

# PINGLE GOVT. COLLEGE FOR WOMEN, WADDEPALLY WARANGAL

## FACULTY PROFILE

***Dr. G. Renuka,  
M.Sc., Ph.D., SET, M.Sc (Psy)  
Head, Asst. Professor Department of  
Microbiology.***



### **Teaching Profile**

- 20 Years of Teaching Experience as Faculty in Microbiology.

### **Teaching Experience at U.G. Level:**

- Recognized Faculty to teach Undergraduate (B.Sc.) Students at Vaagdevi Degree and Postgraduate College, Kishanpura, Hanamkonda, Warangal for 15 Years.
- Recognized Faculty to teach Under Graduate B.Sc. Students at Govt. College for 10 Years.

### **Teaching Experience at P.G. Level:**

- Recognized Faculty to teach M.Sc. students at Dept. of Microbiology, Kakatiya University, Warangal for 1 Year.
- Recognized Faculty to teach M.Sc. Students at Vaagdevi Degree and PG College. Kishanpura, Hanamkonda, Warangal for 11 Years.
- Recognized Faculty to teach M.Sc. students at Dept. of Microbiology. Pingle Govt. Degree & P.G college for Women. Waddepalli. Warangal, since 9 Years.

### **Academic Positions held:**

- 1991-94 B.Sc. with Microbiology, Botany, Chemistry, Jaya Women's Degree College, Hananmkonda. Warangal Dist.
- 1994-96 M.Sc. (Microbiology), Department of Microbiology, Kakatiya University, Warangal. A.P. India.
- 1997 STATE LEVEL ELIGIBILITY TEST for Lectureship. APCSC, Hyderabad. Jul, 1997.

- 2003-2007 Ph.D. in Microbiology – Studies on Association and Influence of AM fungi on the productivity of Acacia Melanoxylon R.Br. of Warangal and its surroundings.

### **Academic Merit:**

- Awarded BEST TEACHER at VAAGDEVI INSTITUTIONS, Viswambhara Educational Society, Hanamkonda, Warangal, during 2006-2008.
- Awarded 5th Rank in M.Sc. at Kakatiya University during 1994-96.

### **Work Experience:**

- Five years of research training under the supervision of Prof. S. Ram Reddy, Department of Microbiology. Kakatiya University, Warangal. INDIA.
- 24 Years of Teaching Experience at Graduate and 19 Years at Postgraduate Level.

### **PRESENT POSITION:**

Working as Assistant Professor. Selected through Direct  
Department of Microbiology. Recruitment by

Pingle Govt. Degree & P.G. College for Women. APPSC. Dec -2011.  
Waddepalli, Warangal -506 370,  
Telangana, INDIA.

### **ACADEMIC POSITIONS HELD:**

1. Convenor for M.Sc. (Microbiology) at PGCW, WGL. 2014 - till date
2. Convenor for the Cultural Committee at PGCW, WGL. 2014 – 2018
3. Convenor for Grievance Redressal at PGCW, WGL. 2013
4. Resource person for Vocational College, HNK. 2015
5. Co-opted as Member, Board of Studies, Kakatiya University 2015- till date
6. Co-opted as Member, Board of Studies, SR & BGNR Govt. 2015 - till date  
- College Khammam

7. Life Member, Society of Pharmaceutical Education Research (SPER). Dehradun. 2015 - till date
8. Life Member, Scientific Planet Society 2015 - till date
9. Trained for Human Values & Professional Ethics for PGCW, WGL. 2013 - till date
10. Convenor, Research Centre, PGCW 2016 – till date
11. Convenor, Internal Compliance Cell, PGCW, Wgl. 2016
12. RUSA Coordinator 2016 – till date

### **RESEARCH EXPERIENCE:**

<b>Sl No.</b>	<b>Name of the Lecturer</b>	<b>Title of the Project</b>	<b>Funding Agent</b>	<b>Status</b>	<b>Name of the Participant</b>	<b>Class</b>
1.	Dr. G. Renuka	A Study Project on – “Isolation and Characterization of potential bacteria for treatment of Pulp – Paper Mill Industry effluents ”	CCE, HYD	January 2019	1. G. SAI Keerthana  2. AFREEN SULTHANA  3. P. PRAVALIKA  4. SHAHEDA  5. WAHEEDA	B.Sc. MZC III YEAR  B.Sc. MZC III YEAR  B.Sc. MZC III YEAR  B.Sc. MZC III YEAR  B.Sc. MZC III YEAR

