

Evaluative Report of the Department of Botany

1. Name of the Department – Botany
2. Year of Establishment – 1955
3. Is the Department part of the faculty of the university? – Yes
4. Names of Program offered (UG, PG, M.Phil, Ph.D. Integrated Masters, Integrated Ph.D. D.Sc. D.Lit. etc) – M.Sc., M.Phil, Ph.D. D.Sc.
5. Interdisciplinary programmes and departments involved – M.Sc. (Biotech), Diploma (Post-Graduate Diploma in Medicinal Plants, PGDMP), Diploma (Post-Graduate Diploma in Plant Biotechnology, PGDPBT)
6. Courses in collaboration with other universities, industries, foreign, institutions, etc. – None
7. Details of programme discontinued, if any, with reasons – None
8. Examination System – Semester
9. Participation of the department in the courses offered by other departments – Yes
10. No. of teaching posts sanctioned, filled and actual.

	Sanctioned	Filled	Actual (CAS & MPS)
Professor	2	9	5 MPS 4 CAS
Associate Professor	5	0	0
Asst. Professor	7	1	1
Others			

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D.	No. of M.Phil.	No. of D.Sc
Prof. (Dr.) Ramesh Kumar Pandey	M.Sc, Ph.D.	Professor	Biotechnology, Plant Physiology and Ethnobotany	40	7	0	0
Prof. Dr. Pramod Kumar Pandey	M.Sc, Ph.D.	Professor	Plant Pathology	42	3	2	0
Prof. (Dr.) Anjani Kumar Srivastava	M.Sc, Ph.D. LL.B (Gold Medalist), Naef-Roth Foundation Post Doctoral Fellow (Zurich, Switzerland)	Professor & Dean, Faculty of Science, Ranchi University, Ranchi.	Microbiology, Plant Pathology, Phytobacteriology	40	8	0	0
Prof (Dr) Shashi Kumar Sinha	M.Sc. Ph.D	Professor	Algal biotechnology	37	1	0	0
Prof Ashok Kumar Choudhary	M.Sc, Ph.D.	Professor	Plant Physiology Ethnobotany and Biotechnology	37	5	0	1
Prof. Dr.(Ms.) Kamini Kumar	M.Sc, Ph.D.	Professor	Cytogenetic, Plant Breeding, and Radiation Genetics.	34	11	2	0
Prof. Dr. (Ms.) Kunul Kandir	B.Ed, M.Sc, Ph.D, D.Sc	Professor	Plant taxonomy, Ethnobotany Medicinal Plants, Plant Tissue culture, Plant Pathology	34	6	5	0
Late Prof. Dr. Heem Bachan Sahu	M.Sc, Ph.D,L.L.B.	Professor	Plant Pathology	36	4	0	0
Prof Jyoti Kumar	M.Sc, Ph.D. LL.B	Professor	Microbiology & Plant Pathology, Phytobacteriology, Ethnobotany and Medicinal Plants	35	8	5	1

Prof. Dr. Hanuman Prasad Sharma	M.Sc, Ph.D.	Professor	Plant physiology, Molecular biology, Biotechnology, Ethnobotany	36	9	7	1
Dr. Radha Krishna Jha	M.Sc, Ph.D.	Asst. Professor	Plant Pathology, Ecology (Environmental Science) and Ethnobotany	20	2	0	0

12. List of senior visiting fellows, adjunct faculty, emeritus professors

– Dr. J.V.V. Dogra (Visiting Fellow), Former HOD of Botany, TM Bhagalpur University, Bhagalpur

13. Percentage of classes taken by temporary faculty

– 100% in M.Sc. (Biotech)

14. Programme-wise student Teacher Ratio.

Course	Student	Teacher
M.Sc.	9	1
M.Phil.	4	1
M.Sc.	20	1
M.Sc.	10	1
M.Phil.	10	1
Other	26	1

15. No. of Academic support staff & administrative staff.

Non Teaching Staff	Sanctioned	Filled	Actual
Support Staff (Technical)	5 Class III Staff	3	3
Administrative Staff	13 Class IV staff	2	2

16. Research thrust areas as recognized by major funding agencies

Ethnobotany, Medicinal plants, Microbiology, Plant pathology, Phytobacteriology, Ecology, Cytogenetics, Plant Breeding, Molecular Genetics, Tissue culture, Oncology

17. Number of faculty with ongoing projects from (a) National (b) International funding agencies & (c) Total grant received. Give the name of funding agencies, project title & grants received project wise.

