



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

An Autonomous Institution, Approved by Government of Tamil Nadu
Affiliated to Bharathiar University, Coimbatore. Re-accredited by NAAC with 'A' Grade

Coimbatore - 641 048

News Letter 2017 - 18

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Department of

Clinical Laboratory Technology

EDITOR'S COLUMN

We, the faculty members and students of the Clinical Laboratory Technology Department are immensely proud to bring out the copy of a News letter for the academic year 2017-2018. We are bringing out the newsletter every year successfully to showcase the achievements and milestones of the department. We are sure that the readers would appreciate our new venture and their constructive criticism shall be mailed to us at drngparts@kmch.ac.in.

ABOUT THE DEPARTMENT

The Department of Clinical Laboratory Technology, established in the year 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 of Clinical Laboratory Technology caters to the quest for knowledge in clinical diagnostic technology, with latest application tools.

The programme was initiated with the primary objective of improving the employability and interdisciplinary skills among the students and to meet out the increasing demand for technologists in the area of health care and related industries. Clinical laboratory technologists perform complex chemical, biochemical, hematological, immunological,



microscopic and bacteriological tests and evaluate test results. They develop and modify procedures and monitor programs to ensure the accuracy of tests. The curriculum renders supportive services to the field of medicine. Excellent job opportunities and prospects for rapid job growth are the highlights of this field.

The department successfully produced 11 batches of students since inception. The success of the department is judged by the placement of our alumni in National and International laboratories. We are thankful to the management, particularly our chairman and the secretary for providing a healthy atmosphere for learning, research, autonomy to our department for the growth and welfare of the student's community.

HIGHLIGHTS OF THE DEPARTMENT

- The Department of Clinical Laboratory Technology focuses on laboratory science.
- Well equipped laboratory with advanced and higher end instruments that facilitates students to enrich practical skills in emerging tools and techniques.
- The students are trained to take up routine work in different areas of the laboratory such as Clinical Biochemistry, Microbiology, Pathology, Blood banking, Immunology and Molecular Biology.
- The students are given opportunities to take up internship in reputed laboratories/ research institutes during their course period.
- Research project in the final year helps the students to gain confidence in continuing their career in research.
- The courses offered are B.Sc. Clinical Lab Technology and Post Graduate Diploma in Clinical Lab Technology.
- Staff student ratio is 1:24 and number of batches produced in UG is 11.
- 16 university rank holders, 100% pass percentage and 21 first class with distinction adds credit to the department.
- UGC major project was sanctioned with amount of Rs 14,13,800 on the topic "Molecular Mechanism of Cardio Protective Activity of Crude and Active Principle of Garcinia indica in experimentally Induced Cardiac Toxicity in Rats".
- 32 research papers were published in National and International Journals with the average impact factor of 2.5.
- The department provides platform for knowledge sharing with scientists and industrial experts through conferences and seminars.

PLACEMENTS

Students who have completed B.Sc. CLT in April 2018 have been placed in reputed laboratories like KMCH Institute of Laboratory Medicine, Bioline and multi-national companies like Visionary RCM, Access health care.



DEPARTMENTAL ACTIVITIES

SEMINARS/ CONFERENCES/ WORKSHOPS/ GUEST LECTURES/ EXTENSION ACTIVITIES

The Department of Clinical Laboratory Technology organizes various Seminars/ Guest Lectures/ Conferences and Workshops. Eminent resource persons were invited from various Research Institutions, Hospitals and Industry. Students were provided with a knowledge platform where they could interact with the experts and improve their skills.

GUEST LECTURES -2017 - 2018

S. No.	Date	Resource Person	Topic
1.	30.06.2017	Dr. Rani, Professor, Dept of Biotechnology P S G College of Technology, Coimbatore	Analysis of peripheral biomarkers for Alzheimer's disease diagnosis
2.	08.8.2017	Dr.T.M. Karthikeyan Professor & Head Dept. of Pathology Karpagam Faculty of Medical Sciences and Research, Coimbatore	Body Fluids in Health and Disease
3.	14.9.2017	Dr. K. R. Muthusami Chief Biochemist and Hospital Quality Head KMCH, Coimbatore	Laboratory Automation and Accreditation
4.	21.9.2017	Dr. Sujatha Baskaran, Molecular biologist KMCH Institute of Laboratory Science, Coimbatore	Molecular Techniques in Disease Diagnosis
5.	08.01.2018	Dr. Robert Selwyne Arul, Senior Associate VWR International, Coimbatore	Current scenario of clinical research
6.	08.01.2018	Mr. SakthiPriyan Sivashanmugasundaram Clinical Research Associate VWR International, Coimbatore	Career prospects for graduates in clinical sciences
7.	03.02.2018	Mr. Syed Samiaullah, CEO Professional Infotech, Coimbatore	Clinical Research and Pharmacovigilance
8.	11.01.2018	Dr. Vijaya Anand, Associate Professor and Head, Department of Human Genetics and Molecular Biology, Bharathiar University, Coimbatore	Diseases and drugs: An Immunological Approach



Dr.K.R. Muthusami
Chief Biochemist and Hospital Quality Head, KMCH, Coimbatore



Dr.P. Rani, Professor, Department of Biotechnology
PSG College of Technology, Coimbatore



Dr. P. Rani, Professor, Department of Biotechnology, P S G College of Technology, Coimbatore



Mr. Syed Samiullah, CEO Professional Infotech, Coimbatore



Mr. Sakthipriyan Sivashanmugasundaram
Clinical Research Associate, VWR International, Coimbatore



Dr. Robert Selwyne Arul, Senior Associate
VWR International, Coimbatore

WORKSHOP ON APPLICATIONS OF PCR IN DISEASE DIAGNOSIS WAS CONDUCTED ON 12.10.2017.

