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# IQAC NEWS

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INTERNAL QUALITY ASSURANCE CELL

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News From IQAC

## **A Look into the First Stage of Research at PU: Supervision of Research**

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For many years now PU has been rated very high on the number of research papers and research citations. Some people say that most of that achievement is the consequence of a handful of departments performing extraordinarily well. However, other departments too contribute considerably to the research performance of PU.

This becomes evident when we dig into various aspects of research performance of PU.

The first stages of research at a university involve a single research student who works under the supervision of a senior practitioner in that field of knowledge.

So, how does the supervision happens? What does data tell us about PU?

Recently we inquired into statistical information about Research Supervision at PU according to the information made public by the various departments of PU.

Below we share a number of interesting insights into how the first stages of research are organized at PU.

For the sake of convenience in the present description we shall use the term 'department' for all academic units irrespective of whether they are a department or a centre.

- A total 66 departments at PU reported that they had registered research scholars
- A total 2911 research scholars were reported to have been registered at the various departments of PU.
- The Department of Education has the largest number of registered research scholars (291), followed by the Department of Laws (261).
- The Departments of Chinese and Tibetan Studies, and of Nano-Sciences have one Research student each.
- The Departments of Botany, Chemistry, Physics, and Physical Education have more than 100 registered research scholars.
- 4 departments have between 70 to 100 registered research students. These departments include Economics, Music, Sociology and UIPS.

- 10 departments have between 50 to 70 registered research students.
- 20 departments have between 20 to 50 registered research students.
- 24 departments have less than 20 registered research students.
- In some departments, like Russian, the faculty member of the department is the main supervisor of research for a scholar registered with the Department of Defence Studies because the subject of research is such that it is best located in that department.  
(a list of department along with their registered research scholars is given at the end.)

### Supervisors for Students: a General Summary

Following upon a trend to have multiple supervisors, a number of scholars were assigned multiple supervisors.

This was an indicator of, among other things, the complexity of the problem on which the researcher was working. That it required that the researcher have access to guides from diverse disciplines.

Having multiple supervisors would also be an indicator of the reach that the department has with other professional experts in the field and the ability of the department to involve them in the research work done at the department.

- Number of research scholars with three supervisors: 50
- Number of research scholars with two supervisors: 648

- Number of research scholars with one supervisor: 2901

### Departments that assigned three supervisors to a research scholar:

The total number of departments that assigned three supervisors to a research scholar was 18.

- The largest number of research scholars (8) with three supervisors were in the Department of Physics.
- The Centre for Nuclear Medicine had 7 researchers with three supervisors
- The Department of Geology had 6 researchers with three supervisors
- There were eight departments in which only one student had been assigned three supervisors. These were: Department of Biophysics, Centre for Systems Biology and Bioinformatics (U.I.E.A.S.T.), Department of Anthropology, Department of Chemistry, Department of Computer Science & Applications, Department of Environment Studies, Department of Microbial Biotechnology, Department of Statistics

### Number of Research Students who have two supervisors:

- The Department of Laws has the most Research Students (93) who have two supervisors. One such supervisor is even a former Judge of the High Court with the co-supervisor being from the department.
- The Department of Physics has 69 Researchers with more than two supervisors, followed by Chemistry, Botany, Microbiology etc.
- Seven departments are those in which at least one student is supervised by two supervisors.

A list of Departments showing the number of students who have two supervisors

Centre for Human Rights & Duties (U.I.E.A.S.S)	2
Centre for Medical Physics (U.I.E.A.S.T.)	5
Centre for Nuclear Medicine (U.I.E.A.S.T.)	6
Centre for Police Administration (U.I.E.A.S.S)	7
Centre for Public Health (U.I.E.A.S.T.)	7
Centre for Social Work (U.I.E.A.S.S)	1
Centre for Stem Cell & Tissue Engineering	2
Centre for Systems Biology and Bioinformatics (U.I.E.A.S.T.)	2