(a) No. of Faculty with Ongoing Projects Funded by National Funding Agency

Title		Agency	Project	Grants
Antiproliferative activities and Biochemical analysis of some Plant extracts with special reference to breast cancer cell lines (MCF-7 & T47D)	National	UGC	Major	10,51,800
Ethnobotanical Studies of Ranchi District	National	UGC	Major	5,48,200
Preparation of Chromosome atlas and karyotypic analysis of important medicinal plants of Ranchi	National	UGC	Minor	2,00,000

(b) No. of Faculty with Ongoing Projects**Funded by International Funding Agency** – None**(c) Name of the projects** – None**(d) Total grants received** – None**(e) Name of the funding agency** – Not applicable**18. Inter-institutional collaborative projects & associated grants received****(a) National Inter-Institutional Collaborative Projects**

1. Collaborative Ph.D. Research Project with Jadavpur University, Kolkata
2. Collaborative Ph.D. Programme with Veterinary College, Birsa Agriculture University, Kanke, Ranchi

(b) National Inter-Institutional Collaborative Project's Grants Received – None**(c) International Inter-Institutional Collaborative Projects** – None**(d) International Inter-Institutional Collaborative Project's Grants Received** – None**19. Department projects funded by DST-FIST, UGC-SAP/CAS, DPE, DBT, ICSSR, AICTE, etc; total grants received****(a) Departments Project Funded by** – UGC**(b) Total Grants Received** – Rs 1800000/-**20. Research facility center with****(a) Research Facility with State Recognition** – None**(b) Research Facility with National Recognition** – Ethnobotany, Medicinal plants, Microbiology, Plant Pathology, Phytobacterio-

logy, Ecology,
Cytogenetics,
Plant Breeding,
Molecular
Genetics, Tissue
culture,
Oncology

(c) Research Facility with International Recognition

– None

21. Special research laboratories sponsored by/created by industry or corporate bodies

– None

22. Publications

Name	No. of Papers: National	No. of Papers: International	Mono-graphs	Chapters in Books	Edited Books	Books	Awards
Prof (Dr.) Ramesh Kumar Pandey	30	2	0	0	0	0	0
Prof Dr. Pramod Kumar Pandey	10	1	0	1	0	0	0
Prof (Dr) Anjani Kumar Srivastava	15	25	0	0	1	0	2
Dr. Shashi Kumar Sinha	5	4	0	0	0	0	1
Prof Ashok Kumar Choudhary	39	4	0	0	0	2	0
Prof Dr.(Ms.) Kamini Kumar	3	79	0	2	1	1	2
Prof Dr. (Ms.) Kunul Kandir	24	7	0	0	1	0	4
Late Prof Dr. Heem Bachan Sahu	43	0	0	5	2	0	0
Prof Dr. Hanuman Prasad Sharma	57	18	0	12	3	2	4
Prof Jyoti Kumar	0	60	0	3	0	2	6
Dr. Radha Krishna Jha.	7	17	0	1	0	0	0

Name	No. listed in International Database	Citation Index	SNIP	SJR	Impact Factor	h-index
Prof Jyoti Kumar	None	51	None	None	2-3	4
Prof H.P. Sharma	None	79	None	None	2-3	5

For the remaining faculties no data is available

23. Details of patents and income generated – None

24. Areas of consultancy and income generated

Prof Jyoti Kumar	Consultancy of Documentation of Ethno medicinal Plants with AYUSH, Government of Jharkhand Income generated NIL
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25. Faculty selected nationally/internationally to visit other laboratories/institutions/industries in India and abroad

1. Prof (Mrs) Kunul Kandir selected to visit Universiti Teknologi Mara, Malaysia in 2015
2. Prof Hanuman Prasad Sharma selected to visit University of Terengganu, Malaysia in 2012
3. Prof Hanuman Prasad Sharma selected to visit Kumamoto University Japan in 2011
4. Dr. Shashi Kumar Sinha Biwa Lake Research, Institute, Japan, Ramsar Meet in Shiga prefecture, Otsu.
5. Dr. Shashi Kumar Sinha Inamori Foundation, Kyoto Japan Kyoto Prize Laureates Commemoration and Banquet, Workshop.
6. Dr. Shashi Kumar Sinha York University, Yorkshire U.K (Two times)

26. Faculty serving in

(a) National committees

Prof Jyoti Kumar	1. Zonal President, Indian Phytopathological Society, New Delhi	2. Councillor, The Indian Botanical Society, Meerut
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(b) International committees – None

