

Departmental Profile

1. Name of the Department- **BOTANY**
2. Year of Establishment – 1948
3. Infrastructure-
 - (a) Class Rooms available Numbers and Covered area in Sqft.
 - (b) Laboratories – Numbers and Covered area in Sqft. –
 - (c)

	No.	Size
Head cum Office Room	: 01	20x30 Feet
a. UG Lab	: 01	60x35
b. PG Lab	: 02	20x35 each
c. Research Lab	: 01	35 x 30
d. Museum	: 01	40x35
e. Green House	: 01	20x30
f. Botanical Garden	: 01	
g. Store	01	20x 35
h. Staff Room	01	20x30
i. Lecture Hall /Remedial class room	: 01	40x30
j. Tissue culture Lab	: 01	20x30
k. Departmental Library and computer section	: 01	20x30
l. Lab for plant pathology	: 01	40x35

U.G LAB, -. Size: 60'' x 35'' 2.Capacity: 50 students/class.

P.G. LABS , - M.Sc.I &II - 20''x35'– capacity: 25 students

M.Sc. III & IV - 20''x35'– capacity: 25 students

RESEARCH LAB - 35'' x 33'' Capacity: 20 students

Tissue culture Lab –

Molecular Pathology Lab.-40'' x 35''

Staff Room – 20'' x30''

Library cum Seminar Hall -40'' x30''

(c)List of Equipments lab wise

M. Sc. I and II semester Lab. N0.5

Name of Equipments

- | | |
|----------------------------|-------------------------------|
| 1. Hot air oven | 2. Incubator |
| 3. Ultra centrifuge | 4. Clinical centrifuge |
| 5. Microscope. | |

M.Sc. III and IV semester Lab (Total Equipments) - N0. 8

Name of Equipments

- | | |
|--------------------------------|--------------------------------------|
| 1.Hot air oven | 2. Incubators |
| 3. Ultra centrifuge | 4. Laminar air flow |
| 5. Deep fridge | 6.Double distilled water unit |
| 7. Electrophoresis unit | 8. Microscope |

Plant pathology and limnology Lab- Total Equipment- N0.7

Name of Equipment

1.Laminar air flow, PH Meter, Cenrtfuge Machine, Turbidity Meter, Air Sampler, Colony counter, Magnetic stirrer.

Research Lab- Total Equipments – 36

Name of Equipments

1. Deep fridge
2. Incubator
3. Ultra centrifuge
4. Spectrophotometer
5. pH meter
6. Turbidity meter .
7. Water analysis kit
8. Leaf area meter
10. Trans illuminator
11. Air sampler

12. Colony counter
13. Magnetic stirrer
14. Research Microscope

15. Concuctivity meter
16. Soil analysis Kit
17. Digital Balance
18. Chemical Balance
19. Gel Electrophoresis- Vertical
Horizontal electrophoresis

20. Flame Photometer
21. Research Microscope
22. Ultra Centrifuge
23. Bench Top Centrifuge
24. Laboratory Centrifuge
25. Digital conductivity
26. Microprocessor Spectrophotometer
27. Hot air Oven
28. Electronic Digital balance
29. Water bath
30. Autoclave
31. Double Pan balance
32. Plankton Centrifuge
33. Digital Nahalometer
35. Hot Plate rectangular
36. Digital Conductivity Meter.

(d) Details of Departmental Library

Year	Books Purchased	Journals		CD's	e resources Subscribed	e journal Subscribed	Thesis
		National	International				
2013-14	Nil	Purchased –Nil,available 22	Purchased- Nil, available-2	Nil	Nil	Nil	Nil
2014-15	Nil	Purchased –Nil,available 22	Purchased- Nil, available-2	Nil	Nil	Nil	Nil
2015-16	17	Purchased –Nil,available 22	Purchased- Nil, available-2	Nil	Nil	Nil	Nil
2016-17	Nil	Purchased –Nil,available 22	Purchased- Nil, available-2	Nil	Nil	Nil	Nil
2017-18	78	Purchased –Nil,available 22	Purchased- Nil, available-2	Nil	Nil	Nil	Nil

4. Courses offered-

Year	Courses in Botany	Intake			Actual enrollment			New courses offered
		UG Maths and bio group(1,2,3)	PG MSc Botany	Ph. D	UG	PG MSc Previous	Ph. D	
2013-14	B.Sc, M.Sc.,Ph.D	2400	50	30	1804	25	08	
2014-15	B.Sc, M.Sc.,Ph.D	2400	50	30	1945	25	08	
2015-16	B.Sc, M.Sc.,Ph.D	2400	50	30	2131	25	23	
2016-17	B.Sc, M.Sc.,Ph.D	2400	50	30	2015	25	10	M.Sc. – Elective paper-

								Limnology
2017-18	B.Sc, M.Sc.,Ph.D	2400	50	30	2179	25	08	

5. Faculty Strength

No. of Teachers Available	Year				
	2013-14	2014-15	2015-16	2016-17	2017-18
Professors	Promoted Professors - 03	Promoted Professors - 03	Promoted Professors - 03	Promoted Professors - 03	Promoted Professors - 03
Asstt. Professors	05	05	05	05	05
Regular	08	08	08	08	08
Adhoc	Nil	Nil	Nil	Nil	Nil
Contractual	Nil	Nil	Nil	Nil	Nil
Guest faculty	Nil	Nil	Nil	Nil	01
Visiting Faculty	Nil	Nil	Nil	Nil	Nil

6. Sanctioned , working strength and Vacant position (Faculty 2013-18)

Category	Sanctioned			Working			Vacant			Grant total
	Prof.	Asstt. Prof.	Total	Prof.	Asstt. Prof.	Total	Prof.	Asstt. Prof.	Total	
Regular	01	08	09	Nil	Promoted professor 03 Assistant Prof. - 05	08	01	Nil	09	09
Contract basis	Nil				Nil			Nil		

Annexure
2013-2018

Annexure 3C(c)List of Equipments lab wise

M. Sc. I and II semester Lab. N0.5

Name of Equipments

- | | |
|----------------------------|-------------------------------|
| 1. Hot air oven | 2. Incubator |
| 3. Ultra centrifuge | 4. Clinical centrifuge |
| 5. Microscope. | |

M.Sc. III and IV semester Lab (Total Equipmens) - N0. 8

Name of Equipments

- | | |
|--|--------------------------------------|
| 1.Hot air oven | 2. Incubators |
| 3. Ultra centrifuge | 4. Laminar air flow |
| 5. Deep fridge | 6.Double distilled water unit |
| 7. Electrophoresis unit 8. Microscope | |

Plant pathology and limnology Lab- Total Equipment- N0.7

Name of Equipment

1.Laminar air flow, PH Meter, Cenrtfuge Machine, Turbidity Meter, Air Sampler, Colony counter, Magnetic stirrer.

Research Lab- Total Equipments – 36

Name of Equipments

1. Deep fridge
2. Incubator
3. Ultra centrifuge
4. Spectrophotometer
5. pH meter
6. Turbidity meter .

7. Water analysis kit
8. Leaf area meter
10. Trans illuminator
11. Air sampler
12. Colony counter
13. Magnetic stirrer
14. Research Microscope

15. Conductivity meter
16. Soil analysis Kit
17. Digital Balance
18. Chemical Balance
19. Gel Electrophoresis- Vertical
Horizontal electrophoresis

20. Flame Photometer
21. Research Microscope
22. Ultra Centrifuge
23. Bench Top Centrifuge
24. Laboratory Centrifuge
25. Digital conductivity
26. Microprocessor Spectrophotometer
27. Hot air Oven
28. Electronic Digital balance
29. Water bath
30. Autoclave
31. Double Pan balance

32. Plankton Centrifuge

33. Digital Nahalometer

35. Hot Plate rectangular

36. Digital Conductivity Meter.

Annexure 3D

Details of departmental Library – List of Books transferred from main library in 2015-16(Hard copy attached)

1. List of 78 books transferred from main library in 2017-18. (Hard copy attached)

Enclosure(I) 2 -

Annexure 5 (2013-18)

List of Faculty

Name	Designation	Qualification	Pay	Total experiences	No. of years in the college
Dr. . Rekha Pimpalgaonkar Promoted Professor	Promoted Professor and Head	M.Sc. Ph .D		34 years 5 months	22 years
Dr. V.Kohli Promoted Professor	Assistant Professor	M.Sc. Ph.D		34 years 2 months	20years
Dr. R. Diwan Promoted Professor	Assistant Professor	M.Sc. Ph.D FBS		33 years 7 months	31 years
Dr.A.K. Sharma Asstt. Professor	Assistant Professor	M.Sc. Ph.D		35 years	24 years
Dr. Sangeeta Bajpai Asstt. Professor	Assistant Professor	M.Sc., M.Phil., Ph.D		29 years 3 months	25 years
Dr. N.B. Singh Asstt. Professor	Assistant Professor	M.Sc, Ph.D GATE		25 years 3 months	16 years
Dr. V.K. Kanungo Asstt. Professor	Assistant Professor	M.Sc, Ph.D,		31 years	29 years
Dr. Suneeta	Assistant	M.Sc., M.Phil.,		29 years 2 months	12 years

Patra Asstt. Professor	Professor	Ph.D, FBS NET		months	
------------------------------	-----------	------------------	--	--------	--

7. Qualification of Faculty

Category	No. of Ph.D.	No. Of M. Phil	Other	Total
Regular	08	02	GATE- 01,CSIR NET-01 Diploma in sericulture- 01 Diploma in French-01 FBS (Fellow botanical society) -02	
Contract basis				

8. Non Teaching Staff-

- (i) Sanctioned- Lab technician -03, Lab attendant – 03 Peon -02, Gardener/workshop collie- 02
- (ii) Working – List to be provided in Annexure
- (iii) Vacant - Lab technician -01, Lab attendant – 01

S. N	Session	Lab technician		Lab attendant		Peon			Workshop collie/Gardener
		Sanctioned	Working	Sanctioned	Working	Sanctioned	Working	Sanctioned	Working
1.	2013-2014	03	02- 1. Shri. L. K. Sharma 2. Shri B. R. Sahu	03	02- 1.Dhanushdhari 2.Bhuprakash	02	01 Shri Sunderlal Yadav	06	02- 1 Shri. Trilochan 2.Shri. Krishnarao
2	2014-2015	03	02 1. Shri. L. K. Sharma 2. Shri B. R. Sahu	03	02 1.Dhanushdhari 2.Bhuprakash	02	01 Shri Sunderlal Yadav	06	02 1 Shri. Trilochan 2.Shri. Krishnarao
3	2015-	03	02	03	02	02	01	06	02

	2016		1. Shri. L. K. Sharma 2. Shri B. R. Sahu		1.Bhup rakash 2. Roop narayan Rajput		Shri Pekura m		1 Shri. Trilochan 2.Shri. Krishnarao
4	2016- 2017	03	01 1. Shri B. R. Sahu	03	02 1.Bhup rakash 2. Roop narayan Rajput	02	01 Shri Pekura m	06	02 1 Shri. Trilochan 2.Shri. Krishnarao
5	2017- 2018	03	02 1.Shri B. R. Sahu 2. Shri Mukesh Tiwari	03	02 1.Bhup rakash 2.Smt. Dhanes hwari	02	01 Shri Manhar an Sahu	06	02 1 Shri. Trilochan 2.Shri. Krishnarao
6	2018- 2019	03	02 1.Shri B. R. Sahu 2. Shri Mukesh Tiwari	03	02 1.Bhup rakash 2. Smt. Dhanes hwari	02	01 1.Shri Manhar an Sahu 2.Mahes h Yadav	06	02 1 Shri. Trilochan 2.Shri. Krishnarao

9. Research Profile

Year	Research Publication	Research projects	Seminar/conference/ workshop/ synopsis	Other research and consultancy related activity-
2013- 14	17	01	31	24
2014- 15	17	01	29	14
2015- 16	Nil	01	37	17
2016- 17	40	01	43	16
2017- 18	21	01	24	15
2013- 14	Dr R Pimpalgaonkar		Participated -03	List of ph.D. work supervised as supervisor/cosupervisor -03, 1.Usha Chandel 2.Raju Mobia 3.Mamta Tondon

	Dr. Vipla Kohli		Participated -04	
	Dr. Avinash Kumar Sharma -01		Participated -04	
	Dr. Rupinder Diwan -01		Participated -02 Chair person-01	-02 1. Rashmi Devi Soni 2.Smita Sharma
	Dr, Sangeeta Bajpai-01		Participated -01	
	Dr. N.B.Singh		Participated -03 Chair person -02	
	Dr. V.K.Kanungo-06		Participated-04 Chairperson -01 Invited talk-01	-09 1.SangitaBajpai 2. AnkitaPathak 3.Avinash Kumar Sharma. 4. Sweta Gaikwad 5.RajeshKumar Mishra 6. Siddharth Chowdhury 7. Khushi Dewangan 8. Sahla Khan). 9. Deep shikha Roy
	Dr. Suneeta Patra -01		Participated -03 Invited talk -01 7days Hands on workshop- 01	-10 1.Vishal Khare 2.Seema Sahu 3. Indu Soni 4.Anita Tikaria 5.Harishankar Prasad Rajak 6. Anju Bhandari, 7.Dipti Chouhan 8.Pranita Bansode 9.Amit Kumar 10.Chanchal Chaturvedi
2014-15	Dr R Pimpalgaonkar		Participated -07	List of ph.D. work supervised as supervisor/cosupervisor -03 1.Usha Chandel 2.Raju Mobia 3.Mamta Tondon
2014-2015	Dr. Vipla Kohli		Participated -07	
2014-2015	Dr. Avinash Kumar Sharma -01		Participated -07	
2014-2015	Dr. Rupinder Diwan -01		Participated -03 Chair person -03	-02 1. Rashmi Devi Soni

				2.Smita Sharma
	Dr, Sangeeta Bajpai-01		Participated -07	
	Dr. N.B.Singh		Participated -03 Chair person -03	
	Dr. V.K.Kanungo-06	–	Participated -07 Chair person -02	1. Khushi Dewangan 2. Sahla Khan). 3. Deep shikha Roy
	Dr Suneeta Patra	Coinvestigator-01	Participated -07 Chair person -03 7 days hands on workshop- 01 Guest speaker- 02	1.Vishal Khare 2.Seema Sahu 3.Indu Soni 4.Anita Tikaria 5.Harishankar Prasad Rajak 6. Anju Bhandari, 7.Dipti Chouhan 8.Pranita Bansode 9.Amit Kumar 10.Chanchal Chaturvedi
2015-16	Dr R Pimpalgaonkar		Participated-04	List of ph.D. work supervised as supervisor/cosupervisor 1.Usha Chandel 2.Mamta Tondon
	Dr. Vipla Kohli		Participated -04	
	Dr. Avinash Kumar Sharma -01		Participated -04	
	Dr. Rupinder Diwan -01		Participated -04 Chair person-01	1. Rashmi Devi Soni 2.Smita Sharma
	Dr, Sangeeta Bajpai-01		Participated -04	
	Dr. N.B.Singh		Participated -04	
	Dr. V.K.Kanungo-06		Participated-07 Chairperson –02 Invited talk-02	1. Khushi Dewangan 2. Sahla Khan). 3. Deep shikha Roy

