

**DEPARTMENT OF MICROBIOLOGY,  
RAJARAJESWARI MEDICAL COLLEGE,  
BANGALORE.**

**WELCOMES THE NAAC TEAM**

# FACULTY- OUR TEAM



**Dr. Sunil kumar**

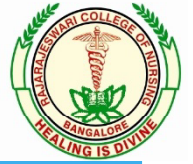
**Dr .Rathish. K. C**

**Dr. Sangeetha.S**

**Dr. V.Rajagopal**

**Dr.Shashikala.N**

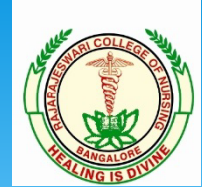
# FACULTY PROFILE



NAME	SEX	QUALIFICATION	DESIGNATION	EXPERIENCE	APPROVED GUIDE Y/N	STATE
<b>DR. SANGEETHA.S.</b>	F	M.B.B.S, M.D.	PROFESSOR & HOD	14 y 10m	Y	KARNATAKA
<b>DR.K.C. RATHISH</b>	M	M.B.B.S, , M.D.	PROFESSOR	28y 3m	Y	KARNATAKA
<b>Dr. V RAJAGOPAL</b>	M	M.B.B.S, , M.D.	PROFESSOR	33Y	Y	KARNATAKA
<b>DR.SHASHIKALA.N</b>	F	M.B.B.S, , M.D.	ASST. PROFESSOR	5y 3m	N	KARNATAKA
<b>DR. SUNIL CHAVAN</b>	M	M.B.B.S, , M.D.	ASST. PROFESSOR	3y 5 m	N	KARNATAKA

# **CURRICULUM**

# SYLLABUS



**RAJIV GANDHI UNIVERSITY OF HEALTH  
SCIENCES.**

# GOALS



- ❖ Teaching undergraduates to understand the natural history of infectious diseases
- ❖ To learn the immune system, etiology, pathogenesis, laboratory diagnosis, treatment, control & prevention of infections in health & disease in the community.

# GOALS



- ❖ Training of students of medicine in the field of medical microbiology.
- ❖ postgraduates in theoretical & practical aspects of Bacteriology, Virology, Parasitology, Immunology , Mycology & Virology.

# DEPARTMENT DETAILS



**YEAR OF ESTABLISHMENT: JUNE 2005**

**MCI RECOGNITION FOR M.B.B.S.: AUGUST, 2010**

**MCI RECOGNITION FOR M.D.(MICROBIOLOGY):  
DUE FOR RECOGNITION IN MAY, 2014**



# VISION



- ❖ To gain a lucid, all-encompassing knowledge on infectious diseases.
- ❖ To impart an overall understanding of its clinical, microbiological & epidemiological perspectives.
- ❖ And thereby, its applications in the hospital, as well as the community.

# MISSION



- \* To be a source of excellence at the undergraduate & postgraduate level in academics, research & diagnostics in microbiology.
- \* Impart sound principles of ethics in the profession, research & academia.
- \* Reach out to the community about infectious diseases rather than just being confined to the laboratory.

# COURSES OFFERED



- **M.D. ( MICROBIOLOGY)**
- **M.B.B.S.**
- **M.D.S**
- **B.D.S**
- **BSc. NURSING**
- **D.MLT**
- **C.MLT**

# SERVICES OFFERED BY THE DEPARTMENT



- **Bacteriology:**  
Culture and sensitivity of urine, blood, CSF, sputum, stool, ear discharge, miscellaneous fluid, pus, Water analysis, OT sterility checks & CSSD sterility checks.
- **Immunology:**  
ASO, CRP, Urine Pregnancy test, RPR, Widal, Leptospira antibodies, RA test
- **Parasitology:**  
Stool for Ova and cyst  
Peripheral smear for malarial parasite & filariasis.  
Rapid card test for detection of malarial parasite
- **Mycology:**  
KOH mount  
Lactophenol Cotton Blue for fungal elements  
Fungal culture
- **Virology:**  
ELISA for :HIV, HBsAg, HCV antibody , Rubella, NS<sub>1</sub>Ag for Dengue, IgM, IgG for Dengue.

# BEST PRACTICES



- \* **PROBLEM BASED LEARNING : UG: 16; PG: 4**
- \* **ENRICHMENT COURSES:2**



# TEACHING LEARNING & EVALUATION

# COURSES OFFERED BY THE DEPARTMENT affiliated to RGUHS



PROGRAM	QUALIFICATION AT ENTRY	ENTRY LEVEL MARKS CUT-OFF	INTAKE/YEAR
M.B.B.S.	I M.B.B.S.	50%	150
M.D.(MICROBIOLOGY)	M.B.B.S.	as per KRLMPCA PGET	3
DMLT	10 <sup>th</sup> STD	as per CET	20
CMLT	10 <sup>th</sup> STD	as per CET	20

## COURSES OFFERED Contd..



PROGRAM	QUALIFICATION AT ENTRY	ENTRY LEVEL MARKS CUT-OFF	INTAKE/YEAR
<b>B.D.S.</b>	<b>I .B.D.S.</b>	<b>50%</b>	<b>150</b>
<b>M.D.S.</b>	<b>B.D.S.</b>	<b>as per KRLMPCA PGET</b>	<b>40</b>
<b>BSc. Nursing</b>	<b>12<sup>th</sup> Std</b>	<b>as per KRLMPCA PGET</b>	<b>100</b>



# STUDENT PROFILE – CATERING TO DIVERSE NEEDS



	M	F	SS	OS
<b>Name Total UG students: 149</b>	<b>50</b>	<b>99</b>	<b>69</b>	<b>74</b>
<b>Total PG students : 7</b>	<b>1</b>	<b>6</b>	<b>7</b>	
<b>I year</b>	<b>1</b>	<b>2</b>	<b>3</b>	
<b>II year</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>-</b>
<b>III year</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>-</b>
<b>Total number of repeaters: 39</b>				

# TLE PROCESS



- \* UG & PG Calendar of events are planned & displayed at the beginning of the academic year on the notice boards of the departments.
- \* A total of 120 hours of theory & 130 hours practical classes are taken for each undergraduate class.
- \* Weekly seminars, journal clubs & group discussions are conducted for post graduates.
- \* Hands-on practical training is given to both undergraduates & postgraduates.