(c) Editorial Boards

Prof Dr. Hanuman Prasad Sharma	1. Executive Editor International Journal of Biosciences and Engineering
	2. Associate Editor Agrobios India
	3. National Referee Jam J of Research, International Reviewer
	4. Executive Editor, Ranchi University Journal of Science and Technology
Prof Dr. Pramod Kumar Pandey	Ranchi University Journal of Science and Technology
Prof Jyoti Kumar	1. Chief Editor, The Biobrio, 2. Executive Editor of Biospectra International Journal 3. Ranchi University Journal of Science and Technology

Prof (Dr.) Anjani Kumar Srivastava	1. Chief Editor, Ranchi University Journal of Science & Technology 2. Editor, BIOSPECTRA
Prof (Mrs.) Kamini Kumar	1. Executive Editor Ranchi University Journal of Science and Technology 2. Biospectra International Journal
Prof Ashok Kumar Choudhary	Editor, Ranchi University Journal of Science & Technology
Prof (Mrs.) Kunul Kandir	Executive Editor, Ranchi University Journal of Science & Technology
Prof Shashi Kumar Sinha	Executive Editor, Ranchi University Journal of Science & Technology
Dr R.K.Jha	Executive Editor, Ranchi University Journal of Science & Technology

(d) any other (please specify)**27. Faculty recharging strategies (UGC, ASC, Refresher/orientation programs, workshops, training programs and similar programs).**

Name	No. of Orientation/ Refresher Courses Attended in the Last 4 Years	No. of Lectures Delivered as Resource Person in ASC/Any other Institution in the Last 4 Years
Prof (Dr.) Ramesh Kumar Pandey	0	4
Prof Dr. Anjani Kumar Srivastava	0	3
Prof Ashok Kumar Choudhary	0	27
Dr. Shashi Kumar Sinha	1 Principal's orientation course 2. Attended Workshop at In-amori Foundation Japan	5
Prof Dr. Hanuman Prasad Sharma	0	8
Prof Dr. (Ms.) Kamini Kumar	Course Co-ordinator in the 63 rd & 82 nd Orientation Program of HRDC Ranchi University	One genetic Engineering: A mechanistic approach.
Late Prof Dr. Heem Bachan Sahu	0	0
Prof Dr. (Ms.) Kunul Kandir	0	0
Prof Jyoti Kumar	0	9
Dr. Radha Krishna Jha.	5	1

28. Student Projects

- (a) **Percentage of students who have done in-house projects including inter departmental projects** – None
- (b) **Percentage of students doing projects in collaboration with other universities/ industries/institute** – None

29. Awards/recognitions received at the national international level by

- (a) **Faculty** – Prof Dr. Hanuman Prasad Sharma Senior Scientist Award (2014),
– Prof Dr. (Ms.) Kunul Kandir Eminent Scientist Award (2015),
- (b) **Doctoral/post doctoral fellows** – Dr. R.K. Pandey, Dr. A.K. Srivastava,
- (c) **Students** – None

30. Seminar/Conferences/Workshops organized and the source of funding (national/international) with details of outstanding participants, if any.

1. National Symposium Advances in Phytopathological Researches in Globalized Era with reference to Eastern region- was organized by the Department in collaboration with Indian Pathological Society (IPS).
2. 27th Zonal Annual Meeting of IPS, eastern Zone was held - Funding Ranchi University, Ranchi. 2015,
3. 39th All India Botanical Conference of Indian Botanical Society and National Symposium to be held in October 2016

31. Code of ethics of research followed by the departments – Yes

32. Student profile programme-wise:

Name of the Programme	Applications Received	Selected		Pass Percentage		
		Male	Female	Male	Female	
M.Sc. (Bot) 2012-2014	68	6	28	11	89	
M.Sc. (Bot) 2013-2015	57	2	34	4	96	
M.Sc. (Bot) 2014-2016	62	2	29			ongoing

M.Sc. (Bot) 2015-2017	117	12	49			ongoing
M.Sc. (Biotech):2012-2014	50	2	29	100	100	
M.Sc. (Biotech):2013-15	37	2	23	100	100	
M.Sc. (Biotech):2014-16	55	2	20			ongoing
M.Sc. (Biotech):2015-17	60	6	26			ongoing
M. Phil. 2012-2013	70	3	29			
M. Phil. 2015-2016		4	6			ongoing

