

**Name of Scientists : Dr.Pratibha Singh, Assoc. Prof. & Head**  
**: Dr.Rudra Pratap Singh, Assoc. Prof.**  
**: Dr.R.N.Kewat, Asstt. Prof.**  
**: Dr.Ramesh Pratap Singh, Asstt. Prof.**

**Department of Agril. Biochemistry**  
**N.D. University of Agriculture & Technology, Kumarganj, Faizabad**

## Research Work (2015-2018)

**Dr.Pratibha Singh**

**(i) Name of the Project with funding agencies:**

Utilization of indigenous foods for the development of functional foods to combat micro-nutrients deficiency, Funded by UPCAR, Lucknow **Co-PI-Dr.Pratibha Singh**  
**Period**-August 2014 to February 2018 **Amount**- 15 lacs.

**(ii) Project submitted**-Nil

**(iii) Publications: 27 Nos. (NAAS Rating 3 to 6)**

**Book Chapter:** Important Phytocompounds of Fruits and Vegetables  
"Dimensions of Agricultural Science", Kalyani Publishers, Year 2018

**(iv) Any recommendation/product development:**

- 1.Nutritional composition of cauliflower leaf powder was determined and cauliflower leaf powder and bengal gram dal flour based recipes namely fara, dhokla, laddo, sweet biscuit and salty biscuits were preferred.
- 2.Four products based on fresh cauliflower leaves and bengal gram dal

## Teaching Work (2015-2018)

Semester	Name of Courses	Credit hours	Credit Load
	<b>BIOCHEM-111(H) (5th Dean Committee)</b>	<b>2 (1+1)</b>	<b>1.00</b>
	<b>HBIOCHEM -311</b>	<b>4 (3+1)</b>	<b>1.33</b>
	<b>FPT(N)-111(5th Dean Committee)</b>	<b>1 (1+0)</b>	<b>0.50</b>
	<b>BIOCHEM 513</b>	<b>3 (2+1)</b>	<b>1.50</b>
	<b>BIOCHEM 517</b>	<b>3 (2+1)</b>	<b>1.50</b>
	<b>BIOCHEM 591</b>	<b>1 (1+0)</b>	<b>1.00</b>
	<b>BIOCHEM 611</b>	<b>3 (2+1)</b>	<b>1.50</b>
	<b>BIOCHEM 613</b>	<b>2 (1+1)</b>	<b>1.00</b>
	<b>BIOCHEM 614</b>	<b>3 (3+0)</b>	<b>1.50</b>
	<b>Total Credits Load</b>		
<b>Second</b>	<b>NBIOCHEM-121</b>	<b>3 (2+1)</b>	<b>1.50</b>
	<b>FPT-121 (N) (5th Dean Committee)</b>	<b>3 (2+1)</b>	<b>1.50</b>
	<b>FGB-121</b>	<b>3 (2+1)</b>	<b>1.50</b>
	<b>BIOCHEM-522</b>	<b>3 (2+1)</b>	<b>1.50</b>
	<b>BIOCHEM-524</b>	<b>3 (2+1)</b>	<b>1.50</b>
	<b>PGS-504</b>	<b>1 (0+1)</b>	<b>0.50</b>
	<b>BIOCHEM-621</b>	<b>3 (2+1)</b>	<b>1.50</b>
	<b>BIOCHEM-622</b>	<b>2 (1+1)</b>	<b>1.00</b>
<b>Total Credits Load</b>			<b>10.50</b>

**No. of students guided**

**M.Sc. - 05**

**Ph.D. - 04**

**No. of students guiding**

**M.Sc. - 02**

**Ph.D. - 01**

### **Work Plan for 2018-19**

1. Teaching manual of concerned courses will be prepared.
2. Course lectures will be revised/upgraded based on latest research.
3. One research project to will be submitted to various funding agencies.
4. Extra classes will be taken for preparation of NET/ARS/Fellowships examination.

## **Research Work (2015-2018)**

### **Dr.Rudra Pratap Singh**

#### **(i) Name of the Project with funding agencies:**

Identification of suitable varieties and strains for saline sodic soils having more nutritional quality and less anti-nutritional factors of sawan and kodo millets using biochemical traits

Department of Biotechnology, Govt. of India, Block-2, 7th Floor, C.G.O Complex, Lodi Road, New Delhi **PI-Dr.R.P.Singh**

**Period-**February 2012 to February 2016

**Amount-** 17.74 lacs.

#### **(ii) Project Submitted-Nil**

#### **(iii)Publications: 25 Nos. (NAAS Rating 3 to 5)**

#### **(iv)Any recommendation/product development:**

On the basis of overall analysis regarding nutritional composition and anti-nutritional factors and protein profiling, ten germplasm of sawan and kodo millet were selected in above DBT funded project.

