



**NIRMALA COLLEGE OF PHARMACY**  
MUVATTUPUZHA, ERNAKULAM, KERALA 686661

**2020-21**  
**ANNUAL REPORT**



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# **NIRMALA COLLEGE OF PHARMACY**

## **MUVATTUPUZHA – 686 661**

**(OWNED & ADMINISTERED BY THE DIOCESE OF KOTHAMANGALAM)**

**Affiliated to Kerala University of Health Sciences, Thrissur,  
Approved by Government of Kerala,  
Pharmacy Council of India (PCI), New Delhi,  
Accredited by International Accreditation Organization (IAO), USA,  
National Board of Accreditation (NBA), New Delhi, India  
Certified by International Standardization of organization (ISO 9001-2015)**



## **Annual Report 2020-21**

**Submitted to the Management Board**



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# **NIRMALA COLLEGE OF PHARMACY**

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### **ANNUAL REPORT FOR THE ACADEMIC YEAR 2020-21**

#### **Student Strength**

The total strength of students is 478 including UG (B. Pharm) level, M. Pharm, and Pharm D.

#### **Faculty**

There are 29 faculty members in the college, 11 faculty members with Ph.D., 12 faculty are pursuing Ph.D. and 2 are with PharmD degree. We have 23 non-teaching staff members and 3 guest faculty members.

## **1 ACHIEVEMENTS**

### **1.1. NBA ACCREDITATION**

The result of the NBA inspection conducted on 28th and 29<sup>th</sup> April 2018 was announced on 23<sup>rd</sup> August 2018 and our B. Pharm programme is accredited by NBA for three academic years from 2018 to 2021.

### **1.2. STUDENT ACHIEVEMENTS**

#### **Awards and recognitions received for extension activities from government/government-recognized bodies**

Extension activities are vital for fostering community development, and these initiatives include educational programs and support to underprivileged communities, contributing to the overall welfare of society. Recognition and awards from government or non-government organizations acknowledge the efforts and inspire us to participate actively in the development of society.

Best ISPOR (Professional Society for Health Economics and Outcome Research) student chapter award – 2021 from LMIC (Low-Middle income countries) for its activities. This award, \$300, was received for its outstanding contribution to community development, which include, Awareness Classes about Diabetes in Public Places and Nearby Institutions, National Program for Prevention & Control of Cancer, Diabetes, Cardiovascular Disease, and Stroke (NPCDCS).

Certificate of Appreciation – Special Mention Award in the Innovator's Premier League 2021, hosted by Kerala start up mission.



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### ACHIEVEMENTS IN CO-CURRICULAR EVENTS

SI No	Achievement	Student details
1	2nd position in E-Poster presentation in Virtual celebration of World Environment Day 2021, Mookambika college of Pharmaceutical sciences & Research	Dona Basil (2 <sup>nd</sup> Pharm D)
2	Best Undergraduate student e-poster award in RAKCOPS-ICDD E-CONFERENCE, RAK College of Pharmaceutical Sciences, UAE	Elizabeth Rachel James (2 <sup>nd</sup> Pharm D)
3	Attained first and second prizes in E-poster presentation in 2nd International Pharma Conference, Pharma-2021 Online, Reignite Innovative Conference, JP Colony Hyderabad, India	Vaishnavi Vijay (1 <sup>st</sup> Pharm D) Sneha Susan Samuel (1 <sup>st</sup> Pharm D)
4	Best poster presentation award in 6th International conference on Clinical Pharmacy : CPCON 2021, Manipal	Anitta Shaji (6 <sup>th</sup> Paharm D)

### ACHIEVEMENTS IN SPORTS AND CULTURAL EVENTS

Name of the award/ medal	Team / Individual	University / State / National / International	Sports / Cultural	Name of Student
Participated & scored good marks in online Pharmacognosy E-Quiz	Individual	National	Cultural	Amala Joseph
Scored distinction in the E- Quiz	Individual	National	Cultural	K S Mariya
Scored distinction in the E- Quiz	Individual	National	Cultural	Harsha Hari



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Scored distinction in the E- Quiz	Individual	National	Cultural	Sherin K Jain
Excellent performance in the quiz “Explore your knowledge on medicinal plants	Individual	National	Cultural	Anitta Thomas
Excellent performance in the quiz “Explore your knowledge on medicinal plants	Individual	National	Cultural	Anagha Melbin
Excellent performance in the quiz “Explore your knowledge on medicinal plants	Individual	National	Cultural	Alona Baby
Excellent performance in the quiz “Explore your knowledge on medicinal plants	Individual	National	Cultural	Sneha Ann Sanju
Excellent performance in the quiz “Explore your knowledge on medicinal plants	Individual	National	Cultural	Reshma Dominic
Excellent performance in the quiz “Explore your knowledge on medicinal plants	Individual	National	Cultural	Ajwin Joseph Martin
Excellent performance in the quiz “Explore your knowledge on medicinal plants	Individual	National	Cultural	Sahadh M M
Excellent performance in the quiz “Explore your knowledge on medicinal plants	Individual	National	Cultural	Aneeta Vinobi



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### GPAT QUALIFIERS

SI No	Name of student	Batch	All India Rank
1	Vishnugovind .A	IV B Pharm	84
2	Suvarna Varghese	IV B Pharm	632
3	Sahila T.S	IV B Pharm	729
4	Anjana C Nair	IV B Pharm	1582
5	Hiba Assainar	IV B Pharm	2840
6	Dionne Maria Thomas	IV B Pharm	3117
7	Hanna Parveen	IV B Pharm	3325
8	Vishnupriya P.H	IV B Pharm	3635
9	Jesna P. A	IV B Pharm	4413
10	Fathima Meethian	IV B Pharm	4949

