



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

An Autonomous Institution Affiliated to Bharathiar University

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COIMBATORE - 641 048



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News Letter 2016 - 2017

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 2016-2017. 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 drgnparts@kmch.ac.in.

ABOUT THE DEPARTMENT

A strong education improves the lives of young people and it is essential to lead a sustainable and successful life. A nation's strength lies in the hands of young minds in terms of quality and character of education. Our education system promotes high academic achievements for all the students at all levels. Basic knowledge is imparted to all the students to lay a strong foundation required to master the necessary skills and talents. It is in this context, the Department of Clinical Laboratory Technology offers a unique three years Undergraduate programme with a vision to provide high quality education to the students with hands-on-exposure in state of the art laboratories. The programme is carefully designed to offer specialization in a science stream encompassing a strong knowledge in the clinical laboratory techniques and an exposure to social disciplines. The department caters to the quest for knowledge in clinical diagnostic technology with the focus on latest trends in the market and their application tools. 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 was started in the year 2005, with a focus on laboratory science. The students are trained to take up routine work in different sections of the laboratory such as Clinical Biochemistry, Microbiology, Pathology, Blood Banking, Immunology and Molecular Biology.
- ▶▶ 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 and PGDCLT are 9 batches.
- ▶▶ 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”.
- ▶▶ 31 research papers were published in National and International Journals with the average impact factor of 2.5.
- ▶▶ State level Seminar “Building Business Leaders in Life Sciences” was organized by the department on 29.9.2016.

PLACEMENTS

Students who have completed B.Sc. CLT in April 2017 have been placed in reputed institutions and laboratories. Out of 40 students, 8 students were placed in medical coding companies such as Sutherland, Bright Star and Visionary NCM. Four students are pursuing higher studies

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 are invited from various Research Institutions, Hospitals and Industry. Students are provided with a knowledge platform where they could interact with the experts and improve their skills.

- ▶▶ Guest lecture was conducted on “Molecular Biology and Molecular Techniques” by Dr.S.Gnanapoongothai, Co-ordinator, Animal Facility PSG IMS & R, Coimbatore on 06.6.2016.
- ▶▶ Guest lecture was conducted on “Fate of Fats” by Dr. K. Thangavelu, Associate Professor, Department of Biochemistry, PSG College of Arts and Science, Coimbatore on 12.7.2016
- ▶▶ Guest lecture was conducted on “Career opportunities in Medical Coding” by Mr. Syed Samiullah, Head Operations, Professional Info Tech, Coimbatore on 26.7.2016
- ▶▶ Guest lecture was conducted on “Clinical importance of Analytical Techniques” by Dr.K.Kadirvelu, DRDO Coordinator, Joint Director, DRDO-BU Center for Life Sciences, Bharathiar University Campus, Coimbatore on 29.7.2016
- ▶▶ Students of III B.Sc CLT carried out an awareness campaign on “Healthy Lifestyle Behaviour” for all house-keeping staff of our college on 10.8.2016 as part of the extension activities.
- ▶▶ Three students from I B.Sc CLT participated in NSS Camp for a week in January 2017.
- ▶▶ The department helped in conducting “INSPIRE”- Science Camp for 11th standard school students - An innovative programme with several renowned speakers across the country between 24.08.2015 and 28.08.2015 at Dr. N.G.P Arts and Science College.
- ▶▶ Students of III B.Sc CLT carried out a health camp for all non teaching and house-keeping staff of our college on 08.9.2016 as part of the extension activities.
- ▶▶ The Department of Clinical Laboratory Technology organized a State Level Seminar on “Building Business Leaders In Life Sciences” on 29th September, 2016. A galaxy of renowned speakers addressed the participants.
- ▶▶ Guest lecture was conducted on “Role of Lab Technologists in Disease Diagnosis” by Dr.Meena Mariappan, Deputy Quality Manager, Bioline Laboratories, Coimbatore on 10.01.2017
- ▶▶ Guest lecture was conducted on “Ethical Practices in Clinical Laboratory” by Dr.R.Baskar, Associate professor, Department of Biotechnology, Kumaraguru College of Technology, Coimbatore on 16.02.2017
- ▶▶ Student development program “Success Mantra” was conducted on 24.2.2017. Dr.Manova Raja, Founder and CEO, Fragrhen Academy, Tirunelveli enlightened the students by his talk.
- ▶▶ Students of III B.Sc CLT carried out a health camp for school children of Government Primary School, Saravanampatty, Coimbatore on 24.02.2017 as part of the extension activities.
- ▶▶ The department organized a group of inter-departmental Competitions titled “Clitonic Techzz” (Poster, Face painting, Watch & Talk, and Quiz) on 08.03.2017 for the students from other departments.
- ▶▶ Guest lecture was conducted on “Biomarkers and Diagnostic Approaches in Pollution Health Hazards” by Dr. G.P. Jeyanthi, Director- Research & Consultancy, Professor of Biochemistry, Avinashilingam University, Coimbatore on 21.3.2017

EXTENSION ACTIVITIES 2016 - 17



Extension activity on Health Camp for all non-teaching and housekeeping staff on 08.9.2016



