



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

An Autonomous Institution Affiliated to Bharathiar University

Re - Accredited by NAAC with 'A' Grade

COIMBATORE - 641 048

## Newsletter 2015 - 2016

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## DEPARTMENT OF CLINICAL LABORATORY TECHNOLOGY

### EDITOR'S COLUMN

We, the faculty members and students of the Department of Clinical Laboratory Technology are immensely proud to bring out the copy of a News letter for the academic year 2015-2016. It is a long standing desire and we are bringing out the newsletter every year successfully. The victory of our department is featured in this newsletter depicting the achievements of our department and the latest innovations in science and technology. 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](mailto:drngparts@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. A strong foundation in the basics is imparted to all the students which is required to master their 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 and with the latest application tools. The success of the department is judged by the placement of our alumni in National and International sectors. We are thankful to the management, particularly our Chairman and 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 Lab Technology was started in the year 2005, the course to the students provide essential information that allows a physician to make accurate judgements about a patient's state of the health.
- ▶▶ The courses offered are B.Sc. Clinical Lab Technology and Post Graduate Diploma in Clinical Lab Technology.



- ▶▶ 14 university rank holders, 100% pass percentage and 43 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".
- ▶▶ 27 research papers were published in National and International Journals with the average impact factor of 2.5.
- ▶▶ Science camp "Inspire" funded by the Department of Science and Technology was organized by the department in association with the Dept. of Biochemistry for the benefit of school students of standard XI between 24.08.2015 and 28.08.2015 at Dr. N.G.P. Arts and Science College campus.

## PLACEMENTS

Students who completed B.Sc. CLT in April 2016 have been placed in reputed institutions and laboratories., Out of 27 students, 10 students were placed in Kovai Medical Centre & Hospital, Coimbatore, one was placed in Microbiological Laboratory, Coimbatore and two students were placed through on-campus in Institute of Laboratory Medicine, Kerala.

## DEPARTMENTAL ACTIVITIES

### SEMINARS/ CONFERENCES/ WORKSHOPS/ GUEST LECTURES/ EXTENSION ACTIVITIES

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

- ▶▶ Guest lecture was conducted on "Diagnostic Tools in Pulmonology" by Dr. R. Vani, Registrar and Senior Civil Surgeon, Department of Chest and TB, Coimbatore medical College Hospital, Coimbatore on 09.02.2016.
- ▶▶ Seven students from I, II & III B.Sc CLT participated in NSS Camp for a week in January 2016.

- ▶▶ Students of II & III B.Sc CLT carried out a Health Record Camp for all I UG & I PG students of our college from 11.01.2016 to 13.01.2016 as part of the extension activities.
- ▶▶ The department organized a group of Interdepartmental Competitions titled "Clitonic Techzz" (Poster, Model, Connexions, and Quiz) on October 9, 2015 for the students from other departments.
- ▶▶ Guest lecture was conducted on "Cancer Genetics - Role of the Laboratory" by Dr. Krishna Venkateswaran, MD DNB, Consultant Pathologist, Micro Laboratories, Coimbatore on 16.9.2015.
- ▶▶ Students of II & III B.Sc CLT carried out an extension activity: "Health Camp" (Hemoglobin estimation, Blood pressure, Height, Weight) for all Non teaching staff and house-keeping staff members of our college on 14.09. 2015.
- ▶▶ "INSPIRE" - Science Camp for 11th standard school students - An innovative programme with several renowned speakers from across the country was organized by the department between 24.08.2015 and 28.08.2015 in association with the department of Biochemistry, Dr. N.G.P. Arts and Science College. This programme was funded by the Department of Science and Technology, Government of India.
- ▶▶ Guest lecture on "Introduction to Viruses and Lab Animals" was given by Dr. S. Gnanapoongothai Professor, Department of Microbiology, PSG Institute of Medical Sciences & Research, Coimbatore on 21.08.2015.
- ▶▶ Guest lecture on "Laboratory Diagnosis of Viral Infections" was provided by Dr. K.N. Brahmadathan, Head, Molecular Biology and Virology, Microbiological laboratory, Coimbatore on 04.08.2015.
- ▶▶ The Department of Clinical Laboratory Technology organized a National Conference on "Role of Biopharmaceuticals in Achieving Health by 2020" on 10.07.2015 in association with the Department of Biochemistry. A galaxy of renowned speakers addressed the participants on the role of biopharmaceuticals.