## 2. ACADEMIC ACTIVITIES

### 2.1. RESULTS:

The University results Published in 2020-21 are as follows :

SI No	Course	Pass %
1	III Pharm D	100 %
2	IV Pharm D	100 %
3	V Pharm D	100 %
4	III B Pharm	98.36
5	IV B Pharm	100 %
6	I M Pharm	100 %
7	II M Pharm	100 %



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### 2.2. ADD-ON COURSES OFFERED

SI. No.	Name of Add on /Certificate /Value added programs offered	Number of Students Participated
1	Career Edge-Knockdown the Lockdown (NPTEL)	1
2	Principles of preclinical studies	30
3	Spectroscopic data interpretation	58
4	Patient counselling on safe use of medication	30

### SEMINARS, WORKSHOPS AND INVITED TALKS ORGANIZED:

SI No	Date	Type of Programme	Details	Resource person
1	11/07/2020	Webinar	Application of JMP- Statistical Software In Pharmaceutical Research	Dr. Muralidhara Anandamurthy , Member, JMP Global Academic
2	17/08/2020	Webinar	Facets Of Human Brain: Applications In Research	Dr. Arulmozhi S, HOD Department of Pharmacology, Pune College of Pharmacy
3	22/08/2020	Webinar	Drug Reposition: Transformation of Hard work into Smart Work	Dr. Bijo Mathew, M Pharm, PhD, Division of Drug Design & Chemistry Research Lab, Associate Professor, Ahalia School of Pharmacy, Palakkad.
4	01/09/2020	Seminar	Entrepreneurship in Pharmaceutical Manufacturing : Know-How	Mr. Aghil M Joy, Director, Clans life,





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				Kinfra Park, Nellad, Kerala
5	18/09/2020	Conference	Innovations & Researches in Developing Phytopharmaceuticals from Indigenous Medicine	1. Dr. Mahendran Sekar (Associate Professor, Faculty of Pharmacy and Health Sciences, University Kuala Lumpur Royal College of Medicine Perak, Malaysia) 2. Dr. Vivekanandan Kalaiselvan (Principal Scientific Officer, Indian Pharmacopoeial Commission, Ghaziabad, Uttar Pradesh). 3. Dr. Beena Briget Kuriakose (Assistant Professor, College of Applied Sciences, King Khalid University, Kingdom of Saudi Arabia)
6	30/12/2020	Webinar	Importance of Regulatory Affairs in Pharmaceutical Career & Entrepreneurship	Mr. Ravi Krishnan, Technical Manager, QA, Wipro, Bangalore
7	08/02/2021	Workshop	In-silico Drug design using Antidock as tool in Pharmaceutical drug research	Dr. Prasanth Francis, Associate Professor, Dept of Pharmaceutical Chemistry
8	19/02/2021	Seminar	A Check list for Pharma Entrepreneurship	Mr. Aghil M Joy Manufacturing director & Partner Clans lifecare, pharmaceutical manufacturing company KINFRA industrial park, Kochi.



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### 3. RESEARCH AND DEVELOPMENT ACTIVITIES

#### 3.1. RESEARCH PROMOTIONAL ACTIVITIES (FDP ATTENDED)

**Reports on Faculty Development Programs (FDP), professional development /administrative training programs during the academic year**

Name of Faculty	Name of Programme	Date of Programme	Organized By
Ms Aleesha	World Conference on Epidemiology-Infectious Diseases and Public Health	10/08/2020 & 11/08/2020	World Conference on Epidemiology-Infectious Diseases and Public Health, London, UK
Dr.Preeja G Pillai	Indo-US workshop on Pain Mechanisms and Therapeutics Workshop	06-05-2021 - 10-5-2021	Department of Pharmaceutical Engineering & Technology, IIT, BHU, Varanasi
Ms. Elseena Jose	Emerging trends and challenges in pharmaceutical sciences and health care	07-09-2020 - 19-09-2020	Nehru College of Pharmacy, Kerala
Dr. Deepa Jose	Exploration of nascent Pedagogical tools for updating teachers of pharmaceutical education. (Two-week e FDP)	07-12-2020-15-12-2020	LLOYD Institute of Management and technology.
Ms.Linz Mary Joy	Advances in Pharmaceutical research International FDP(One week)	13-8-2020-18-8-2020	Baptala college of pharmacy in association with IPA
Ms.Linz Mary Joy	Promoting effective teaching and Progressive research FDP(5 day)	1-9-2020 - 5-9-2020	Karpagam Academy of higher education, in association with IPA and CHRD
Ms.Linz Mary Joy	Use of ICT in blended mode of pharmacy education (One week eFDP)	21 to 26 <sup>th</sup> June 2021	Maharaja agrasen school of pharmacy, Himachal Pradesh
Ms. Flowerlet Mathew	Emerging trends and challenges in pharmaceutical sciences and health care (eFDP-13 days)	7-8-2020 - 19-08-2020	Nehru College of Pharmacy, Pampady, Thrissur



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### List of FDPs organized :