# POST GRADUATES PROFILE





# STUDENT PROFILE



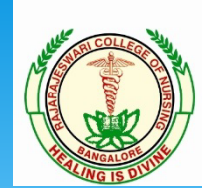
	TOTAL	M	F
<b>Name</b>			
<b>Total</b>			
<b>UG students:</b>			
<b>Year:2011-12</b>	65	28	37
<b>Year:2012-13</b>	58	26	22
<b>Year:2013-14</b>	91	31	58

# TEACHING LEARNING METHODS OFFERED



1. ***Pedagogy/didactic lectures, power points & animation videos . with Use of A-V aids like LCD.***
2. ***Practical teaching.***
3. ***Tutorials***
4. ***Student Seminars(UG &PG) .***
5. ***Problem based learning .***
6. ***MCQS***
7. ***Journal club .***
8. ***Workshop.***
9. ***Orientation programmes .***

# SEMINARS



YEAR	Seminars
2013	274
2012	130
2011	123
2010	01
2009	-
TOTAL	57

# JOURNAL CLUBS



YEAR	JC
2013	17
2012	22
2011	11
2010	07
2009	-
TOTAL	57



## 2.3 TEACHING LEARNING PROCESS



Tutorials & Group discussions



# PROCESS



Small group discussions

# OUTPUT



# TEACHER PROFILE



- \* **Dr. SANGEETHA. S, M.D., PROFESSOR & HEAD.**  
Faculty-in-charge ,ELISA division, Quality Assurance, RRMCH.  
Certificate course on STI & HIV from IMA,2013
- \* Fellow of International Medical Sciences Academy, 2013.
- \* Coordinator, Medical Education Unit, RRMCH, 2013.
- \* Core committee member for NABH Accreditation, RRMCH, 2012.
- \* Joint Website coordinator for [www.iammkc.org](http://www.iammkc.org) ,since 2012.
- \* Organizing Secretary, IAMM-KC, 2010-11.
- \* Life Member, Academy of Tropical Parasitology,2013.
- \* Life Member of Association of Clinical Microbiologists.
- \* Life Member of Indian Association Of Medical Microbiologists (Karnataka Chapter).
- \* Undergraduate Examiner for RGUHS, MGR University and Calicut University.



# TEACHER PROFILE



## **PRESENTATIONS**

- \* Oral presentation on “ Rubella among healthcare professionals: A seroprevalence study” at IMSACON, 6/08/2013.
- \* Presented Poster On: Enzyme Linked Immunosorbent Assay And Immunochromatography in the evaluation of Anti-Rubella Antibodies. IMSA State level chapter Conference, Rajarajeswari Medical College & Hospital, Bangalore, on 03/08/2012.
- \* Presented Paper On Medico-legal Aspects Of HIV Infection at International Medico Legal Conference, Kodaikanal, January 2010.
- \* Presented 'MRSA- A Study By Cefoxitin Disc Diffusion' At National Conference Held At JSS Medical College, Mysore In November 2009.
- \* Attended Triennial CME Of Academy Of Medical Microbiologists, At St John's Medical College In November, 2010.
- \* Represented the Institute at SZTF meet on RNTCP under aegis of WHO in August, 2011 at Hyderabad.

## **PUBLICATIONS**

- S. SANGEETHA, P. SEEMA. “Immune Status of Health Care Personnel from various Geographical areas in India against rubella: a cross-sectional study”. Journal of Evolution of Medical and Dental Sciences. Volume 2 Issue 10 March 11, 2013 Page-1421.
- \* S. SANGEETHA, P. SEEMA & M.N. DAMAYANTHI. “Enzyme Linked Immunosorbent Assay And Immunochromatography In The Evaluation Of Anti- Rubella Antibodies”- Internet Journal Of Microbiology. 2012 Volume 10 Issue 1.
- \* SANGEETHA S, SEEMA P, SURESH DG . “Seroprevalence Of Rubella In Health Professionals”. Int J Cur Biomed Phar Res. 2012; 2(2): 296– 299.



# TEACHER PROFILE

- \* **DR. V. RAJAGOPAL, M.D., PROFESSOR,**  
In charge PG Curriculum & Exams
- \* Workshops attended
- \* Cultivation of plasmodium falciparum- ICMR = 2<sup>nd</sup> -15<sup>th</sup> NOV-1981. 1981 at St.Johns Bangalore
- \* STI/RTI- MMC Mysore- Feb 1999.
- \* Quality control in Microbiology NIB – New Delhi = 6-8-Jan 1997 at AMC Manipal.
- \* NACO workshop on AIDS control at = 28-30 March 2001.
- \* NICD Symposium on Anthrax OSMANIA Medical college, at New Delhi = 21-22 Dec 1999.
- \* Undergone training course. Action plan for HIV-AIDS
- \* Indian society health Administration- JIPMER Pondichery 5-9 dec 1994
- \* Teachers training workshop at Mysore Medical College– 25-March 1995
- \* NICD-WHO training course in Antibiotic Resistance Monitoring , Trivandrum, June 1999.



# TEACHER PROFILE

**Dr. K. C. RATHISH, M.D., PROFESSOR,**

- \* In- Charge HOD,
- \* Lab in- charge, Microbiology division, Central laboratory, RRMCH,
- \* Chairman, HICC, RRMCH, 2013.
- \* Dept. Examination Coordinator, NAAC
- \* Undergraduate Examiner for RGUHS, MGR and NTR University.
- \* PG Examiner for RGUHS.
- \* Board of Studies Member for Undergraduates and Postgraduates, RGUHS - 2002-2009.
- \* Ex-Chairman, HICC, Dr. BRAMC.

## **PUBLICATIONS**

- \* Multi Drug Resistant S.typhi in Bangalore, South India; Indian Journal of Medical Studies, Vol 48, No. 4, April 1994, Pg 85-8.
- \* An Outbreak of Multidrug Resistant Typhoid Fever in Bangalore; IJP, 1995; 62, 445-8.
- \* Reservoirs of Nosocomial Pathogens in Neonatal Intensive Care Unit, JAMA Vol. 95 No.3, March 1997, Pg 72-4, 77.





