

A series of butterfly sensitisation programmes were conducted in the participating institutions with the help of power point presentation developed exclusively for the concept. The presentation is very often covered different aspects like population statistics, biology, lifecycle, food plants, host plants, development of the gardens, maintenance and conservation issues regarding butterflies. It was generally followed by an interactive session. The garden visit along with the students and teachers also helped a lot to disseminate the various subtle features about butterfly conservation and environment conservation issues to them. Meantime the development of the garden was also being monitored. The butterfly sensitisation programmes were lead by Principal investigator, resource persons like Dr. George Mathew, Dr. Vinod K. V., Assistant Professor, Dept of Zoology Nirmala College and Dr. Shibin Mohanan, Assistant professor, Department of Botany, Nirmala College, Muvattupuzha.

Gardens in the participating institutions were visited by the resource persons and interactive talks were conducted with students in their garden. It helped them a lot for developing the garden in a better way. Leaflets featuring the development of butterfly garden was developed and supplied to every institutions. In addition to the leaflets, a copy of the Illustrated book on 'The Butterflies of Kerala' authored by Dr. George Mathew was supplied to every participating institutions. It can be readily used as a reference book for identifying almost all possible butterfly sightings in the school/ college premises and garden. In every institutions few students were selected for day to day data collection regarding the occurrence of various butterfly species in their garden. Students are keen to observe their host and food plants.



Inauguration Of The Butterfly Garden Training Workshop At Nirmala College Muvattupuzha



Dr. George Mathew Is Leading A Session In Butterfly Garden Training Workshop



Students And Teachers From Various Institutions Participating The Training Programme



Dr. George Mathew Is Explaining Various Techniques To The Trainees In The Field



Dr. George Mathew Is Planting The First Host Plant In The Garden



Students of Viswajyothy Engineering college are planting lemon plants



Students Keep On Watering The Plants In The Hot Months..



PI Is Interacting With The Students In Front Of Their Butterfly Garden



PI Is Interacting With Students Of SH High School Ayavana



Students Of Govt HSS Pezhakkappally Are Interacting With PI



Dr. George Mathew Is Giving A Book On The Butterflies Of Kerala To All Schools



Butterfly Conservation Awareness Programme In Various Schools



Awareness Programme In SH High Schools Ayavana



PI Is Taking A Session On Butterfly Conservation In Govt HSS Pezhakkappilly



Students Of Nirmala College Are Visiting A Butterfly Garden At KFRI Peechi



Students Visit A Butterfly Garden At Thattekkad WLS

VEGETABLE DEVELOPMENT PROGRAMME

DURATION	NO.OF STUDENTS PARTICIPATED
2014-15	200

NSS Unit of Nirmala College, Muvattupuzha have undertaken a Project 'Vegetable Cultivation **Programme'** in association with Department of Agriculture, Govt. of Kerala. The programme intended to educate Student community especially NSS Volunteers for vegetable cultivation. The project was aimed to cultivate vegetables through student participation. The students have gained knowledge about agricultural practices and took the initiative to undertake homestead cultivation in their own houses. Self-sufficiency in vegetable production could be attained.

Specific Objectives Attained:

- 1. Produced chemical/ poison free fresh vegetables
- 2. Awakened interest among students for vegetable cultivation in their houses.
- 3. Practiced sustainable agricultural practices.
- 4. Created an atmosphere of democratic living- Cooperation of student groups.
- 5. Attained knowledge about seeds, bio- fertilizers, bio pesticides, ploughing, sowing, periodical care, watering, harvesting and its marketing.

As the first step, awareness training was given to the students on vegetable cultivation. The training was lead by Mrs. Anju Baby, Agricultural Officer Krishibhavan, Avoly. NSS Volunteers and members of Nature Club participated in the training programme. The students were informed about the project and its need and importance. The programme addressed relevant issues of agriculture including shortage of vegetables, dependency of the state, consumption of poisonous vegetables, sustainable agricultural practices, and the role of institutional cultivation and homestead cultivation in Kerala. Another interesting session was about the problem of management and production of bio manure. Students were informed about the problem of that can be utilized for vegetable cultivation. The session was very informative and it aroused interest among students to take up the project.



The 80 cents of land for vegetable cultivation was prepared by volunteers on 2nd and 9th November 2014. Volunteers ploughed the land and felled down the branches of the trees for easy getting of sunlight.



NSS Unit conducted a Three Day Mini Camp from 15th to 17th November 2014 for vegetable cultivation. 120 students attended the camp. During the Camp, the project was inaugurated by Sri. Jose Perumbillikunnel, President, Block Panchayat, Muvattupuzha by planning the seedlings along with Rev. Dr. Vincent Nedungattu, and Mrs. Sheela Prasad, Assistant Director of

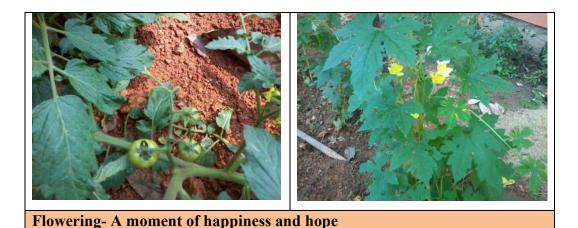
Agriculture on 15th November 2014. Prof. Jose Karikunnel, Vice Principal, Mrs. Anju Baby, Agriculture Officer, Avoly, Mr. Ancy Thomas, Agriculture Officer, Arakuzha and Other staffs of KB Avoly attended the fuction. Smt.Sheela Prasad ADA, Muvattupuzha explained about the scheme.

After the inaugural function, a training session was arranged for the volunteers. The classes were taken by Agriculture Officer and Sri. Bose Varghese, Agricultural Assistant, Krishibhavan, Avoly.

