

# S N M COLLEGE, MALIANKARA

Maliankara P O, Moothakunnam Via., Ernakulam (DT), Kerala - 683 516

(Affiliated to Mahatma Gandhi University, Kottayam)

Accredited by NAAC with – B++ Grade

Phone:0484 2482386, 2483600, Mobile : 9495742386

Website: [www.snmcollege.in](http://www.snmcollege.in), e-mail: [principalsnmc@gmail.com](mailto:principalsnmc@gmail.com)

This is to certify that the institution integrates Environment and Sustainability into the Curriculum during 2020-21

List of courses offered in the UG and PG curriculum related to Environment and sustainability (ES)

## Department of Chemistry

SI No	Course Code	Name of the course	Issue addressed	Objectives of the course
1	CH5CRT05	Environment, ecology and Human Rights	ES	<ul style="list-style-type: none"><li>• Environmental awareness is to understand the fragility and sensitivity of our environment, in particular the biosphere and the importance of its protection.</li><li>• Promoting environmental awareness is an easy way to become an environmental steward and participate in creating a brighter future for our next generations.</li><li>• The most important goal of this paper is to impart awareness on various environmental aspects, with some glimpses of contemporary issues.</li><li>• This will help them foster a sense of responsibility and "proactive citizenship".</li></ul>

## Department of Physics

SI No	Course Code	Name of the course	Issue addressed	Objectives of the course
1	PH5CRT08	Environmental Physics and Human Rights	ES	Environmental Education helps students to understand how their decisions and actions affect the environment, builds knowledge and skills necessary to address complex environmental issues, as well as ways we can take action to keep our environment healthy and sustainable for the future. It encourages

				<p>character building, and develops positive attitudes and values.</p> <p>To give an introduction to Human Rights, Meaning, concept and development –History of Human Rights-Different Generations of Human Rights- Universality of Human Rights- Basic International Human Rights</p>
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### Department of Botany

1	BO5CRT08	Environmental sciences and Human Rights	Environmental issues	<p>Acquaint the student with the significance of Environmental Science.</p> <p>Help the student to design novel mechanisms for the sustainable utilization of natural resources.</p> <p>Make the students aware about various human rights.</p>
2	BY010304	Environmental science	Environmental issues	<p>Make the students aware about the extent of the total biodiversity and the importance of their conservation.</p> <p>Enable the students to understand various kinds of pollution in the environment, their impacts on the ecosystem and their control measures</p>
3	BY820401	Basic concepts in environmental studies	Environmental issues	<p>Acquaint the student with the significance of Environmental Science.</p> <p>Enable the students to understand the structure and function of the ecosystems.</p>
4	BY820402	Natural resources and their management	Environmental issues	<p>Acquaint the student with the significance of Environmental Science.</p> <p>Make the students aware about the various natural resources.</p>
5	BY820403	Environmental monitoring and management	Environmental issues	<p>Acquaint the student with the significance of Environmental Science.</p> <p>Make the students aware about various environmental laws in India.</p>

### Department of Zoology

SI No	Course Code	Name of the course	Issue addressed	Objectives of the course
1	ZYCRT05	Environmental Biology and Human rights	Environment	<p>1.To create a consciousness regarding regarding biodiversity,environmental issues and conservation strategies</p> <p>2. To develop the real sense of human rights.</p>

### Department of Mathematics

SI No	Course Code	Name of the course	Issue addressed	Objectives of the course
1	MM5CRT08	Human Rights And Mathematics For Environmental Studies	Environment and sustainability	<p>Environmental Education encourages students to research, investigate how and why things happen, and make their own decisions about complex environmental issues. By developing and enhancing critical and creative thinking skills, It helps to foster a new generation of informed consumers, workers, as well as policy or decision makers.</p> <ul style="list-style-type: none"> <li>• Environmental Education helps students to understand how their decisions and actions affect the environment, builds knowledge and skills necessary to address complex environmental issues, as well as ways we can take action to keep our environment healthy and sustainable for the future, encourage character building, and develop positive attitudes and values.</li> <li>• To develop the sense of awareness among the students about the environment and its various problems and to help the students in realizing the inter-relationship between man and environment for protecting the nature and natural resources.</li> <li>• To help the students in acquiring the</li> </ul>

				basic knowledge about environment and to inform the students about the social norms that provide unity with environmental characteristics and create positive attitude about the environment.
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### Department of Malayalam

