

## 9. FACULTY OF PHYSICAL SCIENCES

### 9.1 DEPARTMENT OF CHEMISTRY

#### FACULTY

##### Professors

- |                             |                    |
|-----------------------------|--------------------|
| 1. Raman K. Verma, Ph.D.    |                    |
| 2. Ashok Kumar Malik, Ph.D. | <b>Head</b>        |
| 3. Balbir Kaur, Ph.D.       | <b>Re-employed</b> |

##### Associate Professors

1. Baljit Singh, Ph.D.
2. Mohd. Yusuf, Ph.D.

##### Assistant Professors

- |                                |                |
|--------------------------------|----------------|
| 1. Jaspreet Singh, Ph.D.       | (On leave)     |
| 2. Jatinder Singh Aulakh, Ph.D |                |
| 3. Manisha Bansal, Ph.D.       |                |
| 4. Harpreet Kaur, Ph.D.        |                |
| 5. Poonam Patyar, Ph.D.        |                |
| 6. Sushila Rani, Ph.D          | <b>(Adhoc)</b> |

#### COURSES

- |   |  |
|---|--|
| <p><b>1. M.Sc. Chemistry (2 years)</b></p> <p>Students Intake: 60 M.Sc.-I<br/>M.Sc.-II yr(M.Sc. 1yr students will be distributed 1/3 seats each in Physical, Organic &amp; Inorganic Chemistry)</p> <p>Pre-requisite: B.Sc. with Chemistry or B.Sc. (Hons. School) in Chemistry</p> <p>Career Options: Teaching, Research and Industry.</p> |  |
| <p><b>2. M.Phil (1½ years)</b></p> <p>Students Intake: 15</p> <p>Pre-requisite: M.Sc. in respective dicipline (5 seats each in Physical, Organic &amp; Inorganic Chemistry). Any Number of seats if left vacant will be provided to candidates having M.Sc. in general Chemistry.</p>   |  |

Phone No. 0175-304-6409 (H)

0175-304-6410 (O)

Email: headchemistrypup@gmail.com

**About the Department-** The Department of Chemistry is one of the first three departments which started functioning with the inception of Punjabi University in 1963. The Ministry of Environment, Government of India, has recognized the Department of Chemistry as a centre for the pollution control and environmental analysis. At present, the Department is offering Organic, Inorganic and Physical Chemistry specializations to M.Sc. and M.Phil. students. The Department has been awarded SAP DRS-II (2014-2019) and FIST (2009-2014) assistance by UGC and DST, New Delhi, respectively. The Department has a well established Instrumentation Lab. Equipped with GC-MS, CHNS Analyzer, IR, UV-Visible and Fluorescence Spectrophotometer. Installation of FTIR, TGA/DTA, HPLC and Flash Chromatography System is in process with SAP: DRS-II assistance. Apart from teaching assignments the faculty of the department is engaged in many Government and Industrial sponsored major research projects.

### 9.3 DEPARTMENT OF FORENSIC SCIENCE

#### FACULTY

##### Professors

1. Rakesh Mohan Sharma, Ph.D.
2. Mukesh Kumar, Ph.D.
3. R.K. Garg, Ph.D.

*Re-employed*

##### Associate Professors

1. Komal Saini, Ph.D.
2. Rajinder Singh, Ph.D.

**Head**

#### COURSES

##### 1. M.Sc. Forensic Science (2 years)

Student Intake: 21

Pre-requisite: B.Sc. with Chemistry as one of the major subjects for all the three years and any two of the following subjects: Anthropology/ Biochemistry/ Biotechnology / Botany/ Genetics/ Mathematics/ Physics/ Statistics/ Zoology/ B.Pharm./ B.Sc.(Forensic Science)

**Career Options:** Teaching, Research, Police, Forensic Laboratories, Consultancy.

**Note:** There will be two additional seats for employees of various Forensic Science Laboratories in the country. Only state-sponsored candidates will be considered for admission and employees of Punjab state will be given preference.

Phone No. 0175-304-6271 (H)

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Email- fscup@gmail.com

## 9.4 DEPARTMENT OF GEOGRAPHY

### FACULTY

#### Professors

1. Yadvinder Singh, Ph.D.
2. Gurinder Kaur, Ph.D

**Head**  
**Re employed**

#### Assistant Professors

1. Baljit Kaur, Ph. D.
2. Apperdeep Kaur, M.Sc.
3. Shivjeet Kaur, Ph.d.

### COURSES

#### 1. M. Sc. Geography (2 years)

Student Intake: 37

Pre-requisite: B.A. /B.Sc. with Geography.

Career Options: 1. Teaching, Research in Geography.