33. Diversity of students:

Name of the Programme	% of Students from the same University	% of Students from other Universities within the State	% of Students from Universities Outside the State	% of Students from other Countries
M.Sc. (Bot) 2011-2013	84	16	0	0
M.Sc. (Bot) 2012-2014	97	3	0	0
M.Sc. (Bot) 2013-2015	100	0	0	0
M.Sc. (Bot) 2014-2016	74	26	0	0
M.Sc. (Bot) 2015-2017	59	41	0	0
M.Sc. (Biotech) 2011-13	66	34	0	0
M.Sc. (Biotech) 2012-14	90	10	0	0
M.Sc. (Biotech)2013-15	76	24	0	0
M.Sc. (Biotech) 2014-16	86	14	0	0
M.Sc. (Biotech) 2015-17	63	37	0	0
M.Phil.	88	12	0	0
Ph.D.	60	40	0	0

34. How many students have cleared Civil Services and Defence Service examinations, NET, SET, GATE, and other competitive examinations? Give details category-wise.

Examination	Numbers
Civil Services examinations	
Defence Services examinations	
NET	4
SET	5
GATE	3
Other Competitive Examinations	

35. Student Progression:

Student Progression	% Against Enrolled
UG to PG	
PG to M.Phil	20
PG to Ph.D	35
Ph.D to Post-Doctoral	0

Employed	
• Campus Selection	25
• other	

36. Diversity of staff:

Percentage of Faculty Who are Graduates	
of the same university	100 (BOTANY)
from the other universities within the state	
from universities from other state	100 (BIOTECH)
from universities outside the country	

37. No. of faculty who were awarded M.Phil, Ph.D., D.Sc., and D.Litt. during the assessment period

- (a) M.Phil. – None
 (b) Ph.D. – None
 (c) D.Sc. – 1
 (d) D.Litt. – None

38. Present details of departmental infrastructural facilities with regard to

- (a) Library – Books 8755
 (b) Internet facilities for staff and students – Yes
 (c) Total number of class rooms – 48
 (d) Class rooms with ICT facility – 48
 (e) Student laboratories – 4
 (f) Research laboratories – 6

39. List of Doctoral, Post-doctoral students & Research Associates

S. No.	Name of Candidate	Name of Supervisor	Title	Date
1	Raj Narayan Sahu	Dr. Ashok Kumar Choudhary	In vitro studies on Agrobacterium mediated genetic transformation of coleus forskohlii	12/01/2011
2	Umesh Kumar Prasad	Sri. Rajesh Kumar	Cytological embryological and bio-chemical studies in some grassus (Pociceae) of Chotanagpur	03/02/2011
3	Anamika	Dr. (Mrs.) Kamini Kumar	Ethnomedicinal survey and Pharmacogonostical studies of some important medicinal plant found in Topchanchi wild life sanetuary, Dhanbad	21/04/2011

4	Kalpana Verma	Dr. (Mrs.) Sushma Dash Guru	Morphotaxonomical study of Algal Flora of Ranchi District from diverse aquatic habitats	21/04/2011
5	Rajesh Sinha	Dr. Radha Krishna Jha	Ethnobotanical studies of Bishnugarh Block of Hazaribagh District, Jharkhand	26/04/2011
6	Suman Kumari	Dr. A.K. Bariar	Cytotaxonomic and induced chromosomal mutation studies in Genus Pisum and allied genera	26/04/2011
7	Fauziya Basri	Dr. H.P. Sharma	Tissue culture and molecular characterization of some local varieties of Rice (<i>Oryza sativa</i> L.) cultivated by ethnic communities of Jharkhand	16/07/2011
8	Alok Ranjan	Dr. H.P. Sharma	Experimental morphogenic studies of medicinal plants, phytochemical evaluation and anti microbial activities cultivated by ethnic communities of Jharkhand	16/07/2011
9	Talat Ara	Dr. Ashok Kumar Choudhary	Prospects of <i>Agrobacterium rhizogenes</i> induced genetic transformation of <i>Withania somnifera</i> (L.) Dunal	09/12/2011
10	Miss Swet Nisha Sangeeta	Dr. Ashok Kumar Nag	Tissue culture studies on some important plants & preparation of digital herbaria, used against Malaria in chotangpur, region of Jharkhand	13/12/2011
11	Miss Shefa Parveen	Dr. Ashok Kumar Nag	Ethnobotanical & important plants along with their digital herbaria used against Diabetes in Ranchi district of Jharkhand State	13/12/2011
12	Lalan Kumar Sharma	Dr. H.P. Sharma	Study on plants used by Ethnic communities of Jharkhand State for contraceptive Practices, reproductive Problems, Pregnancy, Child birth and Post Partum recovery	16/12/2011
13	Mrs. Arapna Sinha	Dr. Ishwari Prasad Gupta	Study on plants used by indigenous people of Jharkhand for urinary diseases	22/02/2012
14	Sheocharan Oraon	Dr. (Mrs.) Malti Kerketta	Investigation on plants curing skin diseases in traditional medicinal system in Ranchi District of Jharkhand	01/03/2012
15	Nayeema Khatoon	Dr. Ashok Kumar Choudhary	Morphogenic and Ethnomedicinal studies of a Medicinal plant <i>Solanum torvum</i>	27/04/2012

