



Dr. N.G.P. ARTS AND SCIENCE COLLEGE

(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)

Approved by Government of Tamil Nadu & Accredited by NAAC with 'A++' Grade (3rd Cycle - 3.64 CGPA)

Dr. N.G.P.-Kalapatti Road, Coimbatore-641 048, Tamil Nadu, India.

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BIOGENERON

Newsletter

JUNE 2022 - MAY 2023

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- Department of Biochemistry
- Department of Clinical Laboratory Technology
- Department of Biotechnology
- Department of Microbiology
- Department of Food Science and Nutrition



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DEPARTMENT OF BIOCHEMISTRY

ABOUT THE DEPARTMENT

The department of Biochemistry adopts an integrated approach embracing the view that tomorrow's breakthroughs are likely to occur at the interface of traditional biological sub-divisions. The department was instituted in 1997 with the goal of educating and equipping the students in biological science and offers UG, PG, M.Phil. and Ph.D. programmes. The department is recognized by DST-FIST in 2014 for the establishment of research facility and by DBT STAR in 2018 for enhanced undergraduate teaching. The department has good academic record with distinguished university ranks, good number of publications at National/ International journals. The department has received many major and minor projects support from various funding agencies such as DBT-CTEP, UGC, DST, DBT, ICMR and TNSCST.

ACTIVITIES OF THE DEPARTMENT

NATIONAL CONFERENCES



Dr. M. Senthil Kumar, Assistant Professor, Horticultural Research Station delivered a keynote address on "Applications of AI in Insect Management" in a National Conference on AI and IoT for Agriculture Innovation and Environment Sustainability on 25.08.2022



Dr. P. Nallathambi, Principal Scientist and Head of the Station, ICAR, Wellington inaugurated National Conference on "Interdisciplinary Approaches on Dynamics of Bioscience Research" on 28.03.2023

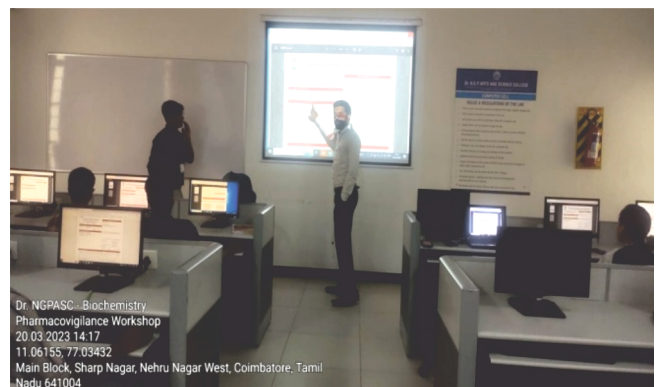
WORKSHOPS ORGANIZED



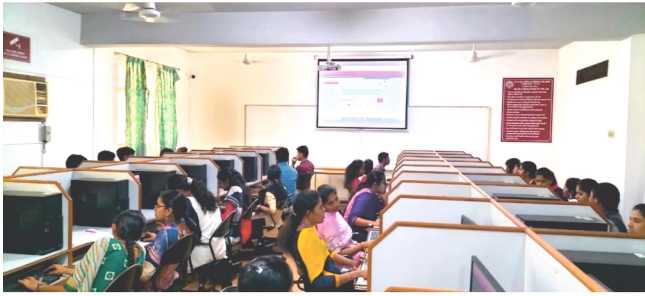
Dr. P.Vinayagamoorthi, Assistant Professor, Department of Human Genetics and Molecular Biology, Bharathiar University, Coimbatore, has given a hands on training in a Workshop entitled "Demonstration of Drosophila Mutant Identification, using a Microscope" on 16.08.2022



Dr. P. Ekambaram, Associate Professor, Molecular Toxicology Laboratory, Department of Biotechnology, Bharathiar University, Coimbatore has created an awareness in a Workshop entitled "Visualization of Zebrafish Larvae using a Microscope" on 16.08.2022



Mr. Vijay Rajendran, Technical consultant, Bioexplora, Coimbatore has presented an orientation in a Workshop titled "Pharma covigillance" on 20.03.2023



Dr.Ravikumar, Senior Scientist, IRCB, Erode has given hands on training entitled “Medicinal Plants and its Toxicity Analysis by using Bioinformatics Tools and Database” on 29.03.2023

INVITED LECTURES



Dr. M.S.A. Muthukumar Nadar, Assistant Professor, Department of Biotechnology, Karunya Institute of Technology and Sciences, Coimbatore delivered a lecture on “Scope and Opportunities in Life Sciences” on 12.01.2023



Dr.A.Indhulekha, Professor and Head, Department of Science and Humanities, Sri Krishna College of Engineering and Technology, Coimbatore delivered a Guest Lecture entitled “Health and Hygiene” on 09.01.2023



Dr.R.Vivek, Assistant Professor/ DBT Ramalingasamy Reentry Fellow, Bharathiar University, Coimbatore delivered a lecture on “Development of Nanotheranostic Approaches to Management of Cancer” on 09.02.2023

INTER AND INTRADEPARTMENTAL COMPETITIONS



Students participated in the commemoration of World Photographic Day titled “Scientific Phenomena happening all around us” and displayed various phenomenon on 27.08.2022



Students participated and displayed various Posters and models in Exhibition titled “Sustainable Development Goals” on 27.01.2023

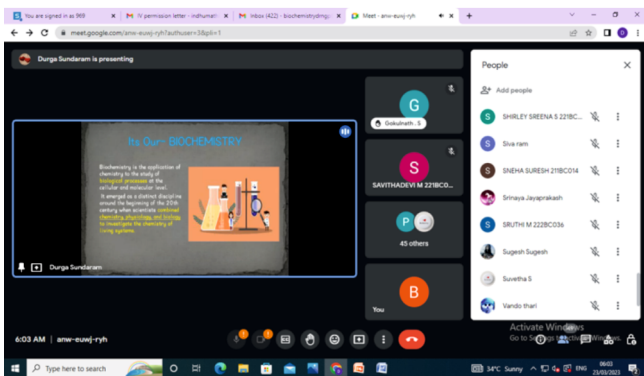
ALUMNI INTERACTIONS



Mr. Mohammed Riyaz, Training Manager, Central Bank of India building, Coimbatore delivered a lecture on 27.01.2023



Dr.Vadivel, Head, Clinical Biochemistry and Quality Control, KG Hospital, Coimbatore delivered a talk on “Laboratory Quality Assurance” on 11.02.2023



Ms. Durgadevi, Executive, Medreich Pvt. Ltd, Bangalore interacted on “Career Options in the Pharmaceutical Industry” on 23.03.2023

FACULTY DEVELOPMENT PROGRAMME



Three day Faculty Development Programme on “Role of Interdisciplinary Research in Teacher Quality Enrichment for Quality Tertiary Education” was jointly organized by the Faculty of Biosciences from 23.06.2022 - 25.06.2022

INDUSTRIAL VISIT



Students of Biochemistry took an Industrial Visit to Indian Institute of Science (IISc), Bangalore on 17.03.2023

EXTENSION ACTIVITIES



An Extension Activity was conducted on “Segregation of Waste at Home” at Nellithurai Village, Coimbatore on 10.09.2023



Competitions were conducted for School Students as part of National Science Day Observation on 28.02.2023

STAFF PARTICIPATION AND PRESENTATION

- Dr.K.Rajathi, Professor of Biochemistry participated in the IP Awareness/ Training program under National Intellectual Property Awareness Mission on 16.01.2023.
- Dr.N.Kannikaparameswari, Dr.T.Indhumathi and Dr.K.Rajathi, Professors of Biochemistry participated in the Seven days National Level FDP on Teaching and Learning in Higher Educational Institutions organized by IOT Academy held from 06.08.2022 to 14.08.2022.
- Dr.T.Indhumathi and Dr.K.Rajathi, Professors of Biochemistry presented a paper in the International Conference on “Confluence of Science and Technology (ICCST)” organized by PG and Research Department of Biochemistry at Bharathidasan College of Arts and Science, Erode on 15.10.2022
- Dr.T.Indhumathi and Dr.K.Rajathi, Professors of Biochemistry participated in Five days online hands-on workshop on “Computer-Aided Drug Design using Medicinal Plants & Nutraceuticals (CADDMPN'23)” Organised by Iyarvi Research Center for Bioinformatics (IRCB), Gobichettipalayam, Erode from 06.03.2023 to 10.03.2023