	Dr. Suneeta Patra - 01		Participated -06 Invited talk -01 7days Hands on workshop- 01	1.Vishal Khare 2.Seema Sahu 3. Indu Soni 4.Anita Tikaria 5.Harishankar Prasad Rajak 6. Anju Bhandari, 7.Dipti Chouhan 8.Pranita Bansode 9.Amit Kumar 10.Chanchal Chaturvedi
2016-17	Dr R Pimpalgaonkar		Participated-06	List of ph.D. work supervised as supervisor/cosupervisor 1.Usha Chandel 2.Mamta Tondon
	Dr. Vipla Kohli		Participated -06	
	Dr. Avinash Kumar Sharma -01		Participated -06	
	Dr. Rupinder Diwan -01		Participated -06 Chair person-01	1. Rashmi Devi Soni 2.Smita Sharma
	Dr, Sangeeta Bajpai-01		Participated -06	
	Dr. N.B.Singh		Participated -06	
	Dr. V.K.Kanungo-06		Participated-04 Chairperson -01	1. Khushi Dewangan 2. Sahla Khan). 3. Deep shikha Roy
	Dr. Suneeta Patra - 01		Participated -09 Guest speaker -03	1.Seema Sahu 2.Indu Soni 3.Anita Tikaria 4.Harishankar Prasad Rajak 5. Anju Bhandari, 6.Dipti Chouhan 7.Pranita Bansode 8.Amit Kumar 9.Chanchal Chaturvedi
2017-18	Dr R Pimpalgaonkar		Participated-	List of ph.D. work supervised as supervisor/cosupervisor 1.Mamta Tondon

	Dr. Vipla Kohli			
	Dr. Avinash Kumar Sharma -01		Participated -02	
	Dr. Rupinder Diwan -01		Participated -04	1. Rashmi Devi Soni 2.Smita Sharma
	Dr, Sangeeta Bajpai-01		Participated -04	
	Dr. N.B.Singh		Participated -04 Resource person-01 Chairperson-01 Invited talk- 01	
	Dr. V.K.Kanungo-06		Participated-04 Invited talk-01	1. Khushi Dewangan 2. Sahla Khan). 3. Deep shikha Roy
	Dr. Suneeta Patra -01		Participated -06 Guest speaker -01	1.Seema Sahu 2.Indu Soni 3.Anita Tikaria 4.Harishankar Prasad Rajak 5. Anju Bhandari, 6.Dipti Chouhan 7.Pranita Bansode 8.Amit Kumar 9.Chanchal Chaturvedi

Annexure to be prepared

Publication

List Of Published Research Papers

2012-2013

Botany

R. Diwan

1. P. Shrivastava & **R. Diwan** -(2012) - Seed mycoflora of five different oil yielding crops. Journal of Ecobiotechnology. Vol 4(2), 2012, special issue ISSN 2077-2464.
2. Smita Sharma & **R. Diwan** - (2012) - Traditional knowledge of Leucasephalotes as a leafy vegetable of Chhattisgarh. Journal of Eco biotechnology. Vol 4(2), 2012, ISSN 2077-0464.
3. P. Shrivastava and **R. Diwan**(2013)- Spices as biocontrol agent for some internally seed borne fungal Pathogens. National Seminar on Traditional knowledge and Biotechnology, org. by SOS in Biotechnology, Pt. RavishankarShukla University Raipur(C.G.).

4. Microbial diversity and estimation of total protein in different seed borne fungal pathogen of rice. *Journal of ecobiotechnology* vol. 4(2), pp 224-225, 2012. ISSN 2077-0464.

V.K .Kanungo,

5. 1. Acharya, V., Sharma, V., Patra, P.K., Naik, M.L. and **Kanungo, V.K.**, 2012, Plants used by Kamar, gond and halba tribe of Dhamtari district of Chhattisgarh for relief of sickle cell disease, *Recent research in science and Technology* 4 (3) : 01-03.
6. 2. Patel, D. K., and **Kanungo, V. K.**, 2012. "Eco – Environmental Study on Nutrient Removal Potential of *Eichhornia Crassipes* from Domestic Wastewater, Paripex – Indian Journal of Research, 1(5) : 251– 253.
7. 3. Patel, D. K. and **Kanungo V. K.** 2012. Study on growth, potential utility and N. P. P. of a submerged aquatic plant *Hydrilla verticillata* Casp. *Journal of Experimental Sciences (International Journal)*. 3 (5): 48 – 50.
8. 4. Sinha M. K., Patel, D. K. and **Kanungo V. K.** 2012. Medicinal plants used as antidotes in northern part of Bastar district of Chhattisgarh. *Journal of Ecobiotechnology (International Journal)*. 4 (1): 58 – 60.
9. 5. Patel, D. K. and **Kanungo V. K.** 2012. Comparative eco-physiological potential of a submerged and a free floating aquatic plant to treat domestic wastewater. *Journal of Ecobiotechnology (International Journal)*. 4 (1) : 61 – 67.
10. 6. Patel, D. K. and **Kanungo V. K.** 2012. Treatment of domestic wastewater by potential application of a submerged aquatic plant *Hydrilla verticillata* Casp. *Recent Research in Science and Technology*. . 4 (10) : 56 – 61.
11. 7. Khamparia, A., Chatterji, S.K and **Kanungo, V.K.** 2012 Effect of alkaline cement dust on soil properties and human health, *Journal of Ecobiotechnology* , 4 (2):193-195.
12. 8. Dewangan, Khushi, Acharya, V., Kanungo, V.K., Girolkar, A. 2012. Plants used in Halchhathpuja, *Journal of Ecobiotechnology* , 4 (2):201-202.
13. 9. Naidu, Vijay Laxmi, Bahadur, A.N., **Kanungo, V.K.** and Girolkar, A.K. 2012. Tree diversity in Bhupdeopur forest of Chhattisgarh, India, *Journal of Ecobiotechnology* , 4 (2):221-223.
14. 10. Soni, Prerna, Bahadur, A.N., **Kanungo, V.K.** 2012 Study of invitromicropropagation of a medicinally important plant *AdhatodavasicaNees* by auxillary bud culture. *Indian J Innovation Dev.* 1 (4) :199-202.
15. 11. Soni, Prerna, Bahadur, A.N., Tiwari, U, **Kanungo, V.K.** 2012 Invitromultiplication and phytochemical analysis of a valuable medicinal plant *Withaniasomenifera L. Dunal*, *Indian J Innovation Dev.* 1 (4) :225-228.

Suneeta Patra

16. **Suneeta Patra**, R.N.Sharma and M.L.Naik, Seed vigour in relation to crop establishment in bold and medium seeded chickpea, *Research Journal of Agricultural Sciences*, 3(4) : 919-922, July (2012), ISSN- Print-0976-1675. online – 2229-1675
17. K.K.Patel, Vishal Khare, Sarita Patel, **Suneeta Patra**, Devjyoti Majumdar, Antimicrobial resistance pattern of clinical isolates of *Pseudomonas aeruginosa* in a teaching hospital, *Columbian J. Life Sci.*, vol 13, No.1&2, 28-31 2012 ISSN -0972-0847, 2. Epidemiological profile of sickle cell disease prevalent in Chhattisgarh, Central India, *Journal of Ecobiotechnology*, Vol.4, No 2, 203-205, (2012), ISSN-2077-0464
18. P. k. Patra, Goutam Banerjee, S.K.Panigrahi and **Suneeta Patra**, Epidemiological profile of sickle cell disease prevalent in Chhattisgarh, Central India, *Journal of Ecobiotechnology*, Vol.4, No 2, 203-205, (2012), ISSN-2077-0464

List Of Published research Papers

2013-2014

Dr. R. Pimpalgaonkar

1. Usha Chandel and R.Pimpalgaonkar.

Seasonal variation of fungi in the phylloplane mycoflora of *Jatropha curcus L.* pub. In international biannual research journal of advances in plant science vol. 27, December 2014 pp. 485-488.

2. Usha Chandel and R.Pimpalgaonkar.

Efficiency of leaf exudation of *Jatropha curcus L.* on percentage spore germination inhibition of it selected phylloplane and Rhizosphere fungi. Pub. In Indian journal of science research .4 (1) pg 70-74. 2014. ISSN 2205- 0138

3. Usha Chandel and R.Pimpalgaonkar.

Studies on occurrence of rhizosphere mycoflora on *Jatropha curcus L.* journal of international organization of scientific research. Vol. 1 issue 4 pp 56-57: impact factor 1607, ISSN number ISSN 2319-2402.

Dr. Rupinder Diwan

- 1. Rashmi Devi Soni & R. Diwan** (2014). Isolation of foliar necrotic fungi from medicinally significant plant *Trigonella foenum-graecum* - Indian Journal of Scientific Research.

Dr. V. Kohli

- 2. Kohli V. and Diwan R.** Sugar utilization efficiency of certain isolates of *Alternaria alternata*. Indian J. Sci. Res. 4(1) ISSN 0976-2876 (Print) ISSN 2250-0138 (Online) pp 86-88, 2014

V.K. KANUNGO

- 3. Bajpai, Sangeeta, Sharma, A.K. and Kanungo, V.K.** 2013 Traditional homegardens : A Preserve of medicinal plants, International Journal of Herbal medicine 1(2):152-161.
- 4. Sinha, M.K., Patel, D.K. and Kanungo, V.K.** (2013) Medicinal plants used in treatment of skin diseases in Central Bastar of Chhattisgarh, India, journal of Medicinal plants 2(1):1-3.
- 5. Gaikwad, Sweta, Sharma, Kavita and Kanungo, V.K.** (2013), Comparison of changes in sugar contents in the cotyledons of *Trigonella* and *Tamarindus*. Recent Research In Science and Technology, 5(4): 29-31.
- 6. Shrivastava, Swati and Kanungo, V.K.** (2013) Ethnobotanical survey of Surguja district with special reference to plants used by Uraon tribe in treatment of Diabetes, International Journal of Herbal medicine 1 (3):127-130.

7. Shrivastava, Swati and **Kanungo, V.K.**(2013) Ethnobotanical survey of Surguja district with special reference to plants used by Uraon tribe in treatment of Respiratory diseases, International Journal of Herbal medicine 1 (3):131-134.
8. Shrivastava, Swati and **Kanungo, V.K.**(2013) Physicochemical analysis of pond water of Surgujadistrict,Chhattisgarh, India, International Journal of Herbal medicine 1 (4):35-43
9. Shrivastava, Swati and **Kanungo, V.K.**(2014) physicochemical analysis of soils in Surgujadistrict,Chhattisgarh, India, International Journal of Herbal medicine 1 (5):15-18.
10. . Shrivastava, Swati and **Kanungo, V.K.**(2014) Ethnobotanical survey of Surguja district with special reference to plants used by Uraon tribe in treatment of diarrhea, International Journal of Herbal medicine 1 (5):19-22..
11. **SharmaAvinashKumar,Bajpai,Sangita,Shrivastava, Swati and Kanungo V.K.**(2014)InventoryingMedicinal plants in Urban homegardens of Raipur , Chhattisgarh. International Journal of Herbal medicine 2 (1): 43-50.

Dr. SuneetaPatra

12. P. k. Patra, Goutam Banerjee, Jayant and **SuneetaPatra** , Effect of natural daily meal frequency on lipid profile and body mass indices in young adult medical students, International Journal of Biomedical and Healthcare Science.Vol.3,(1), pp. 51-56 (2013), ISSN online 2319-7846
13. DeeptiChauhan, A.k. Shrivastava and **SuneetaPatra** , Diversity of leafy vegetables used by tribal peoples of Chhattisgarh ,India, International Journal of Current Microbiology and Applied Sciences Vol 3,No. 4 , pp. 611-622, (2014). ISSN-2319-7706
14. A.k. Shrivastava, Anita Tikariya, **SuneetaPatra** and M.R. Sinha, Impact of stone crushing industries on leaf anomaly architech of woody plants, Indian journal of Scientific Research:49(1);127-133.(2014), ISSN: 0976-2876 (print),2250-0138 (online)
15. 4.. A.k. Shrivastava, Anita Tikariya and **SuneetaPatra** Seasonal and Floristic Biodiversity of Weeds growing in Chunkatta and Bhilai area of Chhattisgarh, India, International Journal of Current Microbiology and Applied Sciences , ISSN: 2319-7706 Volume 3 Number 6 (2014) pp. 318-326
16. . **Bajpai, Sangeeta ,Sharma,A.K. and Kanungo, V.K.**2013 Traditional homegardens : A Preserve of medicinal plants, International Journal of Herbal medicine 1(2):152-161.
17. **SharmaAvinashKumar,Bajpai,Sangita,Shrivastava, Swati and Kanungo V.K.**(2014)Inventorying Medicinal plants in Urban homegardens of Raipur , Chhattisgarh. International Journal of Herbal medicine 2 (1): 43-50.

List Of Published Research Papers 2014-2015

Dr. RupinderDiwan

1. Rashmi Devi Soni and **DiwanRupinder (2015)**. Alternaria, a dominant fungal pathogen of nutritionally & medicinally significant plant Vignaradiata. IndianJ.L. Sci. 5(1):126-128.

2. Smita Sharma & **R. Diwan** (2015). Ipomoea aquatica a Common Leafy Vegetable of Chhattisgarh v International Journal of Scientific Research in Biological Volume-2, Issue-5 ISSN: 2347-7520 Available online at www.isroset.org.
3. Smita Sharma, **DiwanRupinder** and SoniRashmi Devi (2015). Phytopathological studies on Oxalis corniculata L., a Medicinal Herb of Chhattisgarh. IndianJ.L. Sci. 5(1)108-110.
4. Rashmi Devi Soni and **Diwan R.**, and Sharma Smita (2015). Alternaria- A Dominant Fungal Pathogen of Pisum spp. IOSR Journal of Environmental Science, Toxicology and Food Technology, Vol 1, Issue 4, PP:33-35.

V.K.KANUNGO

5. Khan, Sahla, **Kanungo, V.K.** and Jadhav, S.K. 2015. Study of Aeromycoflora and related allergic diseases of Raipur, Chhattisgarh, International Journal of Lifescience Research 3(1):36-42.
6. Mishra, Rajesh, **Kanungo, V.K.** Shrivastava, Swati and Agrawal .R.K.(2014) Seasonal abundance of Zooplanktons in five ponds of Raipur city in Chhattisgarh, International Journal of Fauna and Biological studies I (6) :11-15.
7. SahlaKhan, **V.K.Kanungo** and S.K.Jadhav 2015. Survey of Aeromycoflora of commercial complexes of Raipur city and the effects of fungal spores in causing allergic diseases, Elixir Applied Botany 87:35806-35811.
8. Khan, Sahla, **Kanungo, V.K.** and Jadhav, S.K. 2015. Prevalent allergic diseases in Raipur city with special reference to Aeromycoflora of Bus stand area, International Journal of Interdisciplinary Research and Innovations 3 (4): 23-28.

Dr. SuneetaPatra

9. SeemaSahu, Kavita Sharma, **SuneetaPatra**, Aeromycological studies of *Hibiscus sabdariffa* (Roslle) in winter season, *International Journal of Scientific research*, Vol.3, Issue 7, July-2014, ISSN: 2277-8179
10. SeemaSahu, Kavita Sharma, **SuneetaPatra**, Aeromycological studies of *Hibiscus sabdariffa* (Roslle) Bioscience Research and Conservation ISBN code -9783-659-64920-2.
11. SeemaSahu, Kavita Sharma, **SuneetaPatra**, Screening of mycoflora over *Hibiscus sabdariffa* (Roslle) in winter season, *Scholars Academic Journal of Biosciences (SAJB)*, 2014;2(8):529-531, ISSN-2321-6883 (online), 2347-9515 (Print)
12. 4. DeeptiChauhan, A.k. Shrivastava and **SuneetaPatra** ,Secondary metabolites and ethanomedicinal importance of few leafy vegetables used by tribal people of Chhattisgarh, *Int.J.Pharmacol.Bio.Sci.* Vol.9(2)2015, 215-222, ISSN-0973-6808

List of publication 2015-2016

Dr R Diwan

1. **Rashmi Devi Soni and Diwan Rupinder** (2015). Alternaria, a dominant fungal pathogen of nutritionally & medicinally significant plant *Vigna radiata*. IndianJ.L. Sci. 5(1):126-128.