16	Rupa Verma	Dr. Ashok Kumar Choudhary	Study on the effect of Anti-Microbiol Petotide A pidaecin on plants against bacterial and fungal Pathogrn	27/04/2012
17	Salomy Kujur	Dr. (Mrs.) Kunul Kandir	Ethnomedicinal and phytochemical studies of Harja (Rice - Beer) used by some important tribes of south Jharkhand	28/04/2012
18	Miss Sarita	Dr. Ashok Kumar Nag	Ethnobotanical and morphogenic studies along with their digital herbaria of some important plants used against Jaundice in Ranchi Dist. of Jharkhand	28/04/2012
19	Amit Patnaik	Dr. H.P. Sharma	Studies on the effect of some anti-cancer plants on HeLa and SiHa cell lines of cervical cancer and screening of Bio-Active cospomds	26/04/2012
20	Smrity Prabha	Dr. Jyoti Kumar	Studies on some medicinal Plants of Ranchi District (Jharkhand) with special reference to their Antifunges Activities against Phytopathogenic Fungi	17/05/2012
21	Saloni Swaroopa	Dr. Ashok Kumar Choudhary	Studies on the germination, plant growth and development of mung bean (<i>Vigna radiata</i> L.) due to the effect of water pollution of Deoghar (Jharkhand)	18/05/2012
22	Arshia Naaz	Dr. Ashok Kumar Choudhary	Studies on the germination, plant growth and development of broad bean (<i>Vicia faba</i> L.) due to the effect of industrial effluents of heavy engineering corporation Ranchi (Jharkhand)	18/05/2012
23	Mrs. Deepika	Dr. Ashok Kumar Nag	Survey documentation and preparation of digital herbaria of trees of Ramgarh District of Jharkhand	18/05/2012
24	Parash Jain	Dr. H.P. Sharma	Studies on Anti-Proliferative activities of some plant extracts on plant Tumors and Breast Cancer cell lines (MCF - 7 & MDA - MB - 435)	10/07/2012
25	Monalisha Saha	Dr Anjani Kumar Srivastava	Studies on the pathogenicity of seed borne storage Fungi of cow pea (<i>Vigna sinensis</i> L.) of Ranchi District and their control	26/07/2012

26	Afrin Nazli	Dr. (Mrs.) Kamini Kumar	Internation ships and cyto-logical studies on medicinally important plants Aloe and Ha-worthia under the influvnce of some heany metals	10/08/2012
27	Preety Prasad	Dr. Ajay Kumar Srivastava	Analysis of antimicrobiol effects of some herbal extracts against oral pathogens	13/12/2012
28	Punam Kumari	Dr. Anil Kumar	Study of Antifungal effect of Ethnomedicinal plant with special reference to Skin disease in Ranchi district of Jharkhand	13/12/2012
29	Richa Sinha	Dr. (Mrs.) Kamini Kumar	Cytotaxonomy and comparative Cytological analysis of chemical mutagens in Urginea	19/01/2013
30	Shila Kumari	Dr. (Mrs.) Kunul Kandir	Morphotaxonomical and phytochemical studies on some ethnomedicinal plants used on anti-ageing sourtus in Ranchi Dist. of Jharkhand	19/01/2013
31	Chitra Sharma	Dr. (Mrs.) Nirja Jha	Studies on Ethnomeditional plants of family Bignoniaceae of Ranchi Dist. and Phytochem-istry of some of its important plants	11/04/2013
32	Suresh Kumar Munda	Sri Rajesh Kumar Jha	Studies on the combined effects of EMS and gamma rays on Lathyrus sativus L.	18/05/2013
33	Md. Nesar Ansari	Sri Rajesh Kumar Jha	Studies on combined effects of Ethyl Methan Sulfonate and Colchicine on Hordeum vulgare	18/05/2013
34	Reena Bhattacharjee	Dr. H.P. Sharma	Study on root induction mediated through Agrobacterium rhizogenes and secondary metabolites enhancement in some medicinal plnats with dicitors	22/11/2013
35	Sacchi Sneha	Dr. Ashok Kumar Choudhary	Studies on the effieacy of plant expracts in controlling certain fungal diseases of plants in Dumka (Santhal Pergana) of Jharkhnad	15/02/2014
36	Miss Nita Verma	Dr. Ashok Kumar Nag	Ethnobotanical and morpho-genic studies of some important antituberculosis plants, along with their digital herbaria in Ranchi District of Jharkhand State	30/04/2014