- All the staff members of the department completed Infosys Springboard Course on Human Health and Diseases
- All the staff members of Department of Biochemistry participated in One Day Workshop on Outcome Based Education organized by IPSR Solution Ltd at Dr.NGPASC, Coimbatore on 04.03.2023
- All the staff members of the department completed Professional Development Programme on "Implementation of NEP – 2020 for University and College Teachers" organized by Indira Gandhi National Open University, Staff Training and Research Institute of Distance Education, New Delhi held from 21.08.2023 to 29.08.2022
- Mrs.S.Divya Priya and Mrs.G.Lalith, Assistant Professors of Biochemistry participated in International Virtual FDP on Personality Grooming-handling Stress and Emotional Intelligence organized by IQAC and Department of Commerce with Information Technology, PPG College of Arts and Science, Coimbatore from 02.01.2023 to 06.01.2023
- Dr.D.Pradeepa, Assistant Professor of Biochemistry, presented a paper in 2nd International Conference on Innovation in applied Science held at Mahalakshmi Women's College of Arts and Science, Avadi, Chennai on 03.02. 2023
- Dr. Gowri.S and Dr. Pradeepa. D, Professors of Biochemistry participated in the Two-week Refresher Course on "Life Sciences" organized by Teaching Learning center Ramanujan College in collaboration with Department of Chemistry, Miranda House University of Delhi, under the Ministry of Education sponsored Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) scheme from 17.03.2023 to 01.04.2023
- Mrs.S.Divya Priya and Mrs. G. Lalitha, Assistant Professors of Biochemistry participated and presented a paper in the "International Conference in Food, Bio and Nano Materials" (ICFBN'23) in Faculty of Engineering, Karpagam Academy of Higher Education, Coimbatore, India held from 17.3.2023-18.3.2023
- Mrs.S.Divya Priya and Mrs.G.Lalitha, Assistant Professors of Biochemistry participated in six days International Faculty Development Program on 'Research Methodologies & Teaching organized by Shri Krishnaswamy College for Women & Raise Centre of Excellence, powered by MIT Square, London from 10.10.2022 to 15.10.2022
- Mrs.S.Divya Priya, Assistant Professor of Biochemistry participated in IIC Impact Lecture organized by Michael Job College of Arts and Science for Women on the topic "Entrepreneurial Traits: A Discussion" presented by Rtn MPH
- Sakthivel Subramanian, managing Director, Sakthivel Group of Companies on 25.06.2022
- Dr.S.Gowri, Professor of Biochemistry participated in a three day Faculty Development Program on Emotional Intelligence conducted by ICT Academy at Dr.N.G.P.Arts and Science College, Coimbatore from 15.12.2022 to 17.12.2022
- Dr.N.Kannikaparameswari, Professor of Biochemistry participated in One day Workshop on Fundamentals in animal cell culture techniques and toxicity testing conducted by PSG Institute of Advanced Studies, Coimbatore on 29.03.2023
- Mrs. G. Lalitha, Assistant Professor of Biochemistry participated in "Workshop on Patents, Design & Functional Aspect of IPR," Organized by Faculty Research Forum, School of CS & IT, Jain (Deemed-to-be University), Bengaluru, Karnataka on 28.01.2023
- Dr.N.Kannikaparameswari, Professor of Biochemistry attended online National seminar on Significance of Intellectual Property Rights (IPRs) in Current Era on 12.11.2022 organized by the Department of Biochemistry, PSG College of Arts and Science in Association with PSG Center for Academic Research and Excellence, Coimbatore

STUDENTS PARTICIPATION AND PRESENTATIONS

- Ms.Akshaya Sri.M, Keerthana.K of II M.Sc. Biochemistry and Poojashri, Charunandhini Ph.D Research scholar attended hands on training workshop on "Advanced Cell Culture techniques for cancer research" conducted by Department of Biochemistry, Bharathiar University from 01.08.2022-05.08.2022
- Suvetha S,Rasika K, Narmadha A, Narmadha T and Sumaiya Tanzeem Bof I M.Sc. Biochemistry presented a paper in International Conference Organized by Department of Biochemistry, Bharathidasan College of Arts and Science on 10.10.2022
- V.Anusha of II B. Sc Biochemistry presented a paper in Two-day multidisciplinary online International Conference Organized by Annamalai University, Annamalai Nagar, Tamil Nadu from 20.02.2023 to 21.02.2023
- L.Lalith Sree of III B, Sc Biochemistry presented a paper and won Second Prize in 2nd International Conference on Innovation in Applied Science organized by Mahalakshmi Women's College of Arts and Science on 03.02.2023
- II and III UG Students participated in Intercollegiate Competitions conducted by Rathinam Arts and Science College Coimbatore on 22.02.2023

MEMBERSHIP IN ACADEMIC BODIES

- Dr.T.Indhumathi and Dr.K.Rajathi are Life Members in InRes Institute of Researchers, Kerala.
- Dr.K.Rajathi is a reviewer in International Journal of Plant & Soil Science and Asian Journal of Biochemistry, Genetics and Molecular Biology.

ACADEMIC FELLOWSHIPS

- Ms.Pooja Shri, Ph.D Research Scholar was selected for Savitribai Jyotirao Phule Single Girl Child Fellowship with effect from 1st April 2023
- Ms.K.Charu Nanthini, Ph.D. Research Scholar received Tamilnadu SC/ST Incentive from Government of Tamilnadu, Department of Tribal Welfare.

AWARDS, PRIZES AND RECOGNITIONS

- Dr.S.Gowri received a fund of Rs.25,000/- from DBT-CTEP to conduct National Conference on “AI and IoT for Agriculture Innovation and Environment Sustainability” (N CAIAIES-22) on Aug 25, 2022
- Dr.T.Indhumathi received Young Researcher Award 2022 from InRes Institute of Researchers, Kerala.
- Dr.K.Rajathi was selected for Young Researcher Award 2023 from InRes Institute of Researchers, Kerala.
- Dr.S.Gowri, Dr.N.Kannikaparameswari and Dr.K.Rajathi were the Judges for Oral Presentation in the XIV Louis Pasteur International Symposium on “Role of Multidisciplinary Research in Microbiology for Sustainable Development” held from 9.03.2023 to 10.03.2023 organized by Department of Microbiology, Dr.N.G.P.Arts and Science College.
- Dr.N.Kannikaparameswari was the external member for the 1st Doctoral Committee meeting conducted for the candidate of PG and Research Department of Biochemistry, Bharathidasan College of Arts and Science, Erode on 01.03.2023

Awards by Students

- Ms.Manorida.G of III B.Sc. received Overall Trophy in 20th State level Intercollegiate Tamil speech competition conducted by Alumni association of PSG College of Technology, Coimbatore on 27.01.2023
- Ms.Lalithsree of III B.Sc. received 3rd prize in Pencil Sketch Competition conducted during NGP FEST on 12.01.2023
- Ms.Yashmitha of I B.Sc. received second prize in Solo dance conducted during NGP FEST on 12.01.2023

AWARD OF Ph.D.

- Dr.Arisha Taj, Research scholar of Dr.S.Gowri
- Mr.Muneeswaran.M, the Research Scholar of Dr.S.Gowri

PATENT / COPYRIGHT

- Dr.K.Rajathi filed patent on the topic “Synthesis of copper oxide nanoparticles using green tea leaf as an effective antimicrobial activity against urinary tract infection and production of organic intimate wipes as its treatment” on 03.03.2023 and “Design and implementation of IOT Technology for Accident Detection and Emergency Vehicle Tracking” on 03.03.2023.

PUBLICATIONS

1. Research Papers

- Muneeswaran.M and Gowri.S, “Anticancer activity of Cassia auriculata against Human Breast cancer MCF:7: An invitro and Insilico molecular Docking Approach” in Indian Journal of natural Sciences., Vol.13, Issue 75, 50155-50163 ISSN 0976-0997 during December 2022
- K.B.Leneey Green and K.Rajathi, “Understanding Human Autoimmune Diseases and its Serology tests using ELISA Technique” in World Journal of Pharmaceutical and Life Sciences., Vol.10, Issue 2, 157-163, ISSN 2454-2229, 2023
- K.Rajathi and K.B.Leneey Green, “Design and Implementation of Intelligent BioSensors, Personal defence devices in smart watch for women and sexual harassment” World Journal of Advanced Engineering Technology and Sciences., Vol.8, Issue.1, 128-131, ISSN 2582-8266, 2023.
- K.B.Leneey Green., Rasika.k and K.Rajathi, “Analysis of Calciferol and elements in Aqueous Extract of Muntingiacalabura fruit using LC_MS/MS and ICPMS Techniques” Indo American Journal of Pharmaceutical Sciences., Feb 2023, Vol (03), 290-293, ISSN 2349-7750, 2023.
- Dr.T.Indhumathi and V.Anusha, “Development of Nutritionally Enriched ICE Cream from the comparative analysis of cow and soymilk” in Nutrition and Health ., Vol.12 Issue2 ISSN 2278-231, 2023.
- Mrs.G.Lalitha, “Preparatory activities plant species on Elaeagnus multiflora thunb and Elaeagnus confertarobx – A REVIEW” in High Technology Letters with Impact Factor 2.7 and Scopus Indexed, Vol 29(2), 261-268. ISSN NO:1006-6748, 2023.
- Hariprasath.C., Divyapriya.S and Dhana Rangesh Kumar V, “Physicochemical, Formulation and Evaluation of Antifungal Health soap Using CurCuma Amada Roxburgh and Prunus

"Dulcis" in Asian Journal of Pharmaceutical and Clinical Research., April 2023, Vol.16, Issue 4, 2023, ISSN No: 2455-3891 Elsevier Product (EMBASE), 2023.