2. **Smita Sharma & R. Diwan (2015)**. Ipomoea aquatica a Common Leafy Vegetable of Chhattisgarh v International Journal of Scientific Research in Biological Volume-2, Issue-5 ISSN: 2347-7520 Available online at www.isroset.orgs.
3. **Smita Sharma, Diwan Rupinder and Soni Rashmi Devi (2015)**. Phytopathological studies on Oxalis corniculata L., a Medicinal Herb of Chhattisgarh. IndianJ.L. Sci. 5(1)108-110.
11. **Rashmi Devi Soni and Diwan R., and Sharma Smita (2015)**. Alternaria- A Dominant Fungal Pathogen of Pisum spp.IOSR Journal of Environmental Science, Toxicology and Food Technology, Vol 1, Issue 4,PP:33-35.
12. **Rashmi Devi Soni and Diwan R., and Sharma Smita (2016)**. Survey & Isolation of follicolous necrotic fungi from *Vigna mungo* (L.) Hepper . Indian j. Applide & Pure Bio. Vol 31 (2), 181-185.
13. **Smita Sharma, Diwan Rupinder and Soni Rashmi Devi (2016)**. Effect of antifungal activity of some angiospermic sources against *Cladosporium herbarum* isolated from *Oxalis corniculata*. Indian j. Applide & Pure Bio. Vol 31 (2), 169-176.

Dr Avinash Kumar Sharma and Dr Sangeeta Bajpai

- 1.**Bajpai, S., Sharma, A.K. and Kanungo, V.K., 2015**. Canopy architecture of plants in home gardens of Raipur Disctrict. National seminar on conservation of plant diversity; global Issue, 7 August 2015, Dr. Radhabai Govt. Navin kanya Mahavidyalaya, Raipur, C.G.
- 2.**Sharma, A.K ,Bajpai, S., and Kanungo, V.K., 2016**. Diversity of plants in urban homegardens of Raipur , chhattisgarh, National conference on Prospects in Life Science: Paradigm Shift in Teaching and research in Zoological Sciences, 2-3 March 2016, Govt. Nagarjuna P.G. College of Science, Raipur, C.G.
- 3.**Sharma, A.K. , Bajpai, S., and Kanungo, V.K., 2016**. Floristic composition of urban homegardens of Raipur, Chhattisgah. 2-4 January 2016, National seminar on Inn. And pros. Biotechnology, Pt, R.S.S. U. Raipur

Dr. V.K.Kanungo

- 1.Sahla Khan,V.K.Kanungo and S.K.Jadhav (2015). Study of Aeromycoflora and related allergic diseases of Raipur, Chhattisgarh, International Journal of Life science Research 3(1):36-42.

- 2.Sahla Khan,V.K.Kanungo and S.K.Jadhav 2015.Survey of Aeromycoflora of commercial complexes of Raipur city and the effects of fungal spores in causing allergic diseases, *Elixir Applied Botany* 87:35806-35811.
3. SahlaKhan,V.K.Kanungo and S.K.Jadhav 2015.Prevalent allergic diseases in Raipur city with special reference to Aeromycoflora of Bus stand area, *International Journal of Interdisciplinary Research and Innovations* 3 (4): 23-28.
- 4.Dewangan, K.,Acharya, V.,Kanungo, V.K. and Girolkar, A.K.(2015). Folklores andPlant, *Indian Journal of Applied & Pure Biology*, 30 (2):153-157.
- 5.Naidu, V.L.,Bahadur, A.N.andKanungo, V.K. (2015). Species diversity of vascular plants of Bhupdeopur Reserve Forest, Raigarh, Chhattisgarh,in central India, *Shodhdrishti*, 2: 2-14.
- 6.SahlaKhan,V.K.Kanungo and S.K.Jadhav 2016.Variation in Aeromycoflora of Raipur citywith special references to allergic diseases, *Indian Journal of Applied & Pure Biology*, 31 (2):131-142.
- 7.MithileshSinha,V.K.Kanungo and M.L.Naik (2016) Ethnobotany in relation to health security in district Bastar of Chhattisgarh state, India, *Int. J.Curr.Res. Biosci.Plant Biol.*3 (5) :120-126.
- 8.MithileshSinha,V.K.Kanungo and M.L.Naik (2016) Anti malarial medicinal plants used by the tribals of district Bastar, Chhattisgarh, India. *Int. Curr.TrendPharmacobiol. Med. Sci.* 1 (1):34-40.
9. MithileshSinha,V.K.Kanungo and M.L.Naik (2016). Ethnobotany in relation to livelihood security in district Bastar , Chhattisgarh state with special reference to Non timber forest produce, *Current Botany*, 7:27-33.
- 10.Deepshikha Roy and V.K.Kanungo(2016). Common weeds of family Asteraceae (Compositae) in Raipur district of Chhattisgarh, *India.Indian J. Applied & Pure Bio.*31 (2): 165-168.
- 11.Deepshikha Roy and V.K.Kanungo(2016). Common medicinal herb of family Asteraceae in Raipur district of Chhattisgarh, *India.Indian J. Applied & Pure Bio.* 31 (2): 177-180.
- 12.Sinha, MithileshKumar,Kanungo,V.K. and Naik, M.L.2016.Ethnobotany in relation to traditional herbal home remedies for diabetes in tribals of Bastar Chhattisgarh, *Research expression*1 (1):122-127.

Dr.Suneeta Patra

- 1.Deepti Chauhan, A.K.Shrivastava and **Suneeta Patra**, Secondary metabolites and ethnomedicinal importance of few leafy vegetables used by tribal people of Chattisgarh, *Int.J.Pharmacol.Bio.Sci.*Vol.9 (22) 2015, 215-222, ISSN-0973-6808
- 2.A. K. Shrivastava, **S. Patra** and A. Tikariya, Uses of weeds as Medicine in Durg District of Chhattisgarh, *Indian J. Applied & Pure Bio.* Vol. 31(1), 91-104 (2016).
- 3.Indu Soni, Preeti Tiwari, **Suneeta Patra**, Study of fungal diversity with special reference to winter season, *International journal of scientific and research publication*, Vol 6, Issue 7, July2016, ISSN 2250-3135

4. Seema Sahu, Dr Kavita Sharma and Dr. **Suneeta Patra** Seasonal variation of Aeromycological of *Hibiscus sabdariffa* (Roslle), *Indian J. Applied & Pure Bio.* Vol. 31(2), 123-130 (2016). ISSN-0970-2091

5. Harishankar, Dr. Preeti Tiwari and **Dr. Suneta Patra** and Mary Kusum Ekka, Study of Intramural aeromycoflora of zoological museum of Govt. Nagarjuna (P.G.) college of science, Raipur, C.G., India, *Indian J. Applied & Pure Bio.* Vol. 31(2), 143-150 (2016). ISSN-0970-2091

6. Anita Tikariha, A.K. Shrivastava and **S. Patra**, Phytosociological Analysis of Weeds in Durg District of Chhattisgarh” *IOSR Journal of Environmental Science, Toxicology and Food Technology (IOSR-JESTFT)* e-ISSN: 2319-2402, p-ISSN: 2319-2399. Volume 10, Issue 10 Ver. III (Oct. 2016), PP 14-21

7. Indu Soni, **Suneeta Patra** and Preeti Tiwari, Study of aeromycoflora in Indoor environment of college building, *Indian J. Applied & Pure Bio.* Vol. 31(2), 151-158, 2016, ISSN-0970-2091

LIST OF PUBLICATIONS 2016-2017

Dr. R. Pimpalgaonkar

1. Mamta and **Rekha Pimpalgaonkar**, Effect of growth regulators on *in vitro* shooting and rooting of *Solanum xanthocarpum* Schradt & Wendl. And its micropropagation for future medicinal applications, *Indian J. Applied & Pure Bio.* Vol. 32 (2), 131-139 (2017).
2. Smt. Mamta, **Dr. Rekha Pimpalgaonkar** & Jikasmita Dalei, Qualitative evaluation of phytochemicals and antifungal activity of *Solanum xanthocarpum* (Schrad. & Wendl.), *IOSR Journal of Pharmacy and Biological Sciences (IOSR-JPBS)*, e-ISSN: 2278-3008, p-ISSN 2319-7676 Volume 11, Issue 3 Ver III (May- June 2016, PP 99-104).
3. Ekka Mary Kusum, Preeti Tiwari, **Rekha Pimpalgaonkar** and Harishankar Prasad, Contribution of Orason tribe of Jashpur District in the Traditional preparation of medicines, *Indian J. Applied & Pure Bio.* Vol. 31 (2), 117-121 (2016).
4. Usha Chandel and **Rekha Pimpalgaonkar** (2017) Dominant species of *Aspergillus* isolated from phylloplane of *Jatropha curcus*. L, Flora and fauna.

Dr. (Smt.) Rupinder Diwan

4. Rashmi Devi Soni and **Diwan R.**, and Sharma Smita (2016). Survey & Isolation of follicolous necrotic fungi from *Vigna mungo* (L.) Hepper. *Indian J. Applied & Pure Bio.* Vol. 31 (2), 181-185. **Impact factor 3.0**
5. Smita Sharma, **Diwan Rupinder** and Soni Rashmi Devi (2016). Effect of antifungal activity of some angiospermic sources against *Cladosporium herbarum* isolated from *Oxalis corniculata*. *Indian j. Applied & Pure Bio.* Vol. 31 (2), 169-176. **Impact factor 3.0**
6. Rashmi Devi Soni and **Diwan R.**, and Sharma Smita (2016). Survey, Screening and Isolation of Fungal Pathogens from Certain Leguminous Crops of Chhattisgarh. *DCSI* Vol. 15 No. 1: 50- 55. Peer review journal.
7. Smita Sharma, **Diwan Rupinder** and Soni Rashmi Devi (2016). Survey and screening of follicolous necrotic fungi from *cassia tora*; wild leafy vegetable crop of Chhattisgarh. *DCSI* Vol. 15 No. 1: 56 – 60. Peer review journal.
8. Rawte Hemlata and **Diwan R.** (2016). Evaluation of production potential and biological efficiency of *Pleurotus spp.* *An International Multidisciplinary e-Journal* Vol. 1, Issue- 11. **Impact factor 2.102**
9. Rashmi Devi Soni and **Diwan R.** (2017). Evaluation of Fungal Diversity in Certain Leguminous Crops of Chhattisgarh. *Indian J. Sci Res.* 12 (2): 145-149. **Impact factor 0.13**
10. Rashmi Devi Soni and **Diwan R.** (2017) Survey & isolation of follicolous necrotic fungi from certain Legume crops. Journal of Pt. Ravishankar university part B (science). (**Accepted for publication**)

11. Smita Sharma, **Diwan Rupinder** and Kohli **V. (2016)**. "Evaluation of Angiospermic sources against *Alternaria alternata* isolated from *Amaranthus hybridus* L. a popular leafy diet of Chattisgarh" Journal of Pt. Ravishankar university part B (science). (**Accepted for publication**)

Dr. V.K.Kanungo

1. Shahla Khan, **V.K. Kanungo** and S.K. Jadhav Variation in Aeromycoflora of Raipur city with special reference to allergic diseases. *Indian J. Applied & Pure Bio* Vol.31(2), 131-142 (2016).
2. Mithlesh Kumar Sinha, **V.K.Kanungo** and M.L.Naik Ethnobotany inRelation to Health Security In District Bastar of Chhattisgarh State, India. *Int.J.Curr,Res.Biosci,Plant Biol.* 2016,3(5):120-126.
3. Mithlesh Kumar Siha, **V.K.Kanungo** and M.L.Naik Anti-malarial Medicinal Plants Used by the Tribals of District Bastar, Chhattisgarh, India *Ind.JCurrent Trend.Pharmaco Biol.Med.Sci.*(2016)1(1)34-40
4. Mithlesh Kumar Sinha, **V.K.Kanungo**, M.L.Naik . Ethnobotany in relation to livelihood security in district Bastar of Chhattisgarh state with special reference to non-timber forest produces. *Current Botany* 2016,7,27-33 <http://scienceflora.org./journals/Index.php/cb/doi:10.19071/cb2016v7.3053>
5. Deepshikha Roy and **V.K.Kanungo** Common weeds of Family Asteraceae (Compositae) in Raipur District of Chhattisgarh, India. *Indian J. Applied & Pure Bio.* Vol.31(2),165-168 (2016).
6. Deepshikha Roy and **V.K. Kanungo** Common medicinal herbs of family Asteraceae in Raipur District of Chhattisgarh, India, *Indian J. Applied & Pure Bio.* Vol.31(2),177-180 (2016).
7. S.Pandey, A.N.Bahadur, **V.Kanungo** and U. Tewari. Rapid micropropagation of *Andrographis paniculata* (Nees, From Nodal Explants to study effect of various plant growth regulators. *Indian J. Sci.Res.*7(2):149-157,2017.
8. M.K.Sinha, **V.K.Kanungo**, M.L.Naik. Ethno Botany in Relation to Traditional Herbal Home Remedies for Diabetes in Tribals of Bastar Chhattisgarh. Department of Botany, Govt Nagarjuna PG College Science, Raipur (C.G.), *Research expression*, Vol 1 issue 1 September 2016, ISSN- 2456-3455
9. Pandey, S.; Bahadur, A.N.; **Kanungo, V.** and Tewari, U. (2017) Rapid micro propagation of *Andrographis paniculata* Nees. From nodal explant to study effects of various plant growth regulators, *Indian J.Sci.Res.* 7 (2):149-157.
10. Naidu, Vijaylaxmi; **Kanungo, V.K.** and Bahadur, A.N. 2017. Ethnomedicinal plant diversity in Bhupdeopur reserve forest area of district Raigarh, Chhattisgarh, *Indian J.Sci.Res.* 13 (2): 104-106.
11. Mishra, Sonal; Prasad, S.V.K. and **Kanungo, V.K.** 2017. Impact of coal fly ash as soil amendment on physico-chemical properties of soil, *Indian J.Sci.Res.* 13 (2): 15-20.
12. Kumar, Trilok; Prasad, S.V.K. and **Kanungo, V.K.** 2017. Impact of coal fly ash on growth of *Withania somnifera* (L.) Dunal. *Indian J.Sci.Res.* 13 (2): 25-28. ISSN No. 0976-2876.
13. Naidu, Vijaylaxmi; Bahadur, A.N. and **Kanungo, V.K.** 2017. Ethnobotanical study of Bhupdeopur reserve forest area of district Raigarh, Chhattisgarh in central India, with reference to livelihood security, *Flora and Fauna*, 23 (special issue): 63-70.

