

**Department of Microbiology**  
**Government City College (A),**  
**Hyderabad**

**Profile of the Department**

**2021**

**Vision**

To produce nationally and globally competent students by sustaining their quest to explore advanced areas of Microbiology; excel in new biology research and contribute for the betterment of mankind

**Mission**

Mission is to educate and train students in the discipline of Microbiology.

**About the Department**

The department was established in the year 1997 as vocational course in Industrial Microbiology. Later in the year 1998 a degree course in combination with Botany and Chemistry was started with an intake of 30 students. In the year 2018-19 the course was also offered in combination with Zoology (MZC). In the year 2019-20 the course was offered in three combinations MBC, MZC and MBZ. With the introduction of New Education Policy 2020 the course is being offered in 12 combinations adding combinations with Biotechnology, Biochemistry and Psychology disciplines.

**About the Course**

The discipline in Microbiology includes fundamental understanding of Microbiology and its relevance to other fields like biodiversity, cell-biology, molecular biology, biochemistry, physiology, ecology, evolution biotechnology and pharmacology.

**Program Out-Come**

<b>Paper Title</b>	<b>Paper Title</b>
General Microbiology	Industrial Microbiology
Microbial Diversity	Pharmaceutical Microbiology
Food and Environmental Microbiology	Applied Microbiology
Medical Microbiology	Haematology

Immunology	Mushroom cultivation
Molecular biology	Microbiology and human health
Microbial genetics	Project work
Microbial Omics	-

### Department Profile

Period	Head of the Department	Teaching Staff
1998-2007	Smt. Rafiya Sultana	-
2007	Dr. S. Janaki Rani	Ms. K. Kranthi
2007-2013	Dr. Vara lakshmi	Ms. K. Kranthi Mrs. Archana Mary
2013- June 2018	Dr.N.C. Sowjanya	Mrs Archana Mary Mrs. Deepika
<b>June 2018-till date</b>	Dr. T. Raga Sudha	Nil

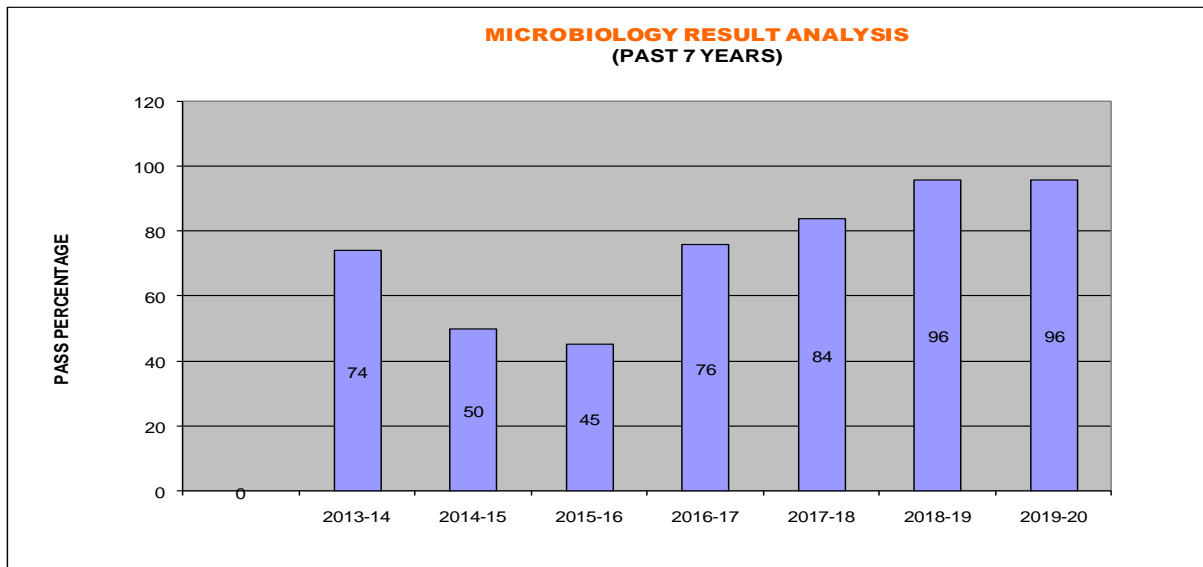
### Faculty Profile

<b>Name</b>	<b>Dr. T. Raga Sudha</b>
Qualification	M.Sc., M.Phil., Ph.D.
Specialization	Infectious Arthritis
Teaching Experience	8 years 1 months
Paper Publications (UGC Approved Journals)	National -01 International- 08
Paper Presentation in Seminars/Conferences	National- 04, International- 05
Book Publication	02