SI No	Course Code	Name of the course	Issue addressed	Objectives of the course
1	ML5CRT05	PARISTHITHIVIKJANEYAVUM MANUSHYAVAKASAPADANAVUM	ES	To understand the importance of nature and the issues faced by the nature .Create the ability to solve the problems related to environment. To aware human values
2	ML800402	DALITH-STHREE-PARISTHITHI SAHITHYAVICHARAM	EV	To understand and react with environmental, women issues

### Department of BCom OM & SP

SI No	Course Code	Name of the course	Issue addressed	Objectives of the course
1	CO5CRT15	Environment Management & Human Rights	EV	To create an awareness regarding natural resources, environmental aspects of management, legislations involved and provide awareness on human rights.

### Department of English

SI No	Course Code	Name of the course	Issue addressed	Objectives of the course
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1.	EN2CCT03	Issues that matter	Gender inequality Human values Environmental issues	It identifies and enables discussion over contemporary issues like gender equality and environmental issues
2.	EN5CRENT01	Environmental science and human rights	Environmental issues	Environmental Education encourages students to research, investigate how and why things happen, and make their own decisions about complex environmental issues by developing and enhancing critical and creative thinking skills. It helps to foster a new generation of informed consumers, workers, as well as policy or decision makers.
3.	EN6CRT11	Women writing	Gender inequality	It addresses issues faced by the women in society
4.	EN5CROPT03	English for Careers	Professional ethics	It enables students to encompass the personal and corporate standards of behavior expected of professionals.

### Department of Zoology (SF)

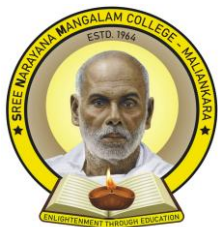
SI No	Course Code	Name of the course	Issue addressed	Objectives of the course
1	ZY 4C ET01	Environmental Science- Concepts and Approaches	Environment and sustainability(ES)	To create a consciousness regarding biodiversity, and conservation strategies
2	ZY 4C ET02	Environmental Pollution and Toxicology	Environment and sustainability(ES)	To create an awareness regarding environmental issues
3	ZY 4C ET03	Environmental Management and Development	Environment and sustainability(ES)	To create an awareness regarding environmental issues and impacts

### Department of BCom and Taxation Model II

SI No	Course Code	Name of the course	Issue addressed	Objectives of the course
1	CO5CRT15	Environment Management & Human Rights	EV	To create an awareness regarding natural resources, environmental aspects of management, legislations involved and provide awareness on human rights.

**Department of M.Com**

SI No	Course Code	Name of the course	Issue addressed	Objectives of the course
2.	CM010101	Specialised Accounting (M.Com)	Green Accounting concepts	To have an understanding on Green accounting concept, scope & significance



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## List of student projects related to Environment and sustainability in the year 2020-21

### Department of Chemistry

SI No	Name of the student	Project Title
1	Aswathy Chandran	Degradation of Bioplastics- Wheat, Potato, Tapioca- A Smart Phone Assisted Colorimetric Study.
2	Syama K J	Degradation of Tapioca Bioplastics:- A Smart Phone Assisted Colorimetric Study
3	Gopika M. Shobi	Visible light assisted dye degradation by Bio- derived materials.
4	Divya Francis C	Quantification and Characterization of Micro plastics Present in Surface sediment of Vembanad Lake

### Department of Physics

SI No	Name of the student	Project Title
1.	Revathy Nanda K S	Review on the green synthesis of carbon quantum dots
2.	Sreelakshmi T R	Review on the green synthesis of carbon quantum dots
3.	Abiya Joy	Characterization of reactive evaporated phase pure SnSe thin films

### Department of Zoology

SI No	Name of the student	Project Title
1.	Abhaykrishna V U	Study of Ant diversity in selected areas of Puthenvelikkara
2.	Abhinav Shibu U	Insect Diversity In Kadamakudy Island