Books

- Rajathi K., Indhumathi T and Kannikaparameswari N, "Biopolymeric Nano materials in Cancer Treatment: A Mechanistic Approach." LAP LAMBERT Academic Publishing with ISBN Number: 978-620-6-14597-4, 2023.
- Kannikaparameswari N., Rajathi K. and Indhumathi T, "Development of Polyherbal formulation for antidiabetic activity" LAP LAMBERT Academic Publishing with ISBN Number: 978-620-6-14700-8, 2023.
- Indhumathi T., Kannikaparameswari N and Rajathi K., Karyotyping- Morphological Assessment. LAP LAMBERT Academic Publishing with ISBN Number: 978-620-6-15153-1, 2023.

DEPARTMENT OF CLINICAL LABORATORY TECHNOLOGY

ABOUT THE DEPARTMENT

The Department of Clinical Laboratory Technology, established in 2005, offers a unique three year undergraduate programme with a vision to provide high quality education to the students with hands on experience in the state of the art laboratories. The programme was meticulously designed to offer specialization in science stream encompassing a strong knowledge in clinical laboratory techniques and an exposure to social disciplines. The curriculum facilitates the students to acquire diverse knowledge in the field of Biochemistry, Microbiology, Pathology, Immunology, and Molecular biology. The department successfully produced 17 batches of students since inception.

ACTIVITIES OF THE DEPARTMENT

CONFERENCE



National Conference on “Interdisciplinary Approaches on Dynamics of Bioscience Research (IADBR-2023)” on 28.03.2023

ENDOWMENT LECTURE



Prof. Dr. Ganesh Nagaraju, Professor, Department of Biochemistry, Indian Institute of Science, Bengaluru delivered the Har Gobind Khorana Endowment lecture on “DNA Repair in Health and Disease” on 28.03.2023

GUEST LECTURE



Dr. Suryapratap Ray, Assistant Professor, Department of Applied Chemistry, Karunya Institute of Technology and Sciences, Coimbatore delivered a lecture on “Role of Forensic Laboratories in a Criminal Investigation” on 14.09.2022



Dr. Mohan Raj S, Research Scientist, KMCH Research Foundation, Coimbatore delivered a lecture on “Molecular markers in diagnosis of Non-Communicable Disease” on 17.08.2022

NATIONAL LEVEL WORKSHOP



DHR-ICMR Sponsored One Day National Level Workshop on “Advanced Artificial Intelligence (AI) Methods in Breast Cancer Diagnosis and Clinical Research” on 26.11.2022

STATE LEVEL WORKSHOPS



Dr. Velmurugan and Dr. Mohan Raj, KMCH Research Foundation, KMCH, Coimbatore acted as a resource person in the workshop on “RT-PCR” on 15.03.2023



Dr. Savithri M, Professor, Department of Computer Science, Dr.N.G.P. Arts and Science College, Coimbatore shared her expertise on “Statistical Analysis Using Excel” on 15.02.2023



Dr. Karthikeyan T M, Professor & Head, Department of Pathology, KMCH Institute of Health Science and Research, Coimbatore instilled his views on “Role of Cytopathology in Diseases Diagnosis – Overview of Histopathological Techniques” on 14.10.2022

SEMINAR



Dr.Radha Palanisamy, Assistant Professor, Department of Biotechnology, Dr.N.G.P. Arts and Science College, Coimbatore delivered a talk on “Engineering and 3 D bioprinting” on 11.03.2023

FACULTY PROFESSIONAL DEVELOPMENT PROGRAMMES



Dr. Kokila S, Assistant Professor & Head in Clinical Laboratory Technology, Dr. N.G.P. Arts and Science College, Coimbatore delivered a talk on “Molecular Diagnosis on Diabetes Mellitus” on 29.03.2023



Dr. Sasikala S, Assistant Professor, Clinical Laboratory Technology, Dr.N.G.P. Arts and Science College, Coimbatore furnished her ideas titled “Cancer Biomarkers” on 06.02.2023



Dr. Hemalatha C, Assistant Professor, Clinical Laboratory Technology, Dr.N.G.P. Arts and Science College, Coimbatore gave a talk on “Cervical Neoplasia” on 18.01.2023



Faculty Development Program
Department Of CLT
16.11.2022 15:46
11.06078, 77.03466 (±13m)
Altitude: 327m
Main Block, Sharp Nagar, Nehru Nagar West, Coimbatore, Tamil Nadu 641004

Dr. Anbalagan K, Assistant Professor, Clinical Laboratory Technology, Dr.N.G.P. Arts and Science College, Coimbatore delivered a talk on “Spectroscopic Data Analysis” on 11.11.2022

ALUMNI INTERACTIONS



Ms. Thenmozhi, MD, Anbu Diagnostic Lab, Coimbatore interacted on “Role of Forensic Laboratories in a Criminal Investigation” on 25.03.2023



FDP
Department Of CLT
28.10.2022 15:42
11.06076, 77.03491 (±11m)
Altitude: 328m
292/1A, Sharp Nagar, Cheran ma Nagar, Coimbatore, Tamil Nadu 641095

Dr. Thiruselvi M, Assistant Professor, Clinical Laboratory Technology, Dr.N.G.P. Arts and Science College, Coimbatore shared her knowledge on “Recent Research in Cancer studies using Cell Lines” on 28.10.2022



Alumni Interaction
Department Of CLT
22.02.2023 14:25

Mr.Vignesh.C, Laboratory Technologist, Department of Pathology, KMCH Medical College Hospital, Coimbatore delivered an Alumni talk on “Techniques in Histopathology” on 22.02.2023

EXTENSION ACTIVITIES



Extension Activity
Department Of CLT
29.10.2022 12:35
11.08954, 76.91236 (±2m)
Altitude: 486m
B Block 115 Bouganville, Ghandhi Nagar, Mettupalayam Rd, Surya Garden, Coimbatore, Tamil Nadu 641017

Awareness Programme on “Personal Hygiene” at Thippanur village on 29.10.2022



Dr. NGP Arts & Science College
Alumni Meet
05.11.2022 11:30

Ms. Radhika M, Medical Laboratory Technologist, Rashit Hospitals, Dubai Health Authority, UAE shared on “Safety Control Measures in Clinical Laboratories” on 05.11.2022



Health Camp and Awareness on Obesity in Sarkar Samakulam Village on 27.08.2022



Alumni Interaction
Department Of CLT
26.10.2022 15:28
11.06189, 77.03748 (±1300m)
Altitude: 329m
42, 42/2, 2nd St, Thirumurugan Nagar, Villankurichi, Tamil Nadu 641035

Mrs. S. Shruthi, Assistant professor, PPG Institute of Health Sciences, Coimbatore delivered a talk on “Skill Enhancement in Laboratory Science for Career Prospects” on 26.10.2022



Mr. M. Vasanth Kumar, Assistant Professor, Department of Criminology, CMS CSC, Coimbatore interacted on “Employment and Research Opportunities in Criminology & Forensic Science” on 23.09.2022

INDUSTRIAL VISIT



Students of Clinical Laboratory Technology took an Industrial visit to Pasteur Institute of India, Conoor on 24.03.2023

STAFF ACHIEVEMENTS

PAPER PRESENTATION

- Dr. Kokila S, Assistant Professor (SG) of Clinical Laboratory Technology presented paper entitled “Antibacterial potential and Phytochemical Analysis of *Caradospamumhelicacaabum*” in National Conference on Interdisciplinary Approaches on Dynamics of Bioscience Research (IADBR—2023) held at Dr. N.G.P Arts and Science College, Coimbatore on 28.03.2023
- Dr. Kokila S, Assistant Professor (SG) of Clinical Laboratory Technology presented a paper “Antibacterial effect of *Ceiba pentendra* and *Clitoriaternata* against UTI causing bacteria” in XIV Louis Pasteur International Symposium on Role of Multidisciplinary Research in Microbiology for Sustainable Development (RMSD - 2023) held at Dr. N.G.P Arts and Science College, Coimbatore on 09.03.2023
- Dr. Kokila S, Assistant Professor (SG) of Clinical Laboratory Technology presented a paper titled “Synthesis of Silver Nano particles using leaves of *Cucurbita moschata* and Evaluation of Antibacterial Activity” in International Conference on Recent Developments in Computational and Biological Sciences held at