## Teaching Work (2015-2018)

Semester	Name of Courses	Credit hours	Credit Load
First	BIOCHEM 111(V) (5 <sup>th</sup> Dean Committee)	3 (2+1)	0.75
	BIOCHEM-111(H)	2 (1+1)	1.00
	HBIOCHEM -311	4 (3+1)	1.33
	FPT(N)-111(5 <sup>th</sup> Dean Committee)	1 (1+0)	0.50
	BIOCHEM 511	3 (2+1)	1.50
	BIOCHEM 519	3 (2+1)	1.50
	BIOCHEM 611	3 (2+1)	1.50
	BIOCHEM 613	2 (1+1)	1.00
	BIOCHEM 614	3 (3+0)	1.50
	<b>Total Credits Load</b>		
Second	BIOCHEM -321(N)	3 (2+1)	1.00
	NBIOCHEM-121	3 (2+1)	1.00
	FPT-121 (N) (5 <sup>th</sup> Dean Committee)	3 (2+1)	1.50
	FGB-121	3 (2+1)	1.50
	BIOCHEM-521	3 (2+1)	1.50
	BIOCHEM 523	3 (2+1)	1.50
	PGS-504	1 (0+1)	0.50
	BIOCHEM-691	1 (0+1)	1.00
	BIOCHEM-621	3 (2+1)	1.50
	BIOCHEM-622	2 (1+1)	1.00
	<b>Total Credits Load</b>		

No. of students guided                      M.Sc.     - 06                      Ph.D.     - 03

No. of students guiding                      M.Sc.     - 01                      Ph.D.     - 02

### Work Plan for 2018-19

1. Preparation of teaching manual & submission of new research project to various funding agencies

## **Research Work (2015-2018)**

**Dr.R.N.Kewat**

**(i) Name of the Project with funding agencies: Nil**

**(ii) Project Submitted- Nil**

**(iii) Publications: 30 Nos. (NAAS Rating 3 to 5)**

**(iv) Any recommendation/product development: Nil**

## Teaching Work (2015-2018)

<b>Semester</b>	<b>Name of Courses</b>	<b>Credit hours</b>	<b>Credit Load</b>
<b>First</b>	<b>BIOCHEM 111(V)</b>	<b>3 (2+1)</b>	<b>0.75</b>
	<b>HBIOCHEM -311</b>	<b>4 (3+1)</b>	<b>1.33</b>
	<b>BIOCHEM 517</b>	<b>3 (2+1)</b>	<b>1.50</b>
	<b>BIOCHEM 519</b>	<b>3 (2+1)</b>	<b>1.50</b>
	<b>FAQ-112(N)</b>	<b>2 (1+1)</b>	<b>1.00</b>
	<b>BIOCHEM 111(H)</b>	<b>2 (1+1)</b>	<b>1.00</b>
	<b>Total Credits Load</b>		
<b>Second</b>	<b>BIOCHEM -321(N)</b>	<b>3 (2+1)</b>	<b>1.33</b>
	<b>NBIOCHEM-121(H)</b>	<b>3 (2+1)</b>	<b>1.00</b>
	<b>B.Sc. (Ag.) Study tour</b>	<b>1 (0+1)</b>	<b>0.50</b>
	<b>BIOCHEM-522</b>	<b>3 (2+1)</b>	<b>1.50</b>
	<b>BIOCHEM-524</b>	<b>3 (2+1)</b>	<b>1.50</b>
	<b>Total Credits Load</b>		<b>05.83</b>

**No. of students guided**

**M.Sc. - 05      Ph.D. - 02**

**No. of students guiding**

**M.Sc. - 01      Ph.D. - 01**

### **Work Plan for 2018-19**

1. Extra classes for NET/ARS/National Fellowships will be taken.
2. Preparation of teaching manual/submission of new research project various funding agencies

## **Research Work (2015-2018)**

**Dr.Ramesh Pratap Singh**

**(i) Name of the Project with funding agencies: Nil**

**(ii) Project Submitted- Nil**

**(iii) Publications: 18 Nos. (NAAS Rating 3 to 5)**

**(iv) Any recommendation/product development: Nil**