3.	Akshay Manayath	Comparative Study Of Molluscan Diversity In Cherai And Kuzhupilly Beach By Identification Of Shells
4.	Akshay V R	Comparative Study Of Molluscan Diversity In Puthuvype Beach And Elamkunnapuzha Beach By Identification Of Shells
5.	Anaghalakshmi T R	Study Of Insect Diversity In Pallipuram Village
6.	Anjali K S	Compatitive Study Of Insects Diversity In Mangrove Forest And Sacret Groove
7.	Anjukrishna B	Study Of Wood Borer Insects In Edavanakad Panchayat,Ernakulam District ,Kerala
8.	Ardra Gopal	Ant Diversity In Kadamakudy Wetlands
9.	Aswathy Muraleedharan	Study Of Insects Fauna In Snm College Campus
10.	Bhavana P S	Ecology & Systematic Assessment Of Macrofauna Of The Intertidal Regions Of Cherai & Azhikode Beach
11.	Gokulkrishna	Study Of Ant Diversity In Selected Area Of Sathaar Island
12.	Gopika T S	Diversity And Abundance Of Spiders In Santhivanam- Ernakulam Kerala
13.	Haripriya T D	Diversity Of Spiders In Selected Areas Of Vypin Island, Ernakulam District, Kerala
14.	Lakshmi K K	Brackish Water Fish Diversity In Nayarambalam Village
15.	Manjima Manoj	Insect Diversity In Edavanakad Village
16.	Navya T S	Compartive Study Of Crustaceans Diversity In Two Selected Mangroves Of Ernakulam District Kerala.
17.	Poojalakshmi N D	A Comparative Study Of The Ichthyofaunal Diversity Of Two Selected Mangroves Of Ernakulam District, Kerala
18.	Poojamol K S	Insect Diversity In Kottuvally Village, N. Parvur , Ernakulam.
19.	Sreejaya P C	Invertebrate Diversity At Maliankara Village In Ernakulam
20.	Sruthy T V	Diversity Of Spiders In SNM COLLEGE Campus Maliankara, Ernakulam Dist, Kerala



21.	Swarna Sajeev	The Study Of Ant Diversity In Vavakkad
22.	Vaishnavi K S	Comparative Study Of Molluscan Diversity In Puthuvype Beach And Azhikode Beach By Identification Of Shells
23.	Varsha Snthosh	Insect Diversity In Vypin
24.	Vinayamol M V	Comparative Study Of Mollusc Diversity In Fort Kochi And Munambam

### Department of Botany

SI No	Name of the student	Project Title
1.	Aiswarya Biju	Algal bloom - A review
2.	Anannya Babu	Endangered plant species
3.	Arya K S	Health benefits and uses of jamun fruit
4.	Athulya Jayan	Mosquitocidal efficiencies of <i>Leucas aspera</i> , <i>Ocimum sanctum</i> and <i>Tagetes erecta</i>
5.	Fazna V S	Anti-inflammatory properties of <i>Cyperus esculentus</i>
6.	Nandaja Rajagopal	Antimicrobial activity of Dashapushpa
7.	Fathimathu Zuhara P.S.	A general review on true Mangroves of Kerala, India
8.	Nayana Narayanan	Status of wetlands in India- Ecosystem benefit, threats and management strategies
9.	Nikitha N Bhatt	Anti-inflammatory properties of Dashamoola
10.	Shimna Baiju	Evaluation of Ant cancerous properties of selected medicinal plants used in traditional medication

### Department of Malayalam

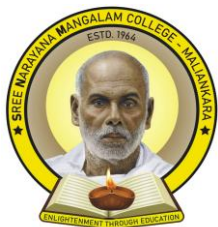
SI No	Name of the student	Project Tile
1	ASFAQ	PARISTHITHI DERSANAM MALAYALA CHERUKADHAKALIL(NEERALI,BHUMIYUDE AVAKASIKAL, VELLAPOKKATHIL)

