

EVALUATIVE REPORT-12

DEPARTMENT OF PHYSICS

1. Name of the Department **Physics**
2. Year of Establishment **B.Sc.(1962),M.Sc.(1968)**
3. Names of Programs /Courses offered **B.Sc.(PCM, PSC, PCS),
M.Sc., & Ph.D.**
(UG, PG, M. Phil, Ph.D., Integrated Masters; Integrated Ph.D., etc.)
4. Names of Interdisciplinary courses and the departments/units involved **Computer Dept.**
5. Annual/ semester/choice based credit system (program wise) **B.Sc. - Annual,
M.Sc. - Semester**
6. Participation of the department in the courses offered by other departments **NO**
7. Courses in collaboration with other Universities Industries, Foreign Institutions, etc. **NO**
8. Details of courses/programs discontinued (if any) with reasons **NIL**
9. Number of Teaching posts -

	Sanctioned	Filled
Professors		
Associate Professors		03
Asst. Professors	09	01
Part Time Lecturer		04

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D./M. Phil, etc.,) As on 31/10/2015

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of PhD Students Guided for the last 4 Years
Dr. Anjuli Khandelwal	M. Phil, M.Sc, Ph.D.	Associate Prof.&Head	-	23 Years	-
Dr. Neelam Sinha	M.Sc., M.Phil, Ph.D.	Associate Prof.	Electronics	15 Years	
Dr. Raj Kumar	M.Sc., M.Phil, Ph.D.	Asst. Prof.	Electronics	27 Years	-

Dr. G.P. Gupta	M.Sc, Ph.D.	Associate Prof.	Electronics	35 Years	-
Mr. Tushar Singhal	M.Sc.	Part Time Lecturer	Electronics	02	-
Ms. Sakshi Gaur	M.Sc.	Part Time Lecturer	Electronics	01	-
Ms. Neha Goel	M.Sc.	Part Time Lecturer	Electronics	01	-
Mr. Rohit Kumar	M.Sc.	Part Time Lecturer	Electronics	01	-

11. List of senior visiting faculty **NO**

12. Percentage of lectures delivered and practical classes handled (program wise) by temporary faculty - **B.Sc. Th. Practical**

55 55

M.Sc. 55 55

13. Student – Teacher Ratio (Programmer wise) **85:1 6:1**

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled **Lab Assistance-01**

15. Qualifications of teaching faculty with D.Sc./D..Lit./Ph.D./M.Phil./P.G.

Ph.D. 04

M.Phil 03

M.Sc. 04

16. Number of faculty with ongoing projects from

a) National **NIL**

b) International funding agencies and grants received **NIL**

17. Departmental projects funded by DST –FIST; UGC, DBT, ICSSR, etc. and total grants received **Details from Resume**

18. Research Centre / facility recognized by the University **NIL**

19. Publications

a) Publication per faculty

Name	Title	Name of Co-author	Name of Journal	Volume No.	Page No.	Month	Year	ISSN/ ISBN No.
Dr. G.P. Gupta	Characterization and application of phase change Energy Storage material (PCM)	Neelam Sinha, Piyush Sinha	Mounta in Researc h	7	31-42	Dec.	2012	ISSN - 0974-3030
	Renewable Energy Resources : An Analysis of Indian	Neelam Sinha, Piyush Sinha	Mounta in Researc h	7	79-86	Dec.	2012	ISSN - 0974-3030

	Scenario							
	Cluster Model Wave Function of 10B using Complex Generator Coordinate Technique	Neelam Sinha, Piyush Sinha	Journal of Natural & Physical Science	25			2013	ISSN -097-3799
	Arsenic Impurities in ground Water	Neelam Sinha, Piyush Sinha	Shrikhala	2		July	2013	ISSN -2321-290X
	Passive Latent heat thermal Energy Storage system PCM a review	Neelam Sinha, Piyush Sinha	Periodic Research	2		August	2013	ISSN -2231-0
	A Normalized Cluster model wave function of 5He using Complex Generator Coordinate Technique	Neelam Sinha, Piyush Sinha	International Journal of Theoretical and Applied Science	114-120			2013	ISSN -0975-1
Dr. Anjali Khande lwal	Mol. Cryst. Liq.	S.S. Bawa , Maneesha Yadav	Cryst.				2009	
	Mol. Cryst. Liq.	S.S. Bawa , Maneesha Yadav	Cryst.				2008	
	Liquid Crystals	K.L. Sandhya, Geetha G. Nair, S. Krishna Prasad					2001	
	Mol. Cryst. Liq.		Cryst.				2000	
	Ind. J. Pure						1992	

	and Applied Physics							
Dr. Raj Kumar	Composition al effects on properties on PbS _{1-x} Se thin Films	G. Jain, R.K. Saini	Chalco genide Letters	7			2010	
	Structural and Electrical characterizati on of sintered SnTe Films	R. Saini, G. Jain	Chalco genide Letters	3			2010	
	Effect of Substrate Temperature on optical properties of Bi ₂ S ₃ thin films	Pawan kumar, Nidhi Jain	Chalco genide Letters	7				
	Optical studies of SnTe _x Se _{1-x}	Pawan kumar, Nidhi Jain	Optoele ctronics and Advanc ed Materia ls- Rapid Commu nication s	3			2009	
	Electrical & Optical Properties of Tin Oxide and Antimony doped Tin Oxide films	G. Jain	Journal of Optical Materia ls	26			2004	
	Transport properties of chemically prepared PbS Flims	T.P. Sharma , G. Jain	Indian Journal of Pure and Applied Physics	29			1991	
	Photoconduc tion in amorphous selenium alloy films	T.P. Sharma , G. Jain, S.C.K. Mishra	Indian Journal of Techno logy	8			1990	