Dr. Sujatha Baskaran, Molecular Biologist, KMCH delivered a special lecture on “Applications of molecular techniques in disease diagnosis with special emphasis on Polymerase Chain Reaction (PCR)”. Hands on training on Polymerase Chain reaction and demonstration on RT-PCR was given as a part of the workshop.



Work Shop on PCR



STATE LEVEL WORKSHOP ON SCIENTIFIC WRITING

State level workshop on Scientific Writing was conducted on 26th February 2018. The resource persons from reputed Universities and Institutions discussed the current updates in various topics like “Effective way of interpreting research findings”, “How to draft proposals for project funding”, “Guidelines and ethical considerations in scientific research” and “How to publish research papers in peer reviewed journals”.

Resource persons for the workshop on “Scientific Writing”



Dr.Krishnan Swaminathan, MD, FRCP, Consultant Diabetologist & Endocrinologist, KMCH Hospitals, Coimbatore



Dr. P.R. Padma, Professor, Department of Biochemistry Biotechnology and Bioinformatics Avinashilingam University, Coimbatore



Dr. G. Subashini, Associate Professor, Department of Community Medicine, PSG IMS, Coimbatore



Dr. R. Sakthivel, Professor, Department of Mathematics Bharathiar University, Coimbatore

EXTENSION ACTIVITIES - 2017 - 18

Participation of students in conducting health check up for the inmates of Oldage home “Era Nenjam”





INDUSTRIAL VISIT

The students of II B. Sc CLT were taken for an educational visit to DRDO Center for Life Sciences, Bharathiar University on 19.9.2016. The students were exposed to the latest technologies adopted in research.



ACHIEVEMENTS OF THE DEPARTMENT

STUDENT'S ACHIEVEMENT

The students of our department enthusiastically participated in many competitions, won prizes and brought laurels to the department.

- Ahmed Darwesh.C.K & Anshad.P of III B.Sc. CLT won fourth place in intercollegiate football tournament held in Bharathiar university, Coimbatore.
- J Jasmine Begam, II B Sc won III place in Poster presentation conducted by Centre for Women Development & Centre for Value Education, Dr NGP ASC on 12.02.2018
- Vasanth Kumar M, Praveen raj N, Bharathan.C, Amarnath A, S. Thoufeeq Ahamed, P Kirupakaran of II B.Sc. CLT won I place in mime competition conducted by Kongu College of Engineering, Erode on February 8 & 9,2018
- Vasanth Kumar M, Praveen raj N, Bharathan.C, Amarnath A, S. Thoufeeq Ahamed, P Kirupakaran of II B.Sc. CLT won special prize in mime competition conducted by Shree Shakthi Institute of Engineering, Coimbatore on 24.2.2018.
- Pavithra C and Shobana Ramasamy of II B.Sc. CLT won first place in wealth out of waste competition conducted by PSG College of Arts and science on 6.3.2018.
- Surya Prakash of I B.Sc. CLT won first place in taekwondo
- Ms. Priyanka of III B.Sc was awarded proficiency rank

STAFF ACHIEVEMENTS

- Mrs.S.Kokila, Mrs.S.Sasikala and Mrs.M.Thiruselvi participated and presented paper in National conference “Reaching the Unreached through Science and Technology-Concepts, Principles and application of science and technology for nation building” conducted on 9th to 11th October, 2017 at Kongunadu Arts & Science College, Coimbatore.
- Mrs. S.Kokila and Mrs.M. Thiruselvi participated and presented paper in International Conference on Bioscience and Industrial Applications conducted on February 16,2018 at Sri Ramakrishna College of Arts and Science for Women, Coimbatore.
- Mrs. S. Kokila, Mrs.S. Sasikala and Mrs.M. Thiruselvi participated in Science Academies Lecture Workshop on Recent Advances in Biological Sciences conducted on 12th and 13th September 2017 at Bharathidasan College of Arts and Science, Erode
- Mrs. S.Sasikala and Mrs.M.Thiruselvi attended Faculty Development programme on Publishing in Premier Journals conducted during 7th & 8th December 2018 at Kumaraguru College of Technology, Coimbatore.
- Mrs. S.Sasikala attended International Lecture Workshop on Food Protection on 26th March 2018 conducted by Kongu Engineering College, Erode.

VALUE ADDED COURSES & ONLINE COURSES

Apart from regular curriculum, value added courses, vocational training were offered. The students also take up online certificate courses offered by NPTEL, Spoken tutorial, MOOC, etc. These courses were offered to provide additional learner centric, graded skill oriented technical training, and to provide students an understanding of the expectations of industry, to improve employability skills of students, to bridge the skill gaps and make students industry ready and to provide an opportunity to students to develop interdisciplinary skills.

BEST PRACTICES

- KMCH training for all the students provides both strong theoretical and practical training in a newly designed and state-of-the-art laboratory on site.
- Invited Lectures by resource persons from various Research Institutes, Hospitals and Industry.
- The Value Added Education courses aim to provide additional learner centric graded skill oriented technical training with the primary objective of improving the employability and inter disciplinary skills of CLT students.
- The department is committed to participate in various extension activities like health camp and health checkup awareness programmes.
- Innovative teaching methods are adopted which includes class room learning, group discussion, activity based learning, presentations, assignments, industrial visits and flipped class room, webinar sessions etc.
- Counseling is offered for all the students on a need basis in the department.
- Students are exposed to various career development programmes, personality development programmes, members in various clubs.



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