

## Department Profile

### Department of Biochemistry

Established in 1978 with the establishment of College of Agriculture.

- P.G Program Started from-**1983**
- Ph.D. Program Started from-**1986**

This is one of the premier department of the faculty of Agriculture and has been making significant contribution to knowledge of various aspects of Biochemistry, as well as in field of teaching, research and farmers oriented extension programmes since 1978.

The teaching activity includes course towards B.Sc. (Ag.) and M.Sc. (Ag.) and Ph.D. degree programmes. Most of the students of the department are well placed in either national or international research institutions, state departments of agriculture and in the private sectors and have continued to exhibit high standards of performance and excellence.

#### ➤ **OBJECTIVES**

To produce, scientifically and technically sound Post graduate human resource, who could take over responsibility and challenges of Biochemistry in future.

To work out the role of Biochemical Parameters in Cereals, Oilseeds, Pulses & Millets.

#### ➤ **GOAL**

Our goal is to ensure food and nutritional security of the present and future generations. The vision of the department is to become a premier and recognized centre of excellence in teaching and research. The faculties of the department are actively engaged in providing quality education to the students for transforming their lives, and making them future professionals and academicians.

#### ➤ **MISSION**


- I. To evaluate the quality parameter of oil seed, pulses, millets & Cereals, etc
- II. To impart core and conceptual knowledge of agricultural biochemistry to the students.


- III. To provide global recognition to the post-graduate and Ph.D. students through innovative research.
- IV. To use biochemical approaches for incorporating abiotic and biotic resistance in crop plants.
- V. To develop trained manpower in the area of plant biochemistry.


➤ **FACILITIES AVAILABLE FOR TEACHING**


- I. One classroom with ICT Tool.
- II. One general Classroom
- III. One Seminar room with ICT Lab
- IV. One lab for UG students, one room for PG students-and one lab for Ph.D. Students.
- V. Well equipped library with more **100** books.
- VI. One well equipped Molecular Lab for PG/Ph.D. students

**DEGREE PROGRAMMES**

Name	Dr. Pratibha Singh	
Qualification	M.Sc., Ph.D. Biochemistry	
Designation	Professor & Head	
Research Specialization	Nutritional Biochemistry	
Contact No.	9450763849	
E-mail Address	drpratibhasingh12@gmail.com	

Name	Dr. Ramesh Pratap Singh	
Qualification	M.Sc., Ph.D. Biochemistry	
Designation	Assistant Professor	
Research Specialization	Nutritional Biochemistry, Plant Biochemistry, Biochemical Parameters in Cereals, Oilseeds, Pulses & Millets	
Contact No.	9415184009	
E-mail Address	rameshpratap1996@gmail.com	

Name	Dr. Rudra Pratap Singh	
Qualification	M.Sc., Ph.D. Biochemistry	
Designation	Professor	
Research Specialization	Nutritional Biochemistry, Plant Biochemistry,	
Contact No.	7459815030	
E-mail Address	singhdrp@gmail.com	

Name	Dr. Raj Narayan Kewat	
Qualification	M.Sc., Ph.D. Biochemistry	
Designation	Professor	
Research Specialization	Nutritional Biochemistry	
Contact No.	9415917101	
E-mail Address	rnkfzd73@gmail.com	

## COURSE PROGRAMMES

### A. Degree Programmes offered in the Department

- ❖ M.Sc. (Ag.) Biochemistry
- ❖ Ph.D. (Ag.) Biochemistry

### B. Students Enrolled in the Department during last 6 years

- ❖ M.Sc. (Ag.) Biochemistry

Academic Year	2017	2018	2019	2020	2021	2022
No. of Students	3	2	5	5	6	7

- ❖ Ph.D. (Ag.) Biochemistry

Academic Year	2015	2017	2018	2022
No. of Students	3	2	5	5

### U.G. program\_1<sup>st</sup> Semester

S. No.	Course Code	Course Title	Credit Hours	Instructor Name
1	BIOCHEM 111	Fundamentals of Plant Biochemistry & Biotechnology	3 (2+1)	Dr. Ramesh Pt. Singh Dr. Pratibha Singh Dr. R.P Singh
2	BICHEM 311	Food safety and Standards	3(2+1)	Dr. Ramesh Pt. Singh Dr. Pratibha Singh