2	ASWATHY V S	PARISTHITHI BODHAM P SURENDRANTE KADHAKALIL
3	ROSHNA RAJ	V M GIRIJAYUDE KAVITHAKALILE ECOFEMINISAM

### Department of Zoology (SF)

SI No	Name of the student	Project Title
1	AGHOSH P	Effect of heavy metals on alimentary canal of fresh water fish <i>Poecilia reticulata</i>
2	ANJALI SASI	A study on spider Diversity and feeding potential
3	ANJU V S	A study on spider Diversity at Anappara forest area.
4	ASHNA M	A study on avian diversity in punchavayal wetlands, Kannadikkal, Kozhikode.
5	ASWATHI K L	A study on phosphate solubilizing bacterias in agricultural fields
6	ATHUL SANKAR C	Effect of industrial effluents on odonate diversity at Chalakkudy river
7	DEVIKRISHNA K K	Diversity of butterfly species in Naduvillae village Kottayam Dist.
8	HRIDYA HARILAL	Isolation and quantification of IAA producing bacteria
9	MINIMOL TOMY	Comparison of insect species composition in three different ecosystems in Pottassery village, Palakkad dist.
10	NAVYA ROSE	Diversity of crab on Chettuvayi mangrove ecosystem
11	THEJASWY R VARMA	Study on diversity of moths in selected areas of Chalakkudy
12	VEENA SAJI	Study of on Mangrooves and prawn diversity
13	VRINDHA P R	Study of ant diversity at rural areas





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## List of seminars/talks/workshops etc related to Environment and sustainability in the year 2020-21

### Department of Physics

SI No	Program	Name of the program	Date of the program	Issues addressed
1	Webinar	Human Rights in the Modern world	19-10-2020	HV

### Department of Zoology

SI No	Program	Name of the program	Date of the program	Issues addressed
1.	Webinar series	National Wildlife week	5 <sup>th</sup> to 8 <sup>th</sup> October 2020	Diversity in marine and terrestrial ecosystem

### Department of Malayalam

SI No	Program	Name of the program	Date of the Program	Issues addressed
1	Webinar	MUSIRIS PRADESAVUM NATTARIVINTE PARINAMAVUM	06/10/2021to 08/10/2021	Recognize the Kerala tradition and culture. Understand local history and the evolution of landscapes. Create awareness about the survival of inherited land and environment

### **Department of Botany**

SI No	Program	Name of the program	Date of the program	Issues addressed
1	Webinar (In association with Nethaji Nagar Day College, Kolkata)	Floristic Diversity and Ethnobotany of Himalayas and Western Ghats	16/10/2020.	Biodiversity and environmental conservation

LIST OF TEACHERS AND RESEARCH SCHOLARS PURSUING Ph.D IN ENVIRONMENTAL RELATED TOPICS

Sl.No	Name	Year of Registration	Title of Research	Present Status
1	Minu M	2017	Diversity and abundance of spider assemblages in Thattekkad and Kumarakom Bird Sancturaries Kerala	Pursuing
2	Archana K S	January 2020	Characterisation of mud crab ( <i>Scylla serrata</i> ) associated bacteria from selected mangrove areas in Ernakulum district for probiotic application in <i>Fenneropenaeus indicus</i> culture systems	Pursuing
3	Liji C B	2016	Studies on the histological,haematological and biochemical alterations due to paracetamol toxicity with emphasis on the protective effect of some plant extract	Pursuing
4	Sibi M B	January 2020	Diversity distribution and settlement pattern of biofouling organisms in the Northern Vembanad LakeKerala	Pursuing
5	Nithya Madanan V	2015-2016	A Comprehensive study on taxonomy and evaluation of Fodder Value of the Genus <i>Ischaemum</i> L. (Poaceae) in Kerala	Pursuing
6			Microalgae in the estuarine and inland waters	

	Divya P V	2017-18	of central Kerala	Pursuing
7	Roshni T Ramanan	2017-18	Phytochemical analysis of intertidal macrophytes of Malabar Coast	Pursuing
8	Priyanka M V	2018-2019	Ecology and diversity of microalgae along the lower reaches of Chalakkudy River.	Pursuing
9	Lidiya VS	2018-2019	Biochemical characterization of diatoms of Azheekode estuary.	Pursuing
10	Jaiby Syriac	2018-2019	Biological effects of Heavy metal Nanoparticles on Rice ( <i>Oryza sativa</i> L.)	Pursuing
11	Nadeshda KS	2019-2020	Bioprospection of Phytoecdysteroids from Kerala flora and their biological effects in Aquaculture	Pursuing
12	Meril Sara Kurian	2019-2020	Phytochemical and bioactivity studies of the ten ethno medicinal plants of Kerala	Pursuing
13	Sruthy Elsa Shibu	2019-2020	Phytochemical and pharmacological investigations on selected filamentous green algae of Kerala	Pursuing
14	Jesty Susan Joy	2019-2020	Micropropagation of <i>Strophanthus wightianus</i> Wall. ex Wight	Pursuing
15	Asha A.	2019-2020	Bioprotective properties of <i>Blepharistemma serratum</i> (Dennst) Suresh	Pursuing