Extension activity on awareness campaign on "Healthy Lifestyle Behaviour" for all house-keeping staff of our college on 10.8.2016



Health camp for school children of Government Primary School, Saravanampatty, Coimbatore on 24.02.2017

GUEST LECTURES/ SEMINARS



Guest lecture on "Clinical importance of Analytical Techniques" by Dr.K.Kadirvelu, DRDO Coordinator, Joint Director, DRDO-BU Center for Life Sciences, Bharathiar University Campus, Coimbatore



Guest lecture on "Career opportunities in Medical Coding" by Mr. Syed Samiullah, Head Operations, Professional Info Tech, Coimbatore



The Department of Clinical Laboratory Technology organized a State Level Seminar on "Building Business Leaders in Life Sciences" on 29th September, 2016



Guest lecture on "Fate of Fats" by Dr. K. Thangavelu, Associate Professor, Department of Biochemistry, PSG College of Arts and Science, Coimbatore



Guest lecture on "Molecular Biology and Molecular Techniques" by Dr.S.Gnana poongothai, Co-ordinator, Animal Facility PSG IMS & R, Coimbatore

INDUSTRIAL VISIT

The students of II B. Sc CLT were taken for an educational visit to DRDO Center for Life Sciences, Bharathiar University on 15.9.2016. 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.

- ▶▶ Preeyush M, Vasanth Kumar M, Aravinth M, Kirubakaran P, Praveen Raj and Touffeeq Ahamed S of I B.Sc CLT won III place

in group dance competition conducted by Fine arts club of Dr N G P Arts and Science College, Coimbatore on 15.8.2016

- ▶▶ Apsara.S of III B.Sc CLT won II place in inter-departmental glass painting competition conducted by department of Biochemistry, of Dr.N.G.P. Arts and Science College, Coimbatore on 23.08.2016
- ▶▶ Rajmohan. M of II B.Sc CLT won 3rd prize in intercollegiate music competition at Sri Krishna Arts and Science College, Coimbatore on 8.9.16.
- ▶▶ Rajmohan. M of II B.Sc CLT won the best performer award in intercollegiate music competition conducted by Hello FM, Coimbatore on 21.9.16

- ▶▶ Arockiya Jensi. A of III B.Sc CLT won III prize in Creative writing at intercollegiate competition conducted at Nehru Arts and Science College, Coimbatore on 30.9.16
- ▶▶ Maneesha Mohamed of III B.Sc CLT won II prize in Malayalam Creative writing at intercollegiate competition conducted at Nehru Arts and Science College, Coimbatore on 30.9.16
- ▶▶ Shobana Ramasamy of I B. Sc CLT won 1st prize in Long Jump & Javelin and II prize in Relay in the sports day conducted by Dr N G P Arts and Science College, Coimbatore on 18.02.2017.

STAFF ACHIEVEMENT

- ▶▶ Dr. E. Nithya, Associate Professor, Department of Clinical Laboratory Technology has served as a Reviewer for the International Journal "Human and Experimental Toxicology" in January 2016. This journal is published by Sage International Publishers and has an impact factor of 1.80.

STAFF PUBLICATION

- ▶▶ Occupational exposure to photocopiers and their toners cause genotoxicity (2017) Vallikkannu Kasi, Nithya Elango, Shanthi Ananth, Bhuvaneswari Vembhu and Jeyanthi Govindasamy Poornima, Human & Experimental Toxicology (Impact factor 1.80), doi.org/10.11770960327117693068.
- ▶▶ Anti-Cataract potential of Cyanadon dactylon in cataractous goat lens in vitro (2016) Nishmitha S, Brindha.S, Elango.N, Gokila.V, Nithya.k, Rosheni.N and Kokila.S, International Journal of Applied Biology and Pharmaceutical Technology, Volume-7, Issue-3, pp.8 to 14.
- ▶▶ Anticataract Activity of Abutilon hirtum on Glucose Induced Cataract in Goat Eye Lens (2016), Nithya K, Rosheni N, Brindha S, Nishmitha S, Elango N, Gokila V, Kokila. S , Int. J. Pharm. Sci. Rev. Res., 38(2), Article No. 27, Pages: 145-148, ISSN 0976 - 044X.
- ▶▶ Evaluation of anticataract potential of Abutilon indicum : An in vitro study, (2016), N. Rosheni, K. Nithya, S. Brindha, N. Elango, V. Gokila, S. Nishmitha and S. Kokila, Indian J. Sci. Res. 7(1) : 81-84, ISSN : 0976-2876 (Print), ISSN : 2250-0138 (Online).

VALUE ADDED COURSES

Value added courses aim to provide additional learner centric, graded skill oriented technical training, with the primary objective of improving the employability skills of students. The main objectives of the program are 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 inter-disciplinary skills. The department of Clinical Laboratory Technology offered 2 value added courses during 2016 - 2017, namely Hospital record Management for II B Sc CLT and Medical Coding for III B. Sc. CLT.

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 from various Research Institutes, Hospitals and Industry were organized.
- ▶▶ 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 mind mapping 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 clubs like eco club, journal club etc.



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