Department Cum Centre for Women's Studies & Development	3
Department Cum National Centre for Human Genome Studies and Research	2
Department of Anthropology	18
Department of Biochemistry	16
Department of Biophysics	15
Department of Biotechnology	5
Department of Botany	30
Department of Chemistry	55
Department of Computer Science & Applications	18
Department of Defence and National Security Studies	1
Department of English & Cultural Studies	1
Department of Environment Studies	11
Department of Gandhian And Peace Studies	1
Department of Geography	5
Department of Geology	14
Department of Guru Nanak Sikh Studies	11
Department of Laws	93
Department of Mathematics	3
Department of Microbial Biotechnology	13
Department of Microbiology	29

Department of Music	7
Department of Philosophy	1
Department of Physical Education	2
Department of Physics	69
Department of Political Science	2
Department of Psychology	10
Department of Public Administration	12
Department of Punjabi	5
Department of Sociology	1
Department of Statistics	16
Department of Zoology	11
Energy Research Centre	16
Institute of Forensic Science & Criminology (U.I.E.A.S.T.)	7
S. S. Bhatnagar University Institute of Chemical Engineering & Technology	11
Ugc-Centre of Excellence In Applications of Nanomaterials, Nanoparticles & Nanocomposites	1
University Business School	7
University Institute of Engineering & Technology	21
University Institute of Fashion Technology & Vocational Development	2
University Institute of Pharmaceutical Sciences	18



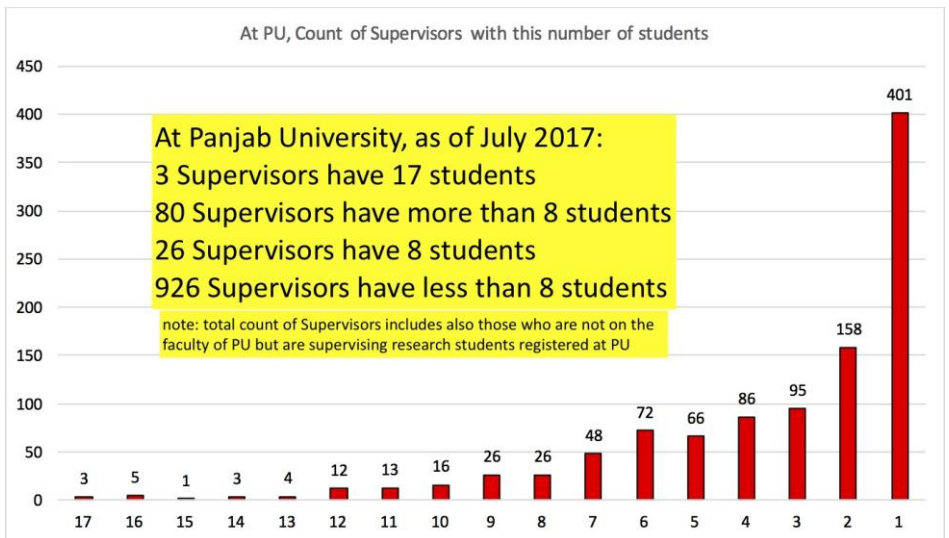
## How many Supervisors have what number of students?

### Note:

1. total count of Supervisors includes people other than those who are on the faculty of PU
2. Total number of Researchers reported as 'registered' includes some who have yet not been assigned a supervisor

Supervising Number of Research Students	Count of Supervisors with this number of students
17	3
16	5
15	1
14	3
13	4
12	12
11	13
10	16
9	26

8	26
7	48
6	72
5	66
4	86
3	95
2	158
1	401



## A list of supervisors supervising more than 8 students at PU:

Note:

1. total count of Supervisors includes people other than those who are on the faculty of PU
2. Total number of Researchers reported as 'registered' includes some who have yet not been assigned a supervisor