On 16th November 2014 the students planted the remaining seedlings on the initially prepared land. The volunteers planted the following vegetables:

- 1. Amaranth
- 2. Chilly
- 3. Brinjal
- 4. Salad Cucumber
- 5. Cabbage
- 6. Cauliflower
- 7. Tomato
- 8. Bhindi
- 9. Bitter guard
- 10. Snake guard
- 11. Ridge guard
- 12. Cow pea semi trailing
- 13. Cow pea trailing
- 14. Dhohchos bean
- 15. Banana
- 16. Ash guard
- 17. Bottle guard

Along with them Basalla and Gaint Passion fruit were cultivated out of interest. Land was prepared in to ridges and furrows. In furrows cow dung was mixed and seeds of cowpea, Bhindi, Bitter gourd, snake gourd and sword bean were planted in furrows. Vegetables seeds and seedlings were obtained from AMPRS Odakkali. Seedlings of cabbage, cauliflower, chilli, brinjal were also obtained from the AMPRS. These seedlings were also planted in furrows. Amaranth seed was sown in the nursery. The plot identified for amaranth was kept vacant at that time and later transplanted the crop. Students watered the plants daily in the morning and evening. They were very much interested to see the growth of plants. The garden was maintained under organic pesticides only. Clean cultivation was practiced. Cow dung along with neem cake was applied at first earthing up. As prophylactic measure a prophylactic spray of pseudomonas 3ml/ltr and Beuvaria 3ml/ltr were done at quarterly interval. As a result no pest and disease problem was identified in the field





PLASTIC SHREDDING UNIT- TO REUSE PLASTIC FOR	
TARRING ROADS	
DATE	NUMBER OF STUDENTS PARTICIPATED
21-01-2015	123



Plastic Shredding Unit by The Department of Chemistry

The Department of Chemistry had installed a plastic crushing unit in the college with the objective of making a Plastic Free Campus. The students of NSS brought plastics from their houses and arranged a collection campaign in the college. The collected plastics were later crushed with the help of the machine and used the same for tarring the roads in the campus.

NIRMALA COLLEGE MUVATTUPUZHA

EXTENSION ACTIVITIES FOR WOMEN EMPOWERMENT



MUSHROOM CULTIVATION AND SALE OF ORGANIC PRODUCTS

DATE	NUMBER OF STUDENTS PARTICIPATED
09-06-2014	200



Mushroom Cultivation By The Undergraduate Students From Dept. Of Botany

Brief Report of the Activity:

On 09-06-2014 a group of undergraduate students from Dept. of Botany under the guidance of their teachers attempted to cultivate mushrooms in small scale in the campus. Sr.Dr Tessy Joseph, Associate Professor Dept. of Botany guided them and gave all the instructions. Production was started in the month of June and finished in September. They could produce a total quantity of 19.7 kg of mushrooms in three months and was sold to people living near to the college at reduced price. The extension programme was intended not only as an income generating source for the dept., but also to train students in mushroom cultivation, who can share it among others who are willing to enter such farming methods.

With an aim to develop entrepreneurial skills among the women of the adopted village and to make them self-reliant, a workshop on mushroom cultivation was offered to kudumbashree units of avoly

APICULTURE



Apiculture is a method of rearing honey bee colonies by humans in order to collect products like honey, beeswax, propolis etc. With an aim to promote women entrepreneurship and to move a step towards gender equality, Nirmala College Muvattupuzha conducted workshops on apiculture for the wopmen in adopted village Avoly

SOAP MAKING	
DATE	NUMBER OF STUDENTS PARTICIPATED
19-09-2015	50



The NSS unit conducted a workshop on soap making during the mini camp. Ms. Alinda Thomas, Alumni, Nirmala College led the workshop. The workshop included practical sessions to make soap, detergent and hand wash. The class equipped participants to prepare soaps at their home and earn an income. The programme was conducted with an aim to empower girls through self-reliance.

VOLUNTEERS FOR NATIONAL EXHIBITION	
DATE	NUMBER OF STUDENTS PARTICIPATED
13-12-2015	200

Nirmala College was fortunate to host the 42nd Jawaharlal Nehru National Science Mathematics and Environmental Exhibition for Children 2015. It was after 20 years that the state of Kerala hosted such an event. Students from all parts of India arrived with their exhibits to Nirmala College. The programme was organized by Department of General Education, Govt. of Kerala and NCERT. The NSS students of Nirmala College actively served as volunteers during Exhibition.

WOMEN EMPOWERMENT THROUGH ENTREPRENEURSHIP DEVELOPMENT – WORKSHOP ON CARPET AND CLOTH CARRY BAG MAKING

DATE

NO OF PARTICIPANTS

05-10-2017

100



Workshop On Carpet And Cloth Carry Bag Making

The role of women as business owners is gradually increasing all over the world. Women entrepreneurship development is the instrument of women empowerment. In order to empower women though encouraging entrepreneurship. A Workshop on carpet and cloth carry bag making is another initiative of the Centre for Women Empowerment of the college. The programme was conducted with the assistants of experts from Kudumbasree, on which students as well as members of various Kudumbasree units actively participated. The workshop sensitised the participants about the ill effects of using plastic carry bags and trained them to make environment friendly recyclable carry bags by using both paper and cloths.

AWARENE	SS PROGRAMME ON SOLID WASTE		
	MANAGEMENT		
DATE	NUMBER OF STUDENTS PARTICIPATED		
11-10-2014	100		
11-10-2014	100		



Awareness Program On Solid Waste Management At Nirmala College



Awareness Programme Conducted In The Adopted Village, Avoly Panchayath

Brief Report of the Activity:

With the advent of industrial revolution, the management of solid waste is a serious concern in our society. Due to improper management of waste generated, public places have turned into trash grounds. Most of the people in our society are unaware about its consequences. In this regard the NSS unit of our college has conducted an awareness program on solid waste management in the campus on 11th October 2014. Later an awareness programme was conducted in the adopted village, Avoly panchayath to educate people on eco-friendly waste management techniques, the volunteers visited many houses as part of the programme. This program was intended to educate the local people about eco-friendly protocol of waste management. The volunteers were divided into several groups and sent to different wards of the panchayat. They were accompanied by Kudumbasree members. The programme was inaugurated by the president of Avoly Grama Panchayat. Ms. Mary Baby. The mission was led by Mr. George Thekkumpuram and Mr. Arjun K (ward members of Avoly Grama Panchayat) and Ms. Lucy Mathew, CDS chairperson.