2.	Dr. G. Renuka	A Study Project on - “Studies on coagulation and flocculation of Industrial WasteWater by CHITOSAN”	CCE, HYD	November 2018	1. CH. NAVYA BHANU 2. AFREEN SULTHANA 3. P. PRAVALLIKA 4.P. SINDHUJA 5. B. KAVERI	B.Sc. MZC III Year B.Sc. MZC II Year B.Sc. MZC II Year B.Sc. MZC I Year B.Sc. MZC I Year
----	---------------	--------------------------------------------------------------------------------------------------------	----------	---------------	-----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------

### **Research activities:**

Established Collaboration with Dhanishta Labs, Bhadrakali labs, Kishanpura Hnk, Vaagdevi College of Pharmacy, Hnk, Lions Club, Warangal

Worked with a team of U.G Students on Study Projects for JIGNASA

(i) A Study Project on – “Isolation and Characterization of potential bacteria for treatment of Pulp – Paper Mill Industry effluents”

(ii). A Study Project on - “Studies on coagulation and flocculation of Industrial WasteWater by CHITOSAN”

Which were Presented at State Level Inter-Collegiate research events.

Assisting Projects for M.Pharmacy, Vaagdevi College of Pharmacy. Hanamkonda.

Guided an M. Phil. for Vinayaka Mission University.

Guided Study Project Dissertation of B.Sc & M.Sc Students .

## Publications

<b>Sl No.</b>	<b>Name of Lect/Author</b>	<b>Title of the Publication</b>	<b>Journal Name</b>	<b>ISSN/ISBN</b>	<b>Impact Factor</b>
1	Dr. G. Renuka	Innovation for growth & development	IJEMR - March 2021	ISSN 2249-2585 (Online), 2249-8672 (Print)	
2	Dr. G. Renuka	CORONA/COVID-19- Vaccines Current Scenario	International Journal of Scientific Research in Science & Technology	ISSN: 2395-6011	7.214
3	Dr. G. Renuka	Socio-Economic Status of the Online Buyers.	Rajiv Kumar Sharma JTS Publications.	SBN: 978-93-90143-19-1	
4	Dr. G. Renuka	A Study on the Problems and Prospects of Digital Learning	International Journal of Research and Analytical Reviews (IJRAR)	E-ISSN: 2348-1269 P-ISSN: 2349-5138	5.75
5	Dr. G. Renuka	Anticancer activity of Piper nigrum	International Journal of Current Trends in Pharma Research	ISSN 2321- 3760	

6	Dr. G. Renuka	Anticancer activity of silver nanoparticles synthesized of Lantana camara L. leaves.	International Journal of Current Trends in Pharma Research	ISSN 2321- 3760	
7	Dr. G. Renuka	Synthesis of silver nanoparticles from Nothapodytes Nimmoniana, characterization, purification and biological activities.	International Journal of Current Trends in Pharma Research	ISSN 2321- 3760	
8	Dr. G. Renuka	Anticancer and antioxidant activity of leaf extracts Cyperus Rotundus”	International Journal of Current Trends in Pharma Research	ISSN 2321- 3760	
9	Dr. G. Renuka	Isolation and identification of bioactive potential actinomycetes from soil samples of Waddepally village	World Journal of Pharmacy & Biotechnology 2015.2(1):77-80	ISSN : 2349- 9087	0.13
10	Dr. G. Renuka	Arbuscular Mycorrhizal dependency of <i>Acacia melanoxylon</i> R. Br. Proc. <i>Proc. Nt. Acadsci</i> India	Proc, Nt. Acadsci India	ISSN: 0369- 8211	0.921
11	Dr. G. Renuka	Distribution and Diversity of AM Fungal Flora in Godavari belt Forests, A.P. India. <i>Asian J.</i>	A.P, India, Asian Journal	ISSN 0975- 5845x	1.747