<b>Name of Supervisor</b>	Supervising Number of Research Students
D.K. Dhawan	17
S.K. Tripathi	17
Devinder Singh	16
Nishtha Jaswal	16
R.K. Wanchoo	16
Rajat Sandhir	16
Saroj Ghosh	16
Amrit Pal Toor	15
Abhik Ghosh	14
Jagdeep Kaur	14
Pankaj Mala Sharma	14
Ashu Pasricha	13

Bhupinder Singh Bhoop	13
H.P. Singh	13
Sonal Singhal	13
A.K. Sinha	12
Archana Bhatnagar	12
Bhajan Kaur	12
Daizy R. Batish	12
Gurmeet Singh	12
Jaspal Kaur Kaang	12
Kanchan K Jain	12
Naval Kishore	12
Navneet Kaur	12
Ranbir Kaur	12
Shalini Marwaha	12
Vijay Nagpal	12
A. S. Ahluwalia	11
Anil Monga	11
Arvind Sharma	11
J.K. Chauhan	11
M. Rajivlochan	11
O. P. Katare	11
P.S. Jaswal	11

Paramjit Kaur	11
R.K. Singla	11
Sanjay Chhibber	11
Smita Bhutani	11
Sukhdev Singh	11
Swinder Singh	11
Gurjaspreet Singh	10
Indu Pal Kaur	10
Jaspreet Kaur	10
Jitendra Mohan	10
Kewal Krishan	10
Manish Sharma	10
Praveen Rishi	10
Rajinder Kaur	10
Renu Chadha	10
Renu Vig	10
Sanjeev Puri	10
Savita Uppal	10
Seema Vinayak	10
Sukhbir Kaur	10
Vinod Kumar	10
Yog Raj	10

Akshat Mehta	9
Ashutosh Kumar	9
Babita Devi	9
Ganga Ram Chaudhary	9
Joginder Singh Nehru	9
Jyoti Rattan	9
Kalpna Thakur	9
Kamaljit Singh	9
Kashmir Singh	9
Kusum Harjai	9
Meenu Paul	9
Navdeep Goyal	9
Naveen Gupta	9
Neera Garg	9
Parminder Singh	9
Prem Lal Sharma	9
R. K. Kohli	9
Ranjay Vardhan	9
Ravinder Kaur	9
Sangita Bhalla	9
Seema Singh	9
Sudhansu Kumar Sarangi	9

Sukhmani Bal Riar	9
Sukhwinder Singh	9
Vijay Phogat	9

### List of Number of scholars, department-wise

<b>DEPARTMENT NAME</b>	<b>Number of Researchers</b>
1. CENTRE FOR HUMAN RIGHTS & DUTIES (U.I.E.A.S.S)	12
2. CENTRE FOR MEDICAL PHYSICS (U.I.E.A.S.T.)	7
3. CENTRE FOR NANOSCIENCE & NANOTECHNOLOGY (U.I.E.A.S.T.)	3
4. CENTRE FOR NUCLEAR MEDICINE (U.I.E.A.S.T.)	13
5. CENTRE FOR POLICE ADMINISTRATION (U.I.E.A.S.S)	27
6. CENTRE FOR PUBLIC HEALTH (U.I.E.A.S.T.)	10
7. CENTRE FOR SOCIAL WORK (U.I.E.A.S.S)	8
8. CENTRE FOR STEM CELL & TISSUE ENGINEERING	3
9. CENTRE FOR SWAMI VIVEKANANDA STUDIES	2
10. CENTRE FOR SYSTEMS BIOLOGY AND BIOINFORMATICS (U.I.E.A.S.T.)	4
11. DAYANAND CHAIR FOR VEDIC STUDIES	6
12. DEPARTMENT CUM CENTRE FOR WOMEN'S STUDIES & DEVELOPMENT	16
13. DEPARTMENT CUM NATIONAL CENTRE FOR HUMAN GENOME STUDIES AND RESEARCH	4