# TEACHER PROFILE



**DR. SHASHIKALA.N , MBBS, M.D., ASSISTANT PROFESSOR**

Dept. HR Coordinator.

In charge IQAS, NABH division, Dept. of Microbiology

- \* Certificate course in Infectious Diseases from P. D. Hinduja Hospital, Mumbai [5.9.2009 TO 13.9.2009]
- \* Trained as Internal Assessor for NABL by Quality Council of India at St. John's Medical College, Bangalore, 2013.

## **Research and Papers**

- \* Guest speaker on "Role of nurses in infection control in a health care setting" at an international conference on Nursing education at Convention Hall , Dayananda Sagar Institutions campus, 2012
- \* Presented oral paper titled , "Clinical outcome & containment of an outbreak due to multidrug resistant Acinetobacter baumannii in an ICU with stress on importance of environmental surveillance" at state conference ,XV Annual Congress ,Indian association of medical microbiologists- Karnataka Chapter, 2011.

# TEACHER PROFILE



- \* Presented oral paper titled , "Occurrence of Sero groups of Beta Hemolytic Streptococci in Asymptomatic School Children" at XXXVIII National Conference of Indian Association of Medical Microbiologists,2009 at JSS Medical College, Mysore
- \* Edited the hospital infection control manual and hospital antibiotic policy for Sagar hospitals , Kumaraswamy Layout, Bangalore
- \* Editor for "HICC NEWS" an in-house quarterly news letter at Sagar Hospitals-DSI, Kumaraswamy Layout, Bangalore

## **Awards**

- \* Won second prize in Quiz Competition at an International Conference, Asia-Pacific Congress on Infectious Diseases and Infection Control, Bangalore, 2007.

## **Memberships**

- \* Life Membership of Indian Association Of Medical Microbiologists.
- \* Life member, Hospital Infection Society – India.





# TEACHER PROFILE



**DR. SUNIL KUMAR . D. CHAVAN**

## ACADEMIC ACTIVITIES

- \* RESEARCH: **Dissertation work** Titled “Study of aerobic bacterial isolates from stool samples of infants and young children with acute gastroenteritis and their antibiogram , in north east Karnataka”.

## **PRESENTATIONS :**

- \* Aerobic bacterial isolates and their antibiogram from stool samples of infants and young children with acute gastroenteritis, in north east Karnataka
- \* Detection of amp c  $\beta$  – lactamases in gram negative bacilli in Basaweshwar teaching and general hospital, Gulbarga

## CONFERENCES ATTENDED

- \* S. Nijalingappa Medical College and HSK Hospital and research Centre, Bagalkot, CME and workshop on Basics and clinical applications of Electrophoresis and PCR” on 7<sup>th</sup> August 2010.
- \* XV Annual Conference of IAMM Karnataka Chapter CME and Conference ,26 n 27<sup>th</sup> Feb 2011 at Rajarajeshwari Medical College,Bengaluru.
- \* XVI Annual Conference of IAMM Karnataka Chapter CME and Conference ,19<sup>th</sup> Feb 2011 at St.Johns Medical College,Bengaluru.
- \* MICROCON 2011 XXXV National Conference of IAMM 23-26<sup>th</sup> Nov at Varanasi.
- \* Mycology workshop at Vijayanagar institute of medical sciences,Bellary on 17<sup>th</sup> September 2011.
- \* Attended live surgery workshop and scientific symposium on 22<sup>nd</sup> April in MPMC,Gulbarga.
- \* Attended CME on Current concepts in Immunodiagnosis on 18<sup>th</sup> Feb 2011 at St.Johns Medical College, Bengaluru.
- \* Attended Symposium on Autoimmune diseases from BENCH to BEDSIDE on Aug 16<sup>th</sup>,2012 in M.S.Ramaih medical college Bengaluru

# MENTORING OF SLOW LEARNERS & UNDERPERFORMERS



- \* Mentors are allotted students at the beginning of the academic year.
- \* The department has identified 57 slow learners & counseling has been done .
- \* Tutorials have been conducted .
- \* Special classes have been conducted for repeaters & underperformers.



# EVALUATION PROCESS

- \* Departmental question bank is available.
- \* Internal Assessment, Practicals, Student Seminars

# RESEARCH

# PUBLICATIONS:6



## INTERNATIONAL: 1

1. S. SANGEETHA, P. SEEMA & M.N. DAMAYANTHI: Enzyme Linked Immunosorbent Assay And Immunochromatography In The Evaluation Of Anti- Rubella Antibodies. *The Internet Journal of Microbiology*. 2012 Volume 10 Issue 1( **Indexed in DOAJ, Impact factor 1.23**)

## NATIONAL: 5

1. Kausalya. R, Ragini Ananth Kashid, D.G.Suresh, Latha. Study of transfusion transmitted infections among blood donors in a tertiary care hospital: Hepatitis B surface antigen, HCV antibodies, HIV 1&2 antibodies. *J of Medical Sciences*,2013; 1(1): 29-31.
2. [S. SANGEETHA, P. SEEMA “Immune Status of Health Care Personnel from various Geographical areas in India against rubella: a cross-sectional study”](#). *Journal of Evolution of Medical and Dental Sciences Volume 2 Issue 10 March 11, 2013 Page-1421*.
3. SANGEETHA S, SEEMA P, SURESH DG: Seroprevalence Of Rubella In Health Professionals. *Int J Cur Biomed Phar Res*. 2012; 2(2): 296– 299.
4. RAGINI.A. KASHID: Characterisation And Antifungal Susceptibility Of Candida Species In a Tertiary Care Hospital. *J of Health Sciences & Research*. April 2011: 1-12.
5. RAGINI. A. KASHID: Septic Arthritis in an Infant by Candida Tropicalis. *Journal of the Academy of Clinical Microbiologists*. Dec 2010: Vol 12: 79 – 81.

