

# Department of Allied Health Sciences

## Contact Information

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## Introduction

The Department of Allied Health Sciences [AHS] was established in 2010 under the Faculty of Allied Health Sciences, as new initiative to provide courses of vocational nature. The primary focus is to prepare Allied Health professionals to perform for the wellbeing of the mankind with commitment and dedication. The department aims to become a leader in Allied Health Sciences Education and the department continues to grow and expand its activities to research in biomedical areas. Opportunities abound for students and faculty at all levels to participate in basic, translational, interdisciplinary and community oriented research. Considering these objectives, the Academy established an additional research laboratory focusing more on proteomics apart from a well-equipped "**Central Research Laboratory**".

The Department of Allied Health Sciences conducts the following courses under Faculty of Allied Health Sciences after obtaining academic and administrative approval from the Board of studies, Academic council and Board of Management of The Academy.

## Vision:

**HONING SKILLS OF ALLIED HEALTH CARE PROFESSIONALS FOR HEALTHY HUMANITY"**

## Mission:

- To impart knowledge and skill based training to create cadre of globally competent Paramedical /Allied Health professionals.
- To inculcate values among Allied Health Professionals so as to perform for the wellbeing of the mankind with commitment and dedication.
- To impart right propensities and skills among the Allied Health professionals to carryout biomedical research.

## OBJECTIVES

- To provide required infrastructure and facilities to the students to become competent and responsible professionals in the area of Allied Health Sciences.
- To design Courses of vocational and innovative nature in the areas of interdisciplinary and Allied Health Sciences.
- To promote facilities to carry out Research in "Translational Research" integrating basic and medical sciences.

## PROGRAM GOAL AND OBJECTIVES

SL NO	PROGRAM	SEMESTERS	GOAL AND OBJECTIVES
01	B.Sc.	06	<ul style="list-style-type: none"><li>• Providing knowledge and skill based training to create qualified and competent technical personnel in the discipline of Allied Health Sciences</li><li>• Developing confidence in students by internship to deliver paramedical services</li></ul>
02	M.Sc. MLT	04	<ul style="list-style-type: none"><li>• Providing clinical exposure to learn more about laboratory diagnosis</li><li>• Generating distinct allied health care manpower</li></ul>
03	PG Diploma	02	<ul style="list-style-type: none"><li>• Creating competent pool of yoga instructors for teaching yoga for well-being of mankind.</li></ul>
04	Certificate course	1 to 2	<ul style="list-style-type: none"><li>• Training in Phlebotomy, Blood banking and Application of Technologies in Equipment.</li></ul>

### Programs Offered

#### I Under Graduate Degree

- a) B.Sc- Medical Laboratory Technology
- b) B.Sc-Imaging Technology
- c) B.Sc-Ophthalmic Technology
- d) B.Sc-Operation Theater technology
- e) B.Sc- Renal Dialysis Technology

#### II Post Graduate Degree

1. Master of Science (M.Sc) - Medical Lab Technology in Clinical Biochemistry
2. Master of Science (M.Sc) - Medical Lab Technology in Clinical Microbiology & Immunology
3. Master of Science (M.Sc) - Medical Lab Technology in Hematology & Blood Transfusion

#### III Post Graduate Diploma Degree

1. Post Graduate Diploma in Yoga Practice

#### IV Certificate courses

1. Certificate course in Application Technology in Hospital Environment
2. Certificate course in Phlebotomy Technology
3. Certificate course in Blood banking Technology

## Proposed Programs for Academic Year 2015-16

1. Bachelor of Science in Radio Therapy Technology
2. Bachelor of Science in Emergency Medicine Technology
3. Bachelor of Science in Speech and Hearing
4. Ph.D. Courses

The Department has total 165 student strength.