Sri Ramakrishna College of Arts and Science for Women, Coimbatore on 10.03.2023

- Dr. Thiruselvi M, Professor of Clinical Laboratory Technology presented a paper entitled “Evaluation of Phytochemicals and Anti-inflammatory Activity in the Extract of *Curcuma zedoria*” in National Conference on Interdisciplinary Approaches on Dynamics of Bioscience Research (IADBR—2023) held at Dr. N.G.P Arts and Science College, Coimbatore on 28.03.2023
- Dr. Thiruselvi M, Professor of Clinical Laboratory Technology presented a paper entitled “Invitro Antioxidant Activity of *Cucurbita Maxima* Against Free Radicals” in International Conference on Recent Developments in Computational and Biological Sciences held at Sri Ramakrishna College of Arts and Science for Women, Coimbatore on 10.03.2023
- Dr. Thiruselvi M, Professor of Clinical Laboratory Technology presented a paper entitled “Protective Effect of Polyherbal Seed Extract Against Oxidative Stress” in International conference on Confluence of Science and Technology, Bharathidasan College of Arts and Science, Erode, 10.10.2022
- Dr. Hemalatha C, Assistant Professor of Clinical Laboratory Technology presented paper entitled “Preparation and Evaluation of Polyherbal Moisturizer” in National Conference on Interdisciplinary Approaches on Dynamics of Bioscience Research (IADBR-2023) held at Dr. N.G.P Arts and Science College, Coimbatore on 28.03.2023
- Dr. Hemalatha C, Assistant Professor of Clinical Laboratory Technology presented paper “Phytochemical Analysis and Hemolytic Assay of *Setaria italica* and *Apis mellifera* for Thrombolytic Activity” in International Conference on Recent Developments in Computational and Biological Sciences held at Sri Ramakrishna College of Arts and Science for Women, Coimbatore on 10.03.2023
- Dr. Hemalatha C, Assistant Professor of Clinical Laboratory Technology presented paper titled “Green Synthesis of Zinc and Copper Nanoparticles using Leaf Extract of *Azadirachta indica* and *Ocimumteniflorum* and its Antibacterial Activity” in XIV Louis Pasteur International Symposium on Role of Multidisciplinary Research in Microbiology for Sustainable Development (RMSD - 2023) held at Dr. N.G.P Arts and Science College, Coimbatore on 09.03.2023
- Dr. Sasikala S, Associate Professor of Clinical Laboratory Technology presented a paper entitled “Isolation and characterization of Pigment Producing Bacteria” in National Conference on Interdisciplinary Approaches on Dynamics of Bioscience Research (IADBR—2023) held at Dr. N.G.P Arts and Science College, Coimbatore on 28.03.2023

- Dr. Sasikala S, Associate Professor of Clinical Laboratory Technology presented a paper "Anti diabetic, anti-hemolytic and anti-microbial activity of Piper betle and Alternathetrasessilis" in International conference on Confluence of Science and Technology held at Bharathidasan College of Arts and Science, Erode on 10.10.2022
- Dr. Sasikala S, Associate Professor of Clinical Laboratory Technology presented a paper "Prevalence of Hand Hygiene among Farmers" in International Conference on Recent Developments in Computational and Biological Sciences held at Sri Ramakrishna College of Arts and Science for Women, Coimbatore on 10.03.2023
- Dr. Sasikala S, Associate Professor of Clinical Laboratory Technology presented paper, "Antibacterial activity of ethanolic extract of Tabernaemontana Orientalis Flowers Against Tooth Decay" in XIV Louis Pasteur International Symposium on Role of Multidisciplinary Research in Microbiology for Sustainable Development (RMSD - 2023) held at Dr. N.G.P Arts and Science College, Coimbatore on 09.03.2023
- Dr. Anbalagan K, Assistant Professor of Clinical Laboratory Technology presented paper entitled "Study on Antibacterial and Anti Diabetic Activity of Polyherbal Formulation" and "Biological Applications of Biosynthesized Iron Nanoparticle" in National Conference on Interdisciplinary Approaches on Dynamics of Bioscience Research (IADBR—2023) held at Dr. N.G.P Arts and Science College, Coimbatore on 28.03.2023
- Dr. Anbalagan K, Assistant Professor of Clinical Laboratory Technology presented a paper, "Biosynthesis of Cu/Zn Bimetallic Nano Particles Using Moringa oleifera and Coleus Amboinicus leaf extract" in International Conference on Confluence of Science and Technology held at Bharathidasan College of Arts and Science, Erode on 10.10.2022

PUBLICATIONS

- Dr. S. Sasikala and Dr. N. Kannikaparameswari, Professor of Clinical Laboratory Technology published a paper titled "A Comparative Study on phytochemical and in vitro Antioxidant Activity of Herbal Formulation of Achyranthes aspera and Boerhaviadiffusa Ethanolic Extracts" in the Journal of University of Shanghai for Science and Technology. (Vol. 25, No. 102-117, ISSN:1007-6735 (Indexed in Scopus) on February 2023
- Monisha Sudhakar, Thiruselvi Muniswaran, Gayathri Devi, Ram Narendran, V Rama, Santhoshkumar Muth, Hariputhiran, Ragavan Balliah, published a paper titled "Renal Function Outcome and Antidyslipidaemic Effect of Polyherbal Crude Extract in Isoproterenol-Induced Oxidative Damage in Rat

Myocardium" in the Journal of University of Shanghai for Science and Technology. (Volume 24, Issue 8, No. 286-301. ISSN: 1007-6735, (Indexed in SCOPUS) on August 2022

STUDENT ACHIEVEMENTS

- Mr. Mohammed Midlaj N S and Ms. Kavya D of III B.Sc. CLT won the First prize in National Level Technical Fest held at Excel Engineering College, Komarapalayam on 21.03.2023
- Mr. Sam Sundar Singh S of III B.Sc. CLT won the First prize in oral presentation in national conference on Interdisciplinary Approaches on Dynamics Of Biosciences And Research" (IDABR-2023) held at Dr. N. G. P Arts and Science college, Coimbatore on 28.03.2023
- Ms. Abinaya. B and Ms. Natchathraof II B.Sc. CLT won the First prize in poster presentation in International Conference on Confluence of Science and technology held at Bharathidasan College of arts and science, Erode on 10.10.2022
- Ms. Shama Anzum I of III B.Sc. CLT won the First prize in poster presentation held at Bannari Amman Institute of Technology, Sathyamangalam on 18.10.2023
- Ms. Bhuvana. S of II B.Sc. CLT won the Second prize in dance competition held at Bharathiar University on 12.08.2022

PLACEMENT

- Ms. Gowsalya M, Ms. Jeevadarini S, Mr. Mohammed Midlaj N.S, Ms. Sandhiya P and Ms. Sangeetha M.S of III. B.Sc. CLT were placed in KMCH Hospitals, Coimbatore
- Ms. Nisha R of III. B.Sc. CLT placed in Star Agile, Bengaluru.
- Ms. Priyanka S of III. B.Sc. CLT was placed in Aosta India Pvt. Ltd., Coimbatore

DEPARTMENT OF BIOTECHNOLOGY

ABOUT THE DEPARTMENT

The Department was established in 2002 with the goal of rendering innovative education to the learning aspirants. Biotechnology is a fast growing arena of research and innovation. The department offers UG, PG, M.Phil. and Ph.D. programmes. The Department has proven to be a good platform for the budding biotechnologists with excellent infrastructure and instrumentation facilities. At present, the department is functioning effectively with 10 staff members and one visiting faculty with 245 students and scholars.

GUEST LECTURES / INVITED TALKS



Dr. S. Nakeeran, Professor, Dean – Agricultural College and Research Institute (AC & RI), delivered lecture on “Discovery of Biomolecules for Management of Plant Diseases of Global Significance” on 02.09.2022



Dr. M.R. Srinivasan, Department of Agricultural Entomology, TNAU, Coimbatore delivered a talk on “Apiculture for Biodiversity and Nutritional Security” on 21.02.2023

HANDS ON TRAINING / WORKSHOP



Students of Biotechnology underwent hands-on training titled “Nanophotometric Quantification of DNA in Different Plant Tissues” on 25.08.2022



Students of Biotechnology underwent hands-on training titled “Stereomicroscopic Observation of Pollen Diversity” on 29.09.2022



Dr. R. Arivukkarasu, Associate Professor, KMCH College of Pharmacy, Coimbatore gave a talk in a workshop entitled “HPTLC Data Analysis” on 21.02.2023

ALUMNI INTERACTIONS



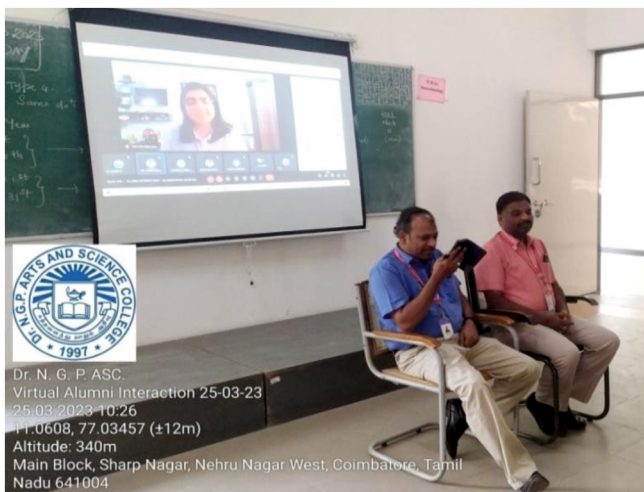
Dr. N. G. P ASC ADC
ALUMINI INTERACTION
14.10.2022 14:18