SEMINAR ON E-WASTE MANAGEMENT		
DATE	NO OF PARTICIPANTS	
26-02-2016	80	



Seminar On E-Waste Management

The greatest threat that mankind faces today is the management of wastes, especially Ewastes. In order to improve the E-wastes management in Muvattupuzha an E- waste management awareness class was held on 26th February. The unit plans to collect E-wastes and dispose them scientifically in association with Clean Kerala Company, a government undertaking in this regard. Joseph Vazhakkan, MLA, Muvattupuzha inaugurated the project. Kudumbasree members, Asha workers, Municipal Counsellors, Panchayath ward Members , volunteers and NSS programme officers from various schools and colleges, Merchant association and resident association members attended the programme.

WORKSHOP	ON E-GOVERNANCE
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DATE
21-12-2015

NUMBER OF STUDENTS PARTICIPATED 50



Workshop On E-Governance

A Workshop on E-Governance was arranged for the public by students of Nirmala College at Govt. HS Mamalakandom on 21st December 2015. It was intended to popularize the online government services. Around 70 Kudumbasree members attended the class and benefitted out of it. They were given with practical sessions to use computer and browse on internet to avail government services.

SOIL ANALYSIS

Soil analysis is an important diagnostic tool to determine the nutrients in soil. Department of Chemistry offer consultancy services to local residents for soil analysis. The objective of soil analysis is to evaluate the fertility status of the soil and estimate of the amount of fertilizer nutrients needed to supplement those in the soil. Applying the appropriate type and amount of needed fertilizer will give the agricultural a more reasonable chance to obtain the desired crop yield. Soil testing can also be used to identify elements that could harm the environment. Soils are tested routinely for the primary nutrients phosphorus (P), potassium (K), nitrogen (N), calcium (Ca), magnesium (Mg), and sulfur (S). Soil analysis helps to predict the probability of obtaining a profitable response to fertilizer application.

64 Soil Analysis 2014-110 Soil sumple I - Collected groom Result Calcium Magnesium er saluble 3 **Consultancy Service For Soil Analysis To Local Community**

3/9/2014 Soil sample I - Collected grom Rubber plantation Kurtan P.U. Panlarukumet house Heepkuppamp.D. Hurathypuzhq Results Amount of Cas Mg - 0.75 Mcg/lin Amount of Bicurbonate - 0.4 Mcguirts Amount of water soluble salt - 0.1×103 ppm Halle hull top 2/3/2015 Soil Sumple - 4 Soil Sample collected groom Nutmey plantation Near Thodypoha Mr. M.K. Kurwila Manuyani hause Madakkathur Hapjulloor Papihayat. Result Amount of Ca. o Mg - 0.67 Meyer / Is Amount of water soluble sult - 103 ppm Amount of Bicurbonate - 0.6 Hilli equivalents **Consultancy Service For Soil Analysis To Local Community**

ANALYSIS OF DRY RUBBER LATEX - CONSULTANCY

Rubber plays a vital role in Indian economy as it is important for the production of tires, medical gloves, and other rubber-based products. It is essential in various sectors such as defence (civil, aviation, aeronautics), agriculture, transport, textile engineering industries, hospitals, sports etc. Rubber products have significant contribution in Export also. Kerala and Tamil Nadu are leading producers of Rubber. Rubber latex contains about 30- 40 % of rubber particles and 55-65 % of water. The price of the rubber latex depends solely on dry rubber content (DRC). Therefore, it is essential to know the amount of DRC in the latex before trading. Department of Chemistry is providing consultancy/testing services for rubber latex analysis. Many local residents and farmers have made use of this facility to analyze the quality of their rubber latex.

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Consultancy Service For Dry Rubber Latex Analysis Offered To Local Farmers

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Consultancy Service For Dry Rubber Latex Analysis Offered To Local Farmers

WATER ANALYSIS

Clean drinking water is the most essential requirement of our lives. Water is also needed in industries, irrigation, swimming, fishing etc. Water for different purposes has its own requirements for composition and purity. Each body of water needs to be analysed to confirm its suitability. Water quality and suitability for use are determined by its taste, odour, colour, and concentration of organic and inorganic salts. Contaminants in the water can affect the water quality and subsequently the human health. Hardness in water due to presence of certain salts of calcium, magnesium and other heavy metals dissolved in it. The degree of hardness of drinking water has been classified in terms of the equivalent CaCO₃ concentration as follows:

Soft	0-60mg/L
Medium	60-120mg/L
Hard	120-180mg/L
Very Hard	>180mg/L

Department of Chemistry, Nirmala College is providing consultancy/testing services for water quality analysis for selected organic contaminants. Many local residents have made use of this facility and analysed the quality of their drinking water. Parameters analysed includes Temperature, pH, specific conductance (measure of salinity, concentration of ions), TDS (total dissolved salts), Total alkalinity as CaCO₃, Total alkalinity as HCO₃, Total hardness (ppm), Ca hardness, Mg hardness, Free CO₂ (ppm).

2014-15 13 Bamph Collected from the residence premise of Shri Baby Joseph, Kulathoor H, Memachangu P.O, Murattupnzha. Date of collection - 8/03/2014 Night of Well-approximately 16 feet Complaints - Turbidity and smell Primary observations - The well is maintained by protection walls but it is not covered by net. The analysis of the sample is done and the following physico-chemical parameters were enallysed the values are given below. Sample NO! Date Name 12/7/16 53-1 Suni Joseph Arniveets' (4) Advinali. 18/10/16 Beenamot Baba. BB-1 Murallupashar. **Consultancy Services For Water Analysis To Local Community**

12/11/16 (J-0] Chandhani J Chandhaabhanan Koottallupulan 1/01/17 Dhanya K. P Pawayil Margathukawala. DK-01 DK-02 **Consultancy Services For Water Analysis To Local Community**

LED FABRICATION WORKSHOP		
DATE	NO OF PARTICIPANTS	
07-12-2015	200	

Physics Department conducts programs every year with a goal to apprise and increase the awareness and the need for conservation of energy and preservation of environment among general public and the college community. To fulfil the above objective the department conducts workshops on **LED fabrication** in the college for the students and the faculty members. Similar workshops were also conducted in various colleges and panchayaths in the district and the neighbouring districts by the Department of Physics with Dr. V S Sankararaman, Associate Professor, Department of Physics, Nirmala College, Muvattupuzha as the resource person.