2. Professional expertise in Remote Sensing & GIS by going in for degree or diploma course in Geoinformatics.

3. Students stand eligible to undertake professional courses like Town & Country Planning.

Phone No. 0175-304-6173 (H)

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E-Mail.: head\_geography@pbi.ac.in

## 9.5 DEPARTMENT OF MATHEMATICS

### FACULTY

#### Professor

1. Satyabir Singh, Ph.D.

#### Associate Professor

1. Navpreet Singh Noorie, Ph.D. Head

#### Assistant Professors

1. Shalini Gupta, Ph.D.
2. Shally Arora, Ph.D.
3. Rajni Bala, M. Sc.
4. Arjan Singh, Ph.D.
5. Mukhdeep Singh Manshahia, Ph.D.
6. Jasleen Kaur, Ph.D.
7. Deepak Kumar, Ph.D.
8. Rupali, M.Sc., M.Phil.
9. Sharandeep Singh, M.Sc. (Contract)
10. Dev Prakash Singh, Ph.D (Adhoc)

### \*COURSES

<p><b>1. M.Sc. Mathematics (2 years)</b>                      Pre-requisite: B.A./B.Sc. with Mathematics or Hons. in Mathematics                      Career Options: Teaching, Research.</p>	Student Intake: 59
<p><b>2. M.Sc. Applied Mathematics and Computing (2 years)</b>                      Pre-requisite: B.A./B.Sc. with Mathematics or Hons. in Mathematics                      Career Options: Teaching, Research &amp; Industry.</p>	Student Intake: 20
<p><b>3. B.Sc. Mathematics and Computing (3 years)</b>                      Pre-requisite: 10+2 with Mathematics                      Career Options: Computer and Management Industry, Teaching, Research.</p>	Student Intake: 30
<p><b>4. B.Sc. Honours in Mathematics (3 years)</b>                      Pre-requisite: 10+2 with Mathematics                      Career Options: Teaching, Research &amp; Industry.</p>	Student Intake: 30

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\*Admission to all the above courses will be through Entrance Test.

## 9.6 DEPARTMENT OF PHYSICS

### FACULTY

#### *Professor Emeritus*

B.S. Sood, Ph.D.

#### Professors

1. Balvir Singh Sandhu, Ph.D.	
2. Parjit Shamsher Singh, Ph.D.	<b>Head</b>
3. Vijay Kumar Mittal, Ph.D.	<b>Re-employed</b>
4. Harbhajan Singh Bhatti, Ph.D.	<b>Re-employed</b>
5. Darshan Singh, Ph.D.	<b>Re-employed</b>
6. Raj Mittal, Ph.D.	<b>Re-employed</b>
7. Bhajan Singh, Ph.D.	<b>Re-employed</b>
8. Gurmel Singh, Ph.D.	<b>Re-employed</b>
9. Paramjit Singh Goraya, Ph.D.	<b>Re-employed</b>

#### Assistant Professors

1. Vinayak Garg, Ph.D.
2. Supreet Pal Singh, Ph.D.
3. Karamjeet Singh Dhaliwal, Ph.D.
4. Maninder Kaur, M.Sc.
5. Babita Rani, M.Sc.
6. Gurjeet Singh, Ph.D.
7. Jaspal Singh, Ph.D.
8. Jaskaran Singh, M.Sc., U.G.C. (NET).

### COURSES

- |  |                    |
|--|--------------------|
| 1. <b>M.Sc. Physics (2 years)</b>  | Student Intake: 50 |
| 2. <b>M.Sc. Applied Physics (2 years)</b>  | Student Intake: 50 |
| 3. <b>M.Sc. Astronomy and Space Physics (2 years)</b>  | Student Intake: 25 |
| 4. <b>M.Sc. Physics (Nano Science &amp; Technology) (2 year)</b>   | Student Intake: 25 |
| Pre-requisite for all M.Sc.:   |                    |
| B. Sc. with Physics and Mathematics, the third subject may be any other, Chemistry/Computer Science/Electronics/Computer Maintenance/Space Science/Statistics etc. |                    |
| or   |                    |
| B. Sc. (Hons. in Physics)  |                    |
| Career Options: Teaching, Research and Industry.   |                    |
| 5. <b>Post M.Sc. Diploma in Space Science (1 year)</b>   | Student Intake: 25 |
| Pre-requisite: M.Sc Physics or M.Sc. Applied Physics or M.Sc. Astronomy and Space Physics.   |                    |

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**About the Department:** Physics department has presently status of CAS (Center of Advanced Study) Phase-II under UGC SAP (Special Assistance Programme) assistance with Radiation Physics and Material Science as thrust areas. This status to the department is granted upon successful completion of various phases (DRS, COSIST, DSA and CAS Phase-I) of UGC SAP Programmes. The research contribution of department in Nuclear Radiation Physics and Applications is well recognized both at National and International levels. The staff has attracted funds to the tune of over Rs. 4.5 crores during the past 7 years from various National funding agencies.