Mrs. Monisha Chander, Senior Data Steward - Product Master Data - Europe, VWR, part of Avantor, delivered a lecture entitled “Avenues of Skills Required in a Profession” on 14.10.2022



Dr. N.G.P. ASC
Virtual Alumni Interaction Dr B Venkates
05.11.2022 14:22
11.06112, 77.03441 (±10m)
Altitude: 319m
Main Block, Sharp Nagar, Nehru Nagar West, Coimbatore,
Tamil Nadu 641004

Dr. B. Venkatesh, Senior Scientist, Micro Lab, Hyderabad, delivered a lecture entitled “Opportunities for Biotechnologists in Molecular Diagnostics” on 05.11.2022



Dr. N. G. P. ASC.
Virtual Alumni Interaction 25-03-23
25.03.2023 10:26
11.0608, 77.03457 (±12m)
Altitude: 340m
Main Block, Sharp Nagar, Nehru Nagar West, Coimbatore, Tamil
Nadu 641004

Ms. Sreenithi V, Research Associate, Syngene International Ltd, Bangaluru delivered a talk online, titled “Liquid Chromotography – Mass Spectrometry” on 25.03.2023

INDUSTRY INSTITUTION PARTNERSHIP CONCLAVE



Dr. N.G.P. ASC
BIOFACE- ELITE TALK ON ENTREPRENEURSHIP
04.11.2022 11:29
11.06198, 77.03447 (±17m)
Sharp Nagar, Nehru Nagar West, Coimbatore

Dr. R. Ranjith Kumar, Chief Scientific Officer, Viyen Biotech LLP delivered an Elite Talk on “Innovation-A Changing Relationship between Academic and Entrepreneurship” on 04.11.2022

INTER/ INTRA DEPARTMENTAL COMPETITIONS



Dr. N.G.P. ASC
World Rose Day Celebration '22
22.09.2022 11:39
11.0619, 77.03427 (±17m)
Altitude: 320m
Sharp Nagar, Nehru Nagar West, Coimbatore

Students of Biotechnology took part in Drama Performance and Quiz competition on commemorating “World Rose Day” on 22.09.2022



Dr. N.G.P. ASC
BIOIDEA - 2022
27.10.2022 10:21
11.06078, 77.03438 (±12m)
Altitude: 322m
Sharp Nagar, Nehru Nagar West, Coimbatore

An intercollegiate contest on “Bioidea’22 - An Innovative Idea” was conducted on 27.10.2022



Dr. N. G. P. ASC
MEDICINAL PLANT EXHIBITION 22
15.11.2022 11:47
11.06198, 77.03446 (±15m)
Altitude: 318m
Sharp Nagar, Nehru Nagar West, Coimbatore

Exhibition on “Medicinal Plants” was displayed on 15.11.2022

INDUSTRIAL VISITS



Students of Biotechnology went for an Industrial Visit to Milky Mist Dairy Private limited, Perundurai, Erode on 25.01.2023



Students of Biotechnology took an Industrial Visit to Central Marine Fisheries Research Institute (CMFRI), Cochin on 15.02.2023

EXTENSION ACTIVITIES



Awareness programme on "Biodiversity and Environment Conservation" by III B.Sc Biotechnology students at Marudhur Village on 11.02.2023

STUDENTS ACHIEVEMENTS

- Mr. Durairaj N of II B.Sc. Biotechnology received an award from the Ministry of Youth Welfare and Sports Development Department, Tamilnadu for participating in State Republic day Parade camp-2023 held at Chennai from 17.01.2023 to 26.01.2023
- Mr. Manoj Kumar M of I B.Sc. Biotechnology won second place in South India level Kabaddi tournament held at Kumaraguru Arts and Science College from 10.03.2023 to 11.03.2023
- Ms. S.Jotheeswari of II B.Sc. Biotechnology, received Summer Research Fellowship (Indian Academy of Science) at Bhabha

Atomic Research Center(BARC), Mumbai under the guidance of Dr. Amit Kunwar

- Mr. Naveen. P of II M.Sc. Biotechnology received an amount of Rs. 10,000/- for student project from TNSCST, Tamil Nadu government

FACULTY ACHIEVEMENTS

Awards / Recognitions

- Dr. P. Chidambararajan, Professor and Head an External member for the Board of Studies meeting at Periyar University, Salem
- Dr. R. Suganthi, Professor of Biotechnology has received best paper award for the paper titled "Potential of Nisin Loaded Nanoparticle on Inhibition of Enterobacter cloacae biofilm formation" in the National Conference "Bioprospecting and Biotechnology" from 09.06.2022 to 10.06.2022
- Dr. Arun P, Professor of Biotechnology was an External member for the Board of Studies at Hindustan Arts and Science College, Coimbatore
- Dr. M. N. Kathiravan, Professor of Biotechnology has been recognized as NPTEL Believer for the period of July- Dec 2022 by NPTEL and SWAYAM, Government of India
- Dr. M. N. Kathiravan, Professor of Biotechnology was the resource person for the seminar on "Environmental Sustainability - The role of green computing in environmental Stewardship" organized by the department of Computer science at Sree Narayana Guru College, Coimbatore on 15.03.2023
- Dr. M. Poongothai, Associate Professor of Biotechnology was an External member for the Board of Studies at Sri Ramakrishna Arts and Science College, Coimbatore

Participation / Presentations

- Dr. R. Suganthi, Professor of Biotechnology has done oral presentation on "Assessment and confirmation of protectant activity by DHA-Melanin and AGMPS on Insects and Cell lines" in the International Conference on Multidisciplinary Aspects in Chemistry (ICMAC-2023) organized by Department of Chemistry, Sri Ramakrishna College of Arts & Science, Coimbatore from 9.02.2023 to 10.02.2023
- Dr.K.Arungandhi, Professor of Biotechnology has done Oral Presentation on "Biopolymer Production from Cassava Starch incorporated with Recombinant Spider Protein" organized by PG Department of Biotechnology, KSG College of Arts and Science, Coimbatore on 28.10. 2022
- Dr. Arun P, Professor of Biotechnology has done Oral Presentation

- on “Formation of Bio Lipstick from Algal Pigments” organized by PG Department Of Biotechnology, KSG College of Arts and Science, Coimbatore on 28.10.2022
- Dr.M.N.Kathiravan, Professor of Biotechnology has done a poster presentation on “Prediction of Performance and Sensitivity Rankings of a Clinical Candidate” in Indo Singapore International Conclave on Harnessing Next Gen AI Enabled Biotech Innovations for Sustainable Healthcare, organized by Center for Drug Discovery and Development, Sathyabama university, Chennai from 12.09.2022 to 13.09.2022
 - Dr.M.N.Kathiravan, Professor of Biotechnology has done poster presentation on “Molecular Cloning, Expression and Characterization of Novel Chitinase A gene (Chi-A) in E. Coli DH5” organized by PG Department of Biotechnology, KSG College of Arts and Science, Coimbatore on 28.10.2022
 - Dr.M.Shanmugavadivu, Associate Professor of Biotechnology has done Oral presentation on “Date seed oil - A Potential Therapeutic Agent” organized by PG Department Of Biotechnology, KSG College of Arts and Science, Coimbatore on 28.10.2022
 - Dr.S.Saranya, Assistant Professor of Biotechnology has done a Poster Presentation on “Biofilm inhibition by Bioactive Compounds derived from Marine Streptomyces JS 20” in Indo Singapore international conclave on Harnessing Next Gen AI Enabled Biotech Innovations for Sustainable Healthcare, organized by Center for Drug Discovery and development, Sathyabama University from 12.09.2022 to 13.09.2022
 - Dr.S.Saranya, Assistant Professor of Biotechnology has done an Oral presentation “Bioactive compounds from Marine Streptomyces species” organized by the PG Department of Biotechnology, KSG College of Arts and Science, Coimbatore on 28.10.2022
 - Dr.K.Arun Gandhi & Dr.S.Saranya, Professors of Biotechnology have published a Lab manual on “Microbiology and Biodiversity and Bioprospecting” with ISBN No. 9788195993949
 - Dr. Arun P & Dr.PDeepak, Professors of Biotechnology have published a Lab Manual on “Cell Biology and Biochemistry” with ISBN No. 9788195993987
 - Dr. Arun P & Dr.Kathiravan MN, Professors of Biotechnology have published a Lab manual on “Genomics and Proteomics, Research Methodology & IPR” with ISBN No. 9788195993932
 - Dr. Kathiravan & Dr. Radha Palaniswamy, Professors of Biotechnology have published a Lab manual on “Plant & Animal Biotechnology: with ISBN No. 9788196002145
 - Dr. M Shanmugavadivu & Dr.R.Suganthi, Professors of Biotechnology have published a Lab manual on “Molecular Biology, Genetics and Biochemistry” with ISBN No. 9788196002183
 - Dr.M.Shanmugavadivu, Associate Professor of Biotechnology has published a paper titled “Anticancer Activity of Silver Nanoparticles Synthesized Using Citrus Reticulata Fruit Peel Aqueous Extract”. International Journal of Research and Analytical Reviews (IJRAR) on 2022
 - Dr.M.Poongothai, Associate Professor of Biotechnology has received a patent on “Optimization of Temperature for Extraction of Protease from Coconut Shells (Cocos nucifera) and its Application in Food Industry”
 - Dr.M.Poongothai, Associate Professor of Biotechnology has received a patent on “Bio-plastic production from peduncle and peel of Musa paradisiaca – An ecofriendly approach”
 - Dr.M.Poongothai & Dr.PDeepak, Professors of Biotechnology have published a Lab manual on “Genetics and Biochemistry” with ISBN No. 9788196002138