Dr. Suneeta Patra

1. A. K. Shrivastava, **S. Patra** and A. Tikariya, Uses of weeds as Medicine in Durg District of Chhattisgarh, *Indian J. Applied & Pure Bio.* Vol. 31(1), 91-104 (2016). Impact factor-3
2. Indu Soni, Preeti Tiwari, **Suneeta Patra**, Study of fungal diversity with special reference to winter season, International journal of scientific and research publication, Vol 6, Issue 7, July 2016, ISSN 2250-3135, Impact factor-3.27

3. Seema Sahu, Dr Kavita Sharma and Dr. **Suneeta Patra** Seasonal variation of Aeromycological of *Hibiscus sabdariffa* (Roslle), *Indian J. Applied & Pure Bio.* Vol. 31(2), 123-130 (2016).ISSN-0970-2091,Impact factor-3.0
4. Harishankar, Dr. Preeti Tiwari and **Dr. Suneta Patra** and Mary Kusum Ekka, Study of Intramural aeromycoflora of zoological museum of Govt.Nagarjuna (P.G.) college of science, Raipur, C.G., India, *Indian J. Applied & Pure Bio.* Vol. 31(2), 143-150 (2016).ISSN-0970-2091,Impact factor-3.0
5. AnitaTikariha, A.K. Shrivastava and **S. Patra**,Phytosociological Analysis of Weeds in Durg District of Chhattisgarh” *IOSR Journal of Environmental Science, Toxicology and Food Technology (IOSR-JESTFT) e-ISSN: 2319-2402,p- ISSN: 2319-2399.Volume 10, Issue 10 Ver. III (Oct. 2016), PP 14-21*,Impact factor- 3.462
6. Indu Soni,**Suneeta Patra** and Preeti Tiwari, Study of aeromycoflora in Indoor environment of college building, *Indian J. Applied & Pure Bio.* Vol.31(2), 151-158, 2016, ISSN-0970-2091,Impact factor-3.0
7. A.K.Shrivastava, **Suneeta patra** and Deepti Chouhan, Biochemical studies of weed plants used as leafy vegetables by tribes and people of Chhattisgarh with special reference to the secondary metabolites confer nutraceutical properties,*Indian J. Applied & Pure Bio.* Vol.32(1), 13-18, 2017,ISSN-0970-2091,Impact factor-3.0
8. Mr Amit Kumar and **Dr Suneeta Patra**, Qualitativa determination and quantitative estimation of phytochemicals in *Madhuca latifolia*.Roxb.*Indian J. Applied & Pure Bio.* Vol.32(1), 59-67, 2017,ISSN-0970-2091,Impact factor-3.0
9. Harishankar, Dr. Preeti Tiwari and **Dr. Suneta Patra** , Study of extramural aeromycoflora of Banjari temple,*Indian J. Applied & Pure Bio.* Vol.32(1) , 89-96, 2017,ISSN-0970-2091,Impact factor-3.0
10. Ms Anju Bhandari , **Dr Suneeta Patra** and Dr. P.K.Patra, Study of anti-sickling property of *Tinospora cardifolia* , *Indian journal of scientific Research*, 12(2):165-168,2017,ISSN No.:0976-2876 (print), 2250-0138 (on line), Impact factor-0.13
11. Mr Amit Kumar and **Dr Suneeta Patra**, Qualitative and quantitative analysis of secondary phytochemical in *Gymnema sylvestre*,*Indian journal of scientific Research*, 12(2):150-156, 2017,ISSN No.:0976-2876 (print), 2250-0138 (on line), Impact factor-0.13
12. Mr Harishankar, Dr. Preeti Tiwari and **Dr. Suneeta Patra**, Study of intramural aeromycoflora of Banjari temple, , *Indian journal of scientific Research*,12(2):183-188,2017, ISSN No.:0976-2876 (print), 2250-0138 (on line), Impact factor-0.13
13. Bhaskar V.K.S. Lakkakula, Henu Kumar Verma, Mona Choubey, **Suneeta Patra**, Prafulla Kumar Khodiar, Pradeep kumar Patra ,Assessment of renal function in Indian patients with sickle cell disease, *Saudi Journal of kidney diseases and transplantation*, 2017: 28 (3): 524-53,ISSN No.1319 – 2442, RG Impact factor – 0.74
- 14.Deepti Chauhan , A.K. Shrivastava and **Suneeta Patra**, Secondary metabolites and antioxidants screening of *Lablab purpureus* (L.) sweet in different solvents,*Adv.Pharmacol.Toxicol.*19 (1) 2018,45-58, !SSN- 0973-2381 (UGC List Serial No. 1455).
- 15.A.K.Shrivastava,P .Bansode and **S. patra**, Plants used by tribal people of Chhattisgarh for Gynecological disorders, *Indian J. Applied & Pure Bio.* Vol. 33 (1), 63-73, 2018, ISSN-0970-2091.
- 16.Deepti Chauhan , A.K. Shrivastava and **Suneeta Patra** , Comparative phytochemical analysis of the aqueous leafy extact of some important leafy vegetables from Durg (Chhattisgarh), *Life Science Bulletin* - June 2018 Vol. 15(1) : 07-10 ISSN (Print) : 0973 5453 ISSN (Online) : 2321-7952

S.No.	Name	Year	Title of the project	Funding agency
01	Dr. Suneeta Patra Co Investigator	Duration ,Feb 2015-2017,	Amount-Rs 3,00,000 “Role of growth factors of <i>Tinospora cordifolia</i> in lymphocyte culture. F.No.-MS-28/202057/XII/14-15/CRO, Dated 9 Feb-2015 Code:202057	UGC
02	Dr.Suneeta Patra Principal investigator	Duration, March 2017-February 2019	Amount Rs. 4,10,000, “Screening of anti-sickling property of some plants used for the treatment of sickle cell anaemia”,No.-3077/CGCOST/MRP/2017, Dated-31.03.17	CG COST

Seminar/ Conference/ Workshop/ Symposia organised

Name of the Department	Year	Title of the Seminar/ Workshop	Funding agency
Botany	2013-2014	Training program on mushroom cultivation –13-01- 2014	UGC CPE grant
Botany	2014-2015	7 days skill development and environmental protection programme-8-10-2014 to 14-10-2014	UGC CPE grant
Botany	2015-2016		
Botany	2016-2017	Work shop on Dermatoglyphics on 25-07- -2016	
Botany	2017-2018		

10. Teaching learning methods adopted by the department List the methods.

1. Chalk and duster
2. Over head projector
3. Power point projector
4. Field visits
5. Charts
6. Specimens
7. Online educational tutorial

11. Achievements of students (Provide details separately)

Year	Examination	Co curricular activities	Extracurricular activities
2013-14	M.Sc Sem IV- Cash prize of 11000/- by Mahila Seva Samiti for securing highest marks	Mushroom cultivation – 13-01-2013, Botanical excursion trip – 25-01-2013	Social campaigning programme for screening of sickle cell disease and it's awareness in school going children at Jamgoan village district Durg – 28.9.2013 & Poster presentation and demonstration by P.G.students of- Mushroom cultivation Biogas production Best out of waste Play on social evils- Alcoholism and Illiteracy
2014-15	M.Sc Sem IV- Cash prize of 11000/- by Mahila Seva Samiti for securing highest marks State PSC -01 -Mithilesh	Training programme on mushroom cultivation –13-01- 2014 , Study tour at Ghatarani Jaitmai– 25-01-2014	18. Social campaigning programme for screening of sickle cell disease and it's awareness in school going children at Jamgoan village district Durg – 17-10-2014 2. Guest lectures of – 1. Padma shree Dr. Lalji Singh , Retd vice chancellor B.H.U., Fellow CCMB- 6-11-2014 2. Dr. S.C. Panda- Retd. Professor Botany- 8-10-2014 3. Dr. Somkant Sharma – Retd. Professor Botany 8-10-2014 4. Dr.M.L.Naik - Retd. Professor Botany 14-10-2014 5. Dr. A. Girokar - Principal, Govt. D.B.Girls' P.G.

			College, Raipur, C.G. 14-10-2014 6. Dr. K.K. Sahu – Scientist, IGKV, Raipur 13-10-2014
2015-16	M.Sc Sem IV- Cash prize of 11000/- by Mahila Seva Samiti for securing highest marks	.5 days mushroom training Science day celebration - Rangoli competition . One day educational visit to Govt. Ayurvedic college, Raipur, C.G.	Science day celebration - Rangoli competition - Science exhibition - Poster and charts preparation, Article writing competition on Conservation of environment 4-4-15, Photography competition on Our environment 5-4-15, Speech competition on Our culture and trees 6-4-15
2016-17	M.Sc Sem IV- Cash prize of 11000/- by Mahila Seva Samiti for securing highest marks		. Basant pancham celebration – 01-02-2017 Science day celebration presentation of models and charts- 27 Feb 2017 ,Article writing competition on Role of youth in conservation of natural resources - 31-03-2017 , Photography competition on Nature -30-03-2017
2017-18	-Divya Ledwani M.Sc Sem IV- Cash prize of 11000/- by Mahila Seva Samiti for securing highest marks NET -02 Pankaj Tiwari,Gaurav	MSc (Botany)II & III- third prize Model competition on science day	
2018-2019	-NET -02 Akansha,Tupendra		

1. Research scholars receiving the fellowship

Name of research scholar	JRF	SRF	Project fellow	Other
Mrs Mamta Tondon				Rajiv Gandhi
Shahla Khan				Pt. R.S.U fellow
Ritu Kunjam				Pt. R.S.U fellow
Pankaj Tiwari			Project assistant	
Raksha Goel			Project assistant	

Annexure enlist separately

12. Achievements of Teacher.

Year	Achievement of Teachers	Enclose Details Separately
2013-14	Dr V.K.Kanungo-	Technical session Chaired in National Conference on Traditional knowledge & Biotechnology, 22-24 th November 2013, organized by S.O.S. in Biotechnology, Pt. R.S. University, Raipur.
	Dr. N.B.Singh	In National Conference on "Traditional Knowledge and Biotechnology" (Organized by SOS in Biotechnology, Pt, R.S.U., Raipur from Nov. 22-24, 2013)
2014-15	Dr. Suneeta Patra	Guest Speaker- Basics of stem cell, National CME on biochemical aspects of inborn error of metabolism , 17 January 2015 & 2 nd AMBICON Chhattisgarh state chapter, Dept. of Biochemistry, Late Shri Lakhiram Agarwal memorial medical college, Raigarh C.G. -GM Food , CGCOST, Science center Raipur C.G.
2015-16	Dr V.K.Kanungo -	Technical session Chaired -National Seminar on Innovations and Prospects in Biotechnology, January 2-4, 2016. Organized by S.O.S. in Biotechnology, Pt. R.S. University, Raipur. - National conference on Prospects in Life sciences: Paradigm shift in teaching and research in Zoological sciences, March 2-3, 2016 Organized by Govt. N.P.G. College of Science, Raipur Resource person- National Seminar on Conservation of plant Diversity: Global Issues, 7 th August, 2015. Radha Bai Naveer Kanya Mahavidyalaya, Raipur. -National conference on Modern life science Perspective and Prospects, 4-5 December, 2015

		Government College ,Bhakhara
	Dr N B. Singh-	<p>Resource person Capacity Building Workshop on Laboratory Techniques and Maintenance (18-20 November, 2015)</p> <p>-In 18th National Conference of Indian Aerobiological Society (Organized by Tumkur University, Karnataka from Sept. 28-30, 2015)</p> <p>- National Seminar on “Innovations and Prospects in Biotechnology” (Organized by SOS in Biotechnology, Pt, R.S.U., Raipur from January 02-04, 2016)</p> <p>Chair person- National Conference on “Prospects in Life Sciences” : Paradigm Shift in Training and Research in Zoological Sciences (02-03 March 2016)</p>
	Dr.Suneeta Patra	<p>Resource person Capacity Building Workshop on Laboratory Techniques and Maintenance (18-20 November, 2015)</p> <p>Chair person- National seminar on Innovation & prospects in Biotechnology, 2-4 January 2016, SOS in Biotechnology, PT.R.S.U. Raipur,C.G.</p> <p>National Conference on “Prospects in Life Sciences” : Paradigm Shift in Training and Research in Zoological Sciences (02-03 March 2016)</p>
2016-17	Dr V.K.Kanungo	<p>Technical session Chaired</p> <p>National seminar on Advances in Environmental Science & Technology, January 23-24, 2017, Organized by Govt. Digvijay Autonomous P.G. college, Rajnandgaon , C.G</p> <p>Resource person- National seminar on Present Scenario in phytomicrobial aspects beneficial to mankind, 27-28 January, 2017, Govt. W.W. Patankar Girls P.G. college, Durg, C.G.</p>
	Dr. Suneeta Patra	Guest faculty - 3 rd Global congress on sickle cell disease, Odisha hematology and Global sickle cell disease network, 21 st -24 th February - 2017, Bhubaneshwar.

		<p>-Behavioral Impact of animals and microorganisms on Human life and their environment, Interdisciplinary national seminar on 3-4 February 2017, Dept. of Zoology, Govt. Dr.W.W. Patankar Girls' P.G. College, Durg, C.G.</p> <p>-Stem cells, National CME on Stems cell & its application, 12th April 2017, Dept.of Anatomy, Raipur Institute of Medical Science, Gram - Gondhi, Raipur</p>
2017-18	Dr.N.B.Singh	<p>Technical session Chaired</p> <p>-XX National Conference on Aerobiology-2018 (Organized by Sant Gadge Baba Amravati University, Amravati, Maharashtra from Jan. 29-31, 2018)</p>
	Dr.Suneeta Patra	<p>Guest speaker- ZSC 3rd National conference on Prospects of Innovation in Life sciences and Socio economic challenges, 2-3 Dec. 2017, Dept. of Zoology CMD P.G. College, Bilaspur C.G.</p>

13. Research scholars enrolled/ Ph. D. Awarded

Year	Name of Supervisor	Research Scholars enrolled	Research completed & Ph.D. awarded
2013-14	Dr.R.Pimpalgaonkar	Raju Mahobia	Ph.D awarded 19.06.2013
2013-14	Dr. R.Diwan	Smita Sharma	
	Dr V K Kanungo		Ph.D awarded 04 1.Ph.D. awarded to SangitaBajpai 2.Ph.D. awarded to AnkitaPathak 3.Ph.D. awarded toAvinash Kumar Sharma). 4.Ph.D.awarded to Sweta Gaikwad).
	Dr. Suneeta Patra	1.Anju Bhandari 2.Deepti chouhan 3.Pranita Bansode	

2014-15	Dr.R Pimpalgaonkar	Usha Chandel	June 2014
	Dr V K Kanungo		Ph.D awarded 03 1.Ph.D. awarded to Swati Shrivastava). 2.Ph.D. awarded to Rajesh Kumar Mishra). 3.Ph.D. awarded to Siddharth Chowdhury.
	Dr Suneeta Patra	1.Amit Kumar 2.Chanchal Chaturvedi	
2015-16	Dr Suneeta Patra		Ph.D awarded-01 Vishal Khare
2016-17			
2017-18	Dr.R.Diwan		Ph.D awarded-01 Smita Sharma
	Dr V K Kanungo		Ph.D awarded – 03 1.Ph.D. awarded to Khushi Dewangan 2.Ph.D. awarded to Sahla Khan 3. Ph.D. awarded to Deep shikha Roy
	Dr. Suneeta Patra		Ph.D awarded-03 1.Seema sahu 2.Indu Soni 3.Anita Tikariya

Annexure enlist separately

Name of Supervisor	Title of the Research	Year of Completion/ Ph.D. awarded
Dr. R. Pimpalgaonkar	1.Raju Mahobia Amospheric studies of Bioerosols of Navapara (Rajjim), Distt. – Raipur with	26 / 7 / 2014

	<p>special reference to fungal spores</p> <p>1. Usha Chandel Studies on ecological relationship and interaction of fungi in the phylyplane and rhizosphere of <i>Jatropha curcus</i> ,L.</p> <p>2. Mamta Tandon Mycropopagation and phytochemical astimation of <i>Solanum xanthocaroum</i>. (schrad nad wendl).</p> <p>5.Merry Kusum Ekka Documentation of herbal medicine : preparation method and remedies, pesticide in Orrisa and Jashpur (C.G.)</p>	
Dr R.Diwan	<p>1. Smita Sharma Evaluation of pathogenic abilities of certain fungi isolated from common leafy vegetable crops of Chhattisgarh.</p> <p>2.Rashmi Devi Soni Characterisation of phytopathogenic abilities of leaf fungi of common legume crops from Chhattisgarh</p>	<p>09/10/2017</p> <p>28/08/2018</p>