Sl.No	Programme name	Faculties attended	Date
1	Applications of computational Clinical Biopharmaceutics in Pharmaceutical Product Development	Ms Lins Mary Joy Dr. Danish Joseph Dr. Kuppaswamy Dr. Manju Maria Mathew Dr. Badmanaban Dr. Shaji George Ms. Flowerlet Mathew Dr. Prasanth B Ms Sini Baby Ms. Elizabeth N Xavier Ms. Antriya Annie Tom Dr Fels Saju Ms Anu Jayamol Mathew Mr Manu Jose Mr Eby George Ms Meby Susan Mathew Ms Elseena Jose Ms Jisha Thomas Dr Dona Maria Jetto Dr Merrin Joseph Ms Vidya Peter Ms Anu Sebastian Ms Anusha Shaji Ms Sonia Nainan Ms Ancy I J Ms Neha Maria Ms Nancy Jose Dr Prasanth Francis Mr Jobin Kunjumon Dr Preeja G Pillai Dr Suja Abraham Dr Deepa Jose	22/08/2020- 28/08/2020

### Non teaching staff training:

An online webinar on “Maintenance and calibration of Laboratory Equipments” was conducted on 17/10/2020



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SI No	Name of Participants
1	Bindhumol PC
2	Saloosh George
3	Anil Jose
4	Salomy Reji
5	Jose Mathew
6	Sijo Francis
7	Shijo George
8	Jolly Joseph
9	Vinse Michael
10	Melby Sunny
11	Dino Xavier
12	Anjana Unnikrishnan
13	Aswathy Mani

### 3.2 NEW RESEARCH FACILITIES CREATED

Sl. No.	NAME OF INSTRUMENTS	YEAR	RATE
1	UV Spectrophotometer	2021	501500
2	Digital Flourimeter	2021	65681

### 3.3. RESEARCH OUTCOMES

#### 3.3.1. LIST OF PROJECTS (SI NO/ TITLE OF PROJECT/ NAME OF STUDENTS/FACULTY GUIDE)

SI No	Title of Project	Name of student	Faculty guide
<b>BPHARM</b>			
1	Design and characterization of topical emulgel containing neem oil for its antidandruff properties	Abitha N Jabbar, Khansa Beegam, Nimisha Joseph	Mr. Eby George
2	Development of herbal facial masks using natural mucilages	Annamol Nelson, Ashly Peter	Dr. Fels Saju



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3	Development and Evaluation of Herbal Antidandruff Formulation	Adhithya K,V,, Farsana T.M.	Ms. Flowerlet Mathew
4	Formulation and Evaluation of Embelin inclusion complex based cream	Deepa Susan Varghese, Aimy Kuriakose	Mrs. Elizabeth N. Xavier
5	Development of a Polyherbal Mouth Protect Spray	Teenu Manuel , Shakeela K s	Mr. Dhanish Joseph
6	Formulation and evaluation of herbal toothpaste containing <i>Eupatorium tripilinervis</i> leaf extract	Rosna Babu, Sherry Sebastian	Ms Vidya Peter
7	Formulation and evaluation of cream containing essential oil for the management of Acne	Anakha Tomson, Sneha Ann Sanju	Ms. Sonia Ninan
8	Formulation and Evaluation of Herbal Aftershave Gel	Riya George, Celu Mariya Francis	Dr. Manju Maria Mathews
9	Investigation on psychoprotective potential of Liposomal N-Acetyl Cysteine	Anitta Thomas, Annamol Joshy, Elza Baby, Sijin Biju	Mrs. Nancy Jose
10	Evaluation of argentum metallicum tincture on anxiolytic activity in mice	Ceenu Jose, Chippy Jose, Juvanitta Sabu	Ms. Anu Sebastian
11	In silico and invivo evaluation of nepeta cataria tincture on antimigraine activity	Aiswarya V.S., Alby Manoj, Divya Merin Emerson, Nithin Thomas	Dr. Preeja G Pillai
12	Formulation and evaluation of polyherbal medicated oil for wound healing activity	Amal Thomas, Anubha Jose, Jiss Jaison	Ms. Anusha Shaji
13	Assessment of ADR and side effects of COVID-19 vaccine via self evaluation	Nilufa Sainudheen, Alisha K J, Alona Baby , Fathima K N	Mr. Jobin Kunjumon Vilapurathu
14	A prospective survey to ascertain the symptoms, health issues and subsequent OTC medication usage during menstruation among college students	Anagha Melbin, Mary Paul Dominic, Reshma Dominic	Mr. Jobin Kunjumon Vilapurathu
15	Assessment of patient knowledge, practice and adverse events of insulin administration and storage techniques in patients with diabetes	Nimitha Antony, Pavithra Ashok, Muhammad Abdul Khadir P.S.	Dr. Dona Maria Jetto



