



College of Basic Sciences and Humanities,

Dr. Rajendra Prasad Central Agricultural University, Pusa, Bihar

"Basic Sciences: The Backbone of Innovation in Agriculture and Environment"

Background

College of Basic Sciences and Humanities was established at Dr. Rajendra Prasad Central Agricultural University (formerly RAU), Pusa in 16th October 1981 with the objective to strengthen the teaching and research programme in the disciplines of basic sciences so that it can act as a strong supporting programme for other faculties.

Presently the college offers 4 years **B. Tech. (Biotechnology)** degree programme at undergraduate level, **M.Sc. degree in 5 disciplines** viz. Molecular Biology & Biotech., Microbiology, Plant Physiology, Biochemistry, and Agril. Statistics, and **Ph.D. in 4 disciplines** viz. Molecular Biology and Biotech., Microbiology, Plant Physiology, and Agril. Statistics

Discipline	Degree	Eligibility Criteria & Admission Process	Intake Capacity
B. Tech. Biotechnology	U.G.	PCM/PCMB/PCB. Admission through ICAR examination	55
Molecular Biology & Biotechnology	M.Sc.	4 years B.Sc. or B.Sc. (Hons.) Agri./Hort./ Forestry/ Sericulture/ B.Tech. Bio-technology. Admission through ICAR examination (06), DBT_GAT-B (10), *1 in service	16 + 1*
	Ph.D.	M.Sc. (Agril. Bio-Tech./ M.Sc. (Ag.) Agril. Bio-Tech./ M.Sc. Mol. Biology & Bio-Tech./ M.Sc. (Ag.) Mol. Biology & Biotech./ M.Sc. (Ag.) Mol. Biology. Admission through ICAR examination (4), *1 in service	4 + 1*
Plant Physiology	M.Sc.	4 year B.Sc. or B.Sc. (Hons.) Agriculture/Horticulture Admission through ICAR examination (6), *1 in service	6 + 1*
	Ph.D.	4 year bachelors' degree and M.Sc. in Plant Physiology. Admission through ICAR examination (2), *1 in service	2 + 1*
Biochemistry	M.Sc.	4 years B.Sc. or B.Sc. (Hons.) Agri./Horti./Forestry/ Sericulture/ B. Tech. Bio-Tech. Admission through ICAR examination	10
Microbiology	M.Sc.	4 years B.Sc. or B.Sc. (Hons.) Agri./Hort./ Forestry/ Sericulture/ B.Tech. Bio-Tech., Admission through ICAR examination (6), *1 in service	6 + 1*
	Ph. D	4 year bachelors' degree and masters' degree in Microbiology. Admission through ICAR examination (5)	5
Agricultural Statistics	M.Sc.	4 years B.Sc. or B.Sc. (Hons.) Agri./Hort./ Forestry/ Sericulture/B.Tech Bio-Tech., Marketing & Coop./B.F.Sc./ B.V.Sc. & A.H./ B. Tech. Agril. Eng. Admission through ICAR examination (6), *1 in service	6 + 1*
	Ph.D.	M.Sc. in Agricultural Statistics/ Statistics/ Biostatistics/ Mathematical Statistics/ Applied Statistics	2



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rpcau-cbsh-pusa



<https://rpcau.ac.in/>

Laboratories and Other Facilities Available

Laboratories: All the departments of CBS&H has their designated laboratories namely Molecular Biology and Molecular Breeding Laboratory; Plant Tissue Culture Laboratory; Wheat Molecular Breeding Laboratory; Functional Genomics Laboratory; Bio-imaging Laboratory; Plant Physiology and Biochemistry Laboratory, Bio-Separation Laboratory; Microbiology Laboratory, Computer and Bioinformatics Lab. All the laboratories are well equipped with the latest tools, instruments and equipment's to support students and faculties practical and research works



Molecular Biology & Biotechnology Labs



Plant Physiology & Biochemistry Labs

Microbiology Labs

Computer Lab

Other facilities available in the college: Department wise Smart Class Room for PG and Ph.D. classes, Lecture Theatre-A and B with smart podium, Conference Hall, Mahabhashya Hall, College Library, Green House/Polyhouse for research activities

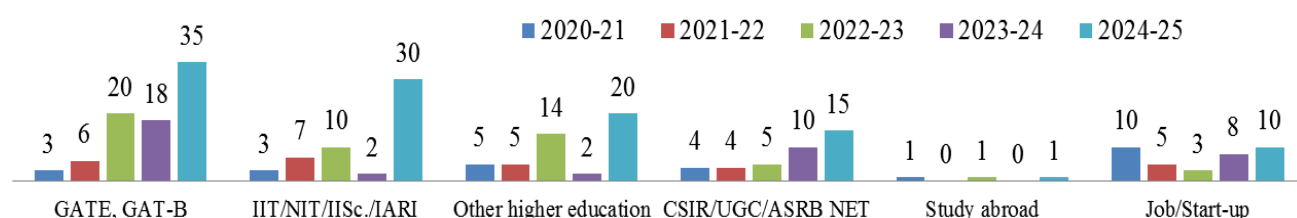


Conference Hall

Lecture Theatre A

Lecture Theatre B

Students Career Trends (Last Five Years Combined Data of UG, PG and Ph.D. Students)



Research Projects: Student and Faculties research activities are supported through University and Externally funded projects. Some of the externally funded research projects are listed below;

- ❑ **USAID/ BIRAC funded** "Development of heat tolerant, high yielding and climate resilient wheat cultivars by utilizing genomics, molecular and physiological information and resources". PI: Dr. Rajeev Kumar
- ❑ **DBT funded** "Introgression of QTL(s) for increasing grain Dimethyl arsenic acid (DMA) concentration in mega varieties of rice". PI: Dr. Bishun Deo Prasad
- ❑ **SERB-DST funded** "Shoot transcriptome based understanding of molecular mechanism for fusarium with resistance in chickpea". PI: Dr. K.L. Bhutia
- ❑ **SERB-DST funded** "Deciphering the regulatory mechanism at essential oil biosynthesis in *curcuma longa*". PI: Dr. Teikur Majaw
- ❑ **SERB-DST funded** "Brassinosteroidmediated increase in seed yield and enhanced abiotic stress tolerance". PI: Dr. Bishun Deo Prasad

Facilities available in the university: Central Instrumentation Facility, Boys' & Girls' Hostels, Gym, University Library, University Hospital, Playgrounds, Research Farms, Media Cell, Placement Cell, etc.