37	Rinku Paul	Dr. P.K. Pandey	16.12.2014 Studies on certain physiological characteristics of <i>Sclerotinia sclerotiorum</i> the causal organism of stem rot disease in chick pea in Ranchi Jharkhand	16/12/2014
38	Anjali Kumari	Dr. P. K. Pandey	Management of Soiborne phytopathogens by native isolatus of <i>Trichoderma</i> in context of Jharkhand	16/12/2014
39	Sneha Sahay	Dr. Jyoti Kumar	Pharmacognostical and biochemical studies of ethnomedicinal plants of some members of family verbenaceae and Their uses against few plant pathogenic bacteria	09/02/2015
40	Abiha Abdali	Dr. (Mrs.) Kamini Kumar	Studies on Cytotaxonomy and effect of Ethyl Methane Sulphonate on different varieties of <i>Avena sativa</i> L.	09/02/2015
41	Sumit Kumar Pathak	Dr. Jyoti Kumar	Ethnomedicinal, Cytotaxonomical, Pharmacognostical and Biochemical studies of genus <i>Oxalis</i> growing in Ranchi	14/02/2015
42	Richa Sinha	Dr. (Mrs.) Kamini Kumar	Cytotaxonomy and comparative Cytological analysis of chemical Mutagens in <i>Urginea</i>	14/02/2015
43	Sarita Lohra	Dr. (Mrs.) Kamini Kumar	Cytological and biochemical studies in the genus <i>Tinospora</i>	31/03/2015
44	Jaya Kachhap	Dr. (Mrs.) Kunul Kandir	Phytochemical studies on Ethnomedicinal plants wused against diabetes Mellitus	12/05/2015
45	Nuzhat Afroz	Dr. (Mrs.) Salini Lal	Study of the effect of abiotic stress on growth and secondary metabolite production of few medicinal plant species of Jharkhand	12/05/2015
46	Sashi Suman Tirkey	Dr. (Mrs.) Kunul Kandir	Morphotaxonomical and phytochemical studies on some ethnomedicinal plants used against mental disorder among children in Kanke Block, Ranchi Dist. of Jharkhand	13/05/2015
47	Miss Sayyeda Kaneez Fatma	Dr. (Mrs.) Kunul Kandir	Morphological and phytochemical studies on some ethnomedicinal plants used against Jaundice in Ranchi Dist. of Jharkhand	13/05/2015

48	Sagufta Parween	Dr. (Mrs.) Kunul Kandir	Morphotaxonomical and phytochemical studies on some ethnomedicinal plants used in high and low blood pressure in Ranchi dist. of Jharkhand	14/05/2015
49	Bhanu Priya	Dr. Radha Krishna Jha	Studies on ethnomedicinal plants used in remedy of Tuberculosis and phytochemical analysis of some plants with special reference to Ranchi district, Jharkhand	14/05/2015
50	Sanjay Kumar Hembrom	Dr. Jyoti Kumar	Ethnomedicinal and Morphotaxonomic studies of some plants used to cure certain diseases by the santhal tribe of district Sahibganj, Jharkhand	16/05/2015
51	Ladli Rani	Dr. Ramesh Kumar Pandey	Molecular characterization of endophytic diazotrophic bacteria associated with some indigenous rice of Jharkhand	12/12/2015
52	Shalini Minz	Dr. Anjani Kumar Srivastava	Isolation, Characterization and purification of Acidtolerant Rhizobium obtained from soil of north chotanagpur of Jharkhand	12/12/2015
53	Neelima Kumari	Dr. Anjani Kumar Srivastava	Nutraceutical studies on wild edible mushrooms growing in Ranchi Dist. Jharkhand India	15/12/2015
54	Abhishek Prasad Sahu	Dr. Radha Krishna Jha	Studies on the effect of some abiotic stress on Solanum lycopersicum L genome and protein expression	25/01/2016
55	Preety Kumari	Dr. Ashok Kumar Choudhary	Ecological Audit and exotic species invasion of Betla National Park Palamu, Jharkhand	17/02/2016
56	Geeta Mahto	Dr. Jyoti Kumar	Efficacy of some chemicals on the Pathogenesis of Xanthomonas compestris Pv. Vesicatoria with some species of Lycopersicon esculentum Mill	29/02/2016
57	Mrs. Dolly Promila Bara	Dr. (Mrs.) Kunul Kandir	Phytochemical evaluation of some of the ethnomedicinal plant used to induce labour pain	29/02/2016
58	Ranjana Kumari	Dr. Anjani Kumar Srivastava	A study on ethnomedicinal and nutraceutical properties of Mahua (Madhuca indica J.F.Gmd.) for sustainable development of rural Jharkhand	05/04/2016