14. DEPARTMENT OF ANCIENT INDIAN HISTORY, CULTURE & ARCHAEOLOGY	15
15. DEPARTMENT OF ANTHROPOLOGY	61
16. DEPARTMENT OF ART HISTORY & VISUAL ARTS	17
17. DEPARTMENT OF BIOCHEMISTRY	46
18. DEPARTMENT OF BIOPHYSICS	25
19. DEPARTMENT OF BIOTECHNOLOGY	24
20. DEPARTMENT OF BOTANY	109
21. DEPARTMENT OF CHEMISTRY	134
22. DEPARTMENT OF CHINESE AND TIBETAN LANGUAGES	1
23. DEPARTMENT OF COMMUNITY EDUCATION AND DISABILITY STUDIES	24
24. DEPARTMENT OF COMPUTER SCIENCE & APPLICATIONS	46
25. DEPARTMENT OF DEFENCE AND NATIONAL SECURITY STUDIES	18
26. DEPARTMENT OF ECONOMICS	95
27. DEPARTMENT OF EDUCATION	291
28. DEPARTMENT OF ENGLISH & CULTURAL STUDIES	66
29. DEPARTMENT OF ENVIRONMENT STUDIES	34
30. DEPARTMENT OF EVENING STUDIES - MULTI DISCIPLINARY RESEARCH CENTRE	27
31. DEPARTMENT OF FRENCH AND FRANCOPHONE STUDIES	4
32. DEPARTMENT OF GANDHIAN AND PEACE STUDIES	36
33. DEPARTMENT OF GEOGRAPHY	69
34. DEPARTMENT OF GEOLOGY	44



35. DEPARTMENT OF GURU NANAK SIKH STUDIES	14
36. DEPARTMENT OF HINDI	40
37. DEPARTMENT OF HISTORY	65
38. DEPARTMENT OF INDIAN THEATRE	11
39. DEPARTMENT OF LAWS	261
40. DEPARTMENT OF LIBRARY & INFORMATION SCIENCE	16
41. DEPARTMENT OF MATHEMATICS	27
42. DEPARTMENT OF MICROBIAL BIOTECHNOLOGY	21
43. DEPARTMENT OF MICROBIOLOGY	61
44. DEPARTMENT OF MUSIC	88
45. DEPARTMENT OF PHILOSOPHY	33
46. DEPARTMENT OF PHYSICAL EDUCATION	121
47. DEPARTMENT OF PHYSICS	118
48. DEPARTMENT OF POLITICAL SCIENCE	51
49. DEPARTMENT OF PSYCHOLOGY	65
50. DEPARTMENT OF PUBLIC ADMINISTRATION	63
51. DEPARTMENT OF PUNJABI	59
52. DEPARTMENT OF SANSKRIT	27
53. DEPARTMENT OF SOCIOLOGY	90
54. DEPARTMENT OF STATISTICS	24
55. DEPARTMENT OF URDU	8
56. DEPARTMENT OF ZOOLOGY	43

57. ENERGY RESEARCH CENTRE	20
58. INSTITUTE OF FORENSIC SCIENCE & CRIMINOLOGY (U.I.E.A.S.T.)	16
59. NANO SCIENCES	1
60. S. S. BHATNAGAR UNIVERSITY INSTITUTE OF CHEMICAL ENGINEERING & TECHNOLOGY	28
61. SCHOOL OF COMMUNICATION STUDIES	20
62. UNIVERSITY BUSINESS SCHOOL	32
63. UNIVERSITY INSTITUTE OF ENGINEERING & TECHNOLOGY	55
64. UNIVERSITY INSTITUTE OF FASHION TECHNOLOGY & VOCATIONAL DEVELOPMENT	12
65. UNIVERSITY INSTITUTE OF PHARMACEUTICAL SCIENCES	85
66. VISHVESHVARANAND VISHWA BANDHU INSTITUTE OF SANSKRIT AND INDOLOGICAL STUDIES	35
<b>Total Research Scholars reported to be registered with departments of PU as of July 2017</b>	<b>2911</b>