# FACULTY RESEARCH PROJECTS: 6



1. **Screening for nasal carriage of methicillin resistant. staphylococcus aureus among health care workers.** Dr. Ragini & Dr.kausalya,12/03/2013.
2. **Thyroid dysfunction in overweight and obese adolescents: A clinical study to evaluate prevalence of abnormal levels of T<sub>3</sub>,T<sub>4</sub>, Thyroid Stimulating Hormone ( TSH), Thyroglobulin IgG and Thyroperoxidase IgG in overweight and obese adolescents.** Dr. Sangeetha. S & Dr. Prema,30/08/2013.
3. **Staphylococcal species with special reference to methicillin and mupirocin resistance.** Dr. Ragini & Dr. Sangeetha.
4. **Study on neonatal sepsis with reference to sepsis screening, sepsis score, microbiological profile and sensitivity.** Dr. Ragini & Dr. Adarsh.
5. **Knowledge, attitude, practices of standard precautions, bio medical waste & hand hygiene .** Dr. Sangeetha.
6. **Effective teaching learning methods in Medical Undergraduates.** Dr. Sangeetha, Dr. Shashikala & Dr. Sunil Kumar Chavan.

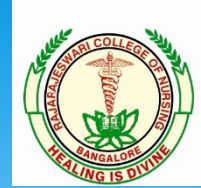


# STUDENT RESEARCH PROJECTS

## ICMR-STS 2012-13: 5

- 1. Correlation of intestinal Lactobacilli and Obesity:** A culture based study to establish the correlation between Lactobacilli present in the gut micro flora and obesity. Principal Investigator: Akshita Ramani, 2nd MBBS, Guide: Dr. Sangeetha. S., M.D. Microbiology, Professor and HOD, Rajarajeswari Medical College & Hospital, Bangalore.
- 2. Pseudomonas aeruginosa as a health care acquired pathogen in diabetic ulcers.** Principal Investigator: Manjunath Hiremath, 2nd MBBS, Guide : Dr.D.G. Suresh, M.D. Microbiology, Professor, Rajarajeswari Medical College & Hospital, Bangalore.
- 3. Aerobic bacteria & their antibiotic sensitivity pattern in the discharge of Chronic Suppurative Otitis Media .**Principal Investigator: Divya.B.Sheshadri, 2nd MBBS, Guide : Dr.K.C.Rathish, M.D. Microbiology, Professor, Rajarajeswari Medical College & Hospital, Bangalore.
- 4. Pattern of Microbial Flora among the health care professionals and Environment of intensive care units in a teaching hospital.** Principal Investigator, Ashmitha .A. Shetty, 2nd MBBS, Guide: Dr.Ragini.AnanthKashid.M.D., Associate Professor, Dept. of Microbiology.
- 5. Comparative Detection and Isolation of Escherichia coli 0157 by Cefixime Tellurite Sorbitol MacConkey Agar (CT-SMAC) and Enzyme-Linked Immunosorbent Assay (ELISA) from Stool Specimens. A study to determine the efficacy of these methods in the detection of E coli 0157.** Principal Investigator: Amrithanand.R, 2nd MBBS, Guide :Dr.Kiran T.S, M.D., Assistant Professor, Dept. of Microbiology.

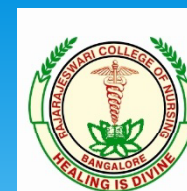
# COMPLETED RESEARCH PROJECTS



**6+4= 10: Faculty & PGs**



# ONGOING RESEARCH PROJECTS: 10



1. Correlation of intestinal Lactobacilli and Obesity: A culture based study to establish the correlation between Lactobacilli present in the gut micro flora and obesity. Principal Investigator: Akshita Ramani, 2nd MBBS, Co-Investigator: Dr. Sangeetha S., M.D. Microbiology, Professor and HOD, Rajarajeswari Medical College & Hospital, Bangalore.
2. Pseudomonas aeruginosa as a health care acquired pathogen in diabetic ulcers. Principal Investigator: Manjunath Hiremath, 2nd MBBS, Co-Investigator: Dr. D.G. Suresh, M.D. Microbiology, Professor, Rajarajeswari Medical College & Hospital, Bangalore.
3. Pattern of Microbial Flora among the health care professionals and Environment of intensive care units in a teaching hospital. Principal Investigator, Ashmitha .A. Shetty, 2nd MBBS, Co-Investigator, Dr. Ragini. Ananth Kashid. M.D., Associate Professor, Dept. of Microbiology.
4. Comparative Detection and Isolation of Escherichia coli 0157 by Cefixime Tellurite Sorbitol MacConkey Agar (CT-SMAC) and Enzyme-Linked Immunosorbent Assay (ELISA) from Stool Specimens. A study to determine the efficacy of these methods in the detection of E coli 0157. Principal Investigator: Amrithanand.R, 2nd MBBS, Co-Investigator Dr. Kiran T.S, M.D., Assistant Professor, Dept. of Microbiology.
5. Comparative Lab diagnoses of Malaria by Leishman stain & Acridine orange stain of Peripheral blood smear & ICT. Funded by Institute.
6. Aerobic bacterial & fungal aetiology of chronic suppurative otitis media. Funded by Institute
7. Comparative detection of NS1 antigen by ELISA and Immunochromatography in clinically suspected cases of Dengue virus infection in a teaching Hospital. Funded by Institute
8. Detection of Carbapenemase and Metallo- beta lactamase in clinical isolates of Pseudomonas aeruginosa in a tertiary care centre. Funded by Institute.
9. Screening for nasal carriage of methicillin resistant staphylococcus aureus among health care workers. 12/03/2013.
10. Thyroid dysfunction in overweight and obese adolescents: A clinical study to evaluate prevalence of abnormal levels of  $T_3$ ,  $T_4$ , Thyroid Stimulating Hormone (TSH), Thyroglobulin IgG and Thyroperoxidase IgG in overweight and obese adolescents.