Dr.V.K.Kanungo	<p>1.Sangita Bajpai Diversity and Species structure of Home gardens in some villages of Raipur district of Chhattisgarh.</p> <p>2.Ankita Pathak Analytical studies on the effect of cement dust on soil properties and uptake of different metals in surrounding area of cement plant in Chhattisgarh.</p> <p>3.Avinash Kumar Sharma Inventorying diversity of plants in some homegardens of Raipur, Chhattisgarh with special reference to Medicinal and Endangered plants.</p> <p>4.Sweta Gaikwad (2014) Study of Nutritional value, Biochemical changes and utilization of cotyledonary contents in Trigonella and Tamirandus seeds during germination</p> <p>5.Swati Shrivastava).2015) Ethnobotanical study in Surguja district of Chhattisgarh with reference to Uraon tribe.</p> <p>6. Rajesh Kumar Mishra). (2015) Diversity and seasonal abundance of Zooplankton in some ponds of Raipur, Chhattisgarh.</p> <p>7. . Siddharth Chowdhury (2015) Ethnobotanical study of the mixed forest of Makdi block of Bastar district with reference to Tribes).</p> <p>8. Khushi Dewangan (2017) Ethnobotanical survey of Raipur, Chhattisgarh with special reference to plants described in folklores and used in festivals),</p> <p>9. Sahla Khan (2017) “Survey of Aeromycoflora and related Allergic diseases of Raipur, Chhattisgarh”.</p> <p>10. Deep shikha Roy (2017) "Study of species composition and phytochemistry of some abundantly growing plants of family Asteraceae in Raipur district of Chhattisgarh."</p>	<p>22 / 1/2014</p> <p>08 / 10/ 2014</p> <p>03 /11/ 2014</p> <p>20 / 11/ 2014</p> <p>02/1 / 2015</p> <p>10 / 8 /2015</p> <p>18 / 8 /2015</p> <p>12 /9 /2017</p> <p>9/ 10 /2017</p> <p>9 / 1/ 2018</p>
----------------	---	--

Dr. Suneeta Patra	<p>1.VishalKhare Isolation and characterization of <i>Pseudomonas</i> species from patients with respiratory tract infection with special reference to carbapenem resistant.</p> <p>2.Seema Sahu Pt.RavishankarUniversity,CoSuperior(Botany) Topic-relation between aeromycoflora and leaf surface mycoflora of <i>Hibiscus sabdariffa</i>(Roselle).</p> <p>3.Indu Soni Topic-Study of indoor aeromicroflora of Pt.Sundarlal Sharma library in Pt.RSU Raipur, C.G.</p> <p>19. Anita Tikaria Topic-Study of Industrial soil and its ecophysiological effect on the plants of Bhilai Industrial area</p> <p>5. Anju Bhandari, Topic- Study of Antisickling activities of herbs traditionally used by tribal people in the treatment of sickle cell disease.</p> <p>6.Dipti Chouhan, Topic- Medicinal and nutritional analysis of some leafy vegetables of Durg District</p> <p>7.Pranita Bansode, Topic- Ethnobotanical analysis of herbs Gynecological disorders used by tribal people of Chhattisgarh</p> <p>8.Amit Kumar - Topic – Studies on in vitro propagation of <i>Madhuca indica</i> (<i>J.Koenig ex L. /J.F. Macbr.</i>) (<i>MAHUA</i>)</p> <p>9.Chanchal Chaturvedi-, Topic- Effect of <i>Tinospora cordifolia</i>, Miers and <i>Aloe vera</i> , Mill on plant extracts rich in secondary metabolites on in vitro Culture of lymphocyte</p>	<p>27June2016,</p> <p>09-10-2017</p> <p>16-01-2018</p> <p>25-05-2018</p> <p>Thesis submitted</p> <p>Thesis submitted</p> <p>Thesis submitted</p>
-------------------	---	--

14. Board of studies Meeting-

Year	Date of meeting	Resolution passed	Remarks
2013-14	28-10-2013	Question paper pattern will be modified. Objective type, Short answer type and Long answer type question will be asked of 10, 15, 25 marks respectively.	
2014-15	14-03-2014	Resolution passed that new patten of question paper will be introduced in class B.Sc-I.	
2015-16	18-04 -2015	Resolution passed that in Post Graduate level project work was made compulsory for the students .Decision was taken to introduce new elective paper Lemnology.	
2016-17	12- 03 -2016	Decision was taken to introduce internal assessment of 20 marks in Post Graduate level.	
2017-18	02-05-2017	In post Graduate level question paper patter was modified ad decision was taken to ask very short answer question, Short answer question and long answer question of 8,24,48 marks respectively.	
2018 – 19	11-04-2018	In Post Graduate level new course content viz- Population Ecology Paper –II of M.sc- III Semester and Aeromycoflora of different seasons in 4 th paper of Semester –IV was introduced.	

15. Selection of students for admission-

Year	Total application received	Admission given to candidate of minimum % on merit
2013-14		

2014-15		
2015-16		
2016-17		
2017-18		

16. Selection of contract appointment of teachers Nil

Year	No. of Posts vacant	Application received	Appointment given to candidate on merit
2013-14	1 professor	-	-
2014-15	01	-	-
2015-16	01	-	-
2016-17	01	-	-
2017-18	01	44	Dr. Kavita Sharma
2018-19	01	32	Dr. Shahla Khan

17. Extension activities done by the Department-

Year	Name of extension activity	Target group	Funds received from
2013-14	<p>1. Guest lecture by</p> <p>1. Dr S.S.Ali-13.8.2013</p> <p>2. Dr. M. P. Thakur- 13.8.2013</p> <p>3. Dr. S.S.Sandhu – 16.8.2013</p> <p>4. Dr. T. Shrinivasu – 16.8.2013</p> <p>5. Dr. Prasad A. Wadegaonkar-17.8.2013</p> <p>6. Dr. Arti Guhey – 19.8.2013</p> <p>7. Dr. J.S. Kachuwaha – 23.8.2013</p> <p>8. Dr. Prakash Saluja – 23.8.2013</p> <p>9. Dr. Vaibhav Acharya – 23.8.2013</p> <p>10. Dr. M.L.Naik – 24.8.2013</p> <p>11. Dr. P.K.Patra – 24.8.2013</p>	U.G.and P.G.students	U.G.C., CPE
	<p>2. Social campaigning programme for screening of sickle cell disease and it's awareness in school going children at Jamgoan village dist. Durg – 28.9.2013 & Poster presentation and demonstration by P.G.students of-</p> <p>Mushroom cultivation</p> <p>Biogas production</p> <p>Best out of waste</p> <p>Play on social evils- Alcoholism and Illiteracy</p>	school going children	U.G.C., CPE
	<p>3. Mushroom cultivation – 13-01 2013</p>	U.G.and P.G.students	U.G.C., CPE
	<p>4. Botanical excursion trip – 25-01-2013</p>		

	5.	Students of B.Sc. –II	U.G.C., CPE
2014-15	<p>20. Socialcampaigning programme for screening of sickle cell disease and it's awareness in school going children at Jamgoan village dist. Durg – 17-10-2014</p> <p>2. Guest lectures of –</p> <p>1.Padma shree Dr. Lalji Singh , Retd vice chancellor B.H.U., Fellow CCMB-6-11-2014</p> <p>2. Dr. S.C. Panda- Retd. Professor Botany- 8-10-2014</p> <p>3. Dr. Somkant Sharma – Retd. Professor Botany 8-10-2014</p> <p>4. Dr.M.L.Naik - Retd. Professor Botany 14-10-2014</p> <p>5. Dr. A. Girokar - Principal, Govt. D.B.Girls' P.G. College, Raipur, C.G. 14-10-2014</p> <p>6. Dr. K.K. Sahu – Scientist, IGKV, Raipur 13-10-2014</p> <p>3.Training programme on mushroom cultivation –13-01- 2014</p> <p>4. Study tourat Ghatarani Jaitmai– 25-01-2014</p> <p>5.Information was given by P.G.students for awareness for sickle cell disease, water borne and food borne disease at Jamgoan village dist. Durg-17-10-2014</p> <p>6.Exhibition of best out of waste - 14-01- 2014</p> <p>7. Plantation in Botanical garden and college premises was done.</p> <p>8.Wall magazine was prepared throughout the session.</p> <p>9.Alumni meet was organized on 8-1-2015</p>	<p>school going children</p> <p>U.G.and P.G.students</p> <p>U.G.and P.G.students</p> <p>B.Sc. II year students</p> <p>school going children</p> <p>U.G.and P.G.students</p>	
2015-16	1.Teacher's Day celebration 5-9-16	U.G.and	

	<p>2. One day educational visit – Agriculture college Raipur 6-10-16 -Devleelabiotech.lab 6-10-16</p> <p>3. Formal Inauguration of Botanical society 23-11-16</p> <p>4. 5 days mushroom training programme IGKV, Raipur, C.G. 18-22 Jan 16</p> <p>5. Saraswati puja celebration</p> <p>6. Science day celebration - Rangoli competition - Science exhibition - Poster and charts preparation</p> <p>7. One day educational visit to Govt. Ayurvedic college, Raipur, C.G.</p> <p>8. Article writing competition on Conservation of environment 4-4-15</p> <p>9. Photography competition on Our environment 5-4-15</p> <p>10. Speech competition on Our culture and trees 6-4-15</p> <p>11. Rastriya Ekta day celebration</p> <p>12. Swachhata abhiyan</p> <p>13. Welcome and farewell</p> <p>14. Valedictory function of Botanical Society</p> <p>15. Publication of 22nd Botanical essay was done by P.G. students under the guidance of faculty members of the department.</p>	<p>P.G.students</p> <p>P.G.students</p> <p>U.G.and P.G.students</p> <p>P.G.students</p> <p>P.G.students</p>	
2016-17	<p>1. Free polythene day under the endeavor of Rastriya Swachhata abhiyan – 3-9-2016</p> <p>2. Educational trip to Siyadevi, Balod – 15-10-2016</p> <p>3. Teacher's Day celebration-5-9-16</p> <p>4. Inauguration of Botanical society by Dr. M.L.Naik and release of 23rd Botanical essay -8.09.16</p> <p>5. Saraswati puja celebration- 13.2.15</p> <p>6. Basant panchami celebration – 01-02-2017 Science day celebration, presentation of models and charts- 27 Feb 2017</p> <p>7. Article writing competition on Role of youth in conservation of natural resources - 31-03-2017</p> <p>8. Photography competition on Nature -30-03-2017</p> <p>9. Oral presentation by students (competition) 01-04-2017</p> <p>10. Tips to qualify NET examination given by Alumni Pushpa Kanwar – 06-04-2017</p>	<p>P.G.students</p> <p>U.G.and P.G.students</p>	

	<p>11.Plantation in Botanical garden was done by faculty members and students –05-07-2016,</p> <p>12.Publication of Botanical essay was done by P.G. students under the guidance of faculty members of the department.</p> <p>13.Programme on Personality development and to skill in Spoken English was organized – 20-10-2016.</p> <p>The guest speaker was Dr. Rita Soni, Asst. professor, English, Govt. N.P.G college of Science, Raipur, C.G.</p> <p>14.Lectuer followed by Work shop on Dermatoglyphics was conducted by the guest faculty Dr. R. Shanti Iyer, Jain University, Bengluru on 25-07 2016.</p>		
2017-18	<p>1.On 05/07/2017 and 01-08-2017 the Botanical society of Department of Botany, conducted a plantation programme</p> <p>2.Independence day Celebration(15-08-2017)</p> <p>3. Botany department took part in this abhiyan on 26 August 2017.</p> <p>4. Teacher's Day Celebration (05-09-2017)</p> <p>5. Formal Inauguration of Botanical society 2017 -2018</p> <p>6. NET Preparation (19 -11-2017)</p> <p>7. Annual function (11-01-2018)</p> <p>8. Basant Panchami(22-01-2018)</p> <p>9. Republic Day Celebration(26-01-2018)</p> <p>10. Cash prize Distribution Ceremony(30-01-2018)</p> <p>11. Lecture by an Ex- Student (30-01-2018)</p> <p>12. Maha Shivaratri Pooja (13-02-2018)</p> <p>13. National Science Day-28thFebruary</p> <p>14. The students of M.Sc IV Semester(Botany) have a small group of study</p> <p>15. the students of M.Sc. IV semester Botany organized a welcome party on 14th October 2017 for the juniors</p>	P.G. students	

Annexure- Report & Photographs

18. Facilities of recreation activities-**List of facilities available with the Department**

Year	Recreation facilities developed	Funds received from
2013-14	Teachers Day celebration, Tour	For Tours U.G.C. and C.P.E
2014-15	Tour, plantation, Saraswati puja celebration, Teachers Day Celebration.	For Tours U.G.C. and C.P.E
2015-16	Tour, Saraswati puja , Plantation, Teachers Day Celebration.	For Tours U.G.C. and C.P.E
2016-17	Tour, Teachers day celebration, Independence Day celebration, Swachhta Abiyan, Anand mela	For Tours U.G.C. and C.P.E
2017-18	Tour, Plantation Programme, Independence day celebration, Basant Panchami celebration Republic day celebration, Swachhta Abiyan, Anand mela	For Tours U.G.C. and C.P.E

19. Innovative reforms of the Department-**List of innovative practices under way in the department**

Year	Innovative reforms taken	Target group	Impact of reform
2013-14	Botanical Essay	Students 45 Faculty members 08	Continued
2014-15	Botanical Essay	Students 43 Faculty members 08	Continued
2015-16	Botanical Essay	Students 44 Faculty members 08	Continued
2016-17	Botanical Essay	Students 45 Faculty members 08	Continued
2017-18	Botanical Essay	Students 46 Faculty members 08	Continued

20. Achievements of the Department-

S. No.	Items	Status before autonomy 2008- 2013	Status at present 2013-2018
1	UG intake	2007- 250- 2009- 400	400
2	PG intake	Seats-15- 2009- 10-25 Micro-40, Biotechnology-	25 seats Micro ,Biotechnology shifted to

		30 -60 Botany Botany	seprate dept.
3	UG Programmes	Botany Continued CBZ, CBG CBD till 2006 CBBT,CBMB CBZ ,CBD,CBG,CBBC Same continued	After 2013- 2014 CBZ,CBG,CBBT,CBMB,CBBC Same continued
4	PG Programmes	Same continued	Same continued
5	M.Phil/ Ph.D.	M.Phil - Nil/ Ph.D. Research centre since last 40 years (1972) 10- Ph.D. awarded	M.Phil- Nil/Ph.D. Research Centre 20- Ph.D. Awarded
6	Research publication	10 Research papers published in reputed journals	25 Research papers published in reputed journals
7	Research projects		P.I./Co P.I.- 06
8	Organizing seminar/ Conferences/training programme	01 Natonal seminar 2011	Nation workshop-01 and state level workshop-3
9	Attending seminar/ conference	50	220
10	Extension activities		As per- Annx 17
11	Consultancy	Authentic - Nil	Authentic – Nil
12	Faculty	2008 – 2013 Prof-04 ,Asst. Prof-05 Total = 9	Prof- nil Promoted professor -03 Asst Prof.- 5 Total 8 2017-18- 8+1 2018-19 – 8+1
13	Faculty with Ph.D.	With Ph.D. -07 Without PH.D. -02	With Ph.D.-08 Without Ph.D. -Nil
14	Infrastructure	1) 2 Rooms constructed by U.G.C Grant; Handover to Microbiology. 2) Construction of Research Lab. By U.G.C. grant. Room no- 46	1) Renovation of Green house of Botanical Garden. 2)Renovation of M.sc and M.sc Final, Pathology Lab. Biotec Lab Handover to Biotec Dept.
15	Library	No. Of Books- 91 Journals – Nil	No. of Books -91 Transferred from main Library
16	Result analysis	Reported earlier	Reported
17	Placement	6	4
18	Any other	1)Parents teachers meeting not taken	1)Parents teachers meeting Started.