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16	Cosmetics use related adverse events and need for cosmetovigilance	Karishma Shaji, Mahin T M, Nandana P.B.	Dr. Merrin Joseph
17	An insight into the birth defects due to parental pesticide exposure from various sources	Fasna Nazeer, Mintu Mathew, Shibi T D	Ms. Anriya Annie Tom
18	Assessing the effectiveness and risk for resistance with antibiotic use during the pandemic: A cross-sectional study on South Indian population	Arya Babu , Minju Chackochan, Ruksana M.S.	Mrs. Meby Susan Mathew
19	In silico design and screening of $\beta$ -carboline derivatives as topoisomerase II $\alpha$ inhibitors	Ajay Emmanuel Thomas, Jeelson Baby, Arya Sasankan	Dr. Prasanth Francis
20	In-silico design and molecular docking studies of benzimidazole and pyrazole hybrid derivatives as human topoisomerase II inhibitors in cancer	Freddy P. Robbin & Jomy John	Mr. Manu Jose
21	In silico designing and screening of carbazole derivatives as topoisomerase II Inhibitors	Mariya Joy, Shilpa Joseph	Mrs. Elseena Jose
22	In silico design and evaluation of indazole derivatives as GSK-3 $\beta$ inhibitors	Aiswarya Suresh, Anu Yousef	Ms. Anu Jayamol Mathew
23	Design and <i>In silico</i> evaluation of inhibitors targeting pilotin <i>InvH</i> protein of type III secretion of <i>Salmonella enterica</i>	Varsha Vinod, Jeswin Sunny	Dr. Prasanth Francis
24	<i>In silico</i> screening of bioactive compounds of <i>Plectranthus amboinicus</i> against COX-2 and alpha-amylase	Aswathy Surendran, Devika Firose	Dr. Deepa Jose
<b>MPHARM</b>			
1	Formulation and evaluation of Embelin-loaded-biodegradable implant	Ammu Soman	Mr. Dhanish Joseph
2	Enhancing the pediatric compliance of clarithromycin by formulating to a chocolate preparation	Sreelakshmi M.S.	Mr. Dhanish Joseph
3	Development of bromelain loaded nanocarriers by nanoprecipitation	Anit Joji George	Dr. Fels Saju



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	method to intensify EPR effect in anticancer therapy		
4	Design, Characterization and optimization of timerx coated floating drug delivery system containing new generation H2 blocker	Sumayya Navas	Mr, Eby George
5	Formulation and evaluation of baclofen nanoemulgel for treating localized neuropathic pain	Sreevidya Venugopal	Dr. Manju Maria Mathews
6	Lawsone-beta cyclodextrin inclusion complex loaded topical gel	Shincy Maria Francis	Ms. Elizabeth N. Xavier
7	Formulation and evaluation of rizatriptan benzoate loaded emulgel for the treatment of migraine	Maria John	Ms. Flowerlet Mathew

PHARMD			
SNo	Title	Guide/Co-Guide	Name of Students
1	Assessment of therapeutic implications and safety outcomes of patients receiving dabigatran in a tertiary care hospital	Dr. Suja Abraham/ Dr. Ramdas Nayak	Anitta Shaji, Doody Thomas, Midhuna Saju
2	Clinical response and survival rate of multiple myeloma patients treated with different therapeutic regimens	Dr. Suja Abraham	Arpith Antony, Helan Kurian, Jeeva Ann Jiju, Timy Thomas
3	Pharmaceutical care in surgeries conducted in a secondary care private hospital	Mrs. Meby Susan Mathew	Abhirami Azad, Maria Joseph, Minnu J. Biju
4	WHO Access, Watch, Reserve (AWaRe) Tool: A benchmark for analyzing the appropriate usage of antibiotics in a quaternary care hospital, India	Mrs. Meby Susan Mathew/Dr. Anup R. Warriar	Diya Shibuchan, Femy Thomas, Lis Maria, Maria Thomas
5	A study on the epidemiology, treatment and outcome of nosocomial diarrhea in the medical ICU of a tertiary care hospital	Ms. Antriya Annie Tom/Dr. Rakesh K.R.	Binsa Jose, Christeena Mariyam Baby, K.S. Irfan, Olivia Sunny
6	A study on the impact of the use of pesticides on farmers in the Pineapple City of India	Ms. Antriya Annie Tom	Elveena M. Sebastian, Jean V. Varghese, Thamanna Iqbal



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7	A retrospective study on prevalence and treatment of tuberculosis in multidrug resistant and elderly patients from Ernakulam district, Kerala	Dr. Shaji George	Johnson V. Babu, Joicy Jose, Leya P. Babu, Nimmy Robin
8	Evaluation of antimicrobial use and its impact in a private and government hospital: A prospective comparative study in central Kerala	Dr. Shaji George	Aleena Issac, Arya Ponnappan, Chinnu Roy, Dhanya Paul

### 3.3.2. PUBLICATIONS (DETAILED LIST) (SI NO/ FACULTY/ PUBLICATIONS- CITATION ID)

Sl no	Name of the author/s	Article details	Year of publication
1	Suseem S, Joseph D	Formulation Development and Evaluation of Duloxetine Hydrochloride Multi-Particulate Delayed-Release Capsules, <i>Indian Journal of Natural Sciences</i> 0976 – 0997	2020
2	Anu Jayamol Mathew, Blessy Baby, Christina Jose, Mariarani Jose and Sonnet Sabu	Novel Method to Synthesis Indazole and Hydrazone Derivatives with Significant Antibacterial Property <i>Indian Journal of Natural Sciences</i>	2020
3	Dr. Deepa Jose, Dr.Prasanth B and Dr.Aleykutty N. A	Ameliorative effect of Psidium guajava leaves on ulcerative colitis <i>International Journal of Current Advanced Research</i>	2020
4	□ Dhanish Joseph, Bharath Mishra, Hima Davis, Manju maria Mathews	Literature-Based Research on Antidiabetic Potential of Okra <i>Indian Journal of Natural Sciences</i>	2020
5	□ Dhanish Joseph, Jebini Elizabeth Thomas, Manju Maria Mathews, Maria Jose	Formulation and Evaluation of Topical Gel Incorporated with Nimesulide Loaded Magnetite Nanoparticles <i>Indian Journal of Natural Sciences</i>	2020
6	Dhanish Joseph, Hima Davis, Arya Venugopal	Screening of In vitro Antidiabetic Activity of Coconut Shell and Pericarp by Alpha Amylase Inhibitory Assay <i>Indian Journal of Natural Sciences</i>	2020