59	Birbal Nag	Dr. Ashok Kumar	Systemeatic study of Algal flora relation to some ecological factors of chhath talab, Semdega, Jharkhand	08/04/2016
60	Binit Baraik	Dr. Salini Lal	Molecular study on effect of abiotic stress on secondary metabolite production in some important medicinal plant	08/04/2016
61	Kumari Priya	Dr. H. P. Sharma	Studies on phytochemicals antioxidant and enzymatic inhibition proparties of some medicinal plants having insulin mimetic activity	29/04/2016
62	Dipa Mahto	Dr. H.P. Sharma	Studies on some ethnomedicinal plants for their anticancer efficacy against oral cancer cell lines, phytochemistry and anti oxidant activites	07/05/2016
63	Shahla Firdaus	Dr. (Mrs.) Kamini Kumar	Studies on Cytotaxonomy and enfluence of chemical mutagen on different varities of zingiber officinale Rosc	11/05/2016
64	Sonam Rani	Dr. Anjani Kumar Srivastava	A study on ethnomedicinal and nutraceutical properties of Ragi/Marua (Eleusine coracana Gaertn) in Jharkhand	11/05/2016
65	Dr. Prasanjit Mukherjee	Dr. Jyoti Kumar	The Floristic studies of aquatic and semi aquatic angiosperms vis-a-vis their ecomomic importance in Jharkhand	25/02/2014
66	Dr. Uma Sanker Singh	Dr. Ashok Kumar Choudhary	Carbon sequestration in different components of various tree species in planted forest of Ut-ter Pradesh	16/02/2015

40. No. of post graduate students getting financial assistance from the university

1. 4 BPL students are given Rs 500/- each per month
2. MA topper is appointed as Teaching Assistant for one year & is given Rs 4000/- per month
3. PhD entrance test topper is also appointed as Teaching Assistant for two years and is given Rs 5000/- per month

41. Was any need assessment exercise undertaken before the development of new programmes? if so, highlight the methodology

Before to development self-financed new vocational courses in M.Sc. (Biotech), Post-Graduate Diploma in Plant Biotechnology (PGDPBT) and Post- Graduate Diploma in Medicinal Plants (PGDMP) syllabi of different Universities all over the India were procured and thoroughly consulted with the experts to design labs and course structure so that world class

update Post-Graduate Programmes can be catered to students aspiring for the higher education

- 42. Does the department obtain feedback from**
- (a) **faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?** – Feedback is utilized for improving the teaching methodology and research activities.
- (b) **students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?** – Feedback is utilized for improving the teaching style/ standard of faculties and also to run the practical's smoothly as per the international standards.
- (c) **alumni and employers on the programmes offered and how does the department utilize the feedback?** – Feedback and experiences of the Alumni members are invited for overall up gradation of the department.

43. List of Alumni

Name	Post
Dr. K.K. Nag	Ex-Vice Chancellor
Mr. Pradip Kumar	Chief Conservator of Forest
Mr. Ashok Pandey	Chief Conservator of Forest
Mr. Kalyan Chaterjee	Chief Conservator of Forest
Uma Shankar Singh	Chief Conservator of Forest
Dr. Anand Bhusan	Chairman Jharkhand Academic Council (JAC)
Mr. B.K. Sinha,	Retd. I.G Police, Jharkhand
Dr. Javed Ahmad,	Rtd. Principal, Marwari College, Ranchi
Mr. Narendra Bhagat,	Rtd. IAS
Dr. Ram Pravesh,	Rtd. Principal, Doranda College