## Achievements

- Setting up of an additional Research Laboratory(Proteomics) and its development
- Start of M.Sc. in Medical laboratory technology in three specializations.
- Start of certificate courses as add on program along with regular program.
- Approval to start B.Sc. Radio Therapy Technology/ emergency medicine technology

## Research Thrust Areas

- Proteins isolation, Purification and characterization
- Enzymology
- Oxidative stress and antioxidants Research in Preeclampsia
- Research on new markers in Preeclampsia

## Governance

1	Dean	Dr.A.V.M. Kutty
2	Director	Dr.M.L.Harendra Kumar
3	Professor of Biochemistry & Head of Allied Health Sciences	Dr.C.D.Dayanand

## Faculty

### Core Faculty

SL No	Name	Qualification	Designation	Area of Specialization
01	Dr C.D.Dayanand	M.Sc. Ph.D	Professor Of Biochemistry & Head AHS	Biochemistry
02	Dr. N.J Patil	M.D Yoga	Asst professor	Yogic science
<b>Research Staff</b>				
04	Mr. NagarjunaSivaraj	M.Sc.	Research Assistant	Biochemistry
05	Miss Mary shoba Rani	M.Sc.	Research assistant	Biotechnology

## Adjunct Faculty

SL No	Name	Qualification	Designation	Area of Specialization
01	Mr Vinay kulkarni	MSc	Lecturer	Anatomy
02	Mrs.Usha G Shenoy	MSc	Lecturer	Physiology
03	Mrs.Mamatha Kunder	MSc	Lecturer	Biochemistry
04	Dr. Mamatha kale	MD	Asst Professor	Microbiology
05	Dr. Swaroop raj	MD	Asst Professor	Pathology
06	Dr Sivarajan	MSc	Lecturer	Radiology
07	Dr Sujatha	MD	Assoc professor	Anaesthesiology
08	Dr Jaikumar	MD	Asst professor	Pharmacology
09	Dr Krishnamurthy	MS	Professor	Ophthalmology
10	Dr Raghavendra Prasad	MD	Professor	Medicine

## Visiting Faculty

Mr N.S.Murthy. Integral medical services hebbagodi Electronic city post Bangalore 560103

## TO READ MORE CLICK HERE

### PUBLICATIONS

#### 2012 [02]

1. C.D Dayanand Pradeep kumar vegi, AVM Kutty. Protein carbonyl content as a stable oxidative stress marker in Type II diabetes. IJBMR 2012; 3(4): 2362-65.
2. C.D.Dayanand, Pradeep kumar vegi, A.V.M.Kutty. Comparison of calculated HbA1c with measured HbA1c by High Pressure Liquid Chromatography method. IJSID 2012; 2(6) :1-7

#### 2013 [08]

1. C.D.Dayanand. Evaluation of comparative total proteolytic activity in plant lattices. International Journal of Life sciences, Biotechnology and Pharma Research 2013: 2(1) 47-55.
2. Pradeep Kumar vegi. C.D.Dayanand, Shashidhar K.N. A trend on Gender inequality and age discrepancy in Pulmonary Tuberculosis at Kolar District-India. Asian Academic Journal of Multidisciplinary 2013: 1(12) 45-51(indexed peer reviewed journal).
3. C.D.Dayanand, Pradeep Kumar vegi, Lakshmaiah V, AVM Kutty. Association of Ischemia Modified Albumin in terms of Hypoxic risk with carbonylated protein, Glycosilated hemoglobin and plasma insulin in Type 2 diabetes Mellitus.International Journal of Biotechnology and Biochemistry 2013; 9(3):275-284
4. Mary Shoba Rani C.D.Dayanand, Jeevan Shetty, Pradeepkumar vegi, AVM kutty. Evaluation of Antibacterial activity of Pongamia pinnata Linn on Pathogens of clinical isolates. American Journal Phytomedicine and Clinical Therapeutics 2013; 1(8) 645-651
5. K.N. Venkatesh Prasad, Arvind rajha, Pradeep Kumar vegi. A case of monozygotic twins: The value of discordant monozygotic twins in Goldenhar syndrome OMIM%164210. 2013: article ID 591350 <http://dx.doi.org/10.1155/2013/591350>
6. Patil NJ, Prabhakar K, Vijay K S, Patil D N. Effect of Carica papaya leaf extract on febrile thrombocytopenia in patients with Dengue. J Clin Biomed Sci 2013; 3(3): 140-42.
7. K.N.venkatesh Prasad, Sanjay sharma, Rahul Chauhan, C.D. Dayanand, Pradeep kumarVegi. Prognostic role of oral atropine in the subacute phase of organophosphate poisoning. Niger J Exp Clin Biosci 2013; 1:53-4.