	Optical Properties of Indium Selenium thin films	T.P. Sharma , G. Jain	Indian Journal of Pure and Applied Physics	28			1990	
	Study of Cu doping on PbS thin films	T.P. Sharma , G. Jain	Modern Physics Letters B				1989	
Dr. Neelam Sinha	Characterization and application of Phase change Energy storage material (PCM)		Mountain Research	7	31-42	Dec	2012	0974-3030
	Renewable Energy Resources	Piyush Sinha	Mountain Research	7	79-86	Dec	2012	ISSN. 0974-3030
	Cluster model wavefunction of 10B using complex Generator Co-ordinate Technique	Piyush Sinha	Journal Natural & physical sciences	25			2013	ISSN 097-3799
	Arsenic Impurities in ground water	Piyush Sinha	SHRIN KHALA	2		4 July	2013	ISSN. 2321-290x
	Passive Latent heat thermal Energy storage system		periodic Research	II		1 Aug	2013	ISSN 2231-0045
	PFCs in surface and Drinking water	Piyush Sinha	J. Mountain research	9	79-82	Dec	2014	0974-3030
	Health Risks and Human Exposure with PFOA and PFOS		Periodic Research	III		Feb	2015	ISSN No : 2231-0045

- Number of papers published in peer reviewed journals (national / international) by faculty and students

- Seminar workshop attended /Paper presented
 - Dr. G.P Gupta 59/59
 - Dr. Anjuli 19/17
 - Dr. Neelam Sinha 15/13
 - Dr. Raj Kumar 16/16
 - Number of publications listed in International Database (For E.g. Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Sciences Directory, EBSCO host, etc.) **-NO**
 - Monographs **NO**
 - Chapter in Books **NO**
 - Books Edited **NO**
 - Books with ISBN/ISSN numbers with details of publishers
33 Books were got published by Dr. Raj Kumar
 - Citation Index **NO**
 - SNIP **NO**
 - SJR **NO**
 - Impact factor **NO**
 - h-index **NO**
20. Areas of consultancy and income generated **NIL**
21. Faculty as members in
- a) National committees **NO**
 - b) International Committees **NO**
 - c) Editorial Boards... **NO**
22. Student Projects
- a) Percentage of students who have done in- house projects including inter departmental/ programs **100% Students**
 - b) Percentages of students placed for projects in organizations outside the institution i.e, in Research Laboratories/Industry/Other agencies **NO**
23. Awards / Recognitions received by faculty and students **-NO**
24. List of eminent academicians and scientists/visitors to the department **-NO**
25. Seminars/ Conferences/ Workshops organized & the source of funding
- a) National **NO**
 - b) International **NO**

26. Student profile program/ course wise

Name of the Course/program (Refer question no.4)	Applications Received	Selected	Pass %
B.Sc.(PCM, PSM, PCS)	2799	240	-
M.Sc.	62	20	-

27. Diversity of Students

Name of the Course	% of students from the same State	% of students from other states	% of students from abroad
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B.Sc.	100	NIL	NIL
M.Sc.	95	5	NIL

28. How many students have cleared national and state competitive examinations
Such as NET, SLET, GATE, Civil services, Defense services, etc.?

29. Student progression –

Student Progression	Against % enrolled
UG to PG	20%
PG to M.Phil	NOT Available
PG to Ph.D.	4
Ph.D. to Post-Doctoral	4
Employed	
Campus selection	NOT Available
Other than campus recruitment	NOT Available
Entrepreneurship/Self-employment	NOT Available

30. Details of Infrastructural facilities

- a) Library **NO**
- b) Internet facilities for Staff & Students - **NO**
- c) Class rooms with ICT facility **NO**
- d) Laboratories **NO**

31. Number of students receiving financial assistance from College, University, Government or other agencies –

32. Details on student enrichment programs (special lectures/ Workshops/ seminar) with external experts

Some special lectures are given by two external experts/examiners.

33. Teaching methods adopted to improve student learning

**By giving lecture and providing notes and
By organizing quiz etc.**

34. Participation in Institutional Social Responsibility (ISR) and Extension activities - **Students participate in (ISR) through NSS, NCC & Rovers Rangers.**

35. SWOC analysis of the Department and Future plans-

S (Strength) -

Well qualified staff

W (Weakness) –

Lack of teaching staff according to admitted students.

O (Opportunities) –

As far as career options for students are concerned, Physics offers a versatile platform for futuristic education.

C (Challenges) –

In spite of rural background of students we are providing them quality global education.

Future Plan –

To enrich PG Library in the department.