# PAPERS PRESENTED



## INTERNATIONAL: 8

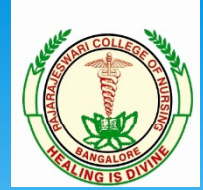
### ORAL PRESENTATIONS at INTERNATIONAL CONFERENCE:

#### IMSACON 2013, 5 & 6<sup>th</sup> Oct, at RRMCH.

1. Obesity and Lactobacilli – A prospective study to determine their correlation.
2. Pattern of Microbial flora among the health care professionals and environment of intensive care unit (ICU).
3. Detection and Isolation of Escherichia coli O157 by CT-SMAC AGAR from Stool Specimens.
4. Aerobic bacteria and their antibiotic sensitivity pattern in the discharge of Chronic Suppurative Otitis Media Patients.
5. Bacteriological profile and antimicrobial susceptibility pattern of isolates of gram negative bacilli in urinary tract infection
6. Rubella among health care professionals: a seroprevalence study.
7. Nasal carriage of MRSA among health care workers.
8. Microbiological profile and antibiotic sensitivity pattern of asymptomatic bacteruria in patients with diabetes mellitus.
9. Asymptomatic Bacteriuria in pregnancy.
10. **Medico-legal aspects of HIV, Medico-legal conference, Kodaikanal,2010.**

## NATIONAL: 4

1. **A STUDY OF MRSA BY CEFOXITIN DISC DIFFUSION. S Sangeetha, TS Kiran, R Ragini, DG Suresh**
2. **OCCURENCE OF EXTENDED SPECTRUM B-LACTAMASE AMONG ENTEROBACTERIACEAE SPECIES ISOLATED AT A MEDICAL COLLEGE HOSPITAL IN BANGALORE A Ragini, TS Kiran, S Sangeetha, DG Suresh.**



## SCIENTIFIC SESSION CHAIRED

### 1. IMSACON 2013

Chaired by Dr. Sangeetha. S., RRMCH & Dr. H. Luthra Of Mayo Clinic ,USA.

“Addiction- the current problem & approaches to prevention in India” – Prof. Prathin  
Psychiatry, NIMHANS.



## CONFERENCE, CME, WORKSHOP CONDUCTED



### **CMEs CONDUCTED : 3**

- \* **CME on Accreditation** as a part of III Chapter meet of IAMM-KC on **December 21<sup>st</sup>, 2013.**
- \* PG lecture series on **Needle Stick Injury** under aegis of RGUHS and KST on **8-10<sup>th</sup> December 2011.**
- \* **Automation in Microbiology, 26<sup>th</sup>, Feb, 2010.**

### **WORKSHOP CONDUCTED: 1**

- \* **Workshop on “Outbreak Investigation”** under aegis of Academy of Clinical Microbiologists, on August 31<sup>st</sup>, 2013.

### **CONFERENCE CONDUCTED:1**

- \* **State level conference: Theme; “Update on Tuberculosis”** aegis of Indian Association of Medical Microbiologist (Karnataka Chapter), **27<sup>th</sup> February, 2010.**





# XVII ANNUAL STATE CONFERENCE & Pre- Conf. CME OF INDIAN ASSOCIATION OF MEDICAL MICROBIOLOGISTS, 25/02/2010.



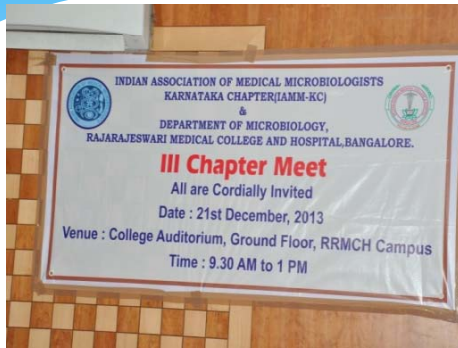
# WORKSHOP Conducted on “OUTBREAK INVESTIGATION”, 31/08/13 under aegis of ACADEMY OF CLINICAL MICROBIOLOGISTS



**Workshop Moderator: Dr. Satish Amarnath, Head, Quality Assurance, Manipal Hospitals, Bangalore**



# CME on “Accreditation: NAAC & NABL” 21/12/2013



**Guest Speakers: Prof. Vijaya Kumar, JSS Deemed University & Dr. Shashikala Shivaprakasha, Seven Hills Hospital Mumbai**



# EXTENSION ACTIVITIES



- \* The department provides active support to ICTC (Integrated Testing and Counselling Centre) whereby emergency Ante natal screening for patients in labour is done. An awareness and vaccination Programme for H1N1 virus was conducted. Awareness and vaccination Programme for Rubella virus done by Dr. Sangeetha. S., Hepatitis B, Oral polio Vaccine & H1N1 vaccination by Dr. D.G. Suresh.
- \* World TB day celebration by Dr.D.G. Suresh
- \* World AIDS Day by Dr. D.G. Suresh, 1<sup>st</sup> Dec, 2009.

As a part of HICC (Hospital Infection Control Committee the following programmes have been conducted:

- \* Hand washing awareness programme for HCW
- \* Needle stick injury
- \* Post Exposure prophylaxis
- \* OT sterilization
- \* Oral polio vaccine- Awareness programme
- \* Biomedical waste Management
- \* Swine flu vaccine- Awareness programme and vaccination
- \* Serodiagnosis of rubella in Health care professionals and counseling for vaccine
- \* Need for hepatitis B vaccine amongst medical students.
- \* MRSA-Need for screening of HCW in critical areas
- \* ESBL- Importance of ESBL in a hospital set up.
- \* Management of cases with Metallo -beta lactamase producing Pseudomonas.





## CONFERENCE, CME, WORKSHOP ATTENDED



YEAR	CONFERENCE			CME	WORKSHOP	SYMPOSIUM	TOTAL
	INTERNATIONAL	NATIONAL	STATE				
2013	1	1	1	41	5	6	55
2012			3	04	3	2	12
2011		1	3	14	5	-	23
2010	1	-	3	10	2	-	16
2009	-	1	1	04	1	-	07
<b>TOTAL</b>	<b>2</b>	<b>3</b>	<b>11</b>	<b>73</b>	<b>16</b>	<b>8</b>	<b>113</b>

## RARE & INTERESTING CASES



### **Fungal Keratitis caused by *Scedosporium apiospermum*.**

Dr. Anupama. Kakhandaki, Professor.

Mrs. Mukthayakka G, MSc. Medical Microbiology, Tutor

Dr. Nithisha T M, Associate Professor.

Dr. Nanda S, Senior Resident.