## EXTENSION ACTIVITIES - 2015- 16



Extension activity on Health Chart Camp for all I UG students on 03.03.2015



Extension activity on Hemoglobin and Blood Pressure check up for Non-teaching staff and House keeping workers on 14.09.2015



Extension activity on Health Record for all I UG & I PG students from 11.01.2016 to 13.01.2016

## GUEST LECTURES/ SEMINARS- 2015 - 2016



Guest lecture on Diagnostic tools in Pulmonology by Dr. R. Vani, Registrar and Senior civil surgeon, Department of Chest and TB, Coimbatore Medical College Hospital, Coimbatore

The department of Clinical Lab Technology was instrumental in organizing a science camp "Inspire" for school students with the department of biochemistry. This science event was funded by the Department of Science and Technology, Government of India



Guest lecture on "Laboratory Diagnosis of Viral Infections" delivered by Dr. K.N. Brahmadathan, Head, Molecular Biology and Virology, Microbiological laboratory, Coimbatore

Guest lecture on "Cancer Genetics - Role of the Laboratory" delivered by Dr. Krishna Venkateswaran, Consultant Pathologist, Microbiological laboratory, Coimbatore



Guest lecture on "Introduction to Viruses and Lab Animals" delivered by Dr. S. Gnanapoongothai, Professor, Department of Microbiology, PSG Institute of Medical Sciences & Research, Coimbatore

## INDUSTRIAL VISIT

The students of III B. Sc CLT were taken for an industrial visit to Pasteur Institute of India, Conoor, Nilgiris on 22<sup>nd</sup> February, 2016. The students were exposed to latest technologies adopted and vaccine production unit.

## 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.

- ▶▶ G. Keerthana and M. Thilagavathy of I B.Sc CLT won 2<sup>nd</sup> prize in poster presentation; Maneesha Mohammed and Apsara.S of II B.Sc CLT won 1<sup>st</sup> prize in hand painting, conducted by the Department of Microbiology, on 08.01.2016.
- ▶▶ S. Radhika and M. Thilakavathy of I B.Sc CLT won 2<sup>nd</sup> prize in Mehandhi competition conducted by the IT Department, on

11.01.2016.

- ▶▶ II B.Sc CLT students, Maneesha Mohammed and Jan Joseph won I prize in the Tatoon design conducted by the Department of CDF on 15.08.2016.
- ▶▶ S. Rajapriya of III B.Sc CLT student won I prize in the paper presentation in Commercial Blast 2K15 conducted by the Department of Computer Application, on 21.09.2016.
- ▶▶ P. Sharmila, M. Gulzar Begam and Maneesha Mohammed of II B.Sc CLT participated in the Model Expo conducted by the Department of Biotechnology, Biotech 2K15 on 27.09.2016 and won 3<sup>rd</sup> prize.
- ▶▶ M. Raj Mohan of I B.Sc CLT & Jan Joseph of II B.Sc CLT was selected for the intercollegiate level singing competition in the Hello FM 106.4 on 27.08.2015.
- ▶▶ C. Anto Jovin Xavier and S. Atlas Shabu of II B.Sc CLT won 3<sup>rd</sup> prize in Food Splash conducted by the Department of Nutrition and Dietetics, on 27.01.2014.
- ▶▶ A. Mohammed Sharfudeen of III B.Sc CLT participated in University Level Hockey matches.
- ▶▶ Ahmed Darwesh C.K of I B.Sc CLT participated in Volley ball at University Level.

### STAFF ACHIEVEMENT

Dr. E. Nithya, Assistant Professor, Department of Clinical Laboratory Technology has been selected as a Reviewer for two journals "Annals of Occupational Hygiene & Medical Principles & Practice" in December 2015. These journals are published by Oxford University Press, United Kingdom and Karger Publishers, Switzerland and have an impact factor of 2.01 & 1.66 respectively.

### STAFF PUBLICATION

Antimutagenic Activity of Ethanolic Extract of *Caralluma Fimbriata*, S. Sasikala, S. Gowri and M. Thiruseelvi. World Journal of Pharmacy and Pharmaceutical Sciences Volume 5, Issue 2, 582-587.

### 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 2015-2016, namely Immunotechniques & ELISA for II BSc CLT and Diploma in Hospital Record Management for III BSc 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 are 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 skills to develop inter disciplinary skills of CLT students.
- ▶▶ The department is committed to participate in various extension activities like health camp and health checkup awareness programmes.
- ▶▶ Faculty members and students have participated and presented various research papers in National and International Conference organized by various colleges.
- ▶▶ Innovative teaching methods are adopted which includes class room learning, group discussion, activity based learning, presentations, assignments, industrial visits and mind mapping etc.
- ▶▶ Counseling for all the students in the department.
- ▶▶ Students are exposed to various career development programmes, personality development programmes, members of clubs like eco club, journal club etc.



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