Publications

- Dr. MN. Kathiravan, Mr. Mohammed Sahinsha, Dr.P.Chidambararjan & Dr.K.Arungandhi published a book entitled “A Text Book of Bio Materials and Artificial Organs”. 2023. RK Publications. ISBN No. 9788196213350
- Dr.R.Suganthi, Professor of Biotechnology has published titled “Analytical Biochemistry Laboratory Manual”. 2023. LAP Lambert Academic publishing” with ISBN No.9786205631874
- Dr.K.Arun Gandhi & Dr.M.Poongothai, Professors of Biotechnology have published a Lab manual on “rDNA, Bioprocess, Plant and Animal Biotechnology” with ISBN No. 9788195993994
- Dr.M.Poongothai, Associate Professor of Biotechnology has published a paper titled “Sperm Assessment and Processing” in Recent Advances in Biotechnology journal and “A Review on Protease – A Key enzyme of Multifold Functionalities” in Gradiva Review Journal.
- Dr.Radha Palaniswamy, Assistant Professor of Biotechnology has received a patent on “Synthesis of Emulgel from Euphorbia hirta and Coccinia grandis leaves”
- Dr.Radha Palaniswamy, Assistant Professor of Biotechnology has received a patent on “Development of polyvinyl alcohol film incorporated with Tridax procumbens leaf extract for food packaging application”

- Dr.Radha Palaniswamy & Dr.P.Chidambararjan, Professors of Biotechnology have published a paper titled “Formulation and evaluation of herbal lipstick from pigment of *Nyctanthes arbor-tristi*” in Indian Journal of Natural Products and Resources
- Dr. P. Deepak, Assistant Professor of Biotechnology has published a paper titled “Green synthesis of gold nanoparticles using *Gracilariacrassa* leaf extract and their ecotoxicological” in Environmental Research journal and “Bio-active compound isolated from *Aegle marmelos* fruit pulp and semi-synthetic modifications: a Biological potential” in Biomass Conversion and Biorefinery

DEPARTMENT OF MICROBIOLOGY

ABOUT THE DEPARTMENT

The Department of Microbiology was established in the year 2003 with the postgraduate programme and in 2004 with the undergraduate programme. The research programme comprises M.Phil. and Ph.D. which was started in the year 2005 and 2007 respectively. The department is funded and supported by DBT Star College Scheme, New Delhi. The department has a strong link with the Kovai Medical Center and Hospital and other institutions of the trust with more collaborative research projects. The department is armed with well qualified, dedicated and experienced faculty members. The department is committed towards the academic growth of the students and faculty by fostering research activities.

ACTIVITIES OF THE DEPARTMENT

CONFERENCES & SYMPOSIUM



National Conference on Interdisciplinary Approaches on Dynamics of Bioscience Research (IADBR - 2023) on 28.03.2023



XIV Louis Pasteur International Symposium titled "Role of Multidisciplinary Research in Microbiology for Sustainable Development (RMSD – 2023) on 09.03.2023 & 10.03.2023

GUEST LECTURES



Dr. N. G. P. ASC
World Microbiome Day Lecture, Yogesh Souc
02.07.2022 10:47
11.06168, 77.03392 (±59m)
Altitude: 321m

Dr. Yogesh Souche, Emeritus Scientist, NCCS, Pune delivered a lecture on "Translating Science to Business: Gut Microbiota" on 02.07.2022



Dr. N. G. P. CAS, Kalapatti, Cbe.
Guest Lecture 22.08.2022
22.08.2022 14:40

Dr. R. T. Rajendra Kumar, Professor, Department of Nanoscience and Technology, Bharathiar University, Coimbatore delivered a lecture on "Nanobiosensors" on 22.08.2022



Dr. NGP Arts & Science College
Dept. of Microbiology - Guest Lecture
23.01.2023 13:56
11.062, 77.03443 (±17m)
Altitude: 320m
Main Block, Sharp Nagar, Nehru Nagar West, Coimbatore, Tamil Nadu 641004

Dr. Jibu Thomas, Professor and Head, Department of Biotechnology, Karunya Institute of Technology and Sciences, Coimbatore delivered an expert talk on "Algal Biotechnology" on 23.01.2023



Dr. M. Gnanadesigan, Assistant Professor, Department of Microbial Biotechnology, Bharathiar University, Coimbatore delivered a talk on "Strategies on Malarial Drug development" on 29.03.2023

ELITE TALK



Dr. D. Padmanabhan, Managing Director, Dhanajeevam Life Sciences, Coimbatore gave an invited talk titled “Biopreneur - A Prospective Career Guidance from Cell to Sell” on 21.09.2022



Dr. M. Mekala, Director, Micro biotek, B. R. Puram, Coimbatore delivered an Elite talk titled “Promoting Entrepreneurship in Science Education” on 15.03.2023

WORKSHOPS



Workshop on “Column Chromatography Techniques” under DBT Star scheme on 23.09.2022



Workshop on “Microbiological Techniques” from 15.03.2023 to 16.03.2023

FACULTY DEVELOPMENT PROGRAMMES



Three Day Faculty Development Programme on “Role of Interdisciplinary Research in Teacher Quality Enrichment for Quality Tertiary Education” from 23.06.2022 to 25.06.2022



Dr.S.Saravanan, Professor and Dean Admin, Dr.NGPASC, Coimbatore delivered a talk In- house Faculty Development Programme on “Applications of Parametric Tests in Biological Research” on 28.10.2022



Dr. J. Rengaramanujam, Professor and Head, Department of Microbiology, Dr.NGPASC, Coimbatore delivered a talk in In-house FDP on “Life Style in Auto-immunity” on 11.11.2022



Dr. R. Mahenthiran, Assistant Professor, Department of Microbiology, DR.NGP ASC, Coimbatore delivered a talk in In-house FDP on “Production of Chicken IgY antibodies” on 20.01.2023

KNOWLEDGE SHARING PROGRAMMES



Knowledge exchange Programme on “Nutritional composition and shelf life analysis of food” from 16.03.2023 to 17.03.2023



Knowledge Exchange Program jointly with Department of Costume Design and Fashion on “Natural Compounds Extraction and Antimicrobial Studies and Natural Dying and Printing Process” on 13.10.2022

ALUMNI INTERACTIONS



Ms. M. Malarvizhi, Asst. Professor, Revathi College of Nursing and Paramedical Sciences, Avinashi, interacted on “Microbiologist in paramedical's or Paramedic's” on 05.11.2022



Mr. Sachin, Research Fellow, Bharathidasan University, Trichy shared his expertise in an Alumni Interaction Programme on 18.01.2023



Ms. C.M. Gayathri, Microbiologist, Fruzyme Biotech India Pvt, Ltd., Palladam gave a talk on “Food Safety Officer- Scope & path” on 25.02.2023

INTER-DEPARTMENTAL COMPETITIONS



Inter-Departmental competitions (oral and poster presentation) titled “Impact of TB” observation of World TB day 2023 on 24.03.2023



Intra-Departmental oral and poster competition on “Impact of Pneumonia” during the observation of World Pneumonia Day



Intra-Departmental product Expo on "Bioprospecting of Microbes" on 08.10.2022



Intra-Departmental Quiz competition on "Act Now and End Leprosy" in view of World Leprosy Day 2023 on 30.01.2023

EXTENSION ACTIVITIES



Awareness programme on "Mosquito Borne Disease" (On observation of World Mosquito Day) at Nellithurai village on 27.08.2022



Awareness Programme on "Role of Probiotics in Human Health" at Paduvampalli village on 29.10.2022

INDUSTRIAL VISITS



The students of III B.Sc., Microbiology visited Biotech Industry, Yercaud on 17.02.2023.



Industrial visit to Milma Dairy farm, Wayanad on 03.03.2023



Industrial visit to Pasteur Institute, Conoor on 29.03.2023

CONSULTANCY

PSGR Krishnammal College for Women, Krishna College of Engineering and Technology in the area of Antimicrobial Studies.

FUNDS RECEIVED

Ms. Harini of II M.Sc., Microbiology received fund Rs.7500/- towards TNSCST Student Project Scheme (2022-2023) under the guidance of Dr.R.Mahenthiran, Assistant Professor.

