



## DEPARTMENT OF ZOOLOGY, SERICULTURE UNIT

KAKATIYA UNIVERSITY, WARANGAL

(RESEARCH THRUST AREAS OF FACULTY)

**Dr. Kuntamalla Sujatha-(Research Thrust Areas)**

**Phytochemistry, Pathology & Sericulture:**

- Major research area of focus is to identify, isolate and characterise and study the role of natural compounds (Bio-active compounds) for management of bacterial diseases and improvement of economic characters of silkworm.
- Molecular identification of newly isolated pathogenic bacteria from gut tissue of mulberry & non mulberry silkworms.
- .Antibacterial activity and efficient use of natural compounds for improvement of commercial traits in mulberry & non mulberry silkworms.
- Studies on larval growth, cocoon and nutritional indices of silkworm influenced by feeding fortified mulberry leaves.
- NMR spectroscopy for structural studies.
- Studies on health problems faced by workers in silk industry.

**Dr.Kaneez Fatima- Research Thrust Areas:**

**Phytochemistry, Entomology & Sericulture:**

- A country's progress and prosperity can be achieved when women who constitutes nearly half of the population gets economic empowerment.
- Mulberry cultivation , silkworm rearing, post-cocoon technology requires more research and women knowledge has to be upgraded with latest methodologies , so as make thrust area of research.
- Sericulture is a labour intensive and agro-based industry it requires attention to generate employment opportunities and ultimately to achieve sustainable development in this crucial sector.

- Integrity of ecosystem and sustenance of various agro-based sectors including Sericulture depends on climate conditions.
- Effects of climate changes on sustainable development of Sericulture needs further investigation and has become a thrust area of research.
- Agriculture sector is unable to absorb all the eligible labour force in our rural areas. Hence Sericulture which is highly labour intensive and absorbs both male and female labourers in its various activities. It has become thrust area as Sericulture provides permanent source of income and employment throughout the year.