		2) Feed back from students not Taken	2)Feed back from students Started.
--	--	--------------------------------------	------------------------------------

20. Innovative reforms of the Department-

List of innovative practices under way in the department

Year	Innovative reforms taken	Target group	Impact of reform
2013-14	-Botanical Essay -Socialcampaigning programme for screening of sickle cell disease and it's awareness in school going children at Jamgoan village dist Durg - 17-10-2014	Students 45 Faculty members 08	
2014-15	-Botanical Essay -Socialcampaigning programme for screening of sickle cell disease and it's awareness in school going children at Jamgoan village dist Durg - 17-10-2014	Students 43 Faculty members 08	
2015-16	Botanical Essay	Students 44 Faculty members 08	
2016-17	Botanical Essay	Students 45 Faculty members 08	
2017-18	Botanical Essay	Students 46 Faculty members 08	
2018-2019	Botanical Essay screening of sickle cell disease and it's awareness for college students, faculty members office staff	college students, faculty members office staff- 200	

RESULTS (In terms of pass out)

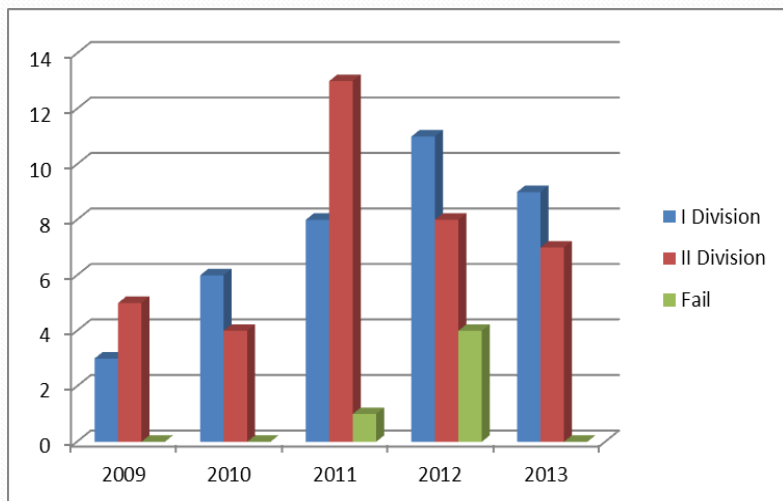
B.Sc.Part I- 60%

B.Sc.Part II- 80%

B.Sc. Part III- 90%

M.Sc.I,II,III,IV Semester- 95%

Results of P.G. 2009- 2013



Seminar / Conference/ Symposium/Workshop attended Abstract published (2014-2018)

Dr. R. Pimpalgaonkar

1. Capacity Building Workshop on Laboratory Techniques and Maintenance (18-20 November, 2015)

Chaired/Co Chared sessions in National Seminars/Conferences :

1. In National Conference on “Traditional Knowledge and Biotechnology” (Organized by SOS in Biotechnology, Pt, R.S.U., Raipur from Nov. 22-24, 2013)
3. In National Seminar on “Innovations and Prospects in Biotechnology” (Organized by SOS in Biotechnology, Pt, R.S.U., Raipur from January 02-04, 2016)
4. In National Conference on “Prospects in Life Scieces” : Paradigm Shift in Training and Research in Zoological Sciences (02-03 March2016)

Convenor-

1. Skill development programme & environmental protection programme 8-14 october 2014, Dept of Botany, Govt. N.P.G. College of science, Raipur , C.G
2. Capacity building workshop on laboratory techniques & maintenance, 18-20 November 2015, Govt N.P.G. College of Science ,Raipur,C.G.

Co convenor –

National seminar on enhancement strategies in quality education and research, Nov. 26-27 2015, IQAC cell, Govt. N.P.G.College of Science, Raipur, C.G.

Research papers presented in Seminars/Conferences :

1. National Seminar on “Innovations and Prospects in Biotechnology” (Organized by SOS in Biotechnology, Pt, R.S.U., Raipur from January 02-04, 2016)
2. National Conference on “Prospects in Life Scieces: Paradigm Shift in Training and Research in Zoological Sciences” Organized by Dept. of Zoology, Govt. N.P.G.College of Science, Raipur on 02-03 March 2016.
3. Symposium Organized by Dept. of Biochemistry, Pt, J.N.M. Medical College, Raipur on 25th July 2014.
4. Symposium Organized by Dept. of Biochemistry, Pt, J.N.M. Medical College, Raipur on 25th July 2015. 10. Symposium Organized by Dept. of Biochemistry, Pt, J.N.M. Medical College, Raipur on 25th July 2016.
5. Symposium Organized by Dept. of Biochemistry, Pt, J.N.M. Medical College, Raipur on 25th July 2017.

Workshop Attended :

1. RUSA sponsored Workshp on “Quality Education”. Organized by Govt. N.P.G.College of Science, Raipur on June 23, 2015.
2. RUSA sponsored Workshp on “Governance, Leadership and Management”. Organized by Govt. N.P.G.College of Science, Raipur on June 24, 2015.
3. RUSA sponsored Workshp on “Examination Reforms”. Organized by Govt. N.P.G.College of Science, Raipur on June 25, 2015.
4. RUSA sponsored Workshp on “Strategies Development and Deployment to Achieve Acces, Equity and Excellence in Higher System”. Organized by Govt. N.P.G.College of Science, Raipur on June 26, 2015.
5. RUSA sponsored Workshp on “Carries Guidance”. Organized byGovt. N.P.G.College of Science, Raipur on June 27, 2015.
6. “Capacity Building Workshop on Laboratory Techniques and Maintenance”. Organized byGovt. N.P.G.College of Science, Raipur on NOv. 18-20, 2015.
7. RUSA sponsored Workshp on “Strategies and Chalanges in Implementing Extension of Higher Education and Improvement in Quality of Higher Education”. Organized byGovt. N.P.G.College of Science, Raipur on June 20, 2017.
8. RUSA sponsored Workshp on “Examination Reform”. Organized by Govt. N.P.G.College of Science, Raipur on June 24, 2017.
9. National Workshp on “Plagiarism and IPR: A Prime Concern for Academia”. Jointly Organized by Pt. Sunderlal Sharma Library and SOS in Library and Inf. Science, Pt R.S.U. and Govt. N.P.G.College of Science, Raipur on June 24, 2017.

Dr Vipla Kohli

ABSTRACTS:

1. Survey and isolation of several foliar mycoflora in some popular leafy vegetable crops of Chhattisgarh. (Under ZSC) NPG college of Science, Raipur, 3 March, **2016**.
2. Evolution of fungal diversity in certain leguminous crops of Chhattisgarh. Under (ZSC), zoology dept. ,NPG college of Science, Raipur, 3 March, **2016**.
3. Biochemical estimation of amylase enzyme by *Alternaria alternata*. Prospects in life Sciences: Paradigm shift in teaching and research in zoological sciences, NPG Colleges of sciences, Raipur, 3 march,2016.(zoological society of chhattisgarh).
4. Antifungal effect of some plant extracts against *Alternaria alternata*. National seminar, Govt. Girls college , Durg, January 2017.

SEMINARS / WORKSHOPS/SYMPOSIUM

1. National symposium on “Digital medicine”. J.N.M. Medical College, Raipur, 25th July, **2014**.
2. Skill development and environmental protection programme sponsored by UGC organized by Govt. NPG College, Raipur. 8-14th October (seven days), **2014**.
3. Workshop (RUSA sponsored workshop) on “Quality Education”, 23rd June **2015**.
4. Workshop (RUSA sponsored workshop) on “Governance, Leadership and Management”, 24th June **2015**.
5. Workshop (RUSA sponsored workshop) on “Examination reforms”, 25th June **2015**.
6. Workshop (RUSA sponsored workshop) on “Strategies development and development to achieve access, equity and excellence in higher system”, 26th June **2015**.
7. Workshop (RUSA sponsored workshop) on “Career guidance”, 27th June **2015**.
8. National symposium on “Role of Quality in healthcare management”. J.N.M. Medical College, Raipur, 25th July, **2015**.
9. National seminar on Conservation of plant diversity: Global issues sponsored by UGC. Dr. Radhabai Govt. Naveen Kanya Mahavidalaya, Raipur. 7th August, **2015**.
10. Capacity Building workshop on Laboratory techniques and Maintenance. Govt. NPG College of Science, Raipur. 18- 20 November, **2015**. **Organizing Committee member**
11. National Conference on Prospects in life sciences: Paradigm Shift in Teaching and Research in zoological Sciences. Govt. NPG College of Science, Raipur. 2-3 march, 2016.
12. National symposium on “Genetic basis of Haematological disorders with special emphasis on sickle cell disease”. J.N.M. Medical College, Raipur, 25th & 6th July, **2016**.
13. RUSA sponsored workshop on Road Map of quality enhancement. Govt. NPG College of Science, Raipur, 21st June **2017**.
14. RUSA sponsored workshop on Examination Reform. Govt. NPG College of Science, Raipur, 22nd June **2017**.
15. RUSA sponsored workshop on Strategies and challenges in implementing semester system and Choice Based Credit System (CBCS). Govt. NPG College of Science, Raipur, 23rd June **2017**.
16. RUSA sponsored workshop on Collection of Data, analysis and report preparation. Govt. NPG College of Science, Raipur, 24th June **2017**.
17. National workshop on “Capacity building in higher education: Use of library resources. Govt. NPG College of Science, Raipur, 27th June **2017**.

Dr. Avinash kumar Sharma

SEMINARS / WORKSHOPS/SYMPOSIUM attended

- I. Symposium on Role of Bioinformatics in Medicine,**
 - On July 25th, 2013
 - Organised By: Pt. J.N.M. Medical College, Raipur (C.G)

- II. National seminar On “Consevation Of Economically Important Endangered Plant Species Of Chhattisgarh Region”,**
 - On October 25-26, 2013
 - Organised By: Dept. of Biotechnology & Microbiology, Bhilai Mahila Mahavidyalaya, Bhilai

- III. National Conference on Traditional Knowledge & Biotechnology,**
 - On November 22-24, 2013
 - Organised By: SOS in Biotechnology, Pt. R.S.U., Raipur (C.G)

- IV. Symposium on Digital Medicine**
 - On July 25, 2014
 - Organised By: Department of Biochemistry, Pt. J.N.M. Medical College, Raipur, C.G.

- V. National symposium on Role of Quality control in health care management**
 - On July 25, 2015
 - Organised By: Pt. J.N.M. Medical College, Raipur, C.G.

- VI. RUSA sponsored workshop in Quality education,**
 - On June 23, 2015
 - Organised By: Govt. Nagarjuna P.G. College of Science, Raipur, C.G.

- VII. RUSA sponsored workshop in Quality education,**
 - On 23 June 2015,
 - Organised By: Govt. Nagarjuna P.G. College of Science, Raipur, C.G.

- VIII. RUSA sponsored workshop in Governance, leadership and Management,**
 - On 24 June 2015,
 - Organised By: Govt. Nagarjuna P.G. College of Science, Raipur, C.G.

- IX. RUSA sponsored workshop in Examination reforms,**
 - On 25 June 2015,
 - Organised By: Govt. Nagarjuna P.G. College of Science, Raipur, C.G.

- X. RUSA sponsored workshop in Strategies development and deployment to achieve access equity and excellence in higher system,**

- On 26 June 2015,
- Organised By: Govt. Nagarjuna P.G. College of Science, Raipur, C.G.

XI. RUSA sponsored workshop in Career Guidance,

- On 27 June 2015,
- Organised By: Govt. Nagarjuna P.G. College of Science, Raipur, C.G.

XII. National seminar on Conservation of plant diversity: Global issues,

- On 7 August 2015,
- Organised By: Dr. Radhabai Govt. Navin kanya Mahavidyalaya, Raipur, C.G.

Dr. R. Diwan

1. **P. Shrivastava and R. Diwan-** Species as biocontrol agent for some internally (2013) seed borne fungal Pathogens. Paper accepted in proceedings Traditional knowledge and Biotechnology, org. by SOS in Biotechnology, Pt. Ravishankar Shukla University Raipur (C.G.) 2013

2. **V. Kohli and R. Diwan-** Effect of certain antibiotics & fungicides against (2013) *Curvalaria lunata* proceedings Traditional knowledge and Biotechnology, org. by SOS in Biotechnology, Pt. Ravishankar Shukla University Raipur (C.G.)2013

3. **Smita Sharma & R. Diwan (2013) -** *Ipomoea aquatica* a common leafy vegetable of Chhattisgarh Paper accepted in proceeding Traditional knowledge and Biotechnology, org. by SOS in Biotechnology, Pt. Ravishankar Shukla University Raipur (C.G.)2013, National Conference on - Traditional Knowledge & Biotechnology Org. by SOS in Biotechnology Pt. R.S. University, Raipur (C.G.) on Nov. 22-24, 2013.

a) Participated as a co-chairperson of one session.

b) Paper presentation

4. National workshop ' Hands on DNA Technologies (8-11 Jan, 2013) org by Govt. NPG College of Science, Raipur, served as vice Chairperson of the workshop.

5. Worked on Organizing committee as vice chair person in National Workshop on- Hands on DNA Technologies 8-11 Jan, 13 Department of Botany, Govt. NPG College of Science, Raipur (Vice Chair person) worked as Vice Chair person committee members.

6. Worked as -Incharge Head, Department of Biotechnology (UG) for the session(2012~2013).

- a) Constituted Microbiotech Society for the students.
- b) organized an exhibition on Biotech(8-11 Jan,2013) sponsored by Devleela Biotech
- c) one day education tour for the students to Devleela Biotech 15.01.2013
- d) Organized two days training program me on important biotech practicals related to their syllbus for the student (7-8 feb, 2013)
- e) Persistently tried to develop the department.

Abstract Published (2012- 2015).

1. **V. Kohli and R.Diwan(2013)**- Effect of certain antibiotics & fungicides against *curvalaria lunata* National Seminar on Traditional knowledge and Biotechnology, org. by SOS in Biotechnology, Pt. Ravishankar Shukla University Raipur(C.G.).
2. **Smita Sharma & R. Diwan (2013)**. *Ipomoea aquatica* a common leafy vegetable of Chhattisgarh. National Seminar on Traditional knowledge and Biotechnology, org. by SOS in Biotechnology, Pt. Ravishankar Shukla.
3. **Smita Sharma , R. Diwan & S. Uprit (2014)**. :Evaluation of Protein Content from Some Medicinally Significant Leafy Vegetable of Chhattisgarh paper presented 6th World Ayurveda Congress 3rd to 7th Nov. New Delhi **Abstract ID : 585**.
4. **Smita Sharma & R. Diwan (2015)** Phytopathological survey of *Amaranthus hybridus*; A popular leafy diet of people of Chhattisgarh. paper presented National Seminar on Radha Bai Navin Kanya College Raipur.
5. **Rashmi Devi Soni and Diwan R. (2015)**. Alternaria, a dominant fungal paper presented pathogen of Vigna radiate. National Seminar on Radha Bai Navin Kanya College Raipur.
6. **Rashmi Devi Soni and Diwan R., and Sharma Smita (2015)**. Survey, Screening and Isolation of Fungal Pathogens from Certain Leguminous Crops of Chhattisgarh National Seminar on SOS in Biotechnology, Pt. Ravishankar Shukla University Raipur(C.G.).
7. **Sharma, R. Diwan and Rashmi Devi Soni (2015)**. Survey and screening of follicolous necrotic fungi from *cassia tora* ; wild leafy vegetable crop of chhattisgarh National Seminar on SOS in Biotechnology, Pt. Ravishankar Shukla University Raipur(C.G.).