44. Give details of student enrichment programmes (special lectures/ workshops/seminar) involving external experts

Name & Address	Sub. of Lecture	Date
Mrs. Raneek Prakash (Tiary), Curator, Flowering plants, Department of Life Science (Plant Division), Natural History Museum, South Kensington; U.K	APG III system of classification of Flowering plants	11.04.2014
Mrs. Raneek Prakash (Tiary), Curator, Flowering plants, Department of Life Science (Plant Division), Natural History Museum, South Kensington; U.K.	Collection of Plants and Preparation of Herbarium	11.04.2014
Dr. A.K. Pandey Professor, Delhi University, Delhi	The Changing Paradigm of Angiosperm systematics.	17/05/2014
Dr. A.K. Pandey Professor, Delhi University, Delhi	Molecular Taxonomy	17/05/2014
Dr. A.K. Pandey Professor, Delhi University, Delhi	Naming of plants: ISBN to ICN	18/05/2014
Ms Gouri Nerkar DAAD Fellow (Germany)	Plastid transformation in plants	22/07/2014
Ms Gouri Nerkar DAAD Fellow (Germany)	How to get a foreign scholarship including DAAD etc and also Post-doctoral fellowship under awareness programme	22/07/2014
Dr. P.B. Nandkar Emeritus Professor and Ex Head Department of Botany, Nagpur University, Nagpur	Biological Nitrogen Fixation	01/09/2014
Dr. Shiba Prasad Rath, Emeritus Professor, Department of Botany, Utkal University, Bhubaneswar	In-vitro studies on Medicinal plants	09/07/2015
Dr. Ajit Bharti Assistant Professor, University of Boston, USA	Molecular to Mechanisms	16/07/2015
Dr. Ashok Panigrahi, Emeritus Professor, Department of Botany, Berhampur University, Odisha	Industrial Pollution and Waste Phyto remediation	20/08/2015
Swadha Roy, Consultant of Marketing at IT	Behavioral Competence in Learning	03/09/2015
Dr. C.K. Panda, Senior Assistant Director and Head, Department of Oncogene Regulation, Chittaranjan National Cancer Institute, Kolkata	Molecular Genetics of Cancer	15/02/2016

45. List the teaching methods adopted by the faculty for different programmes.

- Multi Media

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

Regular seminars are held to ensure students participation and improvement, Introduction of Dissertation/Project work in PG/M.Phil. programmes, Induction of Pre-, Mid-, and Final Ph.D. Seminars to evaluate research progress, Consistent Research Activities with research publications, Participation in national and International Conference/ Seminars and workshop.

47. Highlight the participation of students and faculty in extension activities.

- Students and faculties are motivated to attend National and International conference/seminars/congress and workshops.

48. Give details of “beyond syllabus scholarly activities” of the department

- Academic Excursions
- Local field visit
- Visit to different labs: Indian Forest Productivity (IFP), Lalgutua Indian Institute of Resin and Gums (IIRG), Namkum Central Tasar Reaserch and Training Institute (CTR TI), Nagari
- Social and Cultural activities
- Plantation Programme
- Tutorial classes are the part and parcel of the curriculum, so that interaction may be done at personal level which is very helpful in overcoming hesitations and consequently teaching-learning process is improved.
- Celebration of World/National Days:

49. State whether the programme/department is accredited/ graded by other agencies?

If yes, give details.

– No

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

– Ethnobotanical and Taxonomical Survey of Jharkhand state through Projects and Ph.D. programmes

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Title	Description
Challenges	To develop PG department (Botany) through SAP (Special Assistant Program) to CAS (Centre of advance Studies)

Opportunities	Department being situated in such a state which is rich on account of Natural Resources in general and plant biodiversity in particular. Moreover, the belt is very rich in ethnic diversity. Therefore we have plenty of opportunities for academic and research activities which will help to educate poor local people and also to help them in exploring the potential plant wealth for employment and revenue generation
Strengths	Qualified faculties, Quality teaching with multimedia, Quality research activities, timely completion of courses
Weaknesses	Posts of faculty are vacant, Posts of non-teaching staff are also vacant

52. Future plans of the department.

- To open more vocational courses under the banner of the department to ensure specialized education to local people who cannot afford to go outstation and meet expenditure.
- To carry more advance studies on Cancer.
- To organize regular training programmes for local people related to Mushrooms, Cultivation of medicinal plants for self employment and revenue generation.
- To organize workshop for students/ researchers and teachers in specialized areas, like Molecular biology, biotechnology and Environmental Biology etc.
- To organize National and International Seminars
- To open more vocational courses under the banner of the Department to ensure specialized education to local students who cannot afford to go outstation due to financial constraints.