

## Department of Botany



# **Dr Nageswara Rao Singisala**

**M.Sc B.Ed PhD, PGDMB, PDF(USA)**

**Asst. Professor**

Completed **RAMAN POST DOCTORAL FELLOWSHIP-** @**University of North Texas, DENTON, TEXAS ,USA** . Having more than 15 years experience in both Teaching and Research. Completed 1 research project. 6 Doctoral students are Awarded and 4 students working for their PhD, Served as Vice-Principal University college of Science, Saifabad OU, Head department of Botany, Coordinator Department of Biotechnology, Program officer NSS @UCS Saifabad OU.

Currently working on Physiology and Biochemistry of Plants .Phyto and green chemistry. Biotic and Abiotic stress parameters in medicinally and commercially important plants. Plant Biotechnology, Tissue culture in endangered, threatened and rare medicinal plants .Transmission, Gene expression study in medicinal and aromatic plants. Phyto chemical and bio chemical evaluation of Anti cancer, Anti Diabetic plants .Conservation studies on wild life sanctuaries of Telangana

### **Research Interests**

Phyto and green chemistry ,Plant tissue culture, Hairy root complementation studies ,Plant Stress Physiology, Functional Genomics, Metabolic Engineering, Crop Biotechnology, Genetic Manipulation of Plants for high yields and stress alleviation and value addition Identification of bioactive molecules drugs, Studies on Isolation of antimicrobial Anti oxidant, Anti diabetic and anticancer molecules from medicinal plants .Plant Molecular Biology and Biotechnology. Conservation and eco studies of Telangana wildlife sanctuaries.