### Student strength (past 5 years)

Year	Intake	Total Strength
2016-17	30	$30+20+27= 77$
2017-18	30	$30+23+20= 73$
2018-19	60	$30+20+19= 69$
2019-20	90	$54+45+23= 122$
2020-21	110	$102+45+40=187$

### Result Analysis (past 5 years)



## Academic Activities



**1. Forensic Sciences and Cyber Security- Workshop conducted by Microbiology Department, Keshav Memorial College on 27<sup>th</sup> to 30<sup>th</sup> Dec. 2019.**

Attended by Dr. T. Raga Sudha and 13 students of B.Sc. Microbiology Second year.



**2. Training cum Placement in Medical Coding by Valliappa Foundation-12<sup>th</sup> March 2020 conducted by Microbiology Department, Government City College.**

Dr. V. Vijaya Lakshmi, Principal, Dr. T. Raga Sudha, Incharge of Microbiology Department, Mrs. Beena, Valliappa Foundation, Faculty from Botany and Biochemistry Department and students from Keshav Memorial College.





## 5. Career Guidance

S.No	Date	Title of Activity	Resource Person	Number of students attended	Staff Involved
2	3 <sup>rd</sup> March 2021	Research requirements for Bioscience/Biotechnology in Academia-Industry Interactions	Dr. Vijay Chauthaiwale	30	Dr. T. Raga Sudha

**Objective**  
Career guidance for the students pursuing B.Sc. Microbiology.

**Outcome**  
Students were given guidance about the career in life-sciences especially in the fields of Microbiology and Biotechnology in India.



### Microbiologist Society, India

Organizes  
Expert Talk on

**Research Requirements for Bioscience/Biotechnology in Academia-Industry Interactions**

**Chief Guest & Speaker**



**Wednesday,  
3<sup>rd</sup> March 2021**



**Dr Vijay Chauthaiwale**

Healthcare-Biotech Consultant

&

Ex- Vice President (Discovery Research)  
Torrent Pharmaceuticals Ltd

**Convener**

**Dr. Sanjay Patankar**

President,  
Microbiologist Society, India, Maharashtra & Goa



**7.00PM IST**

Online Session on



**Patron**

**Dr. A. M. Deshmukh**

President,  
Microbiologist Society, India

**Cordinator**

**Dr. Aarti Shanware**

Director,  
Rajiv Gandhi Biotechnology Centre, RTM Nagpur,  
University, Maharashtra & Goa

## 6. Celebration of National Science Day

**Government City College (Autonomous), Hyderabad**  
(Affiliated to Osmania University/ Re-accredited with NAAC B++/ ISO 9001:2015 Certified)

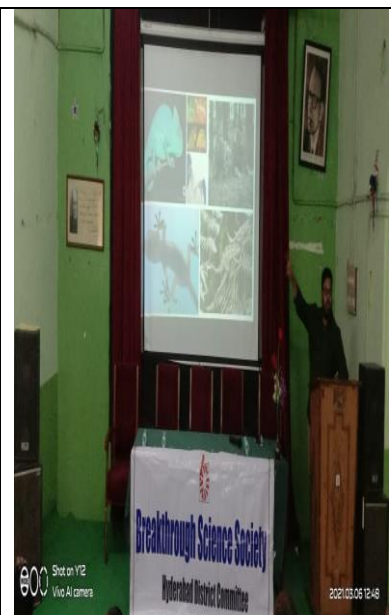
Welcome  
to  
Invited Talk on  
**Science, Technology and Innovations**  
On the Occasion of National Science Day 28/02/2021