The major objectives of this workshop were

- a) To create awareness about energy conservation and supply LED light among the community.
- b) To develop the skill of assembling and testing of LED lights among the students.

The photographs of the sessions conducted are given below.

13/7/2015 Nirmala College Muvattupuzha



LED Fabrication Workshop At Nirmala College Muvattupuzha



St. Alberts College Ernakulam (7th August 2015)

LED Fabrication Workshop At St. Alberts College Ernakulam

Cochin College, Ernakulam 28-11-2015



LED Fabrication Workshop At Cochin College, Ernakulam

Baselius College, Kottayam on 5/12/2015



LED Fabrication Workshop At Baselius College, Kottayam

Jawahar Bhavan Thodupuzha



LED Fabrication Workshop At Jawahar Bhavan Thodupuzha

CSS Thodupuzha



LED Fabrication Workshop At CSS Thodupuzha

19/9/2015

St Stephen's College Uzhavoor



LED Fabrication Workshop At St Stephen's College Uzhavoor

8/8/2015 Idukki Block Office, Thadiyampadu



LED Fabrication Workshop At Idukki Block Office, Thadiyampadu

SEMINAR ON WOMEN EMPOWERMENT BY		
R. NISANDHINI IPS		
DATE	NO OF PARTICIPANTS	
12-01-2015	750	



Seminar On Women Empowerment By R. Nisandhini IPS

A seminar on women empowerment was organised by the women cell of the college on 12/01/2015 which was inaugurated by Dr. Lissy Joseph, Member, Kerala State, Women Commission. Nisanthini IPS, Deputy Commissioner of Police, Cochin was the resource person of the day. She enriched the session by making the students aware of the role and importance of women in a male dominated society.

WOMEN EMPOWERMENT THROUGH ENTREPRENEURSHIP DEVELOPMENT - FLOWER ARRANGEMENT

DATE	NO OF PARTICIPANTS
11-11-2016	125



Training Programme On Flower Arrangement

The empowerment and autonomy of women and the improvement of their political, social, economic and health status is highly important for the progress of a society. For promoting entrepreneurship among the female students of the college a training programme was arranged on flower arrangement on 11th november 2016 under the Centre for Women Empowerment in which more representation was given to women. The course provided training on different types of flower arrangements like elliptical, vertical, triangular, crescent, S-shaped, oval shaped and cascade flower arrangement. The participants were also given awareness about the basic principles and styles of flower arrangement.

WOMEN EMPOWERMENT THROUGH ENTREPRENEURSHIP DEVELOPMENT WORKSHOP ON ORNAMENT MAKING

DATE

NO OF PARTICIPANTS

22-01-2017

120

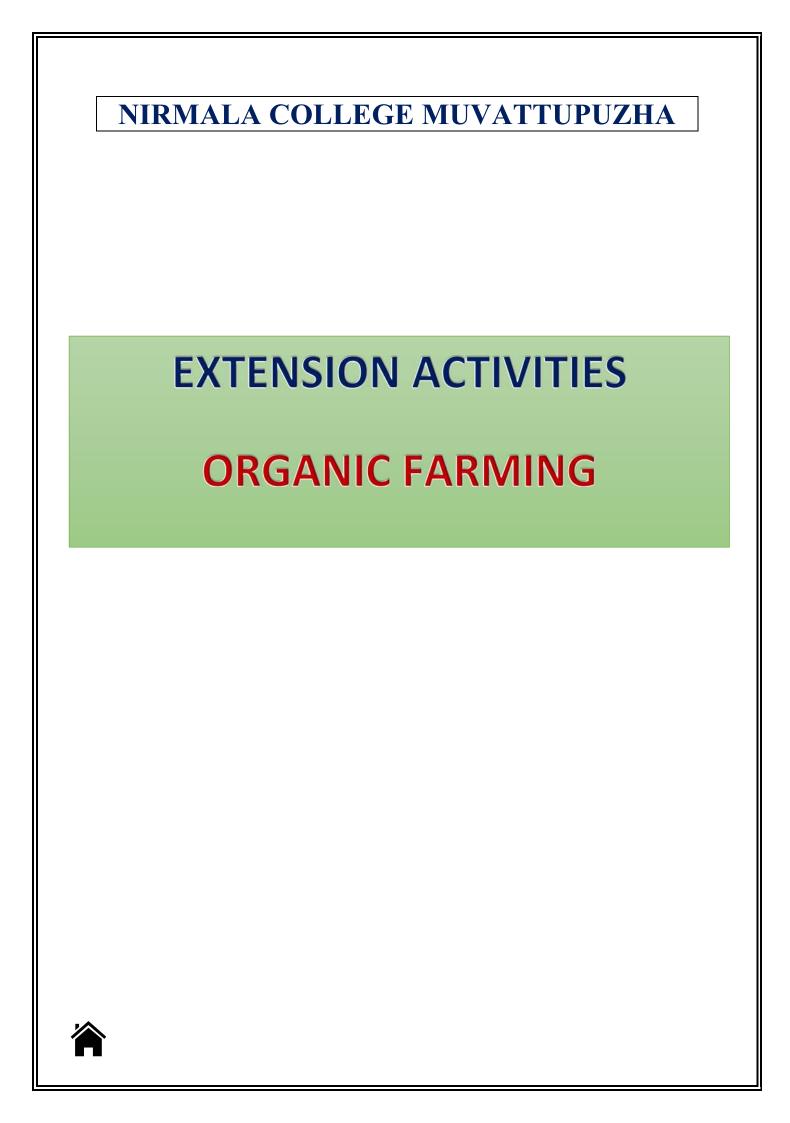


Workshop on ornament making has been organized by the women empowerment cell of the college in collaboration with Manna coaching Centre, Muvattupuzha on 22nd January 2017. This training was mainly for those students especially women, interested in jewellery design and making. The workshop includes sessions on techniques used in designing and making exotic jewellery. Even the participants who were completely new to jewellery making were educated in the art of making basic jewellery structures and jewellery assembling. Acquisition of this additional skills make the women self-reliant and also help them to earn an additional income for their livelihood.