12	Dr. G. Renuka	Influence of certain soil amendments on AM colonization, nodulation and growth of <i>Acacia MelanoxylonR</i>	International Journal on Ecology, Environment and Conservation.	ISSN 0971- 765x	0.18
13	Dr. G. Renuka	Influence of UV treatment on antibiotic resistant bacteria in drinking water	International Journal on Ecology, Environment and Conservation.	ISSN 0971- 765x	0.18
14	Dr. G. Renuka	A comparative study on coliform enumeration methods for drinking water	International Journal on Ecology, Environment and Conservation.	ISSN 0971- 765x	0.18

### **Research Interest:**

- Research on areas related to formulation of Bio-Fertilizer & Bio Pesticides.
- Presently working on screening of microorganisms lethal to insects like mosquitoes.
- Evaluation of Toxic Effects of Organophosphorus (ROGOR) pesticides on the Carbohydrate metabolism of freshwater mussel, *Lamellidens marginalis*.
- Effect of ROGOR on AcetylCholinerase activity of fresh water mussel.
- Research related to monitoring water quality and treatment.
- Studies on Streptococcal wound infections incidence in Diabetes mellitus patients (Assisted this Project for Ph.d dissertation work with regards to culturing process.
- Research on various areas Pertaining to recycling of complex organic wastes by the metabolic role of microbes.
- Applied for Major Research Project on “*Influence of AM colonization on some drought tolerant crops and evaluation of AM fungi on their drought tolerance*”

## **Research Activities:**

- ☒ No. of Articles Published in Research Journals : 14
- ☒ No. of Articles / Papers Presented in International Seminars : 05
- ☒ No. of Articles / Papers Presented in National Seminars : 07
- ☒ No. of International / National Seminar! Conferences/ : 18
- ☒ Workshops Attended

## **Professional & Personal Strengths:**

- ☒ Highly Conversant with the Experimental Techniques such as Gel Electrophoresis, Polymerase Chain reaction, TLC, HPLC. U.V. SpectroPhotometry, Fluorescent Microscopy.
- ☒ Experience in working with Academic Institutions.
- ☒ Highly Professional in reaching goals within time limits and standards.
- ☒ Member, BOS, Department of Microbiology Kakatiya University. Warangal.
- ☒ Member, BOS, Department of Microbiology. Chaitanya Degree & P.G. college (Autonomous). Warangal.
- ☒ Member, BOS, SR & BGNR Govt. College, Khammam.
- ☒ Participated in the State Level Consultation Workshop on Capacity Building for Mainstreaming Sendai Framework for *Disaster Risk Reduction and Rural Resilience* in University Curriculum of Telangana State held on 30/10/2017 in NCRI, Hyderabad.
- ☒ Co-author for B.Sc. Microbiology for I<sup>st</sup> & II<sup>nd</sup>, Semesters in Telugu Akademi, Hyderabad.
- ☒ Co-Authored B.Sc Microbiology Semester III & IV Text Book for Telugu Akademi, Hyderabad.
- ☒ Co-Authored B.Sc Microbiology Semester V elective for Telugu Akademi, Hyderabad.
- ☒ Authored 4 Books Published by Paradise Press New Delhi.
  - 1). Food Science and Nutrition.
  - 2). Food Hygiene & Sanitation.
  - 3). Economic Plant & Microbes.
  - 4). Proteins & Enzymes.



## ● Social Responsibility Activities

- Presented a career guidance Program on “Prospects and Application of Microbiology – **“Future of Science”** on 29<sup>th</sup> June 2014.
- Organized a CBP camp - A Social Event on 06.01.2016 at Pingle Govt. Degree College for Women, Warangal.
- Presented a paper in International and National Seminars and Conferences.
- Organized Career Guidance programme
- Cultural Convenor.
- Resource person for Vocational College, Warangal
- Trained Faculty for Human Values and Professional Ethics.
- Guided M. Phil. and Projects for Pharmacy.
- Convenor for other Academic committees in the College.
- Attended Orientation Course at Osmania University, Hyderabad.
- Attended Refresher Course in Softskills and Personality Development, Osmania University, Hyderabad (18<sup>th</sup> September 2015 to 9<sup>th</sup> October 2015).
- Attended Refresher course in life sciences organised by UGC - Human resource development centre, Maulana Azad National Urdu University, Hyderabad (17th september - 30th september, 2020)
- Organised certificate courses on
  - a. Mushroom cultivation
  - b. Diagnostic test evaluation methodology

## **List of Seminars/ Symposia/ Conferences / Workshops /Training programmes attended:**

### **International Conferences:**

- ☒ International Seminar on “Plant Biotechnology and Genomics towards New Green Revolution (IS IBG 20091 Organized by school of Life Sciences. Yogi Vemana University. Kadapa. A.P.. India. Held on February 6 & 7, 2009.
- ☒ International conference on Biotechnology “A Global Scenario” organized by Department of Biotechnology, Kakatiya University, Warangal held on 2 & 4 November 2010.

