



Shree Guru Gobind Singh Tricentenary University, Gurugram

Faculty of Physical Sciences



Faculty of Physical Sciences

Department	Teaching Staff	Non Teaching Staff
Physics	06	02 (Lab Tech)
Chemistry	05 + 01 (Guest Faculty)	01 (Lab tech)
Mathematics	08	00
Forensic Science	04	00
Environmental Science	05	00
Deans Office	00	02 {one Assistant (FAS & FPS) + one attendant}
Total:	28 +01 (Guest faculty)	05



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Courses Offered	Strength of Students
B.Sc. (NM)	43
B.Sc. (Hon) Mathematics	21
B.Sc. (Forensic Science)	20
M.Sc. (Chemistry)	21
M.Sc. (Physics)	10
M.Sc. (Forensic Sciences)	06
PhD (Physics)	01
PhD (Maths)	01
Ph.D (Chemistry)	00
Ph.D. (Forensic Science)	03
Total	126



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Curriculum:

- Adjusted credits and syllabus as per UGC norms
- Added Open elective papers, University Elective papers and Value added papers .
- Inclusion of Extra curricular activities.
- Industry connects:

Alumni connects:

- Panel constituted and Strong Alumni has been identified
- Updating of data will be continued on regular basis



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Continued.....

- **M.Sc. Projects**

In the new curriculum, **projects have been made a core paper**

- **Faculty profiles** are excellent

Most of the faculty members are Ph.D. from reputed Institutions

- **Research Lab.**

Planning to establish research in the department.

- **Research Project.**

Scholar Projects (04)



Faculty of Physical Sciences Result

Subject	Courses	Result (Jan–May 2017)
Physics	B.Sc(NM)	97%
	M.Sc(Physics)	90%
Chemistry	B.Sc(NM)	90%
	M.Sc(Chemistry)	96%
Mathematics	B.Sc(NM)	86%
	B.Sc(Hon)	82%

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Result

Subject	Courses	Result (July – December 2017)
Physics	B.Sc(NM)	93.3%
	M.Sc(Physics)	86.0%
Chemistry	B.Sc(NM)	93%
	M.Sc(Chemistry)	85%
Mathematics	B.Sc(NM)	79.5
	B.Sc(Hon)	67%



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Mentor–Mentee Program

Mentor–Mentee program has been implemented in the faculty as per SGT University Guidelines:

1. The students observed to be absent for more than three days were consulted and accordingly their parents were intimated on phone. As a result the improvement in attendance has been observed.
2. The percentage of mass bunk in the classes has been reduced by proper counseling and timely guidance to students
3. Mentor –Mentee meetings are being held on every odd Monday and Issues of students has been taken on priority bases. Most of the issues have been resolved i.e. Requirement of Marks for UGC/CSIR NET form filling, Issue of certificates, teaching Methodology etc.
4. Students are more disciplined regarding uniforms and in class room study.



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Teaching activities

No. of classes /Hours	Course completion	Problems encountered	Suggested remedies	Teaching methodology used (percentage of each method used)	Details of Choice based credit system
45	100%	Students complaints regarding faculty teaching methods	The concerned faculty has been consulted and properly guided for teaching learning process. Improvement has been observed	SIS = 50% SS = 10% PBL = 20% SGD = 10% Tutorials = 10%	Introduced Choice based credit system for 2018-19 batch students



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Examination and evaluation

Courses	Formative Assessment	Summative Assessment
B.Sc.(Hons)	1. Assignment 2. Class Test 3. Seminar 4. Presentation 5. Sessional Examination (Already conducted in First week of March 2018)	End term examination will be conducted by the university (Theory & Practical) in May 2018
B.Sc.(Non Medical)		
B.Sc. (Forensic Sciences)		
M.Sc.(Chemistry)		
M.Sc.(Physics)		



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Department	Publications/ Books (February & March 2018)	Conferences/ Seminars/ Workshops (February to April 2018)	Industrial/ Educational Visits	Guest Lectures
Physics	02	02		01
Chemistry	00	02		01
Mathematics	01	01		00
Forensic Science	00	03+1 (organized)		01
Environment al	00	03		02
Total:	03	10	06	05

Publications

Sr. No.	Name of Author	Name of Journal	Paper Title	year
01	Ram Chhavi Sharma	American Journal of Environmental Protection” 2018 Vol. 6, No. 1, pp 14-21 DOI:10, 12691/env-6-1-3(ISSN: 2328-7233) Peer Reviewed, Google Scholar Indexed & Impact factor Journal	Statistical Investigation of effect of Rainfall on air pollutants in the atmosphere, Haryana State, Northern India	Feb., 2018
02	Sudhakar Chaudhary	Computers & Mathematics with Applications. (Elsevier)	Finite element analysis of nonlocal coupled parabolic problems using Newton’s method .	Feb 2018



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Educational Visit
Solid State Physics Laboratory (SSPL), DRDO, Delhi
(April 24, 2018)





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INDUSTRIAL VISIT
Key Research & Development Centre, Unit of Crystal Crop
protection Ltd. Sonipat (Haryana)
April 21, 2018





Guest Lecture
Dr. Sunil Sharma, Scientist D, SSPL, DRDO, Delhi
Topic: GaN High Frequency Electron Mobility Transistors
(Applied Physics), 23/04/2018.





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Guest Lecture by Prof. R.K.Sharma, Department of Chemistry, Delhi
University (27/04/2018)
Topic: Green Chemistry



Marie Curie

Her death in 1934 was due to her massive exposure to radiation in her work, much of which was carried out in a shed with no proper safety measures being taken, as the damaging effects of hard radiation were not generally understood at that time. She was known to carry test tubes full of radioactive isotopes in her pocket, and to store them in her desk drawer, resulting in massive exposure to radiation. She was known to remark on the pretty blue-green light the metals gave off in the dark.

Awarded the Nobel Prize in Physics, 1903
Eight years later, she received the Nobel Prize in Chemistry, 1911





Faculty of Physical Sciences
Guest Lecture by Prof. R.K.Sharma, Department of Chemistry, Delhi
University (27/04/2018)
Topic: Green Chemistry



Extension Lecture on Air pollution & its effects

Dr. A.K.Haritach, Delhi Technical University (Feb. 10, 2018)



Cyber Security workshop March 30,2018



Cyber Security workshop March 30,2018





Awards / recognition

- ▶ Member Board of Study, Baba Mustnath University, Asthal Bohr, Rohtak
- ▶ **Peer Reviewer, Advances in Energy Research, An International Journal (South Korea)**



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Proposed activity in next 2 months

Admission	
FDP will be Organized	01
National Conference	01
Journal Publications	3-4



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Preparedness for next semester

- ▶ New curriculum and **Syllabus** has been designed as per UGC norm.
- ▶ Admission committee has been formed. The members are directed to have every care in dealing with students.
- ▶ Departmental committee's has been made for smooth conduct of FPS activities.
- ▶ Time table committee has been directed to prepare time table as per the allotted seats to each course.
- ▶ Faculty has been directed to use newer teaching methodologies as per IQAC guide lines in their student teacher learning process.