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7	Elseena Jose, Anjana C Nair, Merlin Kuttichan, Vishnugovind A	Telmisartan and rosuvastatin:a review on the analytical methods for the individual and combined dosage forms <i>International Journal of Research and Analytical Reviews</i>	2020
8	Elseena Jose, Dr. Shyamkumar B, Mr. Manu Jose	A Validated RP-HPLC Method for the Simultaneous Estimation of Atorvastatin calcium and Clopidogrel Bisulphate in Combined Dosage Forms. <i>Research journal of pharmacy and technology</i>	2020
9	Ms. Flowerlet Mathew1*, Ms. Mini Alias2, Ms. Aneeta Varghese2, Ms. Bimi Varghese2 and Ms. Maria John2	Formulation and Evaluation of Preungual Delivery System Containing Eugenol for the Treatment of Onychomycosis <i>Indian Journal of Natural Sciences</i>	2020
10	Jebini Elizabeth Thomas, Manju Maria Mathews*, Dhanish Joseph, Bharat Mishra and Betsy Sunny	A Review on the Antidiabetic Potential of <i>Murraya koenigii</i> <i>Indian Journal of Natural Sciences</i>	2020
11	Dr.Deepa Jose, Dr.Prasanth B, Dr Aleykutty N A	Ameliorative Effect of <i>Psidium guajava</i> Leaves on Ulcerative Colitis <i>International Journal of Current Advanced Research</i>	2020
12	Deepa J, Prasanth B, Mary JL and Sini B	Evaluation of ameliorative effect of <i>Syzygium cumini</i> leaves on ulcerative colitis <i>International Journal of Pharmaceutical Sciences and Research</i>	2020
13	Jose J K, Aleena Issac, Shaji George, Naveen Kumar Panicker	Knowledge pertaining to COVID19 among medical population of Indian state of Kerala: An online cross-sectional survey <i>Journal of Patient Safety &amp; Infection Control</i>	2020
14	Jeeva Joseph , Stephy P S , Jude James , Suja Abraham and Jabir Abdullakutty	Guideline-directed medical therapy in heart failure patients: impact of focused care provided by a heart failure clinic in comparison	2020



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		to general cardiology outpatient department <i>The Egyptian Heart Journal</i>	
15	Jeeva Joseph , Stephy P S , Jude James , Suja Abraham and Jabir Abdullakutty	Impact of Focussed Care in Heart Failure Patients on Hospital Readmission and Mortality <i>Journal of Young Pharmacists</i>	2020
16	Bharat Mishra, Anusha Shaji, Anubha Jose, Jiss Jaison, Amal Thomas, Anu Sebastian	A Review on Different Routes of Transmission of Covid-19 <i>Bulletin of Environment, Pharmacology and Life Sciences</i>	2021
17	Deepa Jose, Teresa Cyriac <sup>2</sup> , Rajarajeswari L.A <sup>2</sup> , Sahila T.S <sup>2</sup>	Comparative evaluation of Anti- Inflammatory activity of Vatsanabha purified by two different methods <i>Indian Journal of Natural Sciences</i>	2021
18	□ Ammu Soman and Dhanish Joseph	Review on Chemotherapeutic Nanoformulations <i>Indian Journal of Natural Sciences</i>	2021
19	M S Sreelakshmi, Dhanish Joseph and Manu Jose	Resealed Erythrocytes: A Review <i>Indian Journal of Natural Sciences</i>	2021
20	□ Ammu Soman and Dhanish Joseph	Review of marketed anticancer implants <i>Indian Journal of Natural Sciences</i>	2021
21	Eby George*, Anjali K Biju, Fathima Meethian, Linta Benny, Suvarna Varghese	Development of Esomeprazole Mucoadhesive Timex Tablets <i>International Journal of Pharmaceutical Research</i>	2021
22	Jose Elseena, Anju George, Antony Mathew and T.R. Neethu	Comparative Study on Phytochemicals, Antioxidants and Antimicrobials Components in Leaf Extracts of <i>Curcuma caesia</i> Roxb. with Reference to Location <i>Indian Journal of Natural Sciences</i>	2021
23	Jashna K Kani, Elizabeth N Xavier	Solubility enhancement of Embelin by Complexation with beta cyclodextrin <i>Indian Journal of Pharmaceutical Education and Research</i>	2021