## National Conferences:

- ☒ National seminar on Pingle Govt. College for Women. Waddepalli. Warangal, held on 22 & 23rd November 2006.
- ☒ Attended Workshop on conduction of Practicals to science teachers orkin in LIG & PG college in Warangal District held on 31 November 2006 at Kakatiya University Campus. Warangal.
- ☒ National seminar on “*Recent Trends in Microbial Technology*”. Department of Microbiology, Chaitanya Postgraduate College. Kishanpura. Hanmakonda, Warangal District held on 5 & 6 October. 2007.
- ☒ Attended a live day training programme to P.G. teachers of affiliated colleges (In Microbiology Subject Jointly Organized by Kakatiya University and A.P. State Council of higher Education. Hyderabad during 2-6 January. 2007 at Kakatiya University. Warangal.
- ☒ Attended a five day training programme to P.G. teachers of affiliated colleges (In Microbiology Subject) Jointly Organized by Kakatiya University and A.P. State Council of Higher Education, Hyderabad during 1-5 July. 2008 at Kakatiya University. Warangal.
- ☒ National Seminar on “*Molecular Microbiology and Microbial Technology’s*” Department of Microbiology, Kakatiya University. Warangal, During 22-24. January 2009.
- ☒ National Seminar on ‘*Biotechnology in Life Sciences - Current Trends and Developments*’, Department of Zoology, Kakatiya Govt. Degree & P.G college, Hanmakonda, Warangal, held on 18th & 19th July 2009.
- ☒ UGC - SAP sponsored National Seminar on “*Microbial Diversity Exploration and Bioprospecting*”, Department of Microbiology. Kakatiya University, Warangal, Held on 27th & 28th March 2010.
- ☒ One day Seminar on “*Microbiology - Career Opportunities*”, Departmental of Microbiology, Vaagdevi Degree & P.G. College, Warangal, A.P. held on 12 March 2013.
- ☒ A one day Workshop on hands on Experience on “*Molecular Diagnostic techniques*”, at Pingle Govt. Degree & P.G College, Waddepalli, Warangal. held on 7th March 2013.
- ☒ Attended orientation course at Academic Staff College, O.U. Hyderabad. During 3 June – 1 July, 2013.
- ☒ Attended workshop on “*Human Values and Professional Ethics*” during, 8th July – 11 July 2013.

- ☒ Organized One Day Workshop on – “*Hands on Experience on Diagnostic Techniques*”
- ☒ Organized One Day Workshop on – “*Advanced Molecular Techniques*” on 11/08/2016
- ☒ Organized One Day Workshop on – “*National Science Day*” on 28/02/2016
- ☒ Organized One Day National Level Workshop on – “*Collegiate Colloquium*” on E-Learning on 16/04/2019
- ☒ Organized One Day Webinar on - “*Viral Infection and Heart*” on 15/05/2020
- ☒ Attended One Week Short Term Course on “*Challenges in Discovery of Antiviral Agents and Vaccines*” from 08.06.2020 to 13.06.2020
- ☒ Attended “Online Short Term Course on Renewable Energy” organized from 18.06.2020 to 20.06.2020.
- ☒ Attended One Week Short Term Course on “*Developments in Advanced Drug Delivery Systems and Drug Discovery to Treat Life threatening Diseases*” from 22.06.2020 to 27.06.2020
- ☒ Attended One Week FIP Short-term Course on “*Online Short Term Course on Personality Development and Value Education*” Sponsored by UGC-HRDC-RUSA Organized from 29.06.2020 to 04.07.2020
- ☒ Organized ONE – Week Fdp On Ict & “*Online Teaching Tools In Higher Education Tools*” on 16<sup>th</sup> – 31<sup>st</sup> July 2020.
- ☒ Attended One Week Online FIP Short-term Course on “*ICT Tools in Higher Education*” Sponsored by UGC-HRDC-RUSA organized from 12.08.2020 to 19.08.2020
- ☒ Attended “*Refresher Course in Life Sciences*” Organized by UGC – Human Resource Development Centre, Maulana Azad National Urdu University, Hyderabad from 17<sup>th</sup> Sep 2020 to 30<sup>th</sup> Sep 2020 and obtained Grade “A”.