Department of Ophthalmology, Rajarajeshwari Medical College and Hospital, Bangalore- 560072, Karnataka, India.

Department of Microbiology, Rajarajeshwari Medical College and Hospital, Bangalore- 560072, Karnataka, India.

# THRUST AREAS OF RESEARCH



- \* HICC
- \* BIOMEDICAL WASTE MANAGEMENT

# STUDENT ACHEIVMENT



## UG

- \* Sanction of 5/5 ICMR-STS Projects applied in 2013.
- \* A first in the history of the college since inception.
- \* Completion & Submission of all 5 projects within stipulated time.

# **INFRASTRUCTURE LEARNING RESOURCES(ILR)**

# UG FACILITIES



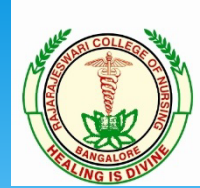
Students in Practical Lab

Demo room

Museum

Student profile

## UG FACILITIES



- \* Wi-Fi enabled Lecture hall with LCD projector, & a-v aids.
- \* Wi-Fi enabled **Practical hall of 90 seating capacity with 128 student microscopes.**
- \* Museum with **111 Charts, 18 photographs & 8 virology models & 37 catalogues.**
- \* Wi-Fi enabled, **2 practical demonstration rooms of 60 seating capacity each with LCD projector & OHP facility.**
- \* Preparation room for practical demonstrations.





# PG FACILITIES



Dept. Library/Seminar Room



Reference books

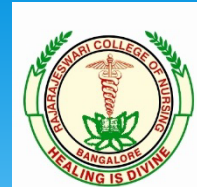


Biosafety Level -II



# Department library





# Teaching learning Aids



Best TL Aid: TEACHER!

Models of viruses

UG student @ a student seminar



## PG FACILITIES

- \* PG Research lab with Bio safety Level 2 for routine bacteriology cultures, TB cultures & Mycology work
- \* Wi-Fi enabled Departmental Library cum Seminar room with 300 books, 17 journals .
- \* Fluorescent Microscope with phase contrast & Dark ground microscopy functions.
- \* Anaerobic culture facilities

# LABORATORY FACILITIES



- \* Bacteriology with aerobic & anaerobic culture facility.
- \* Fully automated ELISA with capacity of running 4 parameters simultaneously(Open system)
- \* Serology
- \* Parasitology
- \* Mycology Culture facility
- \* HIV testing.
- \* T.B. section.



# TECHNICAL STAFF- OUR TEAM



# SPACE DETAILS( COLLEGE BLDG)



Sl. No.	SECTION	AREA IN Sq. m
1.	Lecture Hall	400 sq.m
2.	Demonstration rooms-2	60 sq.m each
3.	Practical Laboratory	285 sq.m
4.	Preparation room	20 sq.m
5.	Museum	70 sq.m
6.	PG Research Laboratory	53 sq.m
7.	Departmental laboratory	50 sq.m
8.	Departmental Library/Seminar room	27 sq.m
9.	Stores	12 sq.m

# SPACE DETAILS( HOSPITAL BLDG)



Sl. No.	SECTION	AREA
1.	Bacteriology	20 sq.m
2.	Serology	20 sq.m
3.	Immunology/ELISA	20 sq.m
4.	Virology	20 sq.m
5.	Parasitology	20 sq.m
6.	Mycology	20 sq.m
7.	Tuberculosis	20 sq.m
8.	Media Preparation	20 sq.m
9.	Autoclaving room	20 sq.m
10.	Washing & drying room	20 sq.m

# FACULTY SPACE DETAILS



Sl.no.	FACULTY	AREA
1.	Professor & Head	24 sq.m
2.	Professor	24 sq.m
3.	Associate Professor	20 sq.m 20 sq.m
4.	Assistant professor	20 sq.m
5.	Tutor	30 sq.m



# MAJOR EQUIPMENTS



Sl.No.	NAME OF EQUIPMENT	No.s
1.	Fluorescent Microscope With Dark ground attachment & Phase contrast facility	1
2.	Fully Automated 4 plate ELISA processor	01
3.	BOD Incubator	03
4.	BS Level II Laminar Air flow with HEPA filters	02
5.	Laminar flow	03
6.	pH meter	03
7.	Serum Inspissator	02
8.	Anaerobic Apparatus	05
9.	Binocular Microscope	13
10.	Microscopes	139

# LABORATORY FACILITIES



Technicians on the job in Bacteriology & ELISA division

# Major equipments

## FULLY AUTOMATED 4 PLATE ELISA PROCESSOR



# Fluorescent Microscope

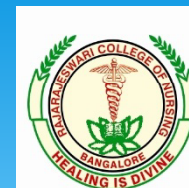


# DIAGNOSTIC INVESTIGATIONS IN THE DEPARTMENT(last 3years)



SECTION	NO.s
BACTERIOLOGY(AEROBIC+ANAEROBIC)	1,43,690
SEROLOGY	1,70,498
PARASITOLOGY	40,967
MYCOLOGY	721
VIROLOGY	22,745

## DIAGNOSTIC INVESTIGATIONS IN THE DEPARTMENT (last 3 years)



Parameters / test done	2011	2012	2013	TOTAL
<b>Bacteriology</b>	25,200	65,707	55,744	<b>1,46,651</b>
<b>Serology</b>	32,646	76,528	62,717	<b>1,71,891</b>
<b>Virology</b>	22,901	29,222	22,745	<b>74,868</b>
<b>Parasitology</b>	10,270	18,071	12,096	<b>40,437</b>
<b>Mycology</b>	107	163	528	<b>798</b>
<b>TB</b>	108	355	304	<b>767</b>
<b>Anaerobic cultures</b>	3,050	2,619	2,809	<b>8,478</b>
<b>TOTAL</b>	<b>71,782</b>	<b>1,92,665</b>	<b>94,226</b>	<b>4,43,890</b>



# ACTION PLAN FOR 5 YEARS



## ACADEMICS

	2013	2014	2015	2016	2017
<b>Courses</b>	New Paramedical Courses Enrichment Courses	PhD Sanction Problem Based Learning	DNB Exam Centre Give demo in Preconference Workshop	Increase UG Seats To 250	PhD Exam Centre