WOMEN EMPOWERMENT - PROVIDING SPACE FOR KUDUMBRASREE UNIT TO SALE CUT VEGETABLES



Providing Space For Kudumbrasree Unit To Sale Cut Vegetables In The Campus



VEGETABLE SEED DISTRIBUTIONDATENO OF PARTICIPANTS27-10-201850Similar Similar S



College NCC cadets distributed vegetable seed packets to various houses in Muvattupuzha municipality. This was done to promote cultivation in agro bags. The seeds of Spinach, Ladies Finger, Green Chilli, Tomato etc. were distributed. Prof. Jaiby Cyriac, Department of Botany demonstrated how to plant the seeds in agro bag and explained the type of manures to be used in cultivation.

ORGANIC FARMING-BANANA CULTIVATION AND SALE

DATE

NUMBER OF STUDENTS PARTICIPATED

Started on 21-01-2015

200



Banana Cultivation And Sale By The NSS Unit Of Nirmala College

Brief Report of the Activity:

Organic Farming in the College Campus

Today we are living in a world where the most innocent trade of farming got corrupted with the overuse of chemical fertilizers. Now it is essential to return to organic farming techniques to retain the purity of soil and to save our nature. The NSS unit of Nirmala College offers ardent support to organic farming. As an attempt to inspire the volunteers to take up organic farming methods the unit has cultivated plantain in about 50 cents of land in the college campus with the financial support of agricultural department. Ms. Anju Baby, Agricultural Officer, Krishi Bhavan, Avoly took initiative to give orientation to the volunteers.

Students also identified the uncultivated fertile land in the campus and planted 200 plantain saplings. As part of this collective effort, the volunteers dug 200 pits as advised by the local farmers. It was a real-life experience for the volunteers to interact with the local farmers and to practice traditional farming methods. Students were informed with different variety of plantain and their special features. They were eager to know more from the farmers about the change in climatic condition, periodical irrigation, insects and pests that may cause harm to the plantain. Volunteers were divided in different groups and they assigned the duty of caring the saplings by proper watering, weeding and removing insects and pests. The students and teachers of the college appreciated the volunteers for such an initiative. As a response to this event the volunteers expressed their interest to practice organic farming in their own homes.

Distribution of plantain seedlings to volunteers

The NSS unit of Nirmala College is very enthusiastic in promoting farming habits among the students. As a step towards orienting the students to cultivate necessary crops in their households, the unit distributed plantain seedlings to the students. Volunteers were happy to receive the seedlings with a condition to return two seedlings after harvest in future. The returned seedlings will be again distributed to the remaining volunteers for cultivation. Thus, was a continuous programme to promote organic farming. This idea was suggested by Ms Anju Baby, Agricultural Officer, Avoly on the inaugural day of Harvest Fest.. Dr.K. Sabukuttan, NSS Programme Coordinator, M.G university and Mr. Manoj K. M, Assistant Agricultural officer, Krishi Bhavan, Avoly distributed the seedlings to the volunteers.

ORGANIC FARMING

DATE

NUMBER OF STUDENTS PARTICIPATED

18-12-2015 to 24-12-2015

114



Organic Farming An Initiative Of NSS Volunteers Of Nirmala College

The NSS Unit of Nirmala College took keen interest in promoting organic farming in and out of the campus. During the special camp, unit prepared about 50 cents of land of Govt H.S Mamalakandam for organic farming. The formal inaugural function was conducted. Ms. Soumya Sasi, Member, Ernakulam Block Pancahyat presided over the function. Organic farming was officially inaugurated by Ms. Asha Sanil, President, Ernakulam Block Panchayat by planting saplings. Mr. M.P Jayaraj, Agricultrural Assistant Director, Kothamangalam, Ms. Kusumam K, Agricultural officer, Kuttampuzha, Ms. Sheela Krishnankutty, Member Block Panchayat, Mr. P.C Mathai, Assistant Agricultural officer, Kothamangalam and Programme officers Mr. Shaimon Joseph and Ms. Ajomy Maria Joseph addressed the gathering. The organic farming programme was helpful in encouraging the young generation to bid farewell to the usage of chemicals in agriculture. This also created a renewed interest in agriculture among the volunteers.

ORGANIC FARMING (2016-17)	
DATE	NO OF PARTICIPANTS
15-11-2016	30



Organic Farming In The College Campus

NSS Volunteers together prepared land, pits were dug, prepared manures and planted 80 plantain seedlings in the college campus. The volunteers prepared the land and dug pits in the size of 50 x 50 x 50 cm. Then prepared pits were left to irradiation which helps to decontaminate and disinfect the pits from microorganisms and insects to prevent soil borne diseases. Volunteers obtained and prepared plantain suckers and prepared them for planting with help of agricultural officers. Smt. Anju Baby, Agricultural Officer, Sri. Manoj Abraham, Sri, Sainnudeen, Assistant Agricultural Officers, Krishi Bhavan, Avoly interacted with students and enlightened them about the techniques and process involved in banana cultivation. Volunteers were also taught about how to prepare land, size of pit required, nutrients needed in soil, manure preparation, watering, weeding and harvesting techniques.