8. **Rashmi Devi Soni and Diwan R., and V. Kohali (2016).** Evaluation of Fungal Diversity in Certain Leguminous Crops Of Chattisgarh . National Conference on The Second Chhattisgarh b Congress Of the Zoological Society of Chattisgarh (ZSC)

9. **Sharma, R. Diwan and V. Kohli (2016).** Survey & Isolation of Several Foliar Mycoflora in Some Popular Leafy b Vegetable Crops of Chattisgarh. National Conference on The Second Chhattisgarh b Congress Of the Zoological Society of Chattisgarh (ZSC)

Dr N.B.Singh

Resource person / SubjectExpert :

1. Capacity Building Workshop on Laboratory Techniques and Maintenance (18-20 November, 2015)
2. . Science day function on 12.03.2018 in Govt. D.K. P.G. College, Balodabazar on 13.02.2008)

Chaired/Co Chared sessions in National Seminars/Conferences :

1. In National Conference on “Traditional Knowledge and Biotechnology” (Organized by SOS in Biotechnology, Pt, R.S.U., Raipur from Nov. 22-24, 2013)
2. In 18th National Conference of Indian Aerobiological Society (Organized by TumkurUniversity, Karnataka from Sept. 28-30, 2015)
3. In National Seminar on “Innovations and Prospects in Biotechnology” (Organized by SOS in Biotechnology, Pt, R.S.U., Raipur from January 02-04, 2016)
4. In National Conference on “Prospects in Life Scieees” : Paradigm Shift in Training and Research in Zoological Sciences (02-03 March2016)
5. In XX National Conference on Aerobiology-2018 (Organized by Sant Gadge Baba Amarawati University, Amaravati, Maharastra from Jan. 29-31, 2018)

Research papers presented in Seminars/Conferences :

1. In National Conference on “Traditional Knowledge and Biotechnology” (Organized by SOS in Biotechnology, Pt, R.S.U., Raipur from Nov. 22-24, 2013)
2. In 18th National Conference of Indian Aerobiological Society (Organized by TumkurUniversity, Karnataka from Sept. 28-30, 2015)

3. In 19th National Conference of Indian Aerobiological Society (Organized by Bose Institute, Kolkata from Dec.09-11, 2016)

4. In XX National Conference of Indian Aerobiological Society (Organized by Sant Gadge Baba Amarawati University, Amaravati, Maharashtra from Jan. 29-31, 2018).

Seminar / Conferences Attended :

1. UGC sponsored National Conference on “ Conservation of Economically Important Endangered Plant Species of Chhattisgarh Region” (Organized by Bhilai Mahila Mahavidyalay, Bhilai from 25-26 Oct. 2013).

2. National Seminar on “ Hands on DNA Technologies” (Organized by Govt. Nagarjuna P.G. College of Science, Raipur from 08-1 Jan. 2011).

3. National Conference on “Traditional Knowledge and Biotechnology” (Organized by SOS in Biotechnology, Pt, R.S.U., Raipur from Nov. 22-24, 2013)

4. 18th National Conference of Indian Aerobiological Society (Organized by TumkurUniversity, Karnataka from Sept. 28-30, 2015)

5. UGC sponsored National Seminar on “ Conservation of Plant Diversity: Global Issues” (Organized by Dr. Radhabai Givt. Naveen Kanya Mahavidyalaya, Raipur from 07 Jan. 2015).

6. National Seminar on “Innovations and Prospects in Biotechnology” (Organized by SOS in Biotechnology, Pt, R.S.U., Raipur from January 02-04, 2016)

7. National Conference on “Prospects in Life Sciences: Paradigm Shift in Training and Research in Zoological Sciences” Organized by Dept. of Zoology, Govt. N.P.G.College of Science, Raipur on 02-03 March 2016.

8. 19th National Conference of Indian Aerobiological Society (Organized by Bose Institute, Kolkata from Dec.09-11, 2016)

9. In XX National Conference on Aerobiology-2018 (Organized by Sant Gadge Baba Amarawati University, Amaravati, Maharashtra from Jan. 29-31, 2018) 29.

Symposium Attended :

1. Symposium Organized by Dept. of Biochemistry, Pt, J.N.M. Medical College, Raipur on 25th July 2013.
2. Symposium Organized by Dept. of Biochemistry, Pt, J.N.M. Medical College, Raipur on 25th July 2014.
3. Symposium Organized by Dept. of Biochemistry, Pt, J.N.M. Medical College, Raipur on 25th July 2015.
4. Symposium Organized by Dept. of Biochemistry, Pt, J.N.M. Medical College, Raipur on 25th July 2016.
5. Symposium Organized by Dept. of Biochemistry, Pt, J.N.M. Medical College, Raipur on 25th July 2017

Workshop Attended

1. Workshop on “ Biotechnological Experiments-Demonstration “ College, Raipur on 25th July 2017.. . RUSA sponsored Workshp on “Quality Education”. Organized by Govt. N.P.G.College of Science, Raipur on June 23, 2015.
2. RUSA sponsored Workshp on “Governance, Leadership and Management”. Organized by Govt. N.P.G.College of Science, Raipur on June 24, 2015.
3. RUSA sponsored Workshp on “Examination Reforms”. Organized by Govt. N.P.G.College of Science, Raipur on June 25, 2015.
4. RUSA sponsored Workshp on “Strategies Development and Deployment to Achieve Acces, Equity and Excellence in Higher System”. Organized by Govt. N.P.G.College of Science, Raipur on June 26, 2015.
5. RUSA sponsored Workshp on “Carries Guidance”. Organized byGovt. N.P.G.College of Science, Raipur on June 27, 2015.
6. “Capacity Building Workshop on Laboratory Techniques and Maintenance”. Organized byGovt. N.P.G.College of Science, Raipur on NOv. 18-20, 2015.
7. RUSA sponsored Workshp on “Strategies and Chalanges in Implementing Extension of Higher Education and Improvement in Quality of Higher Education”. Organized byGovt. N.P.G.College of Science, Raipur on June 20, 2017.

8. RUSA sponsored Workshp on “Examination Reform”. Organized by Govt. N.P.G.College of Science, Raipur on June 24, 2017.

9. National Workshp on “Plagiarism and IPR: A Prime Concern for Academia”. Jointly Organized by Pt. Sunderlal Sharma Library and SOS in Library and Inf. Science, Pt R.S.U. and Govt. N.P.G.College of Science, Raipur on June 24, 2017.

Abstracts Published :

1. Seasonal variations in the Aeromycoflora of Mentha arvensis L. Published in Souvenir of 13. 18th National Conference of Indian Aerobiological Society (Organized by TumkurUniversity, Karnataka from Sept. 28-30, 2015).

2. In 19th National Conference of Indian Aerobiological Society (Organized by Bose Institute, Kolkata from Dec.09-11, 2016)

3. Survey of Aeromycoflora Over Mentha Arvensis L. Plants During Winter Season in Relation to Mateorological Factores Published in Souvenir Cum Abstract Book of In XX National Conference on Aerobiology-2018 (Organized by Sant Gadge Baba Amarawati University, Amaravati, Maharastra from Jan. 29-31, 2018).

Awards /Prize :3rd prize in poster presentation in 5th National Confernce of Indian Academy of Allergy organised by Bharti Vidyapeth Deemed University, Pune 33.

Guest Lecture Delivered :

1. Topic : Photosynthesis in Govt. College Dongargaon, 2017

2. Topic : Development and Sterilization of Sporogenous Tissues in Bryophytes in Kalyan P.G. College, Bhilai Nagar on 07 April, 2018.

Dr. Sangeeta Bajpai

PAPER PRESENTED /ABSTRACT PUBLISHED/ SEMINAR AND CONFERENCES ATTENDED

1) National symposium on Role of Quality control in health care management, 25 july 2015, Pt. J.N.M. Medical College, Raipur, C.G.

- 2 RUSA sponsored workshop in Quality education, 23 June 2015, Govt. Nagarjuna P.G. College of Science, Raipur, C.G.
- 3 RUSA sponsored workshop in Quality education, 23 June 2015, Govt. Nagarjuna P.G. College of Science, Raipur, C.G.
- 4 RUSA sponsored workshop in Governance, leadership and Management, 24 June 2015, Govt. Nagarjuna P.G. College of Science, Raipur, C.G.
- 5 RUSA sponsored workshop in Examination reforms, 25 June 2015, Govt. Nagarjuna P.G. College of Science, Raipur, C.G.
- 6 RUSA sponsored workshop in Strategies development and deployment to achieve access equity and excellence in higher system, 26 June 2015, Govt. Nagarjuna P.G. College of Science, Raipur, C.G.
- 7 RUSA sponsored workshop in Career Guidance, 27 June 2015, Govt. Nagarjuna P.G. College of Science, Raipur, C.G.
- 8 National seminar on Conservation of plant diversity: Global issues, 7 August 2015, Dr. Radhabai Govt. Navin kanya Mahavidyalaya, Raipur, C.G.
- 9 National seminar on Food pesticides and consequent health hazards, 8 August 2015, Dr. Radhabai Govt. Navin kanya Mahavidyalaya, Raipur, C.G.
- 10 Capacity Building Workshop on Laboratory techniques and Maintenance, 18-20 November 2015, Govt. Nagarjuna P.G. College of Science, Raipur, C.G.
11. National Semiar on Enhancement Strategies in Quality Education and Research, 27-28 November, Govt. Nagarjuna P.G. College of Science, Raipur, C.G.
12. National conference on Prospects in Life Science: Paradigm Shift in Teaching and research in Zoological Sciences, 2-3 March 2016, Govt. Nagarjuna P.G. College of Science, Raipur, C.G.
13. National Symposium on Genetic basis of Haematological Disorders with pecial Emphasis on Sickle cell Disease, 25-26 July 2017, Pt. J.N.M. Medical College, Raipur, C.G.

Paper presented and abstract published

1. Bajpai, S., Sharma, A.K. and Kanungo, V.K., 2015. Canopy architecture of plants in home gardens of Raipur Disctrict. National seminar on conservation of plant diversity; global Issue, 7 August 2015, Dr. Radhabai Govt. Navin kanya Mahavidyalaya, Raipur, C.G.

2. Sharma, A.K ,Bajpai, S.,. and Kanungo, V.K., 2016. Diversity of plants in urban homegardens of Raipur , chhattisgarh, National conference on Prospects in Life Science: Paradigm Shift in Teaching and research in Zoological Sciences, 2-3 March 2016, Govt. Nagarjuna P.G. College of Science, Raipur, C.G.

3. Sharma, A.K. , Bajpai, S.,. and Kanungo, V.K., 2016. Floristic composition of urban homegardens of Raipur, Chhattisgah. 2-4 January 2016, National seminar on Inn. And

pros. Biotechnology, Pt, R.S.S. U. Raipur.

DR V K Kanungo

SEMINAR AND CONFERENCES ORGANIZED AS A CONVENER/ORGANIZING SECRETARY/MEMBER OF ORGANIZING COMMITTEE

1. Organizing Secretary of Workshop on Governance, Leadership and Management ,24th June 2015, organized by Govt. N.P.G. College of Science, Raipur.
2. Organizing Secretary of Workshop on Laboratory Techniques and Maintenance, 18-20 November 2015, Govt. N.P.G. College of Science, Raipur.
3. Organizing Secretary of National Seminar on Enhancement strategies in quality Education and Research, November 27-28, 2015. Govt. N.P.G. College of Science, Raipur.
4. Organizing Secretary of Workshop on Strategies and challenges in implementing extension of Higher Education and improvement in quality of Higher education,,20th June 2017, organized by Govt. N.P.G. College of Science, Raipur.
5. Co-ordinator Six one day Workshop and Training program on Quality in Higher Education: Challenges and Strategies, 20th -27th June 2017, organized by Govt. N.P.G. College of Science, Raipur.

INVITED TALK DELIVERED AS A RESOURCE PERSON IN SEMINAR AND CONFERENCES

1. Invited talk delivered on Biodiversity conservation at National Seminar on Conservation of plant Diversity: Global Issues, 7th August, 2015. Radha Bai Naveen Kanya Mahavidyalaya ,Raipur.
2. Invited talk delivered on Ethnobotany in relation to health security in District Bastar of Chhattisgarh, at National conference on Modern life science Perspective and Prospects, 4-5 December, 2015. Government College ,Bhakhara.
3. Invited talk delivered on Species composition and phytochemistry of some abundantly growing plants of family Asteraceae in Raipur, Chhattisgarh, at National seminar on Present Scenario in phytomicrobial aspects beneficial to mankind, 27-28 January, 2017, Govt. W.W. Patankar Girls P.G. college, Durg, C.G.
4. Invited talk delivered on Sulphur metabolism-Transport and Synthesis In Botany Department, Govt. D.B. Girls P.G. College, Raipur, on 28th March 2018.

PAPER PRESENTED /ABSTRACT PUBLISHED/ SEMINAR AND CONFERENCES ATTENDED

Symposium on role of Bioinformatics in Medicine, 25th July ,2013, organized by Pt. J.N.M. Medical college, Raipur.

1. National seminar on Conservation of economically important endangered plant species of Chhattisgarh region, 25-26th October, 2013, organized by Bhilai Mahila Mahavidyalaya, Bhilai,
2. National seminar on Library initiatives in digital era, 26-27th October 2013. Organized by Govt. Nagarjuna P.G. College of science, Raipur.
3. National conference on Traditional knowledge and Biotechnology, 22-24 November, 2013, organized by SOS in Biotechnology, Pt. Ravishankar Shukla University, Raipur.
4. Symposium on Digital Medicine, 25th July, 2014, organized by Pt. J.N.M. Medical college, Raipur.
5. Skill development and Environmental protection programme, 8-14th October, 2014, organized by Government Nagarjuna P.G. College of Science, Raipur.
6. Workshop on quality Education, 23rd June 2015, organized by Govt. N.P.G. College of Science, Raipur.
7. Workshop on Governance, Leadership and Management, 24th June 2015, organized by Govt. N.P.G. College of Science, Raipur.
8. Workshop on Examination Reforms, 25th June 2015, organized by Govt. N.P.G. College of Science, Raipur.
9. Workshop on Strategies development and deployment to achieve access, quality and excellence in higher education system, 26th June 2015, organized by Govt. N.P.G. College of Science, Raipur.
10. Workshop on Career guidance, 27th June 2015, organized by Govt. N.P.G. College of Science, Raipur.
11. National Symposium on Role of quality control in Health care management, 25th July, 2015, organized by Pt. J.N.M. Medical college, Raipur.
12. National seminar on Conservation of plant diversity: global issues, 7th August, 2015, organized by Dr. Radhabai Govt. Naveen Kanya Mahavidyalaya, Raipur.
13. Workshop on Laboratory Techniques and Maintenance, 18-20 November, 2015, organized by Govt. N.P.G. College of Science, Raipur.
14. National seminar on Enhancement strategies in quality education and Research, 27-28th November, 2015, organized by Govt. N.P.G. College of Science, Raipur.
15. National conference on Modern life science Perspective and Prospects, 4-5 December 2015. Organized by Government College, Bhakhara.
16. National Seminar on Innovations and Prospects in Biotechnology, January 2-4, 2016, organized by S.O.S. in Biotechnology, Pt. R.S. University, Raipur.