# ACTION PLAN FOR 5 YEARS



## TEACHING LEARNING EVALUATION

	2014	2015	2016	2017	2018
<b>TLE</b>	<p>All faculties avail membership of national professional association</p> <p>Student Centric Teaching with Power point, Viva-Voce training,</p>	<p>Complete annual review</p> <p>Attend Conference With Paper All Faculty</p>	<p>Live Lectures Relay</p>	<p>Train For MCQ, Increase quality and quantity of results</p>	<p>Student Faculty Exchange</p> <p>Conduct-National Conference</p>



# ACTION PLAN FOR 5 YEARS



## RESEARCH

	2014	2015	2016	2017	2018
Research/ Extension	Increase Faculty Research Topics	Publish Articles in College Journal	Present Papers At National Conferences	Present Papers At International Conference Of Faculty Research Topics Publish Articles In National Journals	Publish Articles In international Journals

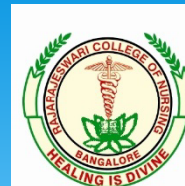
# ACTION PLAN FOR 5 YEARS ADMINISTRATION



Criteria	2014	2015	2016	2017	2018
<b>Admini stration</b>	Four Coordinator s Committees Of IQAC	Internalize IQAC ,Develop IQAC.	Evaluate Internaliza tion of IQAC	Decentr alize	Evaluate Decentralization

# ACTION PLAN FOR 5 YEARS

## ILR



	2014	2015	2016	2017	2018
Infrastructures	Improve library quality	Improve library book nos.	Improve library quality	Improve library quality	Improve library quality 55-points
	Improve LABOROTARIES	Upgrade Laboratories	Maintain and assess space for UG , PG, paramedical students and faculties	Maintain and strengthen ICT facilities and utilisation	Calibration of equipments
	GET EQUIPMENTS	TRAIN IN advanced research equipments	Use advanced research equipments for teaching learning		Maintain and strengthen ICT – facilities and utilization
	Get advanced research equipments	Get AMC for equipments	Maintain and strengthen ICT –facilities and		Add newer teaching aids
	Maintain and strengthen ICT – facilities and utilisation	Calibration of equipments			

# ACHEIVMENTS OF DEPARTMENT

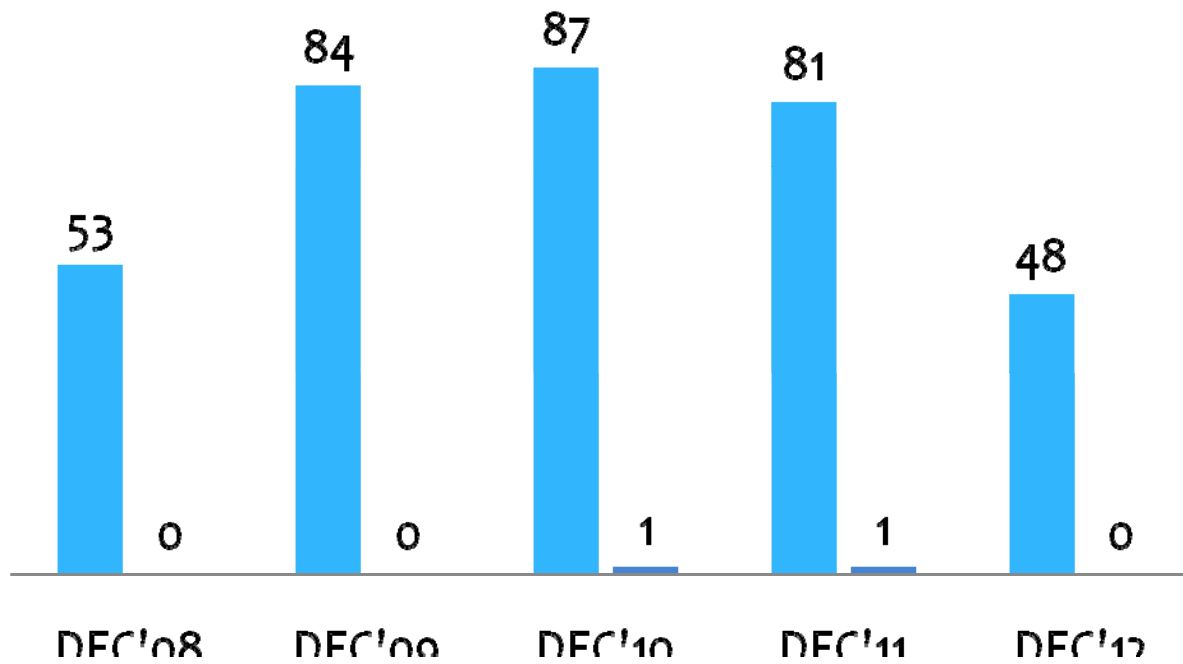


- \* Labeled as an “Island of Excellence” in the college, in ISO 9001: 2008 closing meeting on 9/10/2013.
- \* The first department in the college to hold a State level Conference.
- \* First department in the state to launch a website for the Karnataka chapter of IAMM. ([www.iammkc.org](http://www.iammkc.org))
- \* Joint Coordinator of the website ([www.iammkc.org](http://www.iammkc.org)) from 2012-2014.
- \* First department in the college with 5 sanctioned & completed ICMR- STS undergraduate research projects.