GREEN VILLAGE PROGRAMME	
DATE	NO OF PARTICIPANTS
28-07-2018	100



Green Village Programme was aimed at expanding the greenery in Avoly panchayth. The main objective was to proclaim the health benefits of jack fruit and advised people to lead a healthy life. NCC cadets of Nirmala College, Muvattupuzha planted 500 jack fruit trees in the premises of Avoly panchayath. The fruit has medicinal values and is rich in protein and carbohydrate. Green Village Programme was supported by various youth organizations. Principal Dr. T. M. Joseph inaugurated the function by planting a tree. Prof. Gigi K. Joseph felicitated the function. All the cadets of Nirmala College, Muvattupuzha participated in this activity.

FARMERS DAY CELEBRATION (2015-16)	
DATE	NO OF PARTICIPANTS
17-08-2015	30



As part of Chingam 1st celebrations, the NSS unit of Nirmala College celebrated farmer's day in the adopted village, Avoly. It was a joint effort of Avoly Gramapanchayat and the NSS Unit of Nirmala College. The farmers were honoured during the programme. Mr. Joseph Vazhakkan, MLA, Muvattupuzha was the chief Guest of the function. He delivered a speech on the importance of farming. He compares the previous farming practices and the modern practices. He insisted farmers to utilize the modern farming practices. The volunteers performed various cultural events during the occasion. The farmers of Avoly Panchayath gets through this programme.

FARMER'S DAY CELEBRATION		
DATE	NO OF PARTICIPANTS	
18-09-2016	30	

The new year of malayalam, chingam one is celebrated as *Karshaka Dinam* or Farmers Day throughout the state. The day is auspicious because it ends the month of *karkidaka*, the month of torrential rains, misery and ailments. The new dawn is considered as the new dawn of hope, harvest and prosperity. On this occassion, the NSS unit of Nirmala College celebrated farmer's day on in the adopted village, Avoly. It was a joint effort of Avoly Gramapanchayat and the NSS Unit of Nirmala College. The farmers were honoured during the programme. The volunteers performed various cultural events during the occasion.

PADDY CULTIVATION	
DATE	NO OF PARTICIPANTS
Started on 14-10-2017	160



Stage 1-Paddy Cultivation; Preparation Of The Land

Preparation of the barren land for the agriculture of nearly 80 cents was the first stage of the Paddy Cultivation. Almost 160 volunteers were associated with this task, which was conducted on 2017 October 14 & 15. The weeds in the fields were cleared and the barren area was ploughed by the volunteers themselves without the aid of any machineries. Later organic manures were added to the soil for increasing the fertility and quality of the soil, with proper guidelines from Agricultural officers. The preparation of land was a two day process, and was

an interesting part in the story. The field was ready for receiving seeds after it covered in water of around 2.5 cm. There was no hesitation among the volunteers in the task, and with mutual cooperation and strength of togetherness they made it easy .One Week later, again the volunteers came up to further processing of land to be fertile by sprinkling urea and slaked lime. The "njavarivalikkal" was made on this day by the strong and active volunteers themselves. All of these sincere efforts lead to preparing a very suitable situation of the land for sowing.



Stage 2-Paddy Cultivation; Sowing

The second stage was vested with the task of sowing the seeds. Volunteers, with the instructions of agricultural officers sowed seeds in the 80 cents on 26th October 2017. Proper instructions were also given by the nearby farmers. Volunteers came forward and sowed the seeds in the field. Volunteers who sowed the seeds, named the seeds as "Ponkathir" which means "The Golden Seed". Heavy rain on 31st October 2017 destroyed the entire paddy field and that forced the unit to transplant the seeds."



Stage 3-Paddy Cultivation; New hopes by transplanting seeds

The volunteers were not ready to relax or step back from their aim, even though the weather was tough. There was continuous search by the volunteers for a better and possible option to restart the farming. This search lead to finding of seedlings on a Land area. The next stage was transplanting of this seedlings to the field. The field was once again worked out after the heavyrain, and then transplanting of seedlings started. At the time of transplanting, the seedlings were 9-11 inches tall. Paddy field had to be flooded and the soil must turn soft to accept the seedlings. A large group of volunteers gathered in a long row across the field, standing in water and each carrying a handful of seedlings. Everyone planted one row of seedlings in the row, and then stepped back one step and planted the next row. The transplanting was a tedious and planned work.



Stage 4-Paddy Cultivation; Weeding

The next challenge of the volunteers is to remove the weeds from the field. Weed control was so important to prevent losses in yield and preserve good quality. Rice fields favour the growth of aquatic and semi aquatic weeds. A few common aquatic weeds in rice are hyacinth, pistia, morning glory, algae. Volunteers manually removed weeds using hands twice during the cultivation.



Now the paddy field is ready to harvest. NSS volunteers were excited to harvest the field which they cultivate themselves as a part of their NSS Activity. The programme was quite successful and inculcate the habit of agriculture among the students



Paddy Cultivation



Paddy Cultivation



Paddy Cultivation - Threshing

Threshing is the process of separating the paddy grain from the cut crop. Volunteers separated the grain by beating the cut crop on the rock placed in the threshing floor. Thereafter volunteers went to the field where the grain and cut crops were exposed to sun for drying. They removed the immature, unfilled, non grain material using fan. The grain then later was placed in the ground with protection for drying.



Paddy Cultivation



Paddy Cultivation



The volunteers named the rice "Ponkathir Jaiva Kuthari" and "Ponkathir Jaiva Pachari. There was an open rice stall in the college in front of the college auditorium to sell the rice to the students, their parents, teachers and non teaching staffs. Parents of the students who were present in the college on PTA day appreciated the task initiated by the NSS Unit. 500 kilograms of rice was sold on the single day which was on 20th March 2018. Since, it was purely organic and manual, the students, their parents, and teachers took keen interest to buy the rice and the thereby leading to the grand success of the Organic farming of the year. And thus, the tale of toils of almost 160 days by more than 200 Volunteers sparked Gold in the heart of many.