- 17 National conference on Prospects in Lifesciences: Paradigm shift in teaching and research in Zoological sciences, March 2-3, 2016. Govt. N.P.G. College of Science, Raipur.
- 18 National Symposium on Genetic basis of Haematological disorders with special emphasis on Sickle cell disease, 25th & 26th July, 2016, organized by Pt. J.N.M. Medical college, Raipur.
- 19 National seminar on Advances in Environmental science & Technology, January 23-24, 2017, Organised by Govt. Digvijay Autonomous P.G. college, Rajnandgaon, C.G.
- 20 National seminar on Present Scenerio in phytomicrobial aspects beneficial to mankind, 27-28 January, 2017, Govt. W.W. Patankar Girls P.G. college, Durg, C.G.
- 21 Workshop on Quality in Higher education, Challenges and Strategies, 20th to 27th June 2017, Govt. N.P.G. College of Science, Raipur, C.G.
22. National Symposium on Quality management in Laboratory investigations and Haematological disorders, 25th July, 2017, organized by Pt. J.N.M. Medical college, Raipur. C.G.
23. Workshop on Science and Technology for Harnessing Natural resources towards Sustainable development, March, 2018, Radha Bai Navin Kanya Mahavidyalaya, Raipur, C.G.
24. National Seminar on Recent trends in Library Services, 01st June, 2018, Govt. N.P.G. College of Science, Raipur, C.G.
- 25 National Workshop on Plagiarism and IPR, 02nd and 3rd June, 2018, Govt. N.P.G. College of Science, Raipur, C.G.

Dr. Suneeta Patra

Workshop Attended:

International: -01

1. Grant training and collaboration workshop, 23rd February 2017, under the guidance of Lawrence M. Scheier, Ph.D., and Dr. Betty S. Pace, M.D., Bhubaneswar, Odisha.

National: Duration one week

1. Hands on workshop on Bioinformatics in medical sciences, 25-31 JULY 2014, Dept. of Biochemistry, Pt. J.N.M. Medical College, Raipur (C.G.)
2. Hand on Workshop on Genome to Drug : in silico analysis 25-31 January 2016, Dept. of Biochemistry, Pt. J.N.M. Medical College, Raipur (C.G.)
3. Skill development programme & environmental protection programme 8-14 October 2014, Dept. of Botany, Govt. N.P.G. College of science, Raipur, C.G.

Other workshops

1. Workshop on quality education, RUSA sponsored, Govt. N.P.G. College of science, Raipur, C.G. 23-06-2015
2. Workshop on Governance, Leadership, & management, RUSA sponsored, Govt. N.P.G. College of science, Raipur, C.G. 24-06-2015
3. Workshop on Examination reform, RUSA sponsored, Govt. N.P.G. College of science, Raipur, C.G. 25-06-2015
4. Workshop on, Strategies development and deployment to achieve access, equality and excellence in higher system USA sponsored, Govt. N.P.G. College of science, Raipur, C.G. 26-06-2015
5. Workshop on, Career Guidance, RUSA sponsored, Govt. N.P.G. College of science, Raipur, C.G. 27-06-2015
6. Capacity building workshop on laboratory techniques & maintenance, 18-20 November 2015, Govt N.P.G. College of Science, Raipur, C.G.
7. Nikon school workshop for basics of DSLR camera, organized by Nikon India Pvt.Ld., Date-10-12.2016
8. Nikon school workshop Photo walk, organized by Nikon India Pvt.Ld., Date-11-12.2016
9. Strategies and challenges in Implementing Extension of Higher Education and Improvement in Quality of Higher Education. Govt. N.P.G. College of science, Raipur, C.G. 20-06-2017
10. Road map of Quality Enhancement, Govt. N.P.G. College of science, Raipur, C.G. 21-06-2017.
11. Examination reform, Govt. N.P.G. College of science, Raipur, C.G. 22-06-2017
12. Strategies and challenges in Implementing Semester system and choice based credit (CBCS) system, Govt. N.P.G. College of science, Raipur, C.G. 23-06-2017.
13. Collection of data, analysis and report preparation, Govt. N.P.G. College of science, Raipur, C.G. 24-06-2017.
14. Capacity building in higher education: Use of Library resources, Govt. N.P.G. College of science, Raipur, C.G. 27-06-2017.
15. National sickle cell update and workshop, Department of medicine and biochemistry, CIMS, Bilaspur in collaboration with Dr. Bose memorial sickle care center Bilaspur (C.G.), 9.3.2018
16. State level workshop on Science and technology for harnessing natural resources towards sustainable development, Dr. Radhabai Govt. Navin kanya Mahavidyalaya, Raipur (C.G.), March 10, 2018

Resource person –

Capacity building workshop on laboratory techniques & maintenance, 18-20 November 2015, Govt N.P.G. College of Science, Raipur, C.G.

Invited Talks/Guest Speaker

1. Basics of stem cell, National CME on biochemical aspects of inborn error of metabolism, 17 January 2015 & 2nd AMBICON Chhattisgarh state chapter, Dept. of Biochemistry, Late Shri Lakhiram Agarwal memorial medical college, Raigarh C.G.
2. GM Food, CGCOST, Science center Raipur C.G.
3. Chair person- National seminar on Innovation & prospects in Biotechnology, 2-4 January 2016, SOS in Biotechnology, PT.R.S.U. Raipur, C.G.
4. Guest faculty - 3rd Global congress on sickle cell disease, Odisha hematology and Global sickle cell disease network, 21st-24th February -2017, Bhubaneshwar.

5. Invited speaker – Behavioral Impact of animals and microorganisms on Human life and their environment, Interdisciplinary national seminar on 3-4 February 2017, Dept. of Zoology, Govt. Dr.W.W. Patankar Girls' P.G. College, Durg, C.G.
6. Guest Speaker – Stem cells, National CME on Stems cell & its application, 12th April 2017, Dept.of Anatomy, Raipur Institute of Medical Science, Gram – Gondhi, Raipur
7. Guest speaker- ZSC 3rd National conference on Prospects of Innovation in Life sciences and Socio economic challenges, 2-3 Dec. 2017, Dept. of Zoology CMD P.G. College, Bilaspur, C.G.

Others

Counselor of Food Microbiology in IGNOU, M.Sc. DFSM Course.

Workshop Organized

1. Nikon Institutional workshop Science college, Raipur, C.G. Date-2-3-2107, No. of student participants of P.G. Classes – 46

Abstract submission in various international/national seminar/conferences

1. P. Jha, Dr. P.K.Patra, **Dr.S. Patra** , Isolating/In vitro culturing the hematopoietic stem cells of neonates having sickle cell disease and sickle cell trait and testing the effectiveness of novel growth factors from different sources,National CME on biochemical aspects of inborn error of metabolism , 17 January 2015 , Dept. of Biochemistry, Late Shri Lakhiram Agarwal memorial medical college, Raigarh C.G.
2. Deepti Chauhan , A.K. Shrivastava and **Suneeta Patra**, Herbal folk remedies used in treatment of Gynecological disorders by tribal Chattisgarh, National seminar on conservation of plant diversity: Global issues, 07 -08-2015, Department of Botany, Dr. Radha bai Govt. Naveen Kanya Mahavidyalaya, Rapiur, C.G.
3. Bhandari Anju, Chauhan Deepti , **Patra Suneeta**, Study of Phytodiversity of Bhilai Mahila Mahavidyalaya campus of Durg district, National seminar on conservation of plant diversity: Global issues, 07 -08-2015, Department of Botany, Dr. Radha bai Govt. Naveen Kanya Mahavidyalaya, Rapiur, C.G.
4. Seema Sahu, Dr. K. Sharma ,**Dr.Suneeta Patra**, Fungal diversity in leaf surface of *Hibiscus Sabdariffa* (Roselle), National seminar on conservation of plant diversity: Global issues, 07 -08-2015, Department of Botany, Dr. Radha bai Govt. Naveen Kanya Mahavidyalaya, Rapiur, C.G.
5. C.Chaturvedi, **S.Patra**, Effect of extracts of *Tinospora cordifolia* on *in vitro* culture of lymphocyte, National Seminar on Innovations and prospects in Biotechnology, January 2-4 2016, School of Studies in Biotechnology.
6. P.Bansode, **S.Patra** and A.K.Shrivastava ,Ehtnogynecological uses of some plants in tribal people of Mhla-Manpur, Distt. Rajnandgaon,Chhattisgarh, National Seminar on Innovations and prospects in Biotechnology, January 2-4 2016, School of Studies in Biotechnology, Pt RSU Raipur C.G.
7. A.K.Shrivastava, **S.Patra**, and A.Tikariha, Uses of weeds as medicines in Durg district of Chhattisgarh, National Seminar on Innovations and prospects in Biotechnology, January 2-4 2016, School of Studies in Biotechnology, Pt RSU Raipur C.G.
8. **S.Patra**, A.Tikariha and A.K.Shrivastava, Phytosociological analysis of weeds in Durg district of Chhattisgarh, National Seminar on Innovations and prospects in Biotechnology, January 2-4 2016, School of Studies in Biotechnology, Pt RSU Raipur C.G.

9. Seema Sahu, Dr. K. Sharma, **Dr.Suneeta Patra**, Seasonal variation in leaf surface mycoflora of *Hibiscus Sabdariffa* (Roselle), National Seminar on Innovations and prospects in Biotechnology, January 2-4 2016, School of Studies in Biotechnology, Pt RSU Raipur C.G.
10. A.Tikariha A.K.Shrivastava, **Suneeta Patra**, Phytosociological analysis of weeds in Durg district of Chhattisgarh, National conference on “ Prospects in life sciences: Pardigm shift in teaching and research in Zoological Sciences”.& The second Chhattisgarh congress of the Zoogical Society of Chhattisgarh (ZSC),March 2-3 2016, Dept. of Zoology, Govt. N.P.G.College of Science, Raipur, C.G
11. Anju Bhandari, **Suneeta Patra**, Kavita Das Herbal plants and it’s beneficial uses for human health, National conference on “ Prospects in life sciences: Pardigm shift in teaching and research in Zoological Sciences”.& The second Chhattisgarh congress of the Zoogical Society of Chhattisgarh (ZSC),March 2-3 2016, Dept. of Zoology, Govt. N.P.G.College of Science, Raipur, C.G .
12. Deepti Chauhan , A.K. Shrivastava and **Suneeta Patra**, Biodiversity of Ethnomedicinal plants and their use in Balod district of Chhattisgarh state, National conference on “ Prospects in life sciences: Pardigm shift in teaching and research in Zoological Sciences”.& The second Chhattisgarh congress of the Zoogical Society of Chhattisgarh (ZSC),March 2-3 2016, Dept. of Zoology, Govt. N.P.G.College of Science, Raipur, C.G .
13. Amit Kumar and **Suneeta Patra**, Standardization of *in vitro* propagation method for *Madhuca latifolia*, roxb. National conference on “ Prospects in life sciences: Pardigm shift in teaching and research in Zoological Sciences”.& The second Chhattisgarh congress of the Zoogical Society of Chhattisgarh (ZSC),March 2-3 2016, Dept. of Zoology, Govt. N.P.G.College of Science, Raipur, C.G .
14. Indu Soni, **Suneeta Patra** and Preeti Tiwari, Aerobiological survey of outdoor environment in railway station of Bilaspur Chhattisgarh, India, National conference on “ Prospects in life sciences: Pardigm shift in teaching and research in Zoological Sciences”.& The second Chhattisgarh congress of the Zoogical Society of Chhattisgarh (ZSC),March 2-3 2016, Dept. of Zoology, Govt. N.P.G.College of Science, Raipur, C.G .
15. Mr. Vishal Khare, **Dr. sunita Patra**, Dr P.K.Patra & Mr. Arpan Dey, “Comparative study of antibiotics resistance against *Pseudomonas aerugenosa* respiratory tract infection in Chhattisgarh, National symposium on Genetic basis of hae matological disorders with special emphasis on sickle cell disease, 25-26 July 2016, Dept of Biochemistry and Pt. Deendayal Upadhayay regional center for genetic diseases and molecular biology, Pt. J.N.M. Medical college Raipur, C.G.
16. **Dr. Suneeta Patra**, Anju Bhandari and Dr.P.K.Patra, Antisickling study of the aqueous extracts of *Tinospora cardifolia* and *Terminalia bellirica*, 3rd Global congress on sickle cell disease, Odisha hematology and Global sickle cell disease network,21st-24th February - 2017, Bhubaneshwar.
17. **Patra S.** Shrivastava A. and A.Tikariya,Biodiversity and Ethnomedicinal uses of weeds, 3rd National conference on Prospects of Innovation in Life sciences and Socio economic challenges, 2-3 Dec. 2017, Dept. of Zoology CMD P.G. College, Bilaspur, C.G.

24. Seminar / Conferences attended

International - 9

1. 3rd Global congress on sickle cell disease, Odisha hematology and Global sickle cell disease network, 21st-24th February -2017, Bhubaneswar

National: -

1. National CME on biochemical aspects of inborn error of metabolism , 17 January 2015 , Dept. of Biochemistry, Late shri lakhiram Agarwal memorial medical college, Raigarh C.G.
2. National symposium on Digital medicine, 25 July 2014, Dept. of Biochemistry, Pt. J. N.M. Medical College, Raipur, C.G.
3. National symposium on role of quality control in health care management, 25 July 2015, , Dept. of Biochemistry, Pt. J. N.M. Medical College, Raipur,C.G.
4. National seminar on conservation Of plant diversity: Global issues, 7 August 2015, Dr. Naveen Kanya Mahavidyalaya, Raipur, C.G.
5. National seminar on Food pesticides and consequent health hazards, 8 August 2015, Dr. Naveen Kanya Mahavidyalaya, Raipur, C.G.
6. National seminar on Enhancement strategies in quality education and research, 27-28 November 2015, Govt. N.P.G. College of Science, Raipur,C.G.
7. National conference on modern life science- perspective and prospects,4-5 December 2015,Govt. college Bhakhara, Dist. Dhamtari C.G.
8. Genetic basis of haematological disorder with special reference on sickle cell disease,25-26 July 2016, Dept. of Biochemistry, Pt. J. N.M. Medical College, Raipur, C.G.
9. National seminar on Innovation & prospects in Biotechnology, 2-4 January 2016, SOS in Biotechnology, PT.R.S.U. Raipur, C.G.
10. National conference on Prospects in life sciences; Paradigm shift in teaching and research in Zoology sciences, 2-3 March 2016,Dept of Zoology, Govt. N.P.G. College of science, Raipur, C.G.
11. National conference on Conservation of medicinal plants: Conventional and modern approaches,16-18 march 2016, Tej Narayan Banalli College, Bhagalpur, Dept. of Home science,-Food and nutrition T.M. Bhagalpur University, Bhagalpur
12. XXVII Annual Conference, North East Regional Chapter, Indian Association of Pathologist & Microbiologists, NERCON 2K16, 10-11 September 2016, Agartala Govt. Medical College, Agartala , Tripura.
13. National symposium on Quality management in laboratory investigations and heamatological disorders, 25 July 2017, Pt. Deendayal Upadhayay center for Gnetic diseases and Molecular Biology, Dept. of Biochemistry,Pt. J. N.M. Medical College, Raipur,C.G.
14. State level workshop on “Science and technology for harnessing natural resources towards sustainable development” March 10, 2018, Dr. Radhabai Govt. Navin Kanya Mahavidyalaya, Raipur, (C.G.)
15. National seminar on Recent trends in library services jointly organised by Pt. Sunderlal Sharma library & SOS in library & Info. Science, Pt.RSU, Raipur, C.G. and Govt. N.P.G. P.G.College of Science, Raipur, C.G.,1 June 2018