# UG RESULTS

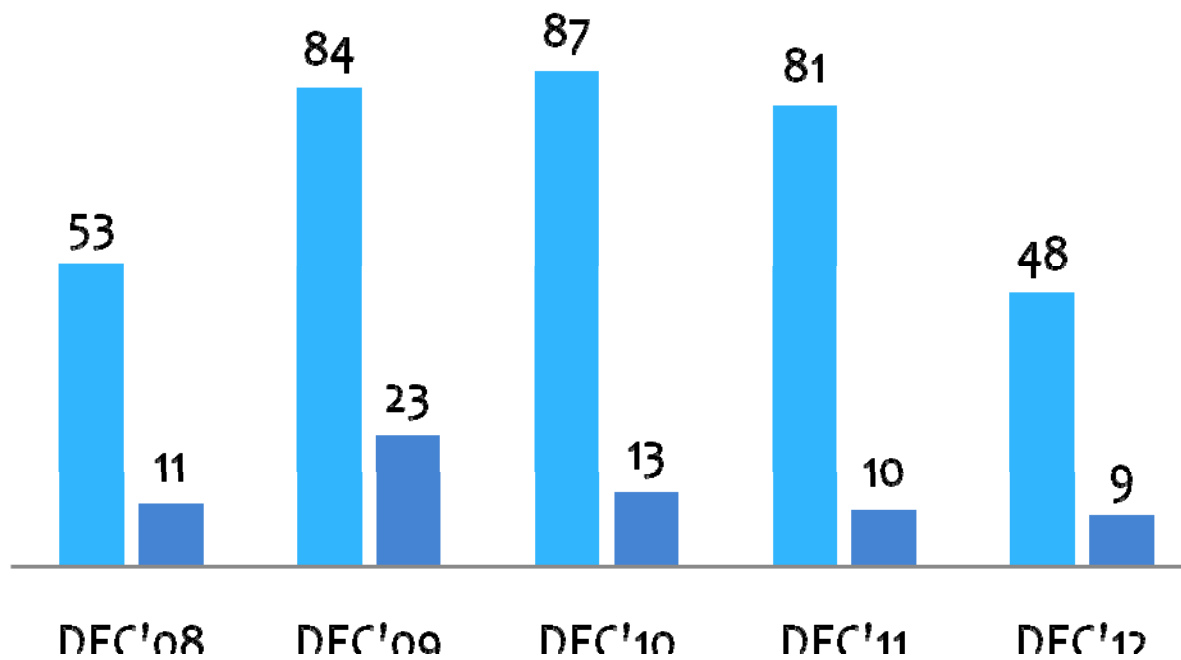
■ TOTAL ■ DISTINCTION





# UG RESULTS

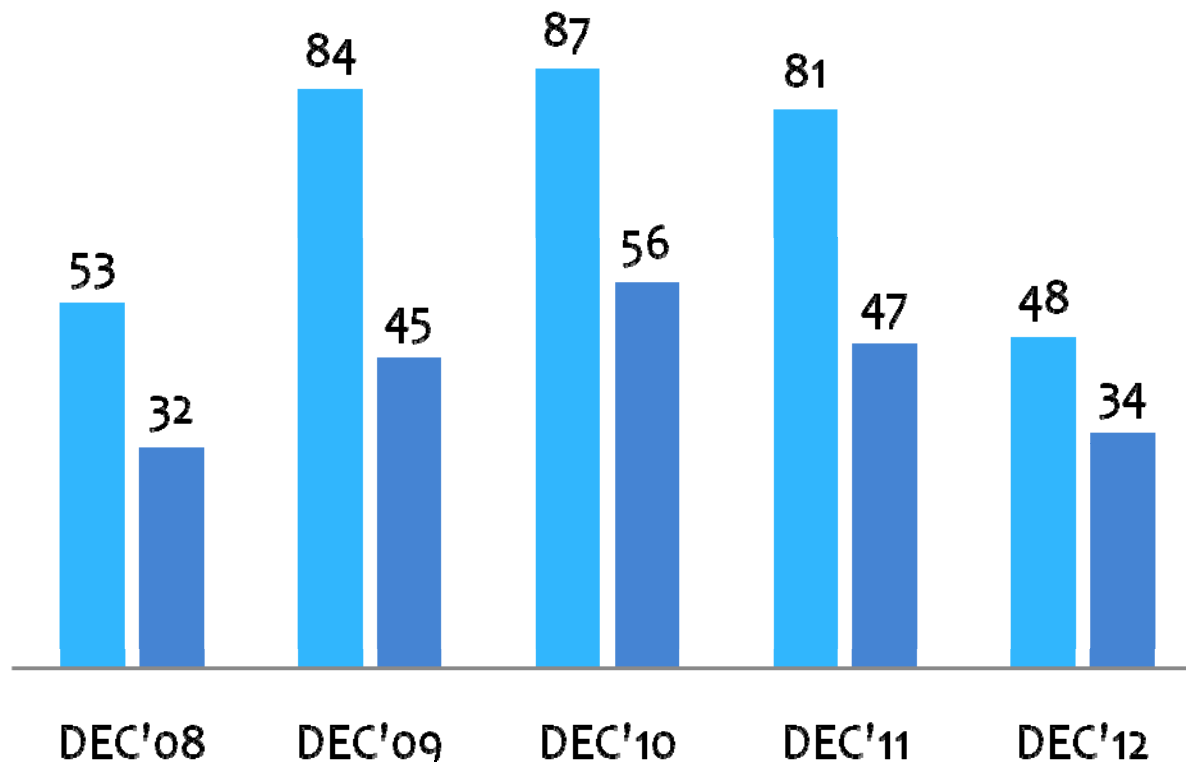
■ TOTAL ■ FIRST CLASS





# UG RESULTS

■ TOTAL ■ SECOND CLASS



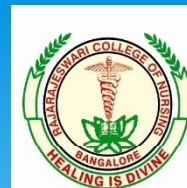


# Participation of teachers in academic and personal counseling of students



*Mentorship in progress*





## Contributions of teachers to academic activities

- \* *Membership of teachers in University bodies:*
- \* Dr. V Rajagopal, MCI inspector UG & PG , Member of Paramedical board of studies, Chairman LIC, RGUHS.
- \* Dr. K.C. Rathish – Member of PG board of studies, RGUHS.
- \* Website Coordinator of IAMM-KC; [www.iammkc.org](http://www.iammkc.org):  
Dr. Sangeetha. S.
- \* Reviewer for JCDR: Dr. Sangeetha. S.

# SWOC ANALYSIS



## **Strengths:**

- \* Quality TLE methods for UG & PG by all staff,
- \* Research orientation among faculty,
- \* a healthy competitive spirit to publish ,
- \* Quality Consciousness & zeal to improve.

**Opportunities:** Room for improvement in inter-institutional collaboration,

- \* to obtain ICMR, CSIR & DST-FIST & WHO projects.

## **Challenges:**

- To maintain quality.



**Thank You**