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24	Sreevidya Venugopal, Manju Maria Mathews, Manu Jose	Baclofen: A review <i>Indian Journal of Natural Sciences</i>	2021
25	Sreevidya Venugopal, Manju Maria Mathews and Dhanish Joseph	Baclofen in treatment of neuropathic pain <i>Indian Journal of Natural Sciences</i>	2021
26	James M Santos, Meby S Mathew, Nilam Shah, Renzo Pajuelo-Vasquez, Anuja Mahesh Mistry, and Stacey E Heindl	Pre and Post-Operative Alterations of the Gastrointestinal Microbiome Following Bariatric Surgery <i>Cureus Journal of Medical science</i>	2021
27	Manu Jose*, Stephin Baby, Dona Mathew, Naurin Muhammed, Jayalakshmi P M	Phytochemical Analysis and In-vitro Anti- Diabetic and Anti- Inflammatory study of root extract of <i>Apama siliquosa</i> LAMK. <i>Research J. Pharm. and Tech.</i>	2021
28	Maria Joseph, Meby Susan Mathew, Minnu J Biju and Abhirami Azad	An Observational Study on the Analgesic usage in the Surgical Departments of A Secondary Care Hospital <i>Indian Journal of Natural Sciences</i>	2021
29	Elizabeth N. Xavier , Jashna K. Kani	Bioactivity, Analytical Techniques and Formulative approaches for Embelin RJPT	2021
30	Therese Mathew, Dr. Badmanaban. R, Aby Paul, Dr. Bharat Mishra	A Review on Deadly Nipah Virus - Prevalence and its Management <i>Research J. Pharm. and Tech</i>	2021
31	Jayalakshmi P M, Manu Jose and Prasanth Francis	A Comprehensive Review on Medicinal Plants in Western Ghats with Antitubercular Activity <i>Indian Journal of Natural Sciences</i>	2021
32	Jayalakshmi P M, Sheeba Jasmin TS, Manu Jose	Microwave Assisted Synthesis and Antibacterial Evaluation of 1, 3, 4-Thiadiazole Derivatives <i>Research Journal of Pharmacy and Technology</i>	2021
33	Anandhu K S, Manu Jose, Sweety Kuriakose, Jayalakshmi P M	Phytochemical analysis and In vitro Antidiabetic activity of aqueous extract of <i>Lagerstroemia speciosa</i> and <i>Aegle marmelos</i> <i>Research Journal of Pharmacy and Technology</i>	2021



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34	Shibuchan D, Maria L, Thomas F, Thomas M, Mathew M, Warriar A, Karunakaran P and Xavier AA	Paediatric Prescribing Pattern: Being AWaRe. <i>Indian Journal of Natural Sciences</i>	2021
35	Abhirami Azad*, Maria Joseph, Minnu Jayamon Biju, Meby Susan Mathew	Anaphylactic Shock with Off-Label use of Oxaliplatin in Ovarian Cancer: A Rare Case Report <i>Indian Journal of pharmacy practice</i>	2021
36	Joel Joby Joseph Aby Paul Stelvin sebastian Sanjo Saijan Jobin	Assessment of Lockdown effectiveness in the wake of Covid-19 in India using the auto regressive integrated <i>Infectious diseases in clinical practice</i>	2021
37	Manu Jose Anitta C Jaison Amala Mathew Arya suku Sneha Venugopal PM Jayalakshmi	Invitro Cytotoxic study on Root extracts of <i>Apama Siliquosa Lamk International Journal of Pharmaceutical sciences and Research</i>	2021

### 3.3.4. RESEARCH GRANTS

Name of the research project/ endowment	Name of the Principal Investigator/ Co-investigator	Department of Principal Investigator	Year of Award	Amount Sanctioned (in lakhs)	Duration of the project	Name of the Funding Agency	Type (Government/ non-Government)
Development of bromelain loaded nanocarriers by nanoprecipitation method to intensify EPR effect in anticancer therapy	Dr. Fels Saju	Pharmaceutics	2021	0.1	6 months	KSCSTE	Government
Design, characterisation and optimisation of timer X coated floating drug delivery system	Mr. Eby George	Pharmaceutics	2021	0.095	6 months	KSCSTE	Government



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containing new generation H2 blockers							
Investigation on psychoprotective potential of liposomal N- acetyl cysteine	Dr. Bharath Mishra	Pharmacology	2021	0.1	6 months	KSCSTE	Government
Insilico screening and in vitro evaluation of terpenoids from Plectranthus amboinicus against COX 2 and alpha amylase	Dr. Deepa Jose	Pharmaceutical Chemistry	2021	0.1	6 months	KSCSTE	Government
Insilico design, synthesis and biological screening of beta carboline derivatives as selective topoisomerase II alpha inhibitors	Dr. Prashanth Francis	Pharmaceutical Chemistry	2021	0.1	6 months	KSCSTE	Government
Development of Clarithromycin chocolate preparation to enhance the pediatric compliance	Dr. Dhanish Joseph	Pharmaceutics	2021	0.1	6 months	KSCSTE	Government
Development of a herbal sunscreen formulation and its evaluation	Dr. Prasanth B	Pharmacognosy	2020	0.1	6 months	KSCSTE	Government
Assessment of therapeutic implications and safety outcomes of patients receiving dabigatran in a tertiary care hospital	Dr. Suja Abraham	Pharmacy Practice	2020	0.1	6 months	KSCSTE	Government
Development of bromelain anti inflammatory gel with the aid of mucilages extracted from Hibiscus rosa-sinensis leaves	Dr. Fels Saju	Pharmaceutics	2020	0.1	6 months	KSCSTE	Government



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and Fenugreek seeds as gelling agent							
Preparation and evaluation of beta cyclodextrin complexes of embelin	Mrs. Elizabeth N Xavier	Pharmaceutics	2020	0.1	6 months	KSCSTE	Government
Phytochemical and antifungal evaluation of Zingiber wightianum thawaites	Dr. Shyamkumar B	Pharmaceutical Chemistry	2020	0.0995	6 months	KSCSTE	Government
Clinical response and survival rate of multiple myeloma patients treated with different therapeutic regimens	Dr. Suja Abraham	Pharmacy Practice	2020	0.1	6 months	KSCSTE	Government
Quantification of sesquiterpenes in south indian accessions of Patchouli: Pogostemon cablin	Dr. Prasanth B	Pharmacognosy	2020	0.1	6 months	KSCSTE	Government
A study on the epidemiology, treatment and outcome of nosocomial diarrhea in the medical ICU of a tertiary care hospital	Mrs. Antriya Annie Tom	Pharmacy Practice	2020	0.1	6 months	KSCSTE	Government
Pharmaceutical care in surgeries conducted in secondary care private hospital	Mrs. Meby Susan Mathew	Pharmacy Practice	2020	0.1	6 months	KSCSTE	Government

