



**TELANGANA SOCIAL WELFARE RESIDENTIAL ARMED FORCES  
PREPARATORY DEGREE COLLEGE FOR WOMEN, BHONGIR  
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## Department of Chemistry

The Chemistry Laboratory has a very important role in learning chemistry. It facilitates the experimental activity which supports the students' understanding. Laboratories aim to create opportunities to provide students with Hands-on experience of Laboratory experiments, which could bridge the gap between theoretical concepts and their application in everyday life. The Laboratory performance is based on the idea that science focuses on hands-on observational activities and that these activities help students make connections between various scientific concepts and real-life experiences.

The practical enables students to connect to other science areas, communicate the information effectively and argue their conclusions logically, students can learn these skills. If they can participate in various laboratory exercises.





## Department of Physics

A physics laboratory is a dedicated space equipped with apparatus, instruments, and materials for conducting experiments and investigations related to the field of physics. The Department of Physics, TSWRAFDCW, Bhongir is equipped with Mechanics, Thermal Physics, Waves and Optics, Modern physics, Electronics, and Computer/simulation labs. These laboratories are essential components of physics education at under graduation level.

Overall, a physics laboratory is a dynamic environment where students have the opportunity to engage with physical phenomena first hand, apply theoretical concepts, develop practical skills, and deepen their understanding of the fundamental principles of physics through hands-on experimentation.







## Department of Microbiology

Microbiology lab is typically equipped with various instruments and materials necessary to perform experiments and learn techniques such as culturing, staining, and identifying bacteria, viruses, fungi, and other microbes.



## Department of Botany

Department of Botany, TGSWRAFPDCW, Bhongir has one Botany Lab is spacious, aerated, water sourced and furnished. It is equipped with sophisticated gear with various consumables, non- consumable and permanent articles which are suitable for handling of regular practical's and research. The lab also arranged with Digital Smart board and computer with colour printer. Lab is the house of research and innovation. Students have completed various projects in this lab.





## Department of Zoology

The Department has well established laboratory that provides a wonderful platform for students in experimentation and research. The lab is equipped with Compound Microscopes, Dissection microscopes, Sahli's Hemocytometer, Blood grouping kits, RBC and WBC counting pipettes, Agarose gel Electrophoresis equipment, Spotters, Slides, Models, Bio-visual charts and Rabbit axial skeletal system, Dissection equipment, Digital Balance, Essential glassware, Chemicals and reagents to be utilized sufficiently for B.Sc. practical's and projects.



## Department of Computer Science

The college has a comprehensive IT policy, covering usage, cyber security, Wi-Fi Updation & expenditure per annum in the last five years the IT infrastructure has been updated several times Course specific. Software such as Turbo C, Code blocks, Eclipse, Tally, Libre Office Etc. Common Applications such as Microsoft Office, Windows 10, Google Chrome, Mozilla Firefox etc. are installed on all systems.

**Hardware:** The systems having with 4G Random access memory, The Operating system (OS) has been upgraded to Windows 10 in all the computers. Hardware failures such as SMPCs, Keyboards, Mouses and Hardware Drives will be replaced regularly.