**Chair Person**  
Dr. P. Balu Bhasker  
Principal (FAC)

**Invited Speaker**  
Dr. D. Nagendra Prasad  
M.Sc. (Physics), Ph.D. (Microelectronics)  
BITS Pilani, Hyderabad, India

Organized by  
**Department of Botany & Microbiology**  
Govt. City College (A), Nayapul, Hyderabad  
In Collaboration with  
**Breakthrough - Science, Hyderabad**

Venue: Azam Hall, GCC(A), Hyderabad      Date & time: 06/03/2021 at 11:30 am to 12:30 pm



Hyderabad, Telangana, India  
Srinagar - Kanyakumari Hwy, High Court, Ghansi  
Bazaar, Hyderabad, Telangana 500066, India  
Lat N 17° 22' 8.31"  
Long E 78° 28' 10.866"  
06/03/21 11:32 AM

Shot on i12  
Via AI camera

2021.03.06 12:48

S.No	Date	Title of Activity	Resource Person	Number of students attended	Staff Involved
2	6 <sup>th</sup> March 2021	Science Technology and Innovations	Dr. D. Nagendra Prasad	60	Dr. T. Raga Sudha, Dr.D Narmada, Mrs. A. Sheba Rani, Dr. D. Naga Raju and Dr. K. Sudha Rani
<b>Outcome</b> The speaker had briefed about the latest innovations in science and emphasized on Nano technology and its applications in day to day life.					

## **7. Poster presentation**

Topic: Status of Tuberculosis in India

Number of Participants 14

Winners

T. Vishnu MBZ-II 1<sup>st</sup> Prize

O. Vikas Reddy MZC III

Sandhya And Swathi MZC II 2<sup>nd</sup> Prize

K. Manideep NZC II 3<sup>rd</sup> Prize

## **Paper Publications & Workshops**

Type	Date	Title	Journal
Paper published	2020	Management and Disposal of Microbiological and Carcinogenic agents in Laboratory- A review.	<i>International J. of Pharmacy and Biological Sciences</i> , 9(2) 50-56.
Paper published	2019	Investigation of the effect of Croton bonplandianum Baill on Multidrug resistant Microorganisms.	<i>International J. of Life Science</i> , 7(2) 286-292.
Paper presented	26 and 27 April, 2019	Management and Disposal of Microbiological and Carcinogenic agents in Laboratory- A review.	National Seminar on “ <i>Health, Hygiene and Sanitation</i> ” Little Flower Degree College, Hyderabad.
Workshop	24 & 25 January, 2019	“Molecular Applications in Docking- Drug Discovery”,	R.B.V.R.R. Women’s College, Hyderabad.

## Best Practices

### 1. C. JayaPrakash Reddy Gold Medal

Year	Name	Secured marks
2012-13	K.Bheem bai	465
2013-14	V. Purushotham Reddy	472
2014-15	Noor-Ul-Huda	605
2015-16	D. Navaneetha	487
2016-17	P. Balu	1006
2018-19	T. Hemalatha	O grade
2019-20	M. Chakradhar	A grade

### 2. Student Project Works

Year	Topic
2013-14	Cancer and its types
	Isolation of soil microorganisms
	Production of bread



	Chemical oxygen demand
2014-15	Ebola Virus
	Hospital waste
	Communicable diseases
	Analysis of spoiled fruits and vegetables
2015-16	Anti-microbial effect of garlic and turmeric against E.coli
	Anti-microbial activity of plant extracts against pathogens
	Microflora of different air samples
2016-17	Genetic disorder
	Bacillus cereus assisted phytoremediation of lead.
	Quality analysis of milk
2017-18	Sampling and identification of food contaminants
	Probiotics-Acid of bile tolerance
	Isolation and estimation of DNA Using Agarose gel Electrophoresis
	Bioremediation
	Isolation of phospholytic fungi from soil.
2018-19	

2019-20	Vaccine Production K. Rajkumar, T. Vamsi Krishna, M. Suresh, T. Venu
	Production of Antibiotics Rathod Jagadeshwar, Md. Apsar Pasha, J. Mallesh, Ramu, L.Sai Teja
	Microbial Production of Citric Acid P. Navven E. Praveen Kumar
	RNA viruses and their Etiology K. Shravan Kumar, K. Santhosh Reddy, M. Chakradhar, G. Yogeshwar