### P.G. programme\_1<sup>st</sup> Semester

1	BIOCHEM-501	Basic biochemistry	4(3+1)	Dr. Ramesh P.t Singh Dr. Pratibha Singh Dr. R.P Singh
2	BIOCHEM-503	Enzymology	3(2+1)	Dr. Ramesh Pt. Singh Dr. Pratibha Singh Dr. R.P Singh

3	BIOCHEM 599	Master's Research	variable	Major Advisor
<b>II<sup>nd</sup> Semester</b>				
1	BIOCHEM 505	Technique in Biochemistry	4(3+1)	Dr. Ramesh Pt. Singh Dr. Pratibha Singh
2	BIOCHEM 507	Plant Biochemistry	3(2+1)	Dr. Ramesh Pt. Singh Dr. Pratibha Singh
3	BIOCHEM 506		3(2+1)	
4	BIOCHEM 599	Masters Research	Variable	Major Advisor
<b>III<sup>rd</sup> Semester</b>				
1.	BIOCHEM 599	Master's Research	Variable	Major Advisor
<b>IV<sup>th</sup> Semester</b>				
1	BIOCHEM 599	Master's Research	Variable	Major Advisor
2	BIOCHEM 591	Master's Seminar	1(1+0)	Dr. Ramesh Pt. Singh
<b>Ph.D. Programme Ist Semester</b>				
1.	BIOCHEM 601	Advance Enzymology	3(2+1)	Dr. Ramesh Pt. Singh Dr. Pratibha Singh
2.	BIOCHEM 699	Doctoral Research	Variable	Major Advisor
<b>Ph.D. Programme 2<sup>nd</sup> Semester</b>				
1.	BIOCHEM 602	Advance Molecular Biology	3(3+0)	Dr. Ramesh Pt. Singh Dr. Pratibha Singh
2.	BIOCHEM 699	Doctoral Research	Variable	Major Advisor

## DEPARTMENT ACTIVITIES

### RESEARCH WORK

- FIELD TRAIL



Pearl Millet Field Trail



Okra Field Trail

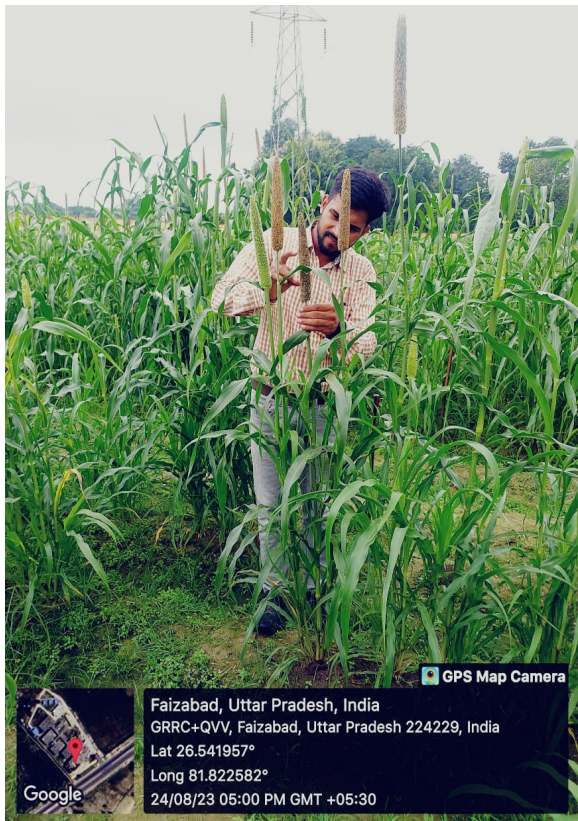


### DATA COLLECTION: PEARL MILLET FIELD TRAIL



### APPLICATION OF TREATMENT





**FIELD TRAIL DATA COLLECTION & OBSERVATIONS**

- LAB WORKS



## STUDENT'S SEMINARS & ORIENTATION



EXTRA CURRICULAR ACTIVITES



FRESHER PARTY 2022