## 9.7 DEPARTMENT OF STATISTICS

### FACULTY

#### Professors

1. Mukesh Kumar Sharma, Ph.D.
2. Davinder Kumar, Ph.D.
3. H.S. Jhajj, Ph.D.

*Re-employed*

#### Associate Professor

1. Upasana Sharma, Ph.D.

**Head**

#### Assistant Professors

1. Neelam Kumari, Ph.D.
2. Rohtash Kumar, Ph.D.
3. Sarbjit Singh Brar, Ph.D.

### COURSES

#### 1. Master of Statistics (2 years)

Students Intake: 33

Pre-requisite: B.A./B.Sc. with Statistics or Mathematics or Graduate in any discipline with Statistics/Mathematics/Quantitative techniques as one of the papers provided the student had Mathematics at 10+2 level.

Career Options: Teaching, Research, Govt. Service, Industry.

#### 2. B.Sc. (Computer Science, Statistics & Mathematics) (3 years)

Students Intake: 33

Pre-requisite: 10+2 with Math.

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0175-304-645 (O)

## 9.8 UNIVERSITY COMPUTER CENTRE

### FACULTY

1. Kawaljeet Singh, Ph. D. Director
2. Dalbir Singh, MCA. System Analyst
3. Smt. Vibhu Sharma, MCA, M.Phil, Programmer
4. Santbir Singh, MCA, Programmer
5. Arshdeep Singh, MCA Trainee Programmer

### COURSES

1. PG Diploma in Computer Applications (PGDCA)  
Duration : 1 Year (Semester System comprising of two semesters)
2. PG Diploma in Computer Maintenance and Networking (PGDCMN)  
Duration : 1 Year (Annual System)
3. PG Diploma in Internet and Web Designing (PGDIW)  
Duration : 1 Year (Annual System)

#### Common Information for all the three Diploma Courses (1, 2 & 3)

- I. Students Intake : 50
- II. Pre-requisite: Graduation in any discipline.
- III. Admission Procedure: On the basis of the Merit of marks obtained at the graduation level and weightage admissible to NCC, NSS, Youth activities for A, B or C Certificates on marks obtained at the Graduation level.
- IV. All the Diploma Courses are minor courses and can be joined along with any other course of Punjabi University.
- V. The University will not provide hostel facility for these courses. However, depending upon the availability the same may be considered.
- VI. The medium of examination shall be English only.
- VII. Classes of the course are held from 5.00 pm to 7.00 pm, weekends or on holidays.
- VIII. All these courses are run in self-financed mode. Minimum strength to be ensured for the commencement of any above said course is 20. In case of non-commencement of the course due to shortage of students, no admission form fees will be reimbursed.
- IX. In-service candidates are required to submit "No Objection Certificate" from the employer.
- X. Additional 5 seats for University employees are reserved in PGDCA Course.

#### Contact details:

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|-------------------------------------|--------------------------|
| 1. Dr. Kawaljeet Singh, Director    | singhkawaljeet@pbi.ac.in |
| 2. Sh. Dalbir Singh, System Analyst | dalbir@pbi.ac.in         |

Phone No. 0175-3046314, 2286570(Head)

0175-3046315 (Office)

## 9.9 PUNJABI COMPUTER HELP CENTRE

### FACULTY

Dr. Devinder Singh (*Director*)  
 Dr. C.P. Kamboj (Assistant Professor)

**1. Certificate Course in Punjabi Computing (Evening)** Students Intake: 20

Pre-requisite: 10+2

**Admission Procedure:**

1. On the basis of the Merit.
2. Course is minor course and can be joined along with any other course of Punjabi University.
3. The University will not provide hostel facility for these courses.
4. The Medium of instructions and examination shall be Punjabi only.

**2. Seven Days Workshop on Use of Computer in Punjabi Language".** Students Intake: 20

Pre-requisite: Faculty Members, Research Scholar(Ph.D or M.Phil) and Minimum Graduate students, Writers, Media Persons and all Outside Candidates.

Preference will be given to those researchers who are writing their thesis in Punjabi Medium.

**Admission Procedure:** These workshops are conducted continuously throughout the year. Details are displayed online on University website link [www.punjabicomputer.com](http://www.punjabicomputer.com) and the information is also circulated through departmental notices.

**3. Crash Courses: Ten Different Subject.** Student Intake:20

Pre-requisite: Graduation

**Admission Procedure:**

Applications are accepted through out the year. The concerned subject course is imparted on the completion of students group. Entrance on the basis of "First come, First serve".

**4. Refresher Course** Student Intake:20

Pre-requisite: Having completed Seven Days Workshop from this centre. Two Groups/Per Year.

**Admission Procedure:**

Applications are accepted through out the year. Entrance on the basis of "First come, First serve".

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