#### 4. INFRASTRUCTURE DEVELOPMENT

- Ladies Hostel inaugurated
- Biogas plant in hostel
- E Governance
- Developed new 100 seated classroom for B Pharm programme



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- Furnished additional classroom for B Pharm programme
- Purchase of moodle platform

### 4.1. COLLABORATIONS

SI No	Name of the activity	Year
1	MOSC Medical College	2021
2	Kerala State Drugs & Pharmaceuticals LTD	2021
3	Rajagiri Hospital	2021
4	Chethana Pharmaceuticals	2021
5	Mar Sleeva Medicity	2021
6	Mary Queen's Mission Hospital	2021
7	S H Medical Centre	2021
8	Little Flower Hospital	2021
9	Jawaharlal Nehru Tropical Botanic Garden & Research Institute	2021
10	Amala Institute of Medical Sciences	2021
11	Travancore Medical College Hospital	2021
12	Lakeshore Hospital and Research Centre	2021

### LIST OF MOUs

SI No:	Name of the activity	Period of MOU
1.	Livlong Nutraceuticals Ltd	2021-2026
2.	Lisie College Of Pharmacy	2020-2023



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3.	AL- Azhar College of Pharmacy	2020-2023(extended till 2026)
4.	KMP College of Pharmacy	2020-2023(extended till 2026)
5.	Mookambika College of Pharmaceutical Science and research	2020-2023(extended till 2026)
6.	Chemists college of Pharmaceutical Science & Research	2020-2023

## 5. STUDENT SUPPORT

### 5.1. NATIONAL AND INTERNATIONAL DAY CELEBRATIONS

SI. NO	TITLE OF EVENT	PROGRAM CATEGORY	OUTCOME OF EVENT	DATE
1	Web Onam Vibe 2K20	Regional, linguistic and socioeconomic harmonization	Online celebration is a great way to assure social connections especially in COVID pandemic. The program “Web Onam Vibe Onam 2K20” contributed effectively in <b>building a harmony among students and with faculty in the pandemic period</b>	25/08/2020
2	World heart day	Duties and responsibilities of Indian health care professional	According to the recent evidences, cardio-vascular diseases contributed to 28.1% of total deaths in India. Hence it is the social responsibility of <b>Indian health care professional to educate their citizens</b> about the disease. An awareness talk from Dr. Sandeep. R, MD,DM,DNB, consultant Interventional cardiologist Marsleeva Medicity, Pala was made available <b>online for the awareness of public by this event.</b>	29/09/2020
3	World Diabetes	Duties and responsibilities	The program upgraded the knowledge of budding clinical pharmacists on the	14/11/2020





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	Day	of Indian health care professional	role of medical nutritional therapy for type 2 Diabetes mellitus. Since diabetes is one of the prevalent diseases in Indian population it is the social responsibility of budding clinical pharmacists to <b>upgrade themselves and strive towards excellence; thus, contribute effectively to nation's healthcare system</b>	
4	World Aids day	Duties and responsibilities of Indian health care professional	The program provided awareness to the students on, HIV prevention, safe practices and the rights of HIV patients and enabled them to <b>educate the society</b> and thus helps to prevent discriminations and provide proper patient care	01/12/2020
5	Christmas celebration-2020	Communal harmonization	Students and staffs of religious background enthusiastically participated. <b>The bonds of communal harmony are reinforced by the celebration</b>	25/12/2020
6	Pipe composting in houses of Avoly panchayath	Constitutional obligations	It is the prime responsibility of Indian citizen to <b>protect and improve the natural environment</b> . The prime created awareness and helped to build a culture of systematic disposal of biodegradable waste among the people of Avoly panchayat.	28/12/2020
7	World cancer day	Duties and responsibilities of Indian health care professional	The estimated number of incident cases of cancer in India for the year 2022 was found to be 14,61,427. Hence It is the social responsibility of a budding health care professional to upgrade themselves and <b>provide right awareness to the public</b> . The current program involved awareness talks form Dr. Chitrathara. K(Director, Gynec Oncology & Breast Cancer,VPS Lakeshore Hospital, kochi and Dr.	04/02/2021



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			Balamurali Krishna (Oncologist Surgeon, Radiation Oncologist, General) upgraded the student's knowledge and the talk was made <b>available online for the awareness of public</b>	
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### 5.2. SPORTS AND CULTURAL EVENTS ORGANIZED

Event No.	Date	Name of the event
<i>Cultural events/ competitions organized by the institution</i>		
1.	25/08/2020	Web Onam Vibe Onam- Digital painting competition
2.	25/09/2020	Photography Competition
3.	29/09/2020	Elocution Competition
4.	14/11/2020	Burpees Challenge
5.	21/11/2020	Debate Competition
6.	01/12/2020	Vlog Writing Competition
7.	25/12/2020	Fab –Yule-Us 2020
8.	04/02/2021	Awareness Skit
9.	25/07/2021	Cheer For India Video making competition

### 5.3. SCHOLARSHIPS

#### MANAGEMENT SCHOLARSHIPS

401 students received various scholarships. The management has spent Rs. **549240** /- for this.