RESEARCH PUBLICATIONS

- Nandhini M, Dr.Sasikala C, Karthicraj C, "Cultivation of Oyster Mushroom - Pleurotus ostreatus using fruit peel," Journal of Emerging Technologies and Innovative Research (JETIR), 2349-5162, Sep, 2022, 9(9), Sep 2022

- M E Pavithra, J Rengaramanujam, S Raja, Azarudeen, M Thirumarimurugan, "Casting hydrophilic polymers blended polycaprolactone membranes for drug delivery to eradicate the cancer cells and pathogenic microorganisms, Polymer advanced Technologies" from 14.12.2022 to 15-12-2022.
- Kasiviswanath B, Senthil Prabhu S, Dinesh Kumar S and Sathishkumar R, "In silico Screening of Lichen Compounds against SARS-COV-2 RdRp Complex," Indian Journal of Natural Sciences, 0976–0997, 6/1/2022, Vol.13/ Issue 72, June 2022
- Kiruthika Balasubramnian, Sathishkumar R, Senthil Prabhu, "Free radical scavenging properties of coleus in silico screening of potential drug (phytochemicals) against interleukin-6 the key protein involved in metastasis," Indo American journal of pharmaceutical sciences, 2022, 09 (10), 69-79, September 2022
- Rama T C and Ramachandran A. M, "Topical gel formulation from Cassia auriculata flower and aloe vera leaf extract against skin infection causing bacteria and Staphylococcus aureus," World Journal of Pharmaceutical and Life Sciences WJPLS, 2454-2229, 2022, Vol. 8, Issue 11, October 2022
- S. Karthik Sundaram, Anagha S Nair, K. Kongarasi, K. Beesha, C. Ajitha, "Iron oxide nanoparticles and agricultural wastes used in enhancing the bioremediation and clarification procedures in textile effluent treatment, Sustainability, Agri, Food and Environmental Research," 0719-3726, 11(X), 2023, January 2023
- Rajesh kumar R, Karthiksundaram S, Karthickraj CK, "Biological hydrogen production by bacteria using pineapple peel," Journal of Emerging Technologies and Innovative Research (JETIR), 2349-5162, 9(9), September 2022.
- Karthickraj C K, Karthiksundaram S, Rajeshkumar R, Nandhini M, "Production of bio ethanol from – pineapple peel and determination of effective hydrolysis method," Journal of Emerging Technologies and Innovative Research (JETIR), 2349-5162, 9(9), September 2022.
- M. Nivethitha, P. Keerthana, K. Bharani priya, S. Monalisha, M. Sanjula and S. Kowsalya, "Formulation of hand sanitizer using Glycyrrhiza glabra with aloe vera and castor oil against skin pathogens," World journal of Pharmacy and Pharmaceutical Sciences, 2278–4357, Jan 2023, 12(2).
- Monalisha S and Sasikala C, "Bioethanol Production using Green Waste," World Journal of Pharmacy and Pharmaceutical sciences, 2278–4357, 12(4), 1437-1450, 02.03.2023.
- Keerthana P, Nivethitha M, Bharani Priya K, Kowsalya S and Devakumar J, "Review - In vitro Evaluation of the Antibacterial and Antifungal effect of Zingiber officinale Mouth wash against Pericoronitis Disease," International Journal of Creative Research Thoughts (IJCRT), 2320-2880, Apr-2023, 11(4).
- K Bharanipriya, P Keerthana, R Narashimman, S Karthik Sundaram, "Biodegradation of Plastic Waste Using Combinatorial Approaches," International Journal of All Research Education and Scientific Methods (IJARESM), 2455-6211, Mar-2023, 11(3).
- Sharmila S, Pavithra M E, Rengaramanujam J, Kavitha P, "Extraction of Polymer from bacteria and fungi and its characterization," International Journal of Creative Research Thoughts (IJCRT), 2320-2882, Sep-2022, 10(9).
- Praveen Kumar B, Ananda Krishnan P R, Kaviyarasu K, Indhra Prasad P, Mahenthiran R, "Enumeration of Microbes from Biofertilizer and Chemical Fertilizer Used Soil," IOSR Journal Of Pharmacy And Biological Sciences (IOSR-JPBS), 2278-3008, Jan-Feb, 2023, 18(1).
- Ananda Krishnan P. R., Magudapathi M. Dr. Mahenthiran R., "An Overview of Herbal plants in Respiratory Disease Treatment," World Journal of Pharmacy and Pharmaceutical sciences, 2277-7105, 23-Jan-2023, 12(3).
- K. Bharathi Bai, Dr. S.S. Sudha, R. Venkatesh, "In vivo Assessment of Toxicity and Histopathological studies of bacteriocin in Wistar albino rats, In vivo Assessment of Toxicity and Histopathological studies of bacteriocin in Wistar albino rats," 2278-3008, Nov-Dec, 2022, 17(6).
- K. Bharathi bai, S. S. Sudha, "Purification and characterization of antibacterial bacteriocin isolated from hospital acquired multi drug resistant Staphylococcus aureus," Uttar Pradesh Journal of Zoology, 0256-971x, 43(24), 26.12.2022.
- B. Sindhuja, J. Rengaramanujam, R. Arivukkarasu, "In vitro Antimicrobial efficacy of Pergulariadaemia against oral pathogen," Gradiva Review Journal, 0363-8057, 2023, 9(3).

FACULTY AWARDS & ACHIEVEMENTS

- Dr.J.Devakumar & Dr. R. Mahenthiran, Assistant Professors, received "Young Researcher Award 2022" from Institute of Researchers, Wayanad, Kerala on 22.06.2022.



- Dr.S.Senthil Prabhu, Professor received “IAAM Fellowship Award” from Indian Association of Applied Microbiologists on 28.01.2023
- Dr.S.Senthil Prabhu presented paper on “Cytotoxic Activity of Lichens collected from Western Ghats, Tamilnadu India” at 18th International Conference on Converging Microbiological Innovation in Application in Animal, Plant, Environment and Health Care (ICCMIA 2023) organized by IAAM & Department of Animal Science, Manonmaniam Sundaranar University, Thirunelveli from 27.01.2023 to 28.01.2023.

- Dr.A.M.Ramachandran, Associate Professor as Doctoral Committee Member in RVS College of Arts and Science, Coimbatore on 28.04.2022.
- Dr.S.Sudha as chairperson at 18th International Conference on Converging Microbiological Innovation in Application in Animal, Plant, Environment and Health Care (ICCMIA 2023) organized by IAAM & Department of Animal Science, Manonmaniam Sundaranar University, Thirunelveli from 27.01.2023 to 28.01.2023.
- Dr.S.S.Sudha, Professor as VC Nominee at Board of Studies meeting of Microbiology in Vivekanandha College of Arts and Science College, Tiruchengode from 2021 onwards.
- Dr.S.S.Sudha, Professor as Subject Expert at Board of Studies meeting of Microbiology in Hindustan College of Arts and Science from 2021 onwards.

FACULTY PARTICIPATION



- Dr.R.Mahenthiran, Assistant Professor received Best Oral Presentation award at SRM Institute, Chennai on 29.03.2023 with the cash prize of Rs.1500/-.

- Dr.S.S.Sudha, Professor participated in 18th International conference on “Converging microbiological innovation for application in animal, plant, environment and health care” (ICCMIA-2023) at Manonmaniam Sundaranar University organized in association with Indian Association of Applied Microbiologists (IAAM) on 27.01.2023 to 28.01.2023; Two days NAAC Sponsored National Seminar on “Emerging Trends in Higher Education- Insights, Challenges and Opportunities” at Sri Ramakrishna College of Arts and Science College between 09.02.2023 and 10.02.2023.



- Dr.J.Rengaramanujam, Professor and Head as BoS Member of Microbiology Board in RVS College of Arts and Science Coimbatore on 30.06.2022.

- Dr.J.Devakumar, Assistant Professor participated in two days online workshop on "Techniques and Tools in Computer Aided Drug Design" at Department of Bioinformatics, Nirmala college for Women, Coimbatore from 09.02.2023 to 10.02.2023.



- Dr.C.Sasikala, Associate Professor participated in a One day National Seminar on National Credit Framework: Credit Transfer Policy at Institution of Eminence and Human Resource Development Centre, University of Hyderabad on 10.02.2023.

- Dr. S. Karthik Sundaram, Associate Professor participated in DST SERB Sponsored Workshop on Genomic Editing at ICAR-SBI on 10.02.2023.

NPTEL / SWAYAM CERTIFICATIONS

- Dr. J. Rengaramanujam and Dr. S. Senthil Prabhu completed NPTEL course on “Accreditation and Outcome based Learning” from August-October 2022.
- Dr. C. Sasikala completed NPTEL course on “Introduction to cell biology” from August-October 2022
- Dr.S. Karthiksundaram completed NPTEL course on “Cell Culture Technologies” from August-October 2022
- Mrs. M. Nivethitha completed NPTEL course on “Cell Biology: Cellular organisation, Division and Processes” from January-March 2023.
- Dr.J.Devakumar and Dr. A. M. Ramachandran completed NPTEL course on “Applied Environmental Microbiology” from January-April 2023.