Paddy Cultivation-Sale

NIRMALA COLLEGE MUVATTUPUZHA

EXTENSION ACTIVITIES DURING FLOOD



FLOOD RELIEF CAMP AT NIRMALA COLLEGE, MUVATTUPUZHA

DATE

NO OF PARTICIPANTS

17-08-2018

350



Flood Relief Camp At Nirmala College, Muvattupuzha

NCC, NSS and CSM of Nirmala College, Muvattupuzha helped to conduct relief camps in the campus under the guidance of teachers and the management. There were 131 members in the first day of the camp including local villagers and people from faraway places and districts. The students took special care to attend to the needs of all the members in the camp. Different religious organisations like KCYM, Yuvadeepthy, parish committees, various political parties and NGO Organisations, former NCC cadets of Nirmala College, College Alumini and students of the institution helped conduct of the camp by supplying food, groceries and necessary amenities. Around 350 students volunteered the programme

LARGE SCALE DISTRIBUTIONS OF FLOOD RELIEF MATERIALS – CHERUTHONI AND CHALAKKUDI

DATE

NO OF PARTICIPANTS

20-08-2018

550



Large Scale Distributions Of Flood Relief Materials At Cheruthoni And Chalakkudi

Students of Nirmala College supplied flood relief materials to several camps in flood affected areas of Cheruthoni (Idukki), Chalakkudy (Thrissur).

LARGE SCALE DISTRIBUTIONS OF FLOOD RELIEF MATERIALS – ALUVA AND CHENGANNUR

DATE

NO OF PARTICIPANTS

23-08-2018

550



Chengannur



Large Scale Distributions Of Flood Relief Materials – Aluva And Chengannur

All the families in the relief camp were given a kit of groceries for preparing food for the next week, new clothes and bags. By evening refugees left the camp, but the materials for the camp were still pouring in and so we maintained the collection and distribution for another day. The materials were distributed to various camps at flood affected areas of Aluva, Paravoor (Ernakulam) and Chengannur (Alappuzha).

FLOOD SURVEY	
DATE	NO OF PARTICIPANTS
04-10-2018	50



A flood survey was conducted by the students of Nirmala College in Avoly panchayath, to make an estimate of the damages happened to the houses in the panchayath. The students were divided into different groups and they went to 625 flood affected houses in Avoly panchayath and collected the details of the damages happened by flood. The series of flood relief activities- cleaning, chlorination, medical camp and survey were conducted with the total coordination and dedication of students.

CAMP VISIT, RESCUE MISSION AND RELIEF CAMP		
DATE	NO OF PARTICIPANTS	
15-08-2018	250	



CAMP VISIT, RESCUE MISSION, RELIEF CAMP

After the Independence day celebrations at college, NCC cadets went to supply relief materials to the flood relief camps at Muvattupuzha municipality. They went to camps conducted at Kadathi, Kurian Mala, Govt.U.P.School Velloorkunnam Muvattupuzha, JBM

school Vazhapilly, VM Public school and distributed food to the camp inmates .We were the first ones to distribute the food materials in those flood relief camps. People in these camps were relieved by the care that our cadets had shown to them in need. In the evening, as per the directions from Muvattupuzha RDO Sri.Anil Kumar, senior cadets stayed at college. Later we were informed to assist the civil administration in the conduct of 26 relief camps at Muvattupuzha taluk by sending 60 cadets to the camp.

At night, when the situation worsened, students planned for rescue operations in and around Muvattupuzha municipality and Avoly panchayat. In the midst of this, Junior U/0 Abhiram went for donating the blood at Nirmala Hospital Muvattupuzha as per the information received from the hospital. When they came back to College, Nirmala Hospital Authorities requested us to help them in clearing the hospital and disconnecting the electric supply and switching on the hospital generator. A team of cadets went to the hospital and helped them in securing the hospital by evacuating the patients in the lower floor and switching off the electric supply. One of the cadets dived in to the flooded generator room and switched on the generator. At 9pm the NCC Officer Abin Wilson contacted the college Bursar for requesting the opening of Flood relief camp at college. College Bursar Rev. Fr. Justin Kannadan sanctioned the request and allotted the P.G Block of the college to conduct the camp. As per the direction of the college Bursar and ANO, the senior U/0 Deepak .T.Kappen took control of the camp. Deepakalong with the junior U/Os and cadets started the camp by midnight.

By 11 pm the government declared Red alert at Ernakulam district. During that time many of the cadet's houses were flooded. After saving the family members', cadets rushed to college for organising rescue mission. Senior U/0 DeepakT. Kappen organised the rescue mission. Using social media and seeking support from the fire and rescue team at Muvattupuzha, cadets conducted rescue mission till 16 August 4am.During rescue the six member team of U/0 Lijo Joseph, Aneesh.C.N, Bony George, Anto Mathew, Rahul Sajeevan, Abhiram Manoj got stranded in Vellorkunnam, the other side of the Muvattupuzha river. Due to heavy flooding all the roots to Nirmala College was cut off. Six cadets at Vellorkunnam were in charge of shifting the books at Muvattupuzha Muncipal Library, Vellorkunnam as per the directions from the Muvattupuzha Muncipal Registrar Mr. Rajan. After clearing the municipal library cadets went to the 18 (K) Bn office at Vellorkunnam. There they met their colleague and NCC cadet Abel who was engaged in rescue mission. They continued the rescue mission jointly.

SHIFTING PATIENTS FROM HOSPITAL TO CAMP AND		
ORGANISING RELIEF CAMP		
DATE	NO OF PARTICIPANTS	
16-08-2018	250	



Due to flooding, the hospitals in Muvattupuzha stopped functioning and sent them to their houses. The NCC cadets went to hospital and brought those who lost their houses in the flood to the camp. People with serious medical illness were moved to other hospitals by ambulance. The Muvattupuzha RDO visited the camp and gave necessary directions for the conduct of the camp. The health inspector and health supervisor of Avoly panchayath visited the camp along with a doctor. Various NGOs, various religious organisations and people of goodwill supplied materials such as groceries, sanitary napkins, baby napkins, baby food, bags, candle, medicines and old and new dresses. There were a total of 191 refugees in the third day of the camp.