Name of scholarship	No of students benefited	Amount
M L Schroff scholarship	132	58740



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Spease scholarship	59	118000
Mar George Madthikandathil Scholarship	30	94000
Fleming scholarship	93	234000
Indra Devi yoga scholarship	87	44500
<b>Total</b>	<b>401</b>	<b>549240</b>

### CENTRAL SECTOR SCHEME OF SCHOLARSHIPS FOR COLLEGE AND UNIVERSITY STUDENTS

SI No.	Name Of Student
1	Divya Merin Emerson
2	Arshamol Varghese
3	Elza Baby

### POST MATRIC SCHOLARSHIP SCHEMES MINORITIES CS

SI No.	Name Of Student
1	Riya George
2	Milagrin Xavier
3	Akshara Shaji
4	Litta Eldho

## 5.4. PLACEMENT ACTIVITIES

### 5.4.1. NO: OF STUDENTS PLACED

21 got placed

### 5.4.2. NO: OF PLACEMENT DRIVES CONDUCTED

4



# NIRMALA COLLEGE OF PHARMACY

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### 5.5. SKILL DEVELOPMENT PROGRAMMES CONDUCTED

Sl. No.	Name of the capacity development and skills enhancement program	Date of implementation (DD-MM-YYYY)	Number of students enrolled	Name of the agencies/consultants involved with contact details (if any)
1	Language and Communication skill	01-12-2020	30 (I Pharm D)	Ms Athira James
2	Skill Development Programme	10-03-2021	Final year bpharm and final year m.pharm	Mr Jaison Arackal, Administrator and Chief Trainer, Success Mine Training Academy
3	Webinar on importance of Antenatal care	18-09-2021	....	Dr. Sr. Josline SMC , Associate professor of Mar Sleeva College of Nursing Cherpunkal , St. Martha's Convent, Pala
4	She Spaces	03-04-2021	.....	Ms. Kavya .R .Menon, Eco- feminist consultant-gender and environment

### 5.6 ALUMNI ACTIVITIES:

Mega Alumni meet 2020-2021 was conducted on 27<sup>th</sup> November 2021 in college Auditorium. 72 members attended the event

## 6. SOCIETAL ACTIVITIES

### ENVIRONMENTAL PROMOTIONAL ACTIVITIES

Name of programme	Organising unit/ agency/	Name of scheme	Year of activity



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	collaborating agency		
Pipe composting in houses of Avoly Panchayath	NSS unit	Malinya Muktha Keralam	28/12/2020
Public awareness program against Diabetes	ISPOR/NSS	National Program for Prevention & Control of Cancer, Diabetes, Cardiovascular disease and Stroke (NPCDCS)	30/09/2020
Public awareness program against Cardiac diseases at St. Sebastian's higher secondary school	ISPOR/NSS	National Program for Prevention & Control of Cancer, Diabetes, Cardiovascular disease and Stroke (NPCDCS)	30/09/2020
Public awareness program against Cardiac diseases at Grand center mall	ISPOR/NSS	National Program for Prevention & Control of Cancer, Diabetes, Cardiovascular disease and Stroke (NPCDCS)	30/09/2020
Public awareness program against Cardiac diseases and its complications	ISPOR/NSS	National Program for Prevention & Control of Cancer, Diabetes, Cardiovascular disease and Stroke (NPCDCS)	29/09/2020
Public awareness about COVID-19	ISPOR/NSS	Public awareness programs	23/08/2020



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### 7. FEEDBACK

#### FEEDBACK ON ACADEMIC PERFORMANCE & AMBIENCE OF THE INSTITUTION, AY: 2020-2021

Sl No.	Recommendations given by feedback committee	Actions taken	Impact
<b>STUDENTS</b>			
1	Audibility of teachers to be improved.	Audio system is incorporated in classes.	Clear audio which helps improve attention and participation of students in teaching learning process.
2	Internet facilities.	<ul style="list-style-type: none"> <li>➤ The number of computers with Microsoft were increased.</li> <li>➤ More no. of Wi Fi access points is provided.</li> </ul>	Students are able to carry out effective literature survey which in turn helps them to present quality research works.
3	Sports facilities.	<ul style="list-style-type: none"> <li>➤ Additional sports facilities are provided in girl's hostel.</li> <li>➤ Students are permitted to practice after college hours.</li> </ul>	Helps to increase active participation.
4	Skill development programmes.	<ul style="list-style-type: none"> <li>➤ The number of skill development programmes were increased.</li> <li>➤ New student centric clubs are introduced to increase the confidence and soft skills of students.</li> </ul>	Improved students' confidence, problem solving & independent thinking skills. Helps to plan their future.
5	Canteen	Refreshment items & timings increased.	Students got refreshment time.
6	Harmony hour	More extracurricular events are introduced.	Motivation for students.
<b>STAFF</b>			



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7	Toilet & Washroom Facilities to be improved.	<ul style="list-style-type: none"><li>➤ Training given to ministerial staff.</li><li>➤ SOPs are displayed.</li></ul>	Cleanliness and hygiene improved.
		<b>ALUMNI</b>	
8	Programmes which help students to apply the principles learned from various pharmaceutical sciences.	<ul style="list-style-type: none"><li>➤ Systematic Review And Meta-Analysis</li><li>➤ Patient-centric drug information by reducing medication errors.</li><li>➤ Drug reposition: transformation of hard work into smart work</li></ul>	Helps students to develop and implement plans and organizework to meet the dead lines.

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