STUDENT ACHIEVEMENTS

- Ms. A. Nivedha received Best Student Award from Microbiologists Society of India.
- 26 students of II B.Sc., Microbiology completed NPTEL online courses and received certificates.
- Ms. Madhumitha P, Ms. Srimuki M, Ms. Deebini G participated in workshop on Plant cell and invitro culture techniques at Kongunadu Arts and Science College on 23.02.2023.
- Ms. Miriam Elizabeth M A, Ms. Rashmika B and Ms. Sugitha B participated in Hands on training on Genetic engineering at Avigen biotech Pvt Ltd from 05.07.2022 to 27.07.2022.
- Ms. Jayashree participated in Smart India Hackathon organized by Crescent Institution from 25.08.2022 to 29.08.2022.
- Mr. Thirukumaran participated in Tamil Mandram at Karpagam Institutions on 12.09.2022.
- Mr. Thirukumaran & Mr. Sekar donated blood during the camp by Lions Club on 04.11.2022.
- All I M.Sc., Microbiology students participated in Yuva India 2022 at Hindusthan college of Arts and Science, Coimbatore from 16.11.2022 to 18.11.2022.



- Narmatha R, Thrisha Y, Oviya K, Rubavani EP, Preethi B, Shafana Parveen have participated and won prizes in Poster presentation at National Conference on Biological Research & Innovations in Food, Agriculture, Health & Environment " – (NCBRI 2023) at Karpagam Academy of Science on 17.03.2023 and won prizes for best presentations.

DEPARTMENT OF FOOD SCIENCE AND NUTRITION

ABOUT THE DEPARTMENT

The Department of Food Science and Nutrition was started in the year 2003 offering the course B. Sc. in Food Science and Nutrition with well - equipped laboratories. Post Graduate course in Food and Nutrition was started in the year 2004. The department also extends the activities of research by offering Master of Philosophy in Food and Nutrition from the year 2005 and Doctorate of Philosophy from the year 2016 onwards.

ACTIVITIES OF THE DEPARTMENT

NATIONAL CONFERENCE



Dr. Adharsha Gauda, Professor & Head, Department of FS, St. Aloysius College, Mangaluru, was the guest speaker in the National Conference on Interdisciplinary Approaches Dynamics of Bio-Science Research on 28.03.2023.

ENDOWMENT LECTURE



Third Colathur Gopalan Endowment Lecture on “Sustainable Food Processing Technologies” by Dr. R. Kumar, Scientist “G” and Associate Director in Defense Food Research Laboratory, DRDO, Mysore on 28.03.2023.

GUEST LECTURES



Ms. Fathima Roshan, CDPO, Karamadai delivered a Lecture on “Importance of Nutritional requirement of first 1000 days for Lactating Mother and Infants” on 01.09.2022.



Mrs. Geetha, Founder, KGS Groups, Coimbatore delivered Elite talk on “Career Opportunities” on 06.02.2023

WORKSHOPS



Dr. N.G.P. Arts and Science
KAMBAR ARANGAM
02.09.2022 14:50
11.06135, 77.03412 (±15m)
Altitude: 321m

Mrs. Fathima Roshan, CDPO, State Government, Karamadai and Anganwadi workers together tutored the students' on Importance of Nutrition and its benefits on 02.09.2022



DR. N.G.P. ARTS & SCIENCE COLLEGE
Workshop On Anthropometric Measurement
09.03.2023 12:33

Dr. T. Hema, Lecturer, Department of Clinical Nutrition, Sri Ramachandra Medical University, Chennai trained students on "Anthropometric Assessment Methods and Techniques" on 09.03.2023



DR. N.G.P. ARTS & SCIENCE COLLEGE
Department Of Food Science And Nutrition
13.03.2023 14:14
11.06082, 77.0344

Mrs. Shamala Banu P, Lecturer, LRG Government Arts College, Tirupur educated the students on "Food Adultration" on 13.03.2023



Dr. Saraswathi Eswaran, Founder & Chairman, Ramaswamy Chinnammal Trust, trained students in "Food Preservation" on 14.03.2023



DR. N.G.P. ARTS & SCIENCE COLLEGE
DEPARTMENT OF FOOD SCIENCE AND NUTRITION
15.03.2023 10:37

Ms. Ramya. B, Registered Dietitian & Consultant Nutritionist, ProGen Foods elaborated on the topic- "How to prepare for RD Examination" on 15.03.2023



DR. N.G.P. ARTS & SCIENCE COLLEGE
DEPARTMENT OF FOOD SCIENCE AND NUTRITION
16.03.2023 10:19
11.06077, 77.0344

Mrs. Swathi K, Food safety trainer, trained on "Analysis of Proximate composition in Food" on 16.03.2023



DR. N.G.P. ARTS & SCIENCE COLLEGE
DEPARTMENT OF FOOD SCIENCE AND NUTRITION
17.03.2023 10:13

Dr. Avanti Prabhakar, Assistant Professor, Department of Post Graduate studies & Research in Home Science, Justice Basheer Ahmed Sayeed (SIET) College, Chennai educated the students on "Sports Nutrition" on 17.03.2023



Dr.Muthukumaran, Assistant Professor, Department of Applied Research, The Gandhigram Rural Institute (Deemed to be University), Gandhigram trained the students on “Research tools in Food Science and Nutrition” on 21.03.2023

INTER DEPARTMENTAL COMPETITION



Adzap competition on “Complications of artificial feeding” on 27.08.2022



Competition on “Beikost: Transitional Period” on 27.08.2022

FOOD EXPO



Food expo on the theme “International Millet year” on 29.10.2022



Workshop on “Indigenous Food for infants” on 08.08.2022

KNOWLEDGE EXCHANGE PROGRAMME



Knowledge Exchange Program on “Nutritional Composition of Food” from 16.03.2023-17.03.2023.

ALUMNI INTERACTIONS



Ms.Uthayaragavi, Proprietor, Unique Pastries, Vadavalli trained students on "Millet Based Tiffin Recipes" on 09.01.23.



Ms.Jeevigha, Dietitian & Fitness Trainer trained the students on "Power Hour- Move your body, shape your future" on 14.03.2023.

OUTREACH PROGRAMS



Awareness Program on "World of Spices" at Chikaarampalayam, Coimbatore on 05.09.2022.



Awareness Program on "Nutritional labeling" at Karamadai (Veliangadu) on 29.10.2022.



Awareness Program on "Breastfeeding" at KMCH Hospital for pregnant and lactating mothers on 02.08.2022.



Industrial visit to Nava Dran Agro Coimbatore on 29.10.2022

STUDENT ACHIEVEMENTS

- Sathya Prabha.C of III – B.Sc. received the Merit cum Means Scholarship(₹20,000) from Protein Foods & Nutrition Development Association of India.
- Haritha Sri.S.P, Smithi.R&Sowmeya.R of II B.Sc. received 1st prize in Screen Masters (Documentary Competition) with prize money worth Rs. 10,000/- at NIFTEM, Tanjur.
- Arthi.C& Dona David of II M.Sc. received 3rd prize in "RJ Foodie" and prize money worth Rs.3,000/- from NIFTEM, Tanjur.
- Vidhya.S of II B.Sc. received 3rd prize in "Film Adaptation and Appreciation Speech" and prize money worth Rs. 2000/- from Tamil Nadu Education department.
- Mary Nisha, Kaviyasree, Leoffa Mario & Meghna of II B.Sc.

received 1st prize in Dance competitions conducted by various colleges and prize money worth Rs.7,000/-.

- Mary Nisha of II B.Sc. received 1st prize in Dance competitions conducted by Yuva Kendra and prize money worth Rs.5,000/-.
- Sathya Prabha.C & Utsav Jain of III – B.Sc. published articles in PFNDAL Magazine.

STAFF ACHIEVEMENTS

- Dr.D.Sridevi received Best Paper award from K.S.R College of Arts and Science for Women Namakal; Received ICSSR Minor project fund of Rs.5 lakhs.
- Ms.M.Anjaliwas the key Note Speaker and received excellent paper award from Science Plus Global Research Forum.
- Ms.D.Jancy Rani received Best Paper award from Scott Christian College, Kanyakumari.
- 7 staff members completed UGC HRDC sponsored short term course organized by Bharathidasan University, Trichy.

DEPARTMENT ACHIEVEMENTS

- 1 Book & 1 Book Chapter published by the staff members of department of Food Science & Nutrition.
- 17 papers were published in UGC carelist, WoS and UGC approved journals by the faculty.
- 50 papers were published in Conferences by the students.
- 05 (Copyrights applied), 05 (Patents Filed) & 01 (Patent Received) by staff members of the Department of Food Science & Nutrition.
- 54 Projects were completed under DBT Fund received.
- 2 Articles of students got published in PFNDAL magazine.



Dr. N.G.P. ARTS AND SCIENCE COLLEGE

(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)

Approved by Government of Tamil Nadu & Accredited by NAAC with 'A++' Grade (3rd Cycle - 3.64 CGPA)

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