### **List of Papers Presented in International Seminar:**

- ☒ “Antimicrobial Activity of *Cardiospermum Halicacabum*, against Some Human Pathogens”. International Seminar on Plant Biotechnology and Genomics towards a New Green Revolution. Yogi Vemana University, Kadapa. A.P., India.

- ☒ Presented Paper Title “Sexual Harassment on Women at Work Place” in International Conference Organized by Andhra University, On 5 & 6 March 2014.
- ☒ Presented a paper in International conference organized by Department of Biotechnology, KU, Warangal on 28.01 .2016.

### **List of Papers Presented in International Seminar:**

- ☒ “Studies on Evaluation of AM Artificial Inoculum on the Growth of *Acacia Melanoxylon*”, National Seminar on Recent Trends in Microbial Technology, Chaitanya Post Graduate College, Hanamkonda, Warangal Dist. during 5 & 6 October, 2007.
- ☒ Presented Paper at National Seminar on ‘Trends in Microbial Biotechnology’ Organized by SRR Degree College. Karimnagar - “Correlation of Plant Growth characters of certain plants with the AM fungal Association”.
- ☒ Presented a paper in National Seminar in Scenario of Social Science in Higher Education – Issues, Challenges and Suggestions.  
**Topic:** Interdisciplinary learning and Applied learning opportunities on 8 & 9 September 2014.
- ☒ Presented a Paper in National Seminar of Recent Trends in Plant Sciences organized by Dept. of Botany on 11 & 12 September 2014.  
**Topic:** Exploration of Different Azospirillum Strains from various crop soils of Hanamkonda, Warangal.
- ☒ Participated and Presented a Paper in National Seminar on Applied Immunology, Organized by Dept. of Zoology on 20 September 2014.  
**Topic:** Incidence of Malaria in Telangana region - critical perspective

### **Professional Service:**

1. Organized ONE – WEEK FDP ON “ICT & ONLINE TEACHING TOOLS” IN HIGHER EDUCATION.
2. Organized One Day Webinar on - “Viral Infection and Heart” on 15/05/2020
3. Organized One Day National Level Workshop on – “ Collegiate Colloquium on E-Learning on 16/04/2019
4. Organized One Day Workshop on – “ National Science Day”on 28/02/2019.
5. Organized a one day program on “Hands on Experience” 2013.

6. Organized a Career guidance program on Prospects and Application of Microbiology –“Future of Science” on 29th January 2014.

### **Community Service:**

1. Organized a CBP Camp - A Social Event on 06.01.2016 at Pingle Govt. Degree College for Women, Warangal.
2. Organized Awareness Programme on - “What is a Healthy Women in NSS Special Camp.
3. **Cultural Programs :**  
**Cultural Convener:** Organized District Level 2 day cultural fest “Yuvatharangam - 2015” as cultural convener,
4. Mid-day-Meals programme – Serving the cause.
5. Organized Certificate Course on Mushroom Cultivation.
6. Organized Awareness Programme on Incidence of Seasonal Disease.
7. Cluster Level Convenor for Yuvatharangam 2018 & Yuvatharangam 2019
8. Awareness on incidence and prevention of CORONA Viral Infections.
9. Delivered extension Lectures in U.G. & P.G. Colleges and performed as Judge for Poster Presentation Sessions.
10. Chief Guest for Science tempo at Ravindra Bharathi School, Nizampet, Hyderabad

### **References:**

1. Prof. S.M. Reddy  
Retd. Emeritus Professor.  
Department of Microbiology  
Kakatiya University.  
Warangal.
2. Prof. S. Ram Reddy  
Emeritus Professor.  
Department of Microbiology  
Kakatiya University.  
Warangal