8. Patil N J, Samanvaya: Conference on alternative medicine. J Ayurveda Integ Med 2013; 4:252-3

### 2014 [3]

1. C.D.Dayanand., Syed zein. "Search engines in biomedical research " 2014: J of Clin Biomed Sci. 4(1) 259-60.
2. Adarsh Manjunath, C D Dayanand, Muninarayana, Pradeep Vegi Trends on oxidative stress and antioxidants status in Fluoride affected area in Kolar district-India submitted to North American Journal medical sciences 2014:1(2)1-4.
3. Vanishree bambrana, C.D Dayanand, S. R.Sheela,Pradeep Kumar vegi. Evaluation of lipid peroxidation, protein carbonyl content & total antioxidant status in pre& post-delivery of women with preeclampsia. American Journal of Pharmacy & health Research. 2014:2 (2)98-105.

### 2015 [3]

1. Shiny BH, C.D.Dayanand, Pushpha kotur, pradeep kumar, AVM Kutty. Evidence of Paternal N5N10 Methylenetetrahydrofolate reductase (MTHFR C677T) gene polymorphism in couples with Recurrent Spontaneous Abortions in Kolar district, A south west of India. JournalClinical &Diagnostic Research.2015:9(2)15-18.
2. C D Dayanand, Vanishree Bambrana, Nagarjuna Sivaraj, Mary Shobha Rani Inala. Is ischemia Modified Albumin is a Marker in Preeclampsia? A Case Control Study in Kolar Population-a South West of India. American journal of pharmacy and health research. 2015: 3(6) 84-90.
3. Patil N.J. designing validation and feasibility of integrated yoga therapy module for chronic back pain. International journal of yoga.2015:8.103-108.
4. Aparna, C.D.Dayanand, Sheela, NagarjunaSivaraj. Maternal thyroid hormones and atherogenic potency in preeclampsia in Kolar a south west India. British Journal of Medicine & Medical Research, 2015:10(4): 1-8.
5. Mary Shoba Rani C.D.Dayanand\* NagarjunaSivaraj P.M.Beena AVM Kutty. Evidence of antibacterial activity by flavonoids isolated from seeds of Pongamia pinnata Linn on Methicillin Resistant staphylococcus aureus from the clinical isolate. British Microbiology Research Journal. 2015: 10(1): 1-8.
6. Vanishree bamabrana, C.D.Dayanand, Pushpa kotur. Is Xanthine oxidase, a marker in preeclampsia? A case- control study in Kolar- south west of India. Journal of Clinical and Diagnostic Research.2015: 9(10):1-3.

## Publication Statistics

Year	National	International	I.F	Citation Index
2012	02	00	00	04
2013	07	01	1.52	09
2014	03	00	0.678	00
2015	02	04	1.0	00
total	14	05	3.198	13
<b>Total 19</b>				

Citation Index range : 1-6  
I.F. range/ Average : 0.6-1.0/ 0.8  
Average Citation Index : 4.3  
Department h-Index : 2.5

## New Knowledge Generated From the Department

- Identified the evidence of paternal mutation in MTHFR C677T also a cause in Recurrent spontaneous abortion couples
- Reported Bactericidal action of flavonoids of Pongamia pinnata seeds on Methicillin Resistant Staphylococcus Aureus (MRSA) from clinical isolates in the hospital environment
- Determined Xanthine oxidase as a newer marker in in early understanding of Preeclampsia.

## Strengths of the Department

- Having Research laboratory along with paramedical courses.
- Offering certificate course along with regular B.Sc. degree for better employment opportunity.
- M.Sc. In Medical laboratory Technology (MLT) for B.Sc –MLT graduates progression.
- Department supporting 95% of the AHS students from weaker sections of the society with subsidized fee