CHLORINATION OF WELLS AT AVOLY PANCHAYATH AND MUVATTUPUZHA MUNICIPALITY

DATE

NO OF PARTICIPANTS

23-08-2018

55



Chlorination Of Wells At Avoly Panchayath And Muvattupuzha Municipality

Cadets of Nirmala College went for chlorinating wells in Muvattupuzha, under the guidance of Prof. Abin Wilson on 23/08/2018. The chlorination is done in the ratio of 1000:5, that is 5g of bleaching powder is mixed with 1000 litre of water. The bleaching powder is mixed with water to form a paste and then a half bucket of water is added to it. It is then kept aside for at least 10 minutes. So that the clear water and the bleaching powder forms 2 layers and can be separated. The Clearwater is slowly poured into the well and the water become ready for use after one hour. The chlorination was done in about 20 houses. The programme was really appreciable. 55 cadets participated actively in the activity. They gave awareness to the public about water purification and cleaning.



CHLORINATION OF WELLS AT AVOLY PANCHAYATH AND MUVATTUPUZHA MUNICIPALITY

FLOOD RELIEF OPERATIONS CLEANING AT CHENGANNUR STAGE 1

DATE

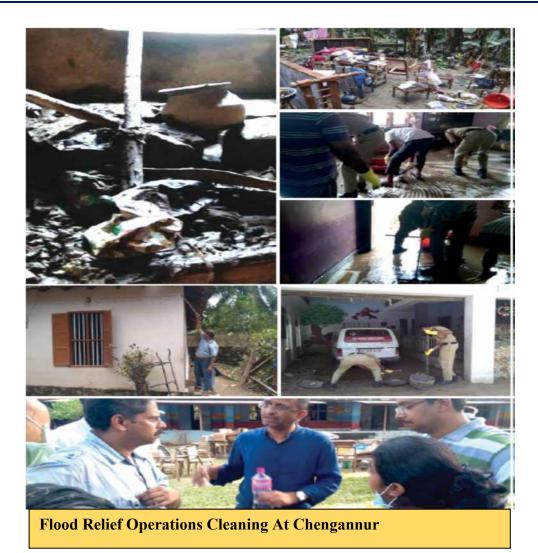
NO OF PARTICIPANTS

21-08-2018





Flood Relief Operations Cleaning At Chengannur



Chengannur was one of the most drastically affected area by floods. By 21 of August, 2018 the main activity around those areas were cleaning up the mess after the floods. The cleaning process was very hard in those areas. The buildings and infrastructures had become weak. The buildings were covered with mud to a height of 1 to 4 feet. Various properties were damaged by the flood including electrical appliances and furniture. The cleaning process was also dangerous due to the presence of reptiles like snakes. A team under AKCC (All Kerala Catholic Congress) organized a cleaning activity at Chengannoor. Head of the team Adv. Biju Parayamnilam requested the assistance of NCC cadets of Nirmala College. As per the request twenty cadets of Nirmala College Muvattupuzha went to Chengannoor. The team joined the AKCC group by 6.30 AM at Thodupuzha. After loading food and water and essential cleaning equipments the team set off to Chengannoor. The whole team were split into smaller groups. One of the teams cleaned the P.P.S .U.P school and the rest of the teams helped in cleaning local houses. Tremendous effort was needed to clear the mud and then take out the furnitures, bench and desk out of the class. Cadets cleaned the class rooms. There was no electricity and water available for cleaning but our cadets could able to arrange it and get things done.

FLOOD RELIEF OPERATIONS CLEANING AT CHENGANNUR STAGE 2

DATE

NO OF PARTICIPANTS

26-08-2018

30



A team of NCC cadets visited Chengannoor, a flood affected area on twenty sixth of August, 2018 for flood relief activities. The cadets were given precautionary medicines and safety equipments like hand gloves and masks. The team was split up into sub groups. The 6 NCC cadets were put together in a single team. They went to clean the anganvadi and kindergarten

schools at Chengannoor. The team successfully in cleaned up 3 institutions and power supply was re-established. In the evening, the local people gathered together at the nearby church and conveyed their sincere thanks to the whole team.

FLOOD RELIEF - ONAM KIT COLLECTION AND DISTRIBUTION

DATE	NO OF PARTICIPANTS
24-08-2018	60



Onam Kit Collection And Distribution As A Part Of Flood Releif



On 24th August, The NCC cadets helped to collect the grocery items from residents of Avoly panchayath and arranging Onam kits for the people of flood affected areas under the guidance of the superintendent at RDO office. Cadets distributed all the pre - collected food items as a token of love on Thiruvonam to flood affected families. The kit contained rice, vegetables and other food items.

IDENTIFICATION OF FLOODED AREAS IN MUVATTUPUZHA

DATE

NO OF PARTICIPANTS

11-09-2018

160



NCC cadets were assigned to draw a map to find and record the flooded areas of Muvattupuzha. It was then verified by the authorities before publishing. For this, the ANO, NCC went to RDO Office and collected the Official Map of Muvattupuzha. Flooded areas were identified along with flooding time and marked it on a clean sheet. Later the rainfall rate and rate of water released into the river by opening of dams was also taken into account.

FREE MEDICINE DISTRIBUTION IN FLOOD AFFECTED		
AREAS		
DATE	NO OF PARTICIPANTS	
27-08-2018	50	



Distribution Of Medicines In Flood Affected Areas



Distribution Of Medicines In Flood Affected Areas

A team of 50 cadets under the leadership of U/O Athira James and U/O Alphonse Thomas actively took part in the medicine distribution to flood affected people for preventing them from getting fever, distribution. The medicine was given by the Govt. Homeo hospital, Muvattupuzha. The medicine distribution was focused on the people of Kizhakkekkara village and locality. The cadets briefed citizens about the intake of medicines and other precautions to be taken post flood.