

Evaluative Report of the Department

1. Name of the Department : **Department of Geophysics**
2. Year of establishment: **1949**
3. Is the Department part of a School/Faculty of the university?:
Yes, Faculty of Sciences, BHU.
4. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.):
M. Sc. (Tech.)
5. Interdisciplinary courses and departments involved:
NIL
6. Courses in collaboration with other universities, industries, foreign institutions, etc.:
NIL
7. Details of programmes / courses discontinued, if any, with reasons:
NA
8. Annual/ Semester/Choice Based Credit System :
Semester
9. Participation of the department in the courses offered by other departments:
Department of Geology
10. Number of teaching posts sanctioned and filled (Professors/ Associate Professors/ Asst. Professors)

	Sanctioned	Filled
Professor	3	1
Associate Professors	6	5
Asst. Professors	9	5

11. Faculty profile with name, qualification, designation and specialization (D.Sc./D.Litt./ Ph.D./ M.Phil., etc.)

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. students guided for the last 4 years
1	Prof G S Yadav	Professor	Geohydrology, Electrical Methods	36	5
2	Prof K M Srivastava	Professor	Electronics	36	NIL
3	Prof R S Singh	Professor	Agriculture Meteorology	8	1
4	Prof M Banerjee	Professor	Geohydrology, Electrical Methods,	31	3
			Remote Sensing		
5	Prof S N Pandey	Professor	Climatology	30	1
6	Prof R Bhatia	Professor	Climatology, Climate Modelling	8	2
7	Prof N P Singh	Professor	Electromagnetic Methods,	8	4
			Magnetotelluric Methods		
8	Prof G P Singh	Professor	Climate Modelling	8	3
9	Prof H N Singh	Professor	Seismology, Seismic Methods	8	1
10	Dr M K Srivastava	Associate Professor	Environmental Meteorology	6	4

12. List of senior Visiting Fellows, faculty, adjunct faculty, emeritus professors

Dr C.L.Singh	Emeritus Professor	Exploration Geophysics	--	--
--------------	--------------------	---------------------------	----	----

13. Percentage of classes taken by temporary faculty – programme-wise information:

6 credits out of 120

14. Programme-wise Student Teacher Ratio:

123 Students/ 10 Teaches

15. Number of academic support staff (technical) and administrative staff: sanctioned and filled:

Technical: Nine Sanctioned/ Eisht filled

Office: Three Sanctioned/ Three filled

16. Research thrust areas recognized by funding agencies:

**Geohydrology, Agriculture Meteorology,
Climatology, Climate Modeling, Environmental
Meteorology**

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies and grants received project-wise.

Sl No.	Name of Faculty	Status	Total Grants Received	Name of Funding Agency
1.	Prof. G. S. Yadav	National	25.46	DST
2.	Prof. R. S. Singh	National	22.22	DST, MoES
3.	Dr. R Bhatla	National	24.30	DST
4.	Dr G. P. Singh	National	36.10	DST, DRDO
5.	Dr. M. K. Srivastava	National	31.00	ISRO

24. Areas of consultancy and income generated :

NA

25. Faculty selected nationally/ internationally to visit other laboratories in India and abroad

Sl No	Name of faculty	Visiting Status	Visited Place	Duration (From-To)
1.	Dr M. K. Srivastava	National	VSSC, Trivandrum	June 9-10, 2010, June 21-23, 2012
	Dr M. K. Srivastava	International	ICIMOD, Kathmandu, Nepal	June 9-14, 2013
2.	Dr R Bhalla	International	ICIP, Italy	May - June, 2008, 2011, 2012

26. Faculty serving in

- a) National committees b) International committees c) Editorial Boards d) any other (please specify)

--	--	--	--	--

27. Faculty recharging strategies

28. Student projects

- percentage of students who have done in-house projects including inter-departmental projects: 40%
- percentage of students doing projects in collaboration with other universities / industry / institute 60%

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

- Faculty:
- Doctoral / post doctoral fellows
- Students

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

International Conf, December 2010, Multiple Funding agencies

ARM IAAS-2012, November 2012, IMD-MoES

31. Code of ethics for research followed by the departments:

The department follows the code of ethics in research of the university.

32. Student profile course-wise:

Name of the Course (refer to question no. 4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
M. Sc. (Tech.)	NA	32	10		

33. Diversity of students (2012-13)

Name of the Course (refer to question no. 4)	% 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. (Tech.)		27	05	Nil.

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

35. Student progression (2012-13)

Student progression	Percentage against enrolled
PG to Ph.D.	100%
Ph.D. to Post-Doctoral	NA
Employed	Data not available
<ul style="list-style-type: none"> • Campus selection • Other than campus recruitment 	

36. Diversity of staff

Percentage of faculty who are graduates	
of the same university	10/10
from other universities within the State	NIL
from universities from other States	NIL
from universities outside the country	NIL

37. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period

NA

38. Present details of infrastructural facilities with regard to

- | | |
|---|---|
| a) Library | More than 2200 books/ 50 journals |
| b) Internet facilities for staff and students | Every Teachers has computer facility with LAN and WAN internet connectivity; There are two computer laboratories with more than 50 computers connected to the internet through LAN. |
| c) Total number of class rooms | SIX |
| d) Class rooms with ICT facility | TWO |
| e) Students' laboratories | THREE |
| f) Research laboratories | NIL |

39. List of doctoral, post-doctoral students and Research Associates

a) from the host university :

i.

b) from other universities: 3

40. Number of post graduate students getting financial assistance from the university.

All the students get a sum of Rs 600/- per month for their final year study.

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

The team of teachers and students use to visit various organizations/ industries of in order to fulfill the course curriculum. During such visits, and other academia-industry interactions made during various occasions or through personal interactions, the progress of the courses concerned is estimated. These feedbacks are included in the course modification exercises every third year. These modifications are first discussed with the experts in the field from other

university/ research laboratories and the course modification committee then finalizes the new course curriculum of the study. The last such modification has been made during 2007-08 and 2011-12 sessions.

42. Does the department obtain feedback from YES NO
- faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?
 - students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?
 - alumni and employers on the programmes offered and how does the department utilize the feedback?
43. List the distinguished alumni of the department (maximum 10)
- Prof D P Ghosh, Univ Petronas, Malaysia
 - Prof V K Gaur, IIA, Bangalore
 - Prof J Shukla, Univ Massachusetts, COLA
 - Prof B R Arora, WIIIG
 - Prof U S De, IMD/ UniPune
 - Dr T Mukerjee, Stanford University
 - Dr A B Mazumdar, IMD
44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.
45. List the teaching methods adopted by the faculty for different programmes.

Chalk-Duster	Power Presentation	Point	Field Visits	Other Methods
Mostly	Sometimes (with note availability)	(with sheet	Sometimes (Once in two semesters compulsory)	Discussion/ Interaction/ Debate

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

The departmental administration tries to work on the thrust area of the department and publish the research result, apart from sharing the experiences with the students /PhD scholars.

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

Ground water exploration consultancy and weather analyses and forecasts are given to the desired individual /agencies as and when required.

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

The details of the course curriculum and its extended versions for CSIR-NIT exams is been discussed separately by the teachers of the department on one-to-one basis to the students, for their problem solving.

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.

NA

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

New knowledge in the field of Exploration Geophysics and Meteorology is being adopted by the faculties on regular basis, by either using internet facility or by participating in conference / seminars /workshops, generally on national level.

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

- *Strength: Well educated faculty members*
- *Weaknesses: Lack of young manpower*
- *Opportunities: To be at forefront in the petroleum exploration techniques / Weather forecasting*
- *Challenges: To carry out interdisciplinary research activities*

52. Future plans of the department.

The department is on the progress in the field of research as well as teaching since its beginning, however, since new entries have been inducted as faculty members the research record has increased exponentially. The department future plan is to adopt more and more advanced topics in its curriculum, and to be included in national as well as international arena with better and important research activity for the benefit of the society in future.