



## Department Achievements

- ▶ Produced University Rank Holders and Academic toppers
- ▶ Faculty and students actively involved in funded research projects
- ▶ Publication of research articles in National & International Journals
- ▶ Students qualified in NET, SET, TNPSC and other competitive examinations
- ▶ Successful organization of National / International Conferences, Seminars & Workshops
- ▶ Collaborations with Research Institutes and Industries
- ▶ Implementation of Extension Activities & Environmental Awareness Programs
- ▶ Awards and recognitions for academic excellence and research contributions



## Career Opportunities for Students

- ▶ **Scientific Research:** Botanist, Plant Scientist, Molecular Biologist or Agricultural Scientist.
- ▶ **Environment & Conservation:** Forester, Park Ranger, Conservationist, Environment consultant or Ecologist.
- ▶ **Commercial & Technical:** Entrepreneur, Nursery Manager, Horticulturalist, Pharmacist or Farming Consultant.
- ▶ **Professional:** Teacher/Professor, Eligible for all competitive exams

FOR MORE DETAILS CONTACT US

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**98949 10354**

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APPLY NOW

<https://admission.hcctrichy.ac.in/>

ADMISSION  
OPEN FOR  
2026 - 2027



# GREEN AI VISIONARIES

Integrating Botany for a Sustainable Future



## PG AND RESEARCH DEPARTMENT OF BOTANY

**HOLY CROSS COLLEGE (AUTONOMOUS)**

Affiliated to Bharathidasan University  
Nationally Accredited (4<sup>th</sup> cycle) with 'A<sup>++</sup>' Grade (CGPA 3.75/4) by NAAC  
College with Potential for Excellence,  
Tiruchirappalli - 620 002

### PROGRAMMES OFFERED

#### B.Sc BOTANY

(A three-year undergraduate programme)  
Eligibility : 10+2 with Biology,  
Botany or Pure Science

#### M.Sc BOTANY

(A two-year postgraduate programme)  
Eligibility: Minimum 55% in B.Sc Botany

#### Ph.D.

Doctor of Philosophy in Botany



## Botany integrated with AI

Botany is evolving with Artificial Intelligence to create smart, sustainable solutions for agriculture, bio diversity, and environmental conservation. Together, they shape a greener and smarter future.

## Departmental Activities

- ✔ Internship Programme
- ✔ Competitive Exam coaching class for NET, SET and TNPSC
- ✔ Field Visit and Study Tour
- ✔ Certificate courses on Mushroom Cultivation, Herbal formulations and Cosmetics
- ✔ Industrial Visits
- ✔ Collaboration with Industry and Research Institutes

## Faculty Expertise

Plant Biotechnology | Biochemistry | Plant Taxonomy | Plant Diversity | Microbiology & Immunology | Bioinformatics | Genetics & Plant Breeding | Cell Biology | Molecular Biology | Plant Anatomy & Embryology | Plant Physiology | Food Science | Research Methodology | Bionanotechnology | Plant Tissue culture



## Laboratory and Infrastructure Facilities:

- ▶ Advanced Laboratories for Biotechnology, Microbiology, Plant Physiology, Genetics & Biochemistry, Tissue Culture & Plant Propagation Unit
- ▶ Modern Bioinformatics Facility with internet access
- ▶ Well-maintained Herbal & Botanical Garden for experiential learning
- ▶ ICT-enabled Smart Classrooms
- ▶ Well-stocked Department Library with Books, Journals & E-resources
- ▶ Research Facilities for UG, PG & Ph.D. scholars
- ▶ Instrumental Facility (Microscopes, Centrifuge, Spectrophotometer, PCR, etc.)



## Highlights of the Department

- ✔ Qualified & experienced Faculty
- ✔ Well equipped & State-of-the-Art Laboratories
- ✔ Smart classrooms, Library, Herbal garden
- ✔ Congenial & Secure Environment
- ✔ Hands-on-training & Field trips
- ✔ Hostel facility for Girls inside the campus



## Exclusive Unique Programme of The Department

- ▶ Mushroom cultivation training
- ▶ Training for the preparation of Herbal medicines
- ▶ Preparation of Hair oil, Hair dye, Lip balm, Face pack & Cosmetics
- ▶ Certificate course titled 'Herbal Boutique' for Botany students
- ▶ Natural & Artificial flower arrangement, Flower therapy
- ▶ Preparation of herbal ornaments, Herbal scented candles, Leaf skeleton art
- ▶ Herbal cuisine, Herbal